



# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

## ANEXO 8 – Necessidades Hídricas das Culturas

Valorização dos Recursos Hídricos para a  
Agricultura no Vale do Tejo e Oeste

Revisão 0

Lisboa. 31 de outubro de 2024



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DESENVOLVIMENTO  
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Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

**ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE**

*Folha em branco*

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

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**ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE**

REVISÃO	DATA	DESCRIÇÃO
0	31/10/2024	Emissão inicial

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

**ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE**

*Folha em branco*



## VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

### ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

#### ANEXO 8 – NECESSIDADES HÍDRICAS DAS CULTURAS

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ANEXO 8 – Necessidades Hídricas das Culturas

**ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE**

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## VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

### ANEXO 8 – NECESSIDADES HÍDRICAS DAS CULTURAS

#### 1 INTRODUÇÃO

No presente anexo apresentam-se os dados base considerados na estimativa das necessidades hídricas das culturas.

#### 2 INFORMAÇÃO METEOROLÓGICA

##### 2.1 PRECIPITAÇÃO

##### 2.1.1 ESTUÁRIO

Tabela 1. Precipitações diárias na região de cálculo de Estuário (mm)

Jan_2003	Fev_2003	Mar_2003	Abr_2003	Mai_2003	Jun_2003	Jul_2003	Ago_2003	Set_2003	Out_2003	Nov_2003	Dez_2003
14.2	0.0	1.6	0.0	0.0	0.1	0.0	0.0	0.0	15.3	0.7	7.9
9.5	0.0	0.3	0.0	0.0	0.0	0.0	0.2	0.0	17.9	0.0	0.1
0.2	0.0	0.1	0.0	0.0	0.3	0.0	0.0	0.0	0.9	0.0	3.9
2.9	0.1	0.1	0.0	0.6	0.2	0.0	0.0	0.0	0.0	0.0	0.0
6.5	0.0	0.2	0.0	2.7	0.0	0.0	0.0	0.0	0.0	0.0	2.6
1.7	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.1
13.4	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	4.0
6.2	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	14.6
8.8	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	25.4	12.5
0.0	0.3	0.0	2.1	0.0	0.0	0.0	0.0	0.0	1.0	3.4	0.0
0.0	1.1	0.0	3.6	0.0	0.0	0.0	0.0	0.0	11.0	0.1	0.1
0.0	0.0	0.0	21.7	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
0.0	0.1	0.0	18.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
0.0	0.1	0.0	28.2	0.0	0.0	0.5	0.0	0.0	0.0	0.3	0.0
0.0	0.0	0.0	2.3	0.0	0.0	1.7	0.0	0.0	5.8	27.7	0.0
0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.1	0.1
0.0	0.9	14.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.6
23.8	21.6	0.8	0.6	0.0	0.0	0.0	0.0	0.0	5.8	0.0	3.1
0.6	10.2	0.3	0.1	0.0	0.0	0.0	0.0	0.0	3.0	0.0	0.1

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

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20.6	7.7	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0
1.0	11.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23.9	0.0
5.4	4.3	0.0	11.8	0.0	0.0	0.0	0.0	0.1	0.0	8.9	0.0
0.0	0.0	0.0	0.2	0.1	0.0	0.0	0.0	0.0	0.2	0.8	0.0
0.0	5.1	13.1	0.0	0.0	0.0	0.0	0.0	0.0	10.6	1.5	0.0
0.0	13.6	4.8	16.1	0.0	0.0	0.0	0.0	0.0	18.5	0.5	0.0
0.0	9.5	5.8	0.0	0.0	0.0	0.0	0.0	0.0	8.6	5.3	0.0
0.0	0.6	11.7	0.0	0.0	0.0	0.0	1.6	0.0	15.4	0.0	0.0
0.0	0.0	0.4	2.2	0.0	0.1	0.0	5.7	0.1	3.7	0.1	1.6
0.0	-77.0	16.0	2.5	0.1	1.3	0.0	0.4	0.2	2.3	0.3	0.0
0.0	-77.0	0.3	0.0	1.1	0.1	0.0	0.5	19.8	3.0	4.8	0.0
0.0	-77.0	0.0	-77.0	0.0	-77.0	0.0	13.5	-77.0	21.5	-77.0	0.7
Jan_2004	Feb_2004	Mar_2004	Apr_2004	May_2004	Jun_2004	Jul_2004	Aug_2004	Sep_2004	Oct_2004	Nov_2004	Dec_2004
0.2	3.2	0.2	6.1	2.3	0.0	0.0	0.0	0.6	0.1	1.6	12.1
0.0	2.4	0.0	2.1	0.1	0.0	0.0	0.0	7.9	0.0	11.1	5.7
0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.0	3.2	0.2
0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.3	3.4	0.0	0.3	0.0
0.1	0.0	0.5	0.0	1.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0
0.0	0.1	0.3	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.1	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.8	0.1	0.0	0.0	0.0	0.0	0.0	4.6	2.5	1.7	0.0	0.0
0.3	0.1	0.0	0.0	2.2	0.0	0.0	0.0	0.1	3.1	0.0	0.0
0.0	0.0	1.4	0.0	0.6	0.0	0.0	0.8	0.0	1.0	0.0	0.0
0.0	0.0	1.0	0.0	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.0
0.0	0.0	10.3	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.6
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	2.1
1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.0	0.0
12.6	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.7	0.0	0.0
0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0
0.1	0.0	0.1	0.0	0.0	0.0	0.0	1.4	0.0	0.2	0.0	0.0
0.0	0.0	0.0	1.9	0.1	0.0	0.0	1.8	0.0	6.9	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	29.3	0.0	0.3
0.0	0.0	0.0	0.1	2.5	0.0	0.0	0.0	0.0	3.7	0.0	0.0
0.0	1.9	0.0	10.3	2.9	0.0	0.0	0.0	0.0	0.9	0.0	0.0
0.0	17.6	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
0.1	3.3	0.1	0.0	2.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	20.0	0.0	0.0
0.1	10.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.1	0.0	1.1
3.7	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	4.7	0.0	1.4
10.6	0.8	14.8	0.0	0.0	0.0	0.0	0.0	0.0	23.3	1.1	0.0
5.0	0.7	3.7	0.0	0.0	0.0	0.0	0.0	0.0	14.2	6.3	0.4
36.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.6	0.4	0.0
10.1	-77.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	3.8	9.1	0.0
13.5	-77.0	10.8	-77.0	0.0	-77.0	0.0	0.0	-77.0	3.3	-77.0	0.0

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

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# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

Jan_2005	Feb_2005	Mar_2005	Apr_2005	May_2005	Jun_2005	Jul_2005	Aug_2005	Sep_2005	Oct_2005	Nov_2005	Dec_2005
0.1	0.0	0.0	2.1	0.4	0.0	0.0	0.0	0.0	0.0	0.3	12.3
0.1	0.0	0.0	13.3	0.0	0.0	0.0	0.0	0.0	0.0	8.0	8.0
0.0	0.0	0.0	2.1	0.0	0.0	0.0	0.0	0.0	0.0	31.1	0.2
0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2
0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
0.0	1.9	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.0	0.0
0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.2	7.0	0.0	0.0
0.0	0.0	0.3	0.0	2.0	0.0	0.0	0.0	0.0	13.7	0.0	0.0
0.0	0.0	0.0	0.0	4.6	0.0	0.0	0.0	0.0	3.4	0.0	0.0
0.0	0.0	0.1	0.0	11.2	0.0	0.0	0.0	0.0	7.0	1.8	0.0
0.0	0.0	0.1	0.0	0.5	0.1	0.0	0.0	0.0	0.9	3.9	0.0
0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.2	0.0	0.1	0.0
0.0	0.0	0.0	0.0	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.2	0.2	0.0	0.0	0.0	0.0	2.0	0.0	0.0
0.0	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	2.6	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	12.7	0.0
0.0	0.0	1.8	0.0	0.0	0.0	0.0	0.0	0.0	3.6	40.6	0.0
0.0	0.0	5.2	0.0	0.0	0.0	0.0	0.0	0.0	8.4	3.2	0.0
0.0	0.8	0.1	0.0	0.0	0.0	0.0	0.0	0.0	8.1	2.8	0.0
0.1	0.9	1.3	1.8	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0
0.1	0.3	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
0.0	0.0	15.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	1.4	6.8
0.0	0.1	5.1	0.1	0.0	0.0	2.6	0.0	0.0	0.0	4.7	5.3
0.0	4.1	3.3	0.0	0.3	0.0	2.0	0.0	0.0	30.1	2.5	2.8
0.0	0.0	8.8	0.0	0.0	0.0	0.0	0.0	0.0	3.5	2.5	0.1
0.0	-77.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.9	0.1	0.0
0.0	-77.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.8	0.4	0.1
0.0	-77.0	0.0	-77.0	0.7	-77.0	0.0	0.0	-77.0	6.9	-77.0	1.1
Jan_2006	Feb_2006	Mar_2006	Apr_2006	May_2006	Jun_2006	Jul_2006	Aug_2006	Sep_2006	Oct_2006	Nov_2006	Dec_2006
0.4	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
0.1	13.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.9	15.7	14.1
0.0	1.8	5.4	0.0	0.0	0.0	0.2	0.0	0.0	0.0	14.4	0.5
0.0	0.1	24.3	1.2	0.0	0.0	0.2	0.0	0.0	0.9	13.4	1.7
0.4	0.1	0.1	8.4	0.0	0.0	0.0	0.0	0.0	0.0	0.8	8.5
4.6	0.0	0.0	3.7	0.0	0.1	0.0	0.0	0.0	0.0	10.7	0.8
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.2	4.4
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.1
0.0	0.0	0.1	0.0	0.0	0.1	0.0	0.0	0.3	0.0	0.0	1.6
0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	0.0	0.0

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.3	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0
3.4	0.0	0.0	0.1	0.0	0.8	0.0	0.0	3.6	0.0	0.1	0.0
0.6	0.0	0.0	1.0	0.0	21.6	0.0	0.0	0.2	0.0	0.2	0.0
23.3	0.0	0.0	5.6	0.0	6.8	0.0	0.0	0.2	0.3	32.3	0.0
3.6	0.9	0.7	0.6	0.0	3.3	0.0	3.7	0.0	21.6	1.9	0.0
0.1	1.0	28.4	0.1	0.0	0.0	0.0	1.3	0.0	8.2	6.9	0.0
0.1	10.5	14.9	0.0	0.0	0.0	0.7	4.4	0.0	14.6	2.8	0.0
0.0	9.3	3.8	0.1	0.0	0.0	0.1	0.0	0.0	9.4	0.1	0.0
0.0	4.1	4.5	0.8	0.0	0.0	0.0	0.0	0.0	28.3	0.2	0.0
0.0	0.3	3.8	2.6	0.2	0.0	0.0	0.0	25.6	1.0	0.6	0.0
0.0	0.0	1.4	12.6	0.1	0.0	0.0	0.0	7.8	27.5	0.4	0.0
0.0	1.4	16.3	0.0	0.0	0.1	0.0	0.0	9.9	15.1	10.9	0.0
0.1	2.0	0.3	0.0	0.0	0.0	0.0	0.0	1.9	25.9	56.5	0.0
0.0	16.0	0.0	0.0	0.0	0.1	0.0	0.0	0.2	36.1	2.6	0.0
0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.2	0.7	0.0
0.2	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.1	24.4	0.0
5.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	15.9	0.0
15.3	-77.0	0.0	0.0	0.2	0.0	0.0	0.0	0.4	0.0	0.0	0.2
0.0	-77.0	0.0	0.0	0.3	0.0	0.0	0.0	2.2	0.0	0.0	1.2
0.0	-77.0	0.0	-77.0	0.0	-77.0	0.0	0.0	-77.0	0.1	-77.0	0.1
Jan_2007	Feb_2007	Mar_2007	Apr_2007	May_2007	Jun_2007	Jul_2007	Aug_2007	Sep_2007	Oct_2007	Nov_2007	Dec_2007
0.2	0.0	0.2	0.2	13.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	6.0	9.2	0.0	0.0	0.0	0.0	0.2	0.0	0.0
0.0	0.0	0.0	3.2	0.8	0.0	0.0	0.0	0.0	0.4	0.0	0.0
0.1	0.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1
0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1
0.2	10.3	0.6	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
0.0	21.2	0.1	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
3.6	0.7	0.0	2.5	0.0	0.5	0.0	0.0	0.8	0.0	0.0	0.0
0.0	2.2	0.0	3.9	0.0	0.0	0.0	0.0	8.8	0.0	0.0	0.0
0.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0	5.6	0.0	0.0	0.0
0.0	1.1	0.0	0.0	0.3	1.1	0.0	0.0	0.0	0.1	0.0	0.0
0.0	3.3	0.0	0.0	0.0	12.1	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.3	0.0	0.0	0.0	0.6	0.1	1.0	0.0	1.5	0.0	0.0
0.4	8.5	0.0	0.0	0.0	13.7	0.3	0.0	0.3	0.0	0.0	0.0
0.0	4.1	0.0	0.0	0.0	1.9	0.1	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	1.2
0.1	10.4	0.0	0.4	0.0	3.9	0.0	0.0	0.1	0.0	22.8	28.0
0.0	0.6	0.0	12.9	0.9	0.0	0.0	0.0	3.9	0.0	26.1	1.2
0.0	2.2	0.0	0.1	0.0	0.0	0.0	0.0	0.2	0.0	0.6	0.1
4.6	6.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	2.0	0.0
3.4	0.1	0.0	0.0	0.7	0.0	0.9	0.0	0.0	0.7	0.9	0.0

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.1	0.1	0.0	0.0	2.2	0.0	0.0	0.1	0.0	1.1	0.0	0.0
2.2	5.9	0.2	2.5	6.7	0.0	0.0	1.9	0.0	0.0	0.0	2.7
0.0	0.0	0.3	0.0	0.9	0.0	0.0	0.1	0.0	0.0	0.0	0.0
0.0	0.0	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.2	1.5	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.9	-77.0	0.0	0.1	0.0	0.1	0.0	0.0	13.4	0.0	0.0	0.1
5.6	-77.0	0.6	0.5	0.0	0.0	0.0	0.0	27.0	0.0	0.1	0.1
0.1	-77.0	2.4	-77.0	0.0	-77.0	0.0	0.0	-77.0	0.1	-77.0	0.1
Jan_2008	Feb_2008	Mar_2008	Apr_2008	May_2008	Jun_2008	Jul_2008	Aug_2008	Sep_2008	Oct_2008	Nov_2008	Dec_2008
25.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	4.7
6.1	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0
25.2	7.5	0.0	0.0	0.0	0.0	0.2	0.0	0.1	0.0	0.1	3.3
6.6	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.8	0.9
0.9	0.1	0.0	0.0	0.0	0.0	0.0	0.0	4.6	0.0	0.8	0.3
0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	3.4
0.0	0.0	0.0	10.5	0.1	0.0	0.0	0.0	0.0	9.1	0.2	5.6
0.0	0.0	0.0	8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
0.0	0.0	0.2	4.7	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.1
1.2	0.0	1.8	14.3	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.5	0.0	0.1	3.3	0.0	0.0	0.0	0.0	0.0	1.0	0.4	0.5
0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.5	0.0	9.7	0.0	2.5
9.2	0.0	0.0	1.7	0.1	0.0	0.0	0.0	0.0	14.0	0.0	8.0
1.4	0.0	0.0	0.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0	3.9
1.8	0.0	0.1	0.2	18.1	0.1	0.0	0.0	0.0	0.0	0.0	0.4
1.9	1.7	0.0	5.4	0.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0
0.1	15.3	2.2	21.3	0.0	0.1	0.0	0.0	0.2	0.1	0.0	0.0
0.1	54.3	2.7	8.9	0.7	0.0	0.0	0.0	0.0	11.2	0.0	0.0
0.1	3.8	23.8	13.2	0.1	0.0	0.0	0.0	0.0	0.2	0.0	0.1
0.0	0.9	0.2	6.4	2.5	0.0	0.0	0.0	0.2	0.0	0.0	0.0
0.0	4.9	0.0	0.7	0.0	0.0	0.0	0.0	0.4	4.1	0.0	0.0
0.1	0.4	1.0	0.0	7.2	0.0	0.0	0.0	0.0	0.1	0.0	0.0
0.0	6.8	0.1	0.1	7.8	0.0	0.0	0.1	0.0	0.0	0.1	0.0
0.0	0.6	0.0	0.0	4.1	0.0	0.0	0.0	0.0	0.0	0.6	0.0
0.1	0.0	0.0	0.0	2.6	0.0	0.1	0.0	0.0	0.0	0.8	0.0
0.0	0.0	0.0	0.0	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.1	0.1	0.0	5.8	0.0	0.0	0.1	0.1	0.6	0.0	22.8
0.0	3.9	0.0	0.0	3.8	0.0	0.0	0.0	2.9	0.0	11.2	0.4
0.1	0.0	0.1	0.0	3.6	0.0	0.0	0.0	1.1	0.0	12.4	2.1
0.0	-77.0	0.8	0.0	1.2	0.0	0.0	0.0	0.0	2.9	6.5	2.8
0.0	-77.0	0.0	-77.0	0.1	-77.0	0.0	0.1	-77.0	8.3	-77.0	14.4
Jan_2009	Feb_2009	Mar_2009	Apr_2009	May_2009	Jun_2009	Jul_2009	Aug_2009	Sep_2009	Oct_2009	Nov_2009	Dec_2009
16.1	22.2	2.2	0.0	0.0	0.0	0.0	0.4	0.0	0.0	5.6	0.7
7.6	1.0	0.2	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.8	8.9
2.7	6.2	0.2	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	1.9

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

## ANEXO 8 – Necessidades Hídricas das Culturas

### ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.0	6.8	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.0
0.0	5.7	0.8	0.0	0.0	7.5	0.0	0.0	0.0	1.9	0.2	1.1
0.6	2.4	0.1	0.0	0.0	2.8	0.0	0.0	0.0	4.0	0.9	6.7
0.0	0.3	0.0	0.1	0.0	0.4	0.0	0.0	0.0	8.1	0.2	2.6
0.0	1.0	0.0	0.1	0.0	4.3	0.0	0.0	0.0	0.3	2.2	0.0
0.1	3.7	0.0	0.2	2.9	0.4	0.0	0.0	1.7	0.0	0.1	2.0
0.5	0.9	0.0	0.5	3.6	0.0	0.0	0.0	0.1	0.0	0.1	0.0
0.1	0.0	0.0	0.6	4.7	0.0	0.0	0.0	0.2	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
5.7	0.1	0.0	0.1	0.6	0.0	0.0	0.0	0.9	0.0	1.2	0.0
0.0	0.0	0.0	6.0	0.0	0.4	0.0	0.1	0.1	0.1	8.0	0.4
18.9	0.0	0.0	6.4	0.0	4.6	0.0	0.0	0.0	0.0	10.7	2.3
0.1	0.0	0.0	4.0	0.2	0.2	0.0	0.0	0.0	0.0	18.0	5.5
0.1	0.1	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.6
0.7	0.0	0.0	5.5	0.0	0.0	0.0	0.0	1.3	0.0	0.0	7.8
3.8	0.0	0.0	1.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0
7.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.6	0.0	18.9
0.2	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.0	13.3	9.6	8.2
6.1	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	2.8	0.0	9.5
2.2	0.0	0.0	0.0	3.7	0.0	0.0	0.0	0.0	0.1	0.0	17.1
0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	6.8
11.5	0.0	1.6	3.8	0.0	0.2	0.0	0.1	0.0	0.0	23.6	9.7
2.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.1	0.5	3.4
0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.5	8.3
2.6	0.9	0.1	0.1	0.0	12.7	0.0	0.0	0.2	0.1	0.4	29.7
1.7	-77.0	0.0	0.0	0.0	4.9	0.0	0.0	0.1	0.0	11.5	14.4
22.2	-77.0	0.0	0.3	0.0	0.0	0.0	0.0	0.1	0.1	1.8	9.3
12.6	-77.0	0.0	-77.0	0.0	-77.0	0.1	0.0	-77.0	0.8	-77.0	8.5
<b>Jan_2010</b>	<b>Feb_2010</b>	<b>Mar_2010</b>	<b>Apr_2010</b>	<b>May_2010</b>	<b>Jun_2010</b>	<b>Jul_2010</b>	<b>Aug_2010</b>	<b>Sep_2010</b>	<b>Oct_2010</b>	<b>Nov_2010</b>	<b>Dec_2010</b>
1.1	0.0	0.8	0.1	0.4	0.0	0.0	0.0	0.0	0.0	0.4	3.5
0.3	0.0	4.2	0.0	0.3	0.1	0.1	0.0	0.0	0.0	0.0	1.1
10.4	4.4	18.6	0.5	0.0	0.0	0.0	0.0	0.0	10.3	0.1	2.5
13.9	5.1	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.4
0.1	0.2	25.4	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	29.8
2.9	0.0	16.6	0.0	0.0	0.0	0.0	0.0	0.1	1.7	0.0	3.5
0.5	3.8	1.5	0.0	0.5	0.0	0.0	0.0	0.8	9.2	0.0	3.1
0.2	7.6	22.2	0.0	11.3	3.4	0.0	0.3	0.0	41.6	1.3	7.9
0.0	1.8	4.2	0.0	6.9	9.6	0.0	0.0	0.0	19.5	5.6	7.5
14.6	8.5	0.0	0.0	0.5	1.3	0.0	0.0	0.0	4.5	1.3	0.0
5.3	0.1	0.0	0.0	2.2	0.1	0.0	0.0	0.0	0.0	0.0	0.1
38.3	5.5	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.1	2.5
11.8	0.0	0.0	5.7	0.2	0.0	0.0	0.0	0.0	0.0	0.2	0.1
3.5	8.9	0.0	13.4	0.2	0.0	0.0	0.0	0.0	0.0	17.3	0.0
6.9	18.8	0.1	14.6	0.1	0.1	0.0	0.0	0.1	0.0	2.9	0.1

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

1.4	5.8	0.1	10.5	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
0.0	2.3	0.0	4.2	0.0	0.0	0.0	0.0	0.0	0.0	13.8	0.3
0.3	0.5	0.0	13.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0
0.4	0.3	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.2	0.1
1.0	12.1	2.4	0.3	0.0	0.0	0.0	0.0	0.0	0.0	10.7	18.1
0.0	11.8	0.0	2.8	0.0	0.0	0.0	0.0	0.0	0.0	1.2	11.8
0.0	11.2	0.0	3.9	0.0	0.0	0.0	0.0	0.0	0.0	4.9	14.7
0.7	8.4	1.2	0.2	0.0	0.1	0.0	0.2	2.1	0.0	16.0	0.7
0.2	0.1	8.3	0.0	0.6	0.0	0.0	0.0	0.1	0.0	5.2	1.2
0.0	9.1	7.0	0.0	2.0	0.0	0.0	0.0	0.0	0.1	0.0	8.4
0.0	5.5	1.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	15.6	0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0
0.1	-77.0	1.9	0.0	0.0	0.0	0.0	0.0	0.0	25.1	6.2	7.1
0.0	-77.0	0.5	0.0	0.0	0.1	0.0	0.0	0.0	30.9	5.9	13.6
0.0	-77.0	0.4	-77.0	0.1	-77.0	0.0	0.0	-77.0	5.5	-77.0	15.0
Jan_2011	Feb_2011	Mar_2011	Apr_2011	May_2011	Jun_2011	Jul_2011	Aug_2011	Sep_2011	Oct_2011	Nov_2011	Dec_2011
0.2	0.0	0.0	0.0	1.4	0.0	0.1	0.2	9.3	0.0	1.3	0.1
0.1	0.0	0.0	0.0	0.3	0.0	0.0	0.0	2.2	0.0	22.3	0.9
0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.8	0.0
0.6	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.6	0.0	10.6	0.0
12.6	0.0	5.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6	0.0
17.9	0.0	3.5	0.0	3.5	0.1	0.0	0.0	0.0	0.0	0.0	0.0
2.5	0.1	1.9	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0
11.0	0.0	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.1	0.0
2.2	3.4	0.1	0.0	0.0	0.2	0.0	0.0	0.1	0.0	38.9	0.9
2.6	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	4.6
1.5	4.2	5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.3
0.0	0.1	1.2	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.5
0.0	14.6	12.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.3	1.3
0.1	15.8	15.5	0.0	0.0	0.0	0.0	0.0	0.1	0.0	19.9	4.9
0.0	9.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	0.0
0.0	17.7	0.0	0.0	10.3	0.0	0.0	0.0	0.0	0.0	0.3	0.8
0.1	1.5	0.0	0.0	4.3	0.0	0.1	0.0	0.0	0.0	0.0	0.1
0.0	5.9	0.0	25.1	18.4	0.0	0.0	0.0	0.1	0.0	15.9	0.0
0.0	31.0	0.0	12.7	0.1	0.0	0.2	0.0	0.0	0.0	2.6	0.1
0.0	0.4	0.0	8.5	0.0	0.0	0.0	1.1	0.0	0.0	0.3	0.0
0.0	0.0	0.0	25.0	0.0	0.0	0.1	0.3	0.0	0.0	0.1	0.1
0.1	0.0	0.4	3.3	0.0	0.0	0.2	0.0	0.0	0.0	7.0	0.1
0.5	0.0	0.0	2.3	0.0	0.0	0.0	0.0	0.0	38.2	0.0	0.1
3.5	0.0	0.2	0.0	0.0	0.0	0.3	0.0	0.0	5.3	0.0	0.0
0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	0.0	0.0
0.0	0.0	2.6	0.0	1.0	0.0	0.0	0.1	0.0	15.4	0.0	0.0
8.3	0.0	0.8	0.1	2.5	0.0	0.0	0.0	0.0	12.3	0.0	0.0

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

5.9	0.0	8.1	0.0	11.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
0.7	-77.0	0.1	9.6	0.1	0.0	0.0	0.0	0.0	0.0	0.2	0.0
0.2	-77.0	0.0	5.3	10.4	0.0	0.0	0.1	0.0	0.0	0.5	0.0
0.1	-77.0	0.0	-77.0	0.1	-77.0	0.0	9.7	-77.0	0.9	-77.0	0.0
Jan_2012	Feb_2012	Mar_2012	Apr_2012	May_2012	Jun_2012	Jul_2012	Aug_2012	Sep_2012	Oct_2012	Nov_2012	Dec_2012
0.0	0.4	3.1	10.4	0.8	0.0	0.0	0.0	0.0	0.0	0.0	2.6
0.5	0.1	0.1	2.9	8.7	0.3	0.0	0.0	0.0	0.0	14.4	0.0
0.0	0.0	0.1	0.0	5.4	0.1	0.0	0.1	0.0	0.0	7.6	0.0
0.0	0.0	0.0	0.0	1.8	0.0	0.0	0.0	0.0	0.0	25.9	1.1
0.0	0.0	0.0	1.3	3.0	0.0	0.0	0.0	0.0	0.0	0.0	5.1
0.1	0.0	0.0	4.9	0.1	0.1	0.0	0.0	0.0	0.0	0.0	35.9
0.0	0.0	0.0	0.0	20.2	0.4	0.0	0.0	0.0	0.0	5.5	4.7
0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.1	0.2
0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.1
0.0	2.5	0.0	0.9	0.0	0.1	0.0	0.0	0.0	8.7	1.1	0.0
0.2	0.0	0.0	0.1	0.0	0.3	0.0	0.0	0.0	1.3	1.7	0.0
0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
2.8	0.3	0.0	3.9	0.0	0.1	0.0	0.6	0.0	4.6	1.7	35.9
3.9	0.0	3.5	1.0	0.0	0.0	0.0	4.5	0.0	0.2	8.2	0.7
2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	6.2	3.4
0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	12.6	22.8	2.9
0.0	0.0	0.3	1.0	4.8	0.0	0.0	0.0	0.0	11.1	0.0	0.1
0.0	0.0	0.0	0.9	8.2	0.0	0.0	0.0	0.0	0.2	0.6	0.4
0.0	0.0	0.0	0.2	5.6	0.6	0.0	0.0	0.0	0.0	5.0	1.7
0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.4	0.1	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0
0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	16.4	0.0	0.0	0.1
0.1	0.0	0.6	0.3	0.0	0.0	0.0	0.0	0.0	13.5	25.1	0.3
0.0	0.0	0.0	7.0	0.0	0.0	0.0	0.1	12.5	17.4	24.3	1.5
0.1	0.0	0.0	3.2	0.0	0.0	0.0	0.0	3.3	3.3	4.8	0.0
0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.0	1.8	0.1	1.4	0.0
0.0	0.1	0.0	4.3	0.0	0.0	0.0	0.0	0.5	0.0	0.2	0.1
0.0	0.1	0.2	3.4	0.0	0.0	0.0	0.0	0.0	4.3	1.8	2.7
0.0	-77.0	23.1	0.1	0.0	0.1	0.0	0.0	0.0	9.8	10.6	0.1
0.0	-77.0	4.0	-77.0	0.0	-77.0	0.0	0.0	-77.0	0.0	-77.0	8.0
Jan_2013	Feb_2013	Mar_2013	Apr_2013	May_2013	Jun_2013	Jul_2013	Aug_2013	Sep_2013	Oct_2013	Nov_2013	Dec_2013
0.1	0.2	0.0	2.2	0.0	0.0	0.0	0.0	0.0	9.1	0.0	0.0
0.0	0.4	0.0	1.1	0.0	0.0	0.0	0.0	0.0	2.8	0.0	0.0
0.1	0.0	0.0	12.0	0.0	0.0	0.0	0.0	0.0	3.1	0.0	0.0
0.0	0.0	17.1	8.2	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0
0.0	0.0	6.8	0.8	0.0	0.1	0.0	0.0	0.0	0.1	0.3	0.0
0.0	0.3	4.7	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	12.4	0.4	0.0	1.9	0.0	0.0	0.0	0.0	0.0	0.0



Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

## ANEXO 8 – Necessidades Hídricas das Culturas

### ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.2	0.1	15.0	0.2	0.0	0.8	0.0	0.0	0.0	0.0	3.3	0.0
2.3	0.0	4.8	2.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.6	1.0	4.8	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.8	1.9	7.1	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
1.3	2.1	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.7	0.0	0.2	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	1.8
0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.3	0.0	0.2	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.2	0.0	0.6	0.0	3.0	0.1	0.0	0.0	0.0	0.1	0.0	0.0
1.6	7.8	14.8	0.0	6.3	0.4	0.0	0.1	0.0	0.0	0.0	0.8
12.0	0.3	0.0	0.0	1.0	1.3	0.0	0.0	0.0	10.8	0.0	0.7
53.7	4.3	5.5	0.0	0.5	0.1	0.0	0.0	0.0	1.0	0.0	9.2
11.5	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.1
1.1	11.3	5.0	0.0	0.0	0.0	0.0	0.0	0.0	5.9	0.1	0.0
7.9	14.3	8.6	0.0	0.0	0.0	0.0	0.0	0.0	17.1	8.7	0.0
2.6	0.3	8.2	0.0	0.0	0.0	0.0	0.0	0.0	46.0	0.1	4.3
2.0	0.0	1.9	0.0	0.0	0.0	0.0	0.0	0.0	38.9	0.0	61.4
9.0	0.0	2.1	0.1	0.0	0.0	0.0	0.0	0.5	3.9	0.0	8.8
0.0	0.0	10.9	0.0	0.0	0.0	0.0	0.0	4.1	0.1	0.0	0.6
3.6	0.4	5.9	0.2	0.0	0.0	0.0	0.0	18.8	0.1	0.0	5.2
0.0	0.7	2.2	0.0	0.1	0.0	0.2	0.0	8.0	2.2	0.0	0.7
0.0	-77.0	2.8	0.1	0.5	0.0	0.0	0.0	9.2	0.0	0.0	0.1
0.0	-77.0	1.5	0.0	0.0	0.0	0.0	0.0	5.7	0.0	0.0	0.2
0.1	-77.0	19.7	-77.0	0.0	-77.0	0.0	0.0	-77.0	0.0	-77.0	13.3
<b>Jan_2014</b>	<b>Feb_2014</b>	<b>Mar_2014</b>	<b>Apr_2014</b>	<b>May_2014</b>	<b>Jun_2014</b>	<b>Jul_2014</b>	<b>Aug_2014</b>	<b>Sep_2014</b>	<b>Oct_2014</b>	<b>Nov_2014</b>	<b>Dec_2014</b>
4.4	2.2	4.8	17.2	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0
6.5	0.1	3.1	3.1	0.0	0.0	0.4	0.3	0.0	0.0	0.0	0.0
5.7	9.1	0.1	3.0	0.0	0.0	0.0	0.0	0.0	0.0	11.4	0.0
20.3	24.5	0.1	9.1	0.0	0.0	0.0	0.0	0.0	0.0	4.1	0.2
0.0	1.3	0.9	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0
13.3	14.6	0.0	0.0	0.0	14.2	2.6	0.0	13.6	0.3	0.3	0.0
21.1	4.0	0.1	0.1	0.0	0.1	0.0	0.0	4.9	3.5	3.8	0.0
1.1	13.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	4.4	5.0	0.0
0.0	51.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.0	1.6	0.0
0.0	6.7	0.0	0.0	0.0	0.0	0.0	0.0	23.3	0.0	21.3	0.0
0.0	25.6	0.0	0.0	0.0	0.0	0.0	0.0	2.9	5.2	7.5	0.0
3.4	5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.0	3.2	0.4
1.8	7.7	0.1	0.0	0.0	0.0	0.0	0.0	0.0	24.3	24.9	23.4
2.7	10.3	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.3	7.0	2.7
3.5	1.4	0.0	0.0	0.0	0.0	0.0	0.0	8.5	5.3	3.1	0.0
0.8	0.1	0.0	0.0	0.2	0.0	0.0	0.0	20.5	0.0	0.5	0.5
29.3	1.5	0.0	0.0	0.0	0.0	0.0	0.0	3.6	0.0	0.0	0.0
16.7	0.1	0.0	0.0	0.0	0.0	0.1	0.0	5.1	0.9	14.1	0.0
6.5	0.0	0.0	0.0	1.6	0.0	1.3	0.0	1.2	0.0	50.4	0.0

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.8	4.3	0.0	10.1	15.1	0.0	0.1	0.0	0.9	0.0	15.8	0.0
8.5	0.1	4.3	1.8	7.1	2.6	0.0	0.0	0.4	0.0	0.0	0.0
1.1	1.1	0.5	0.0	1.2	4.5	0.0	0.0	11.9	0.0	1.6	0.0
0.0	6.7	0.0	2.8	0.3	10.0	0.0	0.0	4.2	0.0	5.6	0.0
0.2	1.5	2.8	2.5	0.0	2.2	0.0	0.0	0.0	0.0	0.1	0.0
0.2	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.2	0.1	0.0	0.0	0.0	0.0	4.2	0.0	17.4	0.0
0.8	1.5	13.4	0.0	0.4	0.0	0.0	0.0	9.7	0.0	21.7	0.0
3.9	0.1	2.2	0.0	0.1	0.0	0.0	0.0	0.1	0.0	1.9	0.1
5.5	-77.0	0.8	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.3	-77.0	5.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
0.9	-77.0	24.5	-77.0	0.0	-77.0	0.0	0.0	-77.0	0.0	-77.0	0.0
Jan_2015	Feb_2015	Mar_2015	Apr_2015	May_2015	Jun_2015	Jul_2015	Aug_2015	Sep_2015	Oct_2015	Nov_2015	Dec_2015
0.0	0.7	0.0	0.0	0.0	3.2	1.4	0.0	0.0	0.0	8.8	0.0
0.0	1.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	0.0
0.0	0.8	0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.2	0.1
0.0	0.4	0.0	0.0	2.3	0.0	0.0	0.0	0.0	5.3	9.7	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.6	2.3	0.0
0.0	2.8	0.0	4.7	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.1
0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.4
0.1	0.0	0.0	9.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	1.3	0.0	4.6	0.0	0.3	0.0	0.0	0.0	11.3	0.0	0.0
0.0	0.2	0.0	0.1	0.0	0.3	0.0	0.0	0.0	3.2	0.1	0.0
0.0	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	11.2	0.0	0.0
0.0	0.4	0.0	0.0	0.0	1.3	0.0	0.0	0.4	0.6	0.1	9.6
0.4	2.7	0.0	0.5	0.0	8.9	0.0	0.0	0.0	0.0	0.1	16.3
13.2	0.2	0.0	9.8	0.0	0.1	0.0	0.0	2.0	0.0	0.0	0.0
3.1	0.1	0.0	0.5	0.0	0.0	0.0	0.0	6.4	0.3	0.0	0.0
16.2	0.0	18.0	0.0	0.0	0.0	0.0	0.0	0.0	12.4	0.1	0.0
15.9	0.0	4.1	0.0	0.0	0.0	0.0	0.0	0.0	19.1	0.1	0.0
0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.1	0.3
6.5	0.2	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.2	0.4
1.7	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.1
1.4	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	0.1
0.4	0.5	0.6	0.0	0.0	0.0	0.0	2.1	0.0	0.0	0.2	0.0
0.0	0.0	1.1	1.7	0.0	0.0	0.1	0.0	0.0	2.0	0.0	0.1
0.0	0.0	0.3	10.3	0.0	0.0	0.1	0.0	0.0	13.3	0.0	0.0
0.0	0.2	0.0	11.6	0.0	0.0	0.0	0.0	0.0	28.8	0.0	0.1
0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	1.6	0.0	0.6
0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.8	0.0	11.6
0.8	-77.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.1	0.0	2.1
2.7	-77.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	3.8
4.9	-77.0	0.0	-77.0	0.0	-77.0	0.2	0.0	-77.0	6.7	-77.0	0.1

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

### ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

Jan_2016	Feb_2016	Mar_2016	Apr_2016	May_2016	Jun_2016	Jul_2016	Aug_2016	Sep_2016	Oct_2016	Nov_2016	Dec_2016
6.3	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	7.1
0.1	0.0	0.0	4.1	0.0	0.2	0.0	0.0	0.0	0.0	0.7	0.6
4.1	0.0	0.0	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.2	33.3
9.6	0.0	0.4	11.6	0.0	0.0	0.0	0.0	0.0	0.0	5.5	11.8
5.4	0.0	0.5	0.0	13.3	0.0	0.0	0.0	0.0	0.0	6.0	0.0
2.1	8.5	0.2	0.0	5.5	0.0	0.1	0.0	0.0	0.0	0.0	0.0
3.1	0.0	2.6	0.0	36.6	0.0	5.3	0.0	0.0	0.0	0.1	0.0
11.8	0.1	0.0	0.0	12.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.3	1.1	0.1	0.2	8.8	0.0	0.0	0.0	0.0	0.0	0.5	0.0
13.2	5.2	0.1	3.4	12.6	0.0	0.0	0.0	0.0	0.5	0.0	0.0
8.8	1.1	0.0	1.6	14.4	0.0	0.0	0.0	0.0	4.6	0.8	0.0
0.0	6.3	0.0	11.4	9.5	0.0	0.0	0.0	0.0	6.9	5.5	0.1
0.0	5.2	0.0	1.0	0.9	0.0	0.0	0.0	8.2	0.5	0.1	0.1
3.0	11.7	0.0	10.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.9
0.0	3.7	3.8	9.5	0.0	3.0	0.0	0.0	0.3	1.4	0.0	10.0
0.0	0.0	0.0	8.4	0.0	4.1	0.0	0.0	0.0	0.1	0.0	7.8
0.8	5.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.2	0.0
0.3	0.3	9.0	0.2	0.0	0.0	0.0	0.0	0.0	0.1	1.2	0.0
8.4	0.0	4.4	3.8	0.0	0.0	0.0	0.0	0.0	0.0	3.6	0.0
0.7	0.0	4.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	24.6	0.0
10.0	0.7	4.2	3.6	0.0	0.0	0.0	0.0	0.0	0.8	7.7	0.0
2.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	10.8	1.2	0.0
0.1	0.0	0.1	0.3	0.0	0.0	0.0	0.0	0.0	5.3	0.0	0.1
0.1	1.6	0.0	0.0	0.8	0.0	0.0	0.0	0.0	13.2	8.7	0.1
11.1	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.1	1.3	22.5	0.0
0.1	21.0	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.9	0.0
0.0	10.3	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.5	0.0
7.2	0.5	0.0	0.0	8.1	0.3	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.2	0.2	0.0	0.0	0.0	0.0	0.7	0.0
0.0	-77.0	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	0.0
0.0	-77.0	0.8	-77.0	0.0	-77.0	0.0	0.0	-77.0	0.0	-77.0	0.0
Jan_2017	Feb_2017	Mar_2017	Apr_2017	May_2017	Jun_2017	Jul_2017	Aug_2017	Sep_2017	Oct_2017	Nov_2017	Dec_2017
0.0	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7.3	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9	0.0
10.1	0.9	15.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.8	0.0
0.0	4.3	15.1	0.0	0.9	0.0	0.0	0.0	0.1	0.0	1.9	0.0
0.2	0.3	1.3	0.0	7.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.1	1.1	0.0	0.0	0.3	0.1	1.3	0.0	0.0	0.0	0.0	0.0
0.0	6.5	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7
0.0	5.9	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.1
0.2	5.1	0.0	0.0	12.0	0.0	0.0	0.0	0.0	0.0	0.0	15.2
0.0	5.7	0.0	0.0	13.1	0.0	0.0	0.0	0.0	0.0	0.0	16.3

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.1	7.1	0.7	0.0	7.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	1.7	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1
0.0	10.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3
0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	14.1	0.0	0.0
0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	5.8	0.0	0.0
0.0	0.7	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.9	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0
0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
0.0	0.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.8	0.1
0.0	0.0	7.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	0.2
0.1	0.0	2.4	0.0	0.4	0.2	0.0	0.0	0.0	0.0	0.4	4.6
28.3	0.0	24.8	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.5
5.4	1.7	1.1	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	5.5
0.7	0.2	0.1	0.0	1.8	0.8	0.0	7.1	0.0	0.0	20.1	1.5
0.6	-77.0	0.0	0.0	3.1	0.0	0.0	0.4	0.0	0.0	0.3	0.2
0.0	-77.0	0.0	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
13.2	-77.0	0.0	-77.0	0.0	-77.0	0.1	0.0	-77.0	0.0	-77.0	1.2
Jan_2018	Feb_2018	Mar_2018	Apr_2018	May_2018	Jun_2018	Jul_2018	Aug_2018	Sep_2018	Oct_2018	Nov_2018	Dec_2018
0.1	0.3	11.8	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.1	0.1
0.1	0.0	12.5	1.4	0.4	0.0	0.2	0.0	0.0	0.0	0.2	0.1
0.3	0.6	26.2	4.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1
0.8	2.0	6.7	1.5	0.0	0.4	0.0	0.0	0.0	0.0	8.3	0.1
15.5	0.0	9.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	0.2
0.6	0.0	5.0	16.2	0.6	0.1	0.0	0.0	0.0	0.0	1.8	0.1
0.5	0.0	13.6	3.4	0.4	3.3	0.0	0.0	0.0	0.0	3.8	0.1
0.1	0.0	4.9	5.1	0.0	0.7	0.0	0.0	0.0	0.0	4.5	0.0
18.5	2.7	35.9	1.4	0.0	2.4	0.0	0.0	0.1	0.0	0.0	0.0
2.4	0.0	2.6	12.7	0.0	0.4	0.0	0.0	0.0	0.0	2.3	0.0
0.2	0.3	12.6	0.5	0.0	0.0	0.0	0.0	0.0	0.6	50.8	0.0
0.0	2.7	0.4	21.8	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.6
13.0	0.0	0.5	0.6	0.0	0.0	0.0	0.0	0.0	1.9	0.0	8.1
1.2	0.0	19.4	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0
0.0	0.0	4.8	3.8	0.0	0.0	0.0	0.0	0.0	9.5	0.0	0.9
0.0	0.1	2.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5
0.0	0.4	12.3	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.8	0.1
0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.3	10.7	7.3
0.0	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.2	0.4
0.1	0.0	0.1	1.6	4.7	1.5	0.0	0.0	0.0	0.1	3.1	0.0
0.0	0.0	0.0	12.6	0.0	12.0	0.0	0.0	0.0	0.2	3.3	0.1
0.0	0.0	0.0	0.3	0.0	1.3	0.0	0.0	0.0	0.0	3.9	0.1
0.0	0.0	4.6	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.2	0.1

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.1	0.0	1.3	0.0	13.7	0.0	0.0	0.0	0.0	0.3	4.2	0.1
5.0	0.0	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.7	0.0
0.2	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
0.0	11.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	0.0	0.2
0.1	15.8	0.0	4.3	0.0	0.0	0.0	0.0	0.0	0.9	0.1	0.0
0.0	-77.0	1.9	4.6	0.0	2.5	0.0	0.0	0.0	4.5	19.5	0.0
0.0	-77.0	3.6	1.5	0.0	0.2	0.0	0.0	0.0	17.7	2.0	0.0
0.0	-77.0	0.6	-77.0	0.1	-77.0	0.0	0.0	-77.0	10.3	-77.0	0.0
Jan_2019	Feb_2019	Mar_2019	Apr_2019	May_2019	Jun_2019	Jul_2019	Aug_2019	Sep_2019	Oct_2019	Nov_2019	Dec_2019
0.0	9.3	0.0	1.8	0.1	0.0	0.0	0.0	0.0	0.0	2.3	1.8
0.0	0.4	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	9.2	0.0
0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0
0.1	0.0	1.2	5.8	0.0	1.2	0.0	0.0	0.0	0.0	1.7	0.0
0.0	0.0	5.2	6.9	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0
0.1	0.0	10.6	4.1	0.0	4.3	0.0	0.0	0.0	0.0	0.8	0.0
0.1	0.0	7.9	7.1	1.3	0.1	0.0	0.5	0.0	0.0	1.7	0.0
0.0	0.0	1.0	5.3	10.4	0.0	0.0	0.8	0.0	0.0	1.2	0.2
0.0	0.0	0.0	0.8	2.7	0.0	0.0	1.5	0.0	0.0	0.9	0.0
0.0	1.1	0.0	2.0	0.3	0.0	0.0	0.2	0.0	0.0	0.5	0.1
0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.3	0.8
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	2.2
0.0	0.0	0.3	0.4	0.0	0.0	0.0	0.0	0.0	6.5	1.2	0.5
0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	11.7	6.3	0.8
0.1	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	1.1	7.0
0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	16.5
0.2	4.5	0.0	8.1	0.0	0.0	0.0	0.0	0.0	6.6	12.2	0.7
5.5	5.5	0.0	1.4	0.0	1.7	0.0	0.0	0.0	0.2	0.0	5.8
8.8	0.0	0.0	2.8	0.0	0.8	0.0	0.0	0.0	10.7	8.1	34.6
0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	1.3	0.2	7.7	19.8
0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	13.3	0.0	2.5	4.7
0.3	0.0	0.0	5.1	0.0	0.0	0.0	0.0	0.3	0.0	20.7	0.0
0.3	0.0	0.0	5.1	0.0	1.9	0.2	0.0	0.0	0.0	4.0	0.2
0.0	0.0	0.0	11.2	0.0	1.1	0.0	0.0	0.6	0.0	2.8	0.0
0.0	0.0	0.0	1.6	0.0	0.3	0.0	0.1	0.1	0.0	3.7	0.0
0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	15.7	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.1	0.1	0.1
0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.0	0.1	0.0
1.6	-77.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.2	0.1	0.0
5.0	-77.0	0.4	0.0	0.0	0.0	0.2	0.0	0.0	2.4	2.3	0.0
12.8	-77.0	1.8	-77.0	0.0	-77.0	0.0	0.0	-77.0	0.6	-77.0	0.1
Jan_2020	Feb_2020	Mar_2020	Apr_2020	May_2020	Jun_2020	Jul_2020	Aug_2020	Sep_2020	Oct_2020	Nov_2020	Dec_2020
0.1	1.2	0.8	16.7	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.1	0.1	1.3	0.1	0.0	0.0	0.0	0.0	0.0	3.1	0.0	0.1
0.0	0.1	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

### ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.0	0.2	0.1	0.2	0.0	0.1	0.0	0.0	0.0	0.5	0.0	13.0
0.0	0.2	1.3	13.3	0.0	0.0	0.0	0.0	0.0	0.1	4.6	4.7
0.1	0.0	0.0	19.0	0.0	0.0	0.0	0.0	0.0	0.0	22.7	2.2
0.1	0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.1	1.3	1.5
0.1	1.2	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	2.7	0.8
0.0	0.0	0.0	11.6	2.9	0.0	0.0	0.0	0.0	0.0	0.8	2.0
0.0	0.0	0.0	0.0	11.2	0.0	0.0	0.0	0.0	0.0	0.2	4.9
0.0	0.1	0.0	0.0	7.6	0.5	0.0	0.0	0.0	0.0	0.2	1.8
0.0	0.0	0.0	0.0	3.6	2.3	0.0	0.4	0.0	0.0	0.0	1.2
0.0	0.7	0.0	2.0	12.6	0.1	0.0	0.0	0.0	0.0	0.0	1.3
1.3	0.1	0.0	12.2	11.4	0.0	0.0	0.0	0.0	0.0	1.4	8.5
1.2	0.0	0.0	6.0	8.3	0.0	0.0	0.0	0.0	0.0	0.1	1.5
8.3	0.1	0.0	20.7	0.0	0.4	0.0	0.1	1.0	0.0	0.2	7.8
0.4	1.9	0.0	4.7	0.0	0.0	0.0	0.1	6.2	0.0	0.2	0.5
18.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	16.5	0.1	0.2	2.2
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	45.8	0.1	17.4
0.1	0.0	8.8	13.5	0.0	0.0	0.3	0.5	3.1	37.8	0.0	0.1
0.0	0.0	1.6	1.3	0.0	0.0	1.5	0.0	0.0	8.9	0.0	0.2
0.5	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.2	2.1	0.0	0.2
1.5	0.0	0.3	0.0	0.0	0.0	0.0	0.0	1.3	0.2	0.0	1.6
5.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	5.3	0.0
1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.3	27.7	0.0
0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	2.4	0.0
1.9	0.0	0.0	0.9	0.0	0.1	0.0	0.0	0.1	0.1	0.1	0.0
1.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	9.0	2.7
0.6	1.7	0.0	3.4	0.0	0.0	0.0	0.0	0.0	0.0	8.9	2.9
5.3	-77.0	8.1	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.4	0.1
4.0	-77.0	0.7	-77.0	0.0	-77.0	0.0	0.0	-77.0	0.0	-77.0	2.0

#### 2.1.2 SADO

Tabela 2. Precipitações diárias na região de cálculo de Sado (mm)

Jan_2003	Fev_2003	Mar_2003	Abr_2003	Mai_2003	Jun_2003	Jul_2003	Ago_2003	Set_2003	Out_2003	Nov_2003	Dez_2003
23.7	0.0	1.8	0.0	0.0	0.0	0.0	0.3	0.1	17.5	0.1	3.6
16.3	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	11.5	0.0	0.0
0.1	0.0	0.1	0.0	0.0	0.7	0.0	0.0	0.0	0.2	0.0	3.5
2.5	0.0	0.0	0.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.0	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	3.2
1.8	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.2
14.2	5.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.8
6.2	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	6.8
5.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31.5	13.3
0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.0

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.0	0.1	0.0	2.7	0.0	0.0	0.0	0.0	0.0	8.7	0.0	0.1
0.0	0.0	0.0	35.3	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1
0.0	0.1	0.0	20.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
0.0	0.0	0.0	38.1	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0
0.0	0.0	0.0	18.5	0.0	0.0	1.7	0.0	0.0	14.0	22.3	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.1	0.1
0.1	0.9	15.7	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	13.5
2.4	23.7	0.0	1.5	0.0	0.0	0.0	0.0	0.0	8.6	0.0	7.7
1.2	7.7	1.5	0.0	0.0	0.0	0.0	0.0	0.0	5.6	0.0	0.1
21.2	3.8	0.1	1.2	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0
1.9	9.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.5	0.0
6.1	4.9	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	9.0	0.0
0.6	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	0.0
0.0	4.7	9.7	0.0	0.0	0.0	0.0	0.0	0.0	9.9	4.8	0.0
0.0	14.2	3.8	10.9	0.0	0.0	0.0	0.0	0.0	19.2	4.6	0.0
0.0	9.6	5.2	0.5	0.0	0.0	0.0	0.0	0.0	21.1	5.9	0.0
0.0	0.3	10.5	0.0	0.0	0.0	0.0	1.0	0.0	19.8	0.0	0.0
0.0	0.0	0.8	8.0	0.2	0.0	0.0	5.2	0.0	11.4	0.0	2.1
0.0	-77.0	15.5	2.1	0.0	3.6	0.0	2.5	0.1	0.8	0.2	0.0
0.0	-77.0	0.7	0.0	2.6	0.3	0.0	0.0	38.1	2.3	3.2	0.0
0.0	-77.0	0.0	-77.0	0.0	-77.0	0.0	15.2	-77.0	21.7	-77.0	0.1
Jan_2004	Feb_2004	Mar_2004	Apr_2004	May_2004	Jun_2004	Jul_2004	Aug_2004	Sep_2004	Oct_2004	Nov_2004	Dec_2004
0.0	5.4	0.3	7.8	1.3	0.0	0.0	0.0	0.0	0.0	0.0	24.9
0.0	0.3	0.0	2.8	0.6	0.0	0.0	0.0	6.2	0.0	5.0	0.5
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	5.5	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	0.0	2.3	0.0
0.0	0.0	0.7	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.5	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.1	0.0	0.0	0.0	0.0	0.0	0.0	3.2	1.4	2.4	0.0	0.0
0.4	0.1	0.0	0.0	2.7	0.0	0.0	0.1	0.7	1.9	0.0	0.0
0.0	0.0	2.5	0.0	2.6	0.0	0.0	1.1	0.0	0.1	0.0	0.0
0.1	0.0	2.6	0.0	0.1	0.0	0.0	0.6	0.0	0.0	0.0	0.0
0.0	0.0	17.5	0.0	0.1	0.0	0.0	0.3	0.0	0.0	0.0	1.3
0.0	0.0	0.2	0.0	0.1	0.0	0.0	0.1	0.0	0.0	0.0	2.1
1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	0.0	0.0
0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.2	0.0	0.0	0.0	0.0	0.0	0.0	2.1	0.0	0.0	0.0	0.0
0.0	0.0	0.0	1.2	0.0	0.0	0.0	3.5	0.0	5.7	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.5	0.0	0.2
0.0	0.4	0.0	0.1	2.3	0.0	0.0	0.0	0.0	9.6	0.1	0.0
0.0	1.7	0.0	8.4	13.8	0.0	0.0	0.0	0.0	1.7	0.0	0.0
0.0	30.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

## ANEXO 8 – Necessidades Hídricas das Culturas

### ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.0	9.8	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.1	0.0	0.0
0.0	0.5	0.0	0.0	0.9	0.0	0.0	0.0	0.0	9.9	0.0	0.0
0.1	13.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.9	0.0	0.7
3.2	3.2	1.4	0.0	0.0	0.0	0.0	0.0	0.0	3.3	0.0	0.9
7.9	0.3	13.0	0.0	0.0	0.0	0.0	0.0	0.0	9.9	0.5	0.0
0.9	0.3	4.2	0.0	0.0	0.0	0.0	0.0	0.0	7.4	12.4	0.0
5.7	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	13.6	0.4	0.0
8.6	-77.0	1.8	0.6	0.0	0.0	0.0	0.0	0.0	1.7	3.1	0.0
11.0	-77.0	7.7	-77.0	0.0	-77.0	0.0	0.0	-77.0	0.6	-77.0	0.0
Jan_2005	Feb_2005	Mar_2005	Apr_2005	May_2005	Jun_2005	Jul_2005	Aug_2005	Sep_2005	Oct_2005	Nov_2005	Dec_2005
0.0	0.0	0.0	2.9	0.0	0.1	0.0	0.0	0.0	0.0	0.4	9.4
0.0	0.0	0.0	14.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.2
0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	12.8	0.1
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3
0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.0	0.0	0.1
0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0
0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.6	0.3	6.9	0.0	0.0
0.0	0.0	0.2	0.0	5.0	0.0	0.0	0.2	0.0	3.1	0.0	0.0
0.0	0.0	0.0	0.0	8.5	0.0	0.0	0.0	0.0	3.9	0.0	0.0
0.0	0.0	0.4	0.0	24.4	0.0	0.0	0.0	0.0	5.1	1.6	0.0
0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	5.3	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
0.0	0.0	0.0	0.0	6.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.1	0.0
0.0	0.0	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	5.9	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	17.7	0.0
0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	2.1	40.5	0.0
0.0	0.0	9.2	0.0	0.0	0.0	0.0	0.0	0.0	16.8	2.8	0.0
0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.1	2.8	0.0
0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.1	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
0.0	0.0	16.2	0.0	0.0	0.0	0.0	0.0	0.0	0.1	1.5	8.2
0.0	0.2	6.7	0.0	0.0	0.0	2.0	0.0	0.0	0.0	2.8	8.1
0.0	5.4	2.3	0.0	0.7	0.0	3.8	0.0	0.0	43.3	4.2	1.2
0.0	0.0	7.6	0.0	0.0	0.0	0.0	0.0	0.0	7.4	6.2	0.4
0.0	-77.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	4.2	0.1	0.0
0.0	-77.0	0.0	0.0	1.2	0.0	0.0	0.0	0.0	9.7	3.0	0.1
0.0	-77.0	0.0	-77.0	5.9	-77.0	0.0	0.0	-77.0	6.5	-77.0	0.3
Jan_2006	Feb_2006	Mar_2006	Apr_2006	May_2006	Jun_2006	Jul_2006	Aug_2006	Sep_2006	Oct_2006	Nov_2006	Dec_2006
0.3	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
0.0	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	17.5	16.0



Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

## ANEXO 8 – Necessidades Hídricas das Culturas

### ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.0	4.0	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.6	0.4
0.0	0.0	37.8	4.2	0.0	0.0	0.1	0.0	0.0	0.1	5.1	0.8
0.6	0.0	0.0	9.7	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.9
4.1	0.0	0.0	3.1	0.0	0.0	0.0	0.0	0.0	0.0	3.5	0.1
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9	3.6
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5
0.0	0.0	0.4	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.1
0.0	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0
0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.9	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0
3.5	0.0	0.0	0.0	0.0	0.3	0.0	0.0	4.8	0.0	0.1	0.0
1.7	0.0	0.0	2.9	0.0	30.0	0.0	0.0	0.0	0.0	0.1	0.0
24.9	0.0	0.0	4.3	0.0	13.3	0.0	0.0	0.1	0.0	33.4	0.0
0.0	1.8	0.3	0.0	0.0	0.9	0.0	0.1	0.0	21.3	4.8	0.0
0.0	0.0	33.6	0.0	0.0	0.0	0.0	6.8	0.0	9.6	6.8	0.0
0.1	7.3	18.2	0.0	0.0	0.0	0.3	2.6	0.0	26.0	3.1	0.0
0.0	6.3	1.2	0.1	0.0	0.0	0.0	0.0	0.0	3.5	0.1	0.0
0.0	2.1	7.5	0.1	0.0	0.0	0.0	0.0	0.0	27.3	0.2	0.0
0.0	0.0	6.5	2.1	0.0	0.0	0.0	0.0	25.0	0.6	0.5	0.0
0.0	0.0	0.3	9.7	0.0	0.0	0.0	0.0	0.6	30.5	0.6	0.0
0.0	0.5	20.0	0.0	0.0	0.0	0.0	0.0	8.5	19.5	10.5	0.0
0.0	0.6	0.3	0.0	0.0	0.0	0.0	0.0	0.7	16.1	55.9	0.0
0.0	19.5	0.0	0.0	0.0	0.0	0.0	0.0	0.2	51.3	3.8	0.0
0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.1	0.6	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	34.6	0.0
1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.7	0.0
18.0	-77.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
0.0	-77.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.1	0.0	1.8
0.1	-77.0	0.0	-77.0	0.0	-77.0	0.0	0.0	-77.0	0.0	-77.0	0.1
Jan_2007	Feb_2007	Mar_2007	Apr_2007	May_2007	Jun_2007	Jul_2007	Aug_2007	Sep_2007	Oct_2007	Nov_2007	Dec_2007
0.1	0.0	0.1	0.0	13.1	0.0	0.0	0.0	0.0	2.3	0.0	0.0
0.0	0.0	0.0	2.7	10.8	0.0	0.0	0.0	0.0	1.7	0.0	0.0
0.0	0.1	0.0	5.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0
0.1	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0
0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
0.1	10.4	1.2	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
0.0	19.3	0.0	0.5	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
0.0	5.5	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
0.0	3.8	0.0	1.5	0.0	0.6	0.0	0.0	0.3	0.0	0.0	0.0
0.0	2.5	0.0	0.6	0.0	0.0	0.0	0.0	2.2	0.0	0.0	0.0
0.0	3.8	0.0	0.0	0.0	0.0	0.0	0.3	8.3	0.0	0.0	0.0
0.0	2.4	0.0	0.0	0.6	9.2	0.0	0.0	0.0	0.0	0.0	0.0
0.1	2.7	0.0	0.0	0.2	22.7	0.0	0.0	0.2	0.0	0.0	0.0

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

## ANEXO 8 – Necessidades Hídricas das Culturas

### ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.1	0.5	0.0	0.0	0.0	1.0	0.0	0.5	0.2	0.6	0.0	0.0
0.2	5.7	0.0	0.1	0.0	20.5	0.0	0.0	0.1	0.0	0.0	0.0
0.0	8.3	0.0	0.0	0.0	3.5	0.0	0.0	0.0	0.0	0.0	0.1
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3
0.0	11.0	0.0	0.2	0.0	6.9	0.0	0.0	0.0	0.0	40.1	1.3
0.0	0.8	0.0	15.3	0.1	0.0	0.0	0.0	9.3	0.0	15.5	1.2
0.0	1.8	0.0	0.1	0.0	0.0	0.0	0.0	1.4	0.0	0.2	0.9
4.9	3.7	0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.0	3.4	0.0
2.5	0.0	0.0	0.0	4.5	0.0	1.1	0.0	0.0	0.1	0.8	0.0
0.0	0.0	0.0	0.0	7.3	0.0	0.0	1.2	0.0	0.5	0.0	0.0
0.7	0.6	1.6	3.2	0.3	0.0	0.0	2.7	0.0	0.0	0.0	5.4
0.0	0.0	0.9	2.9	0.2	0.0	0.0	1.3	0.0	0.0	0.0	0.0
0.0	0.0	0.1	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7.0	1.7	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.4	-77.0	0.0	0.0	0.0	0.0	0.0	0.0	23.0	0.0	0.0	0.0
4.6	-77.0	0.0	0.9	0.0	0.0	0.0	0.0	30.7	0.0	0.0	0.0
0.0	-77.0	3.5	-77.0	0.0	-77.0	0.0	0.0	-77.0	0.0	-77.0	0.0
Jan_2008	Feb_2008	Mar_2008	Apr_2008	May_2008	Jun_2008	Jul_2008	Aug_2008	Sep_2008	Oct_2008	Nov_2008	Dec_2008
12.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	4.8
20.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29.1	7.4	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	5.4
4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.2	0.9
0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.1	0.0	0.9	0.5
0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2
0.0	0.0	0.0	11.6	0.0	0.0	0.0	0.0	0.0	8.9	0.4	7.6
0.2	0.0	0.0	7.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
0.7	0.0	0.2	3.8	1.1	0.0	0.0	0.0	0.0	0.0	0.1	0.1
0.6	0.0	2.2	14.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.2	0.0	0.0	1.7	0.1	0.0	0.0	0.0	0.0	0.1	0.1	0.4
0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.7	0.0	1.8	0.0	2.1
15.0	0.0	0.0	1.3	0.2	0.0	0.0	0.0	0.0	13.4	0.0	8.8
0.5	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	4.6
0.5	0.0	0.0	0.0	16.1	0.0	0.0	0.0	0.0	0.0	0.0	0.3
1.5	0.0	0.0	6.6	1.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0
0.0	14.2	2.0	42.6	0.0	0.2	0.0	0.0	0.1	0.1	0.0	0.0
0.0	113.9	8.9	8.9	0.7	0.0	0.0	0.0	0.0	26.6	0.0	0.0
0.1	1.0	17.8	18.8	0.2	0.0	0.0	0.0	0.0	0.1	0.0	0.1
0.0	0.6	1.8	5.6	1.7	0.0	0.0	0.0	0.2	0.0	0.0	0.0
0.1	5.4	0.0	0.2	0.0	0.0	0.0	0.0	0.0	5.1	0.0	0.0
0.0	0.5	1.2	0.0	11.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	7.1	0.0	0.0	23.9	0.0	0.0	0.0	0.0	0.0	0.8	0.0
0.0	1.8	0.0	0.0	3.2	0.0	0.0	0.0	0.0	0.0	0.2	0.0
0.0	0.0	0.0	0.0	4.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0
0.0	0.0	0.0	0.0	5.9	0.0	0.0	0.0	0.0	0.0	0.0	0.1

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.0	0.0	0.0	0.0	5.2	0.0	0.0	0.0	0.0	0.5	0.0	28.4
0.0	2.1	0.0	0.0	2.5	0.0	0.0	0.0	5.7	0.0	12.5	0.3
0.0	0.1	0.0	0.0	6.0	0.0	0.0	0.0	2.5	0.0	8.9	3.9
0.0	-77.0	0.3	0.3	1.5	0.0	0.0	0.0	0.0	3.3	4.1	4.6
0.0	-77.0	0.0	-77.0	0.1	-77.0	0.0	0.0	-77.0	8.5	-77.0	18.6
Jan_2009	Feb_2009	Mar_2009	Apr_2009	May_2009	Jun_2009	Jul_2009	Aug_2009	Sep_2009	Oct_2009	Nov_2009	Dec_2009
21.9	41.1	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.3	1.3
5.7	0.4	0.8	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.6
2.4	8.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7
0.1	8.3	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0
0.0	2.7	1.5	0.0	0.0	2.2	0.0	0.0	0.0	2.3	0.0	3.8
0.5	1.7	0.3	0.0	0.0	2.1	0.0	0.0	0.0	9.8	0.3	8.1
0.0	0.4	0.0	0.0	0.0	3.3	0.0	0.0	0.0	3.7	0.0	4.9
0.0	0.7	0.0	0.0	0.0	7.3	0.0	0.0	0.0	1.0	0.2	0.0
0.0	5.1	0.0	0.0	2.0	3.0	0.0	0.0	1.1	0.0	0.0	0.1
0.7	1.0	0.0	0.2	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.2	0.9	0.3	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
5.2	0.0	0.0	0.0	1.8	0.0	0.0	0.0	0.1	0.0	0.0	0.0
0.0	0.0	0.0	2.3	0.0	0.0	0.0	0.0	0.3	0.0	14.0	0.0
32.3	0.0	0.0	4.6	0.0	17.9	0.0	0.0	0.0	0.0	6.7	2.9
0.7	0.0	0.0	5.8	0.0	0.2	0.0	0.0	0.0	0.0	2.6	7.9
0.0	0.0	0.0	5.6	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0
1.1	0.0	0.0	6.1	0.0	0.0	0.0	0.0	1.0	0.0	0.1	11.5
8.3	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.0	0.0	24.7
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.8	12.6	9.3
6.5	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	5.5	0.1	9.9
3.7	0.0	0.0	0.0	2.3	0.0	0.3	0.0	0.0	0.0	0.0	24.8
0.4	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	19.8
6.9	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	48.5	10.6
0.8	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.9	5.7
0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.7
2.2	5.9	0.0	0.0	0.0	6.7	0.0	0.0	0.0	0.0	0.1	46.5
2.3	-77.0	0.0	0.0	0.0	0.4	0.0	0.0	0.1	0.0	9.9	12.1
24.7	-77.0	0.0	0.1	0.0	0.0	0.0	0.0	0.5	0.0	0.0	7.9
12.8	-77.0	0.0	-77.0	0.0	-77.0	0.0	0.0	-77.0	0.1	-77.0	8.8
Jan_2010	Feb_2010	Mar_2010	Apr_2010	May_2010	Jun_2010	Jul_2010	Aug_2010	Sep_2010	Oct_2010	Nov_2010	Dec_2010
0.5	0.0	0.5	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	3.8
0.1	0.0	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
9.4	3.6	29.1	0.6	0.2	0.0	0.0	0.0	0.0	12.0	0.0	2.1
13.5	6.7	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.2
0.2	0.0	19.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.4
4.3	0.0	8.5	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	10.9

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

## ANEXO 8 – Necessidades Hídricas das Culturas

### ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

1.0	3.7	1.7	0.0	0.1	0.0	0.0	0.0	0.4	10.4	0.0	5.1
0.0	11.4	20.6	0.0	23.8	5.2	0.0	0.0	0.0	67.0	0.7	13.1
0.0	0.8	1.1	0.0	5.7	12.2	0.0	0.0	0.0	17.1	2.7	9.2
16.1	10.2	0.0	0.0	0.0	1.5	0.0	0.0	0.0	4.2	2.9	0.1
22.3	0.1	0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.1	0.0
32.8	9.1	0.0	0.0	0.1	0.3	0.0	0.1	0.0	0.0	0.0	1.2
16.6	0.2	0.0	6.6	0.8	0.0	0.0	0.0	0.0	0.0	0.1	0.1
3.1	7.2	0.0	8.9	0.4	0.0	0.0	0.0	0.0	0.0	16.4	0.1
13.5	18.0	0.0	13.6	0.2	0.0	0.0	0.0	0.1	0.0	0.3	0.0
10.2	6.5	0.0	8.4	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.0
0.0	1.1	0.0	11.5	0.0	0.0	0.0	0.0	0.0	0.0	9.7	0.7
0.2	2.3	0.0	13.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.5
0.3	0.0	2.6	0.1	0.0	0.0	0.0	0.0	0.2	0.0	20.6	0.2
1.0	14.7	4.7	0.3	0.0	0.0	0.0	0.0	0.3	0.0	7.9	15.8
0.0	18.5	2.2	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.8	15.1
0.0	13.2	1.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	14.0
0.8	9.4	0.0	0.4	0.0	0.0	0.0	0.0	2.8	0.0	13.0	1.0
0.0	0.5	7.1	0.0	1.8	0.0	0.0	0.0	0.1	0.0	16.7	1.8
0.0	12.6	6.7	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	7.5
0.2	11.7	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	13.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	17.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0
0.0	-77.0	3.6	0.0	0.0	0.0	0.0	0.0	0.0	12.2	6.1	10.8
0.0	-77.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.7	5.8	21.7
0.0	-77.0	0.0	-77.0	0.0	-77.0	0.0	0.0	-77.0	2.2	-77.0	10.1
Jan_2011	Feb_2011	Mar_2011	Apr_2011	May_2011	Jun_2011	Jul_2011	Aug_2011	Sep_2011	Oct_2011	Nov_2011	Dec_2011
0.4	0.0	0.0	0.0	5.9	0.0	0.0	1.0	0.2	0.0	3.2	0.0
0.1	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	25.3	2.7
0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.3	0.0
0.2	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0	7.1	0.0
24.3	0.0	8.8	0.0	0.0	0.3	0.0	0.0	0.0	0.0	1.7	0.0
21.5	0.0	2.8	0.0	7.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0
2.7	0.1	3.4	0.0	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10.9	0.0	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.7	0.0
4.0	4.0	0.8	0.0	0.0	0.0	0.0	0.0	0.1	0.0	26.1	0.0
3.1	0.1	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	3.8
2.3	1.3	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	0.6
0.0	0.1	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
0.0	15.3	38.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.2	0.7
0.1	12.5	15.6	0.0	0.0	0.0	0.0	0.0	0.4	0.0	30.0	3.7
0.1	18.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0
0.0	14.1	0.0	0.0	7.2	0.0	0.0	0.0	0.0	0.0	0.0	1.1
0.0	0.7	0.0	0.0	1.1	0.0	0.0	0.0	0.1	0.0	0.2	0.3
0.0	4.0	0.0	33.8	23.0	0.0	0.0	0.0	0.4	0.0	22.0	0.1

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

## ANEXO 8 – Necessidades Hídricas das Culturas

### ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.0	37.7	0.0	17.2	0.1	0.0	0.0	0.0	0.0	0.0	11.2	0.0
0.0	0.0	0.0	15.3	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
0.0	0.0	0.0	12.8	0.0	0.0	0.0	0.1	0.0	0.0	0.2	0.0
0.0	0.0	0.4	4.8	0.0	0.0	0.0	0.1	0.0	0.0	5.0	0.0
1.1	0.0	0.0	2.3	0.0	0.0	0.0	0.0	0.0	39.4	0.0	0.1
4.4	0.0	0.1	0.4	0.0	0.0	0.0	0.0	0.0	8.9	0.0	0.0
0.4	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0
0.0	0.0	0.5	0.0	1.5	0.0	0.0	0.0	0.0	17.3	0.0	0.0
8.4	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	6.8	0.0	0.0
8.3	0.0	9.9	0.2	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.3	-77.0	0.1	9.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	-77.0	0.0	8.3	1.3	0.0	0.0	0.1	0.0	0.0	0.0	0.0
0.0	-77.0	0.0	-77.0	0.0	-77.0	0.0	0.1	-77.0	0.0	-77.0	0.0
Jan_2012	Feb_2012	Mar_2012	Apr_2012	May_2012	Jun_2012	Jul_2012	Aug_2012	Sep_2012	Oct_2012	Nov_2012	Dec_2012
0.0	0.2	1.8	19.4	5.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.0	0.0	0.1	7.3	4.2	0.2	0.0	0.0	0.0	0.0	5.6	0.0
0.0	0.0	0.2	0.0	5.9	0.0	0.0	0.0	0.0	0.0	9.3	0.0
0.0	0.0	0.0	0.0	5.2	0.0	0.0	0.0	0.0	0.0	21.5	1.1
0.0	0.0	0.0	0.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	46.9
0.0	0.0	0.0	0.0	16.8	0.1	0.0	0.0	0.0	0.0	11.0	4.4
0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	1.9	0.2
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.1
0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.6	0.0
0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
0.6	0.0	0.0	2.3	0.0	0.0	0.0	0.3	0.0	0.4	0.0	21.9
5.4	0.0	9.7	0.3	0.0	0.0	0.0	4.4	0.0	0.0	10.7	1.6
3.5	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.6	1.8
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	23.3	3.2
0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.0	2.6	0.0	0.1
0.0	0.0	0.0	0.4	6.2	0.0	0.0	0.0	0.0	0.0	0.0	0.1
0.0	0.0	0.0	0.0	1.2	0.1	0.0	0.0	0.0	0.0	5.8	3.0
0.0	0.0	0.0	0.1	0.0	0.3	0.0	0.0	0.0	0.1	0.3	0.1
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.6	0.0	0.0	0.1
0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.1	8.0	25.7	0.3
0.0	0.0	0.0	5.6	0.0	0.0	0.0	0.1	6.9	16.7	13.5	0.9
0.3	0.0	0.0	2.9	0.0	0.0	0.0	0.0	5.2	2.6	0.6	0.0
0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	1.0	0.0	0.1	0.0
0.0	0.0	0.0	5.2	0.0	0.0	0.0	0.0	0.8	0.0	0.4	0.1
0.0	0.0	0.4	4.4	0.0	0.0	0.0	0.0	0.1	12.1	0.0	1.4
0.0	-77.0	27.6	0.1	0.0	0.0	0.0	0.0	0.0	10.0	10.8	0.2

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.0	-77.0	7.4	-77.0	0.0	-77.0	0.0	0.0	-77.0	0.0	-77.0	9.9
Jan_2013	Feb_2013	Mar_2013	Apr_2013	May_2013	Jun_2013	Jul_2013	Aug_2013	Sep_2013	Oct_2013	Nov_2013	Dec_2013
0.1	0.3	0.0	3.3	0.0	0.0	0.0	0.0	0.0	13.9	0.0	0.0
0.1	0.3	0.0	1.2	0.0	0.0	0.0	0.0	0.0	3.1	0.0	0.0
0.1	0.0	2.6	12.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	6.8	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	7.9	0.0	0.0	0.0	0.0	0.0	1.0	0.1	0.0	0.0
0.0	0.0	9.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	9.1	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	19.8	0.4	0.0	0.6	0.0	0.0	0.0	0.0	2.4	0.0
5.3	0.0	4.7	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.2	1.2	1.2	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.7	1.7	9.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
0.7	2.3	7.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.6	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.9
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.7	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.3	0.0	0.4	0.0	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.0	9.5	29.5	0.0	4.7	0.1	0.0	0.0	0.0	0.0	0.0	1.6
7.0	0.2	0.0	0.0	0.5	1.8	0.0	0.0	0.0	20.2	0.0	1.0
78.7	4.4	5.4	0.0	0.3	0.0	0.0	0.0	0.0	0.9	0.0	8.8
9.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.1
0.0	15.9	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.1	15.8	17.7	0.0	0.0	0.0	0.0	0.0	0.0	17.7	7.9	0.0
1.4	0.5	10.7	0.0	0.0	0.0	0.0	0.0	0.0	62.1	0.4	2.6
2.1	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	45.4	0.0	69.8
6.7	0.0	2.7	0.1	0.0	0.0	0.0	0.0	0.0	6.8	0.0	7.4
0.0	0.0	6.7	0.0	0.0	0.0	0.0	0.0	16.3	0.1	0.0	0.1
2.4	0.3	6.2	0.0	0.0	0.0	0.0	0.0	35.3	0.1	0.0	5.2
0.1	1.0	1.1	0.0	0.4	0.0	0.0	0.0	2.5	0.7	0.1	0.5
0.1	-77.0	3.2	0.4	0.0	0.0	0.0	0.0	9.9	0.0	0.0	0.0
0.0	-77.0	0.3	0.0	0.0	0.0	0.0	0.0	7.1	0.0	0.0	0.1
0.1	-77.0	22.7	-77.0	0.0	-77.0	0.0	0.0	-77.0	0.0	-77.0	9.4
Jan_2014	Feb_2014	Mar_2014	Apr_2014	May_2014	Jun_2014	Jul_2014	Aug_2014	Sep_2014	Oct_2014	Nov_2014	Dec_2014
2.7	2.2	5.4	12.3	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0
6.0	0.2	3.5	1.8	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0
5.3	11.5	0.2	0.6	0.0	0.0	0.0	0.1	0.0	0.0	8.6	0.0
30.2	29.2	0.0	9.6	0.0	0.0	0.0	0.0	0.0	0.0	7.8	0.2
0.0	1.4	1.3	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12.4	18.6	0.0	0.0	0.0	3.6	2.1	0.0	13.4	0.0	0.0	0.0
21.7	4.8	0.1	0.1	0.0	0.1	0.0	0.0	7.3	2.9	3.1	0.0
0.0	12.3	0.1	0.0	0.0	0.0	0.0	0.0	8.1	6.9	6.0	0.0
0.0	53.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	14.1	1.5	0.0
0.0	9.5	0.0	0.0	0.0	0.0	0.0	0.0	5.2	0.3	20.9	0.0

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.0	27.7	0.0	0.0	0.0	0.0	0.0	0.0	0.2	5.1	6.2	0.0
4.6	4.6	0.0	0.1	0.0	0.0	0.0	0.0	0.0	22.9	3.8	0.8
1.7	6.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.9	14.6	15.6
1.7	11.6	0.0	0.1	0.0	0.0	0.0	0.0	6.3	0.1	3.1	4.4
3.2	1.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	5.0	1.7	0.0
0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	46.9	0.0	0.0	0.0
20.9	1.3	0.0	0.0	0.0	0.0	0.0	0.0	3.7	0.0	0.0	0.0
13.7	0.2	0.0	0.1	0.0	0.0	0.2	0.0	14.8	0.7	9.4	0.0
6.7	0.0	0.0	0.0	0.3	0.0	2.5	0.0	1.7	0.0	48.9	0.0
0.8	6.5	0.1	15.1	11.9	0.0	0.0	0.0	0.0	0.0	26.2	0.0
9.8	0.0	7.7	7.3	7.0	0.4	0.0	0.0	0.0	0.0	0.1	0.0
1.2	0.1	0.3	0.0	0.4	6.5	0.0	0.0	3.9	0.0	1.2	0.1
0.0	6.7	0.0	2.9	0.0	4.6	0.0	0.0	1.0	0.0	5.0	0.0
0.0	1.2	2.8	1.7	0.0	10.0	0.0	0.0	0.0	0.0	0.1	0.0
0.0	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	23.5	0.0
0.9	1.8	14.1	0.1	0.0	0.0	0.0	0.0	8.7	0.1	41.4	0.0
5.7	0.1	3.3	0.0	0.3	0.0	0.0	0.0	0.0	0.0	6.0	0.3
6.5	-77.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
0.3	-77.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
0.7	-77.0	19.2	-77.0	0.0	-77.0	0.0	0.0	-77.0	0.0	-77.0	0.0
Jan_2015	Feb_2015	Mar_2015	Apr_2015	May_2015	Jun_2015	Jul_2015	Aug_2015	Sep_2015	Oct_2015	Nov_2015	Dec_2015
0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	0.0
0.0	0.7	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0
0.1	1.5	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.1	0.0
0.0	0.5	0.0	0.0	1.6	0.0	0.0	0.0	0.0	7.1	17.4	0.0
0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.0	1.5	0.0
0.0	3.0	0.0	17.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2
0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6
0.0	0.0	0.0	12.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	2.5	0.0	4.5	0.0	0.0	0.0	0.0	0.0	14.5	0.0	0.0
0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.0	0.0	0.9
0.0	0.6	0.0	0.0	0.0	0.7	0.0	0.0	0.1	0.1	0.1	10.3
0.5	2.6	0.0	0.0	0.0	2.2	0.0	0.0	0.0	0.0	0.0	83.4
13.9	0.1	0.0	8.7	0.0	0.1	0.0	0.0	1.2	0.0	0.0	0.0
3.3	0.0	0.0	0.1	0.0	0.0	0.0	0.0	4.4	0.2	0.0	0.1
12.3	0.0	28.8	0.0	0.0	0.0	0.0	0.0	0.0	15.3	0.0	0.0
16.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.5	0.0	0.0
0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	0.0	0.0
3.9	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.6
0.9	0.2	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0
1.1	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.2

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

### ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.1	0.1	0.4	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.1	0.0
0.0	0.0	3.3	0.8	0.0	0.0	0.0	0.8	0.0	1.1	0.0	0.0
0.0	0.0	0.0	8.5	0.0	0.0	0.0	0.0	0.0	6.2	0.0	0.0
0.0	0.0	0.0	10.7	0.0	0.0	0.0	0.0	0.0	19.7	0.0	0.0
0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	1.5	0.0	5.6
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	1.1	0.0	24.6
0.1	-77.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.0	0.1
0.9	-77.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.7
2.9	-77.0	0.0	-77.0	0.0	-77.0	0.6	0.1	-77.0	7.2	-77.0	0.1
Jan_2016	Feb_2016	Mar_2016	Apr_2016	May_2016	Jun_2016	Jul_2016	Aug_2016	Sep_2016	Oct_2016	Nov_2016	Dec_2016
16.2	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	3.7
0.3	0.0	0.0	5.0	0.0	0.2	0.0	0.0	0.0	0.0	0.1	0.1
3.6	0.0	0.0	7.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31.6
7.9	0.0	0.3	10.9	0.0	0.0	0.8	0.0	0.0	0.0	7.5	4.4
3.0	0.0	0.3	0.0	15.3	0.0	0.0	0.0	0.0	0.0	5.1	0.0
1.0	8.8	0.0	0.0	6.2	0.0	4.7	0.0	0.0	0.0	0.0	0.0
2.0	0.1	1.9	0.0	58.1	0.0	1.9	0.0	0.0	0.0	0.0	0.0
17.0	0.1	0.0	0.0	8.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.7	1.9	0.0	0.2	16.7	0.0	0.0	0.0	0.0	0.0	0.5	0.0
5.0	6.7	0.1	4.6	12.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.4	0.9	0.0	6.7	12.3	0.0	0.0	0.0	0.0	4.2	0.0	0.0
0.0	4.4	0.0	11.3	12.6	0.0	0.0	0.0	0.0	7.6	5.3	0.0
0.0	5.3	0.0	0.9	1.5	0.0	0.0	0.0	11.0	0.8	0.1	0.0
1.3	7.0	0.0	5.4	0.0	0.1	0.0	0.0	0.0	0.0	0.0	15.4
0.0	1.1	3.1	2.8	0.0	2.2	0.0	0.0	0.0	0.0	0.0	13.8
0.0	0.0	0.0	6.6	0.0	3.6	0.0	0.0	0.0	0.0	0.0	6.1
0.4	3.8	0.0	0.1	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0
0.0	0.1	6.6	0.2	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0
6.5	0.0	4.2	6.1	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0
0.7	0.0	2.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	19.8	0.0
11.0	4.7	3.8	4.8	0.0	0.0	0.0	0.0	0.0	0.1	9.1	0.0
2.1	0.1	0.2	0.2	0.0	0.0	0.0	0.0	0.0	15.0	0.0	0.0
0.0	0.0	0.1	0.6	0.0	0.0	0.0	0.0	0.0	9.8	0.1	0.0
0.1	4.6	0.0	0.0	0.6	0.0	0.0	0.0	0.0	14.3	7.3	0.0
11.5	0.0	0.0	0.0	3.6	0.0	0.0	0.1	0.0	0.3	31.7	0.0
0.2	20.0	3.5	0.0	0.1	0.0	0.0	0.0	0.0	0.0	11.5	0.0
0.0	8.2	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0
9.2	0.3	0.0	0.0	5.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.5	0.2	0.0	0.0	0.0	0.0	0.0	0.0
0.0	-77.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.0	0.0
0.0	-77.0	0.3	-77.0	0.0	-77.0	0.0	0.0	-77.0	0.0	-77.0	0.0
Jan_2017	Feb_2017	Mar_2017	Apr_2017	May_2017	Jun_2017	Jul_2017	Aug_2017	Sep_2017	Oct_2017	Nov_2017	Dec_2017
0.0	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.6	14.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.9	0.0



Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

## ANEXO 8 – Necessidades Hídricas das Culturas

### ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

8.7	0.5	14.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5	0.0
0.0	5.1	18.2	0.0	0.8	0.0	0.0	0.0	0.1	0.0	1.7	0.0
0.1	0.0	0.7	0.0	11.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.1	0.0	0.0	0.0	0.0	0.2	1.1	0.0	0.0	0.0	0.0	0.0
0.0	6.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
0.0	5.6	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.1
0.1	9.2	0.0	0.0	34.6	0.0	0.0	0.0	0.0	0.0	0.0	14.7
0.0	3.9	0.0	0.0	11.0	0.0	0.0	0.0	0.0	0.0	0.0	19.6
0.0	14.0	0.6	0.0	8.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	2.6	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	7.8	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
0.0	0.0	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4	0.0
0.0	0.0	7.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	0.1
0.0	0.0	6.4	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.5	3.1
16.0	0.0	26.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
4.1	0.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	3.8
0.1	0.0	0.0	0.0	1.5	0.4	0.0	10.6	0.0	0.0	22.0	1.2
4.2	-77.0	0.0	0.0	4.6	0.0	0.0	0.2	0.0	0.0	0.7	0.2
0.2	-77.0	0.0	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
8.9	-77.0	0.0	-77.0	0.0	-77.0	0.0	0.0	-77.0	0.0	-77.0	0.6
Jan_2018	Feb_2018	Mar_2018	Apr_2018	May_2018	Jun_2018	Jul_2018	Aug_2018	Sep_2018	Oct_2018	Nov_2018	Dec_2018
0.1	0.1	8.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
0.0	0.0	17.6	3.6	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.1
0.1	1.3	49.1	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
0.4	1.0	8.3	1.0	0.0	0.5	0.0	0.0	0.0	0.0	5.6	0.1
17.6	0.0	6.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	0.2
0.2	0.0	6.5	11.1	0.5	0.0	0.0	0.0	0.0	0.0	1.2	0.2
0.0	0.0	10.9	8.2	0.8	5.0	0.0	0.0	0.0	0.0	4.6	0.1
0.1	0.0	1.5	5.1	0.0	0.4	0.0	0.0	0.0	0.0	4.9	0.1
10.4	2.6	27.4	1.1	0.0	4.9	0.0	0.0	0.0	0.0	0.0	0.0
2.5	0.0	4.5	15.3	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.0
0.2	0.8	13.8	0.1	0.0	0.1	0.0	0.0	0.0	0.3	16.9	0.0
0.0	2.4	0.0	24.8	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.9
6.8	0.0	0.3	0.3	0.0	0.0	0.0	0.0	0.0	3.3	0.0	7.8
0.8	0.0	20.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

## ANEXO 8 – Necessidades Hídricas das Culturas

### ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.1	0.0	7.2	4.2	0.0	0.0	0.1	0.0	0.2	7.9	0.0	0.2
0.0	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.8
0.0	0.1	15.2	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.4	0.1
0.0	0.0	0.8	0.0	0.8	0.0	0.0	0.0	0.0	0.4	5.9	8.6
0.0	0.0	2.4	0.0	0.1	0.0	0.0	0.0	0.0	4.4	0.2	0.2
0.0	0.0	0.8	5.7	5.4	3.0	0.0	0.0	0.0	0.1	1.2	0.0
0.0	0.0	0.0	12.8	0.0	8.4	0.0	1.4	0.0	0.3	3.2	0.0
0.0	0.0	0.0	0.3	0.0	0.7	0.0	0.0	0.0	0.0	2.6	0.0
0.0	0.0	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.3	0.1
0.0	0.0	0.6	0.0	8.0	0.0	0.0	0.0	0.0	0.0	2.9	0.0
6.5	0.0	5.5	0.0	0.1	0.0	0.0	0.0	0.0	0.0	6.4	0.0
0.0	6.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.1
0.0	13.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.1	0.1
0.0	26.2	0.0	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
0.0	-77.0	0.9	5.2	0.0	1.7	0.0	0.0	0.0	8.5	17.4	0.0
0.0	-77.0	2.5	1.4	0.0	0.5	0.0	0.0	0.0	19.4	8.8	0.0
0.0	-77.0	0.6	-77.0	0.0	-77.0	0.0	0.0	-77.0	8.4	-77.0	0.0
Jan_2019	Feb_2019	Mar_2019	Apr_2019	May_2019	Jun_2019	Jul_2019	Aug_2019	Sep_2019	Oct_2019	Nov_2019	Dec_2019
0.0	6.4	0.0	3.9	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.5
0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	0.0
0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0
0.1	0.0	1.0	4.4	0.0	0.1	0.0	0.0	0.0	0.0	2.1	0.0
0.0	0.0	3.7	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0
0.1	0.0	9.6	4.3	0.0	2.1	0.0	0.0	0.0	0.0	0.4	0.0
0.0	0.0	5.1	6.5	0.1	0.0	0.0	0.0	0.0	0.0	1.2	0.0
0.0	0.0	0.0	1.0	7.8	0.0	0.0	0.0	0.0	0.0	0.2	0.5
0.0	0.0	0.0	3.1	0.9	0.0	0.0	0.9	0.0	0.0	1.3	0.1
0.0	1.1	0.0	2.5	0.1	0.0	0.0	0.0	0.0	0.0	0.4	0.1
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.3
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.7
0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	6.6	0.7	0.5
0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	8.0	1.3	0.4
0.1	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.3	5.5
0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	42.5
0.2	8.7	0.0	6.5	0.0	0.0	0.0	0.0	0.0	5.8	9.8	0.4
3.1	13.8	0.0	0.5	0.0	1.8	0.0	0.0	0.0	0.3	0.0	4.8
11.6	0.1	0.0	0.3	0.0	0.5	0.0	0.0	0.0	19.4	5.3	66.9
0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.1	8.1	6.5
0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	20.1	0.0	3.7	6.9
0.1	0.0	0.0	3.8	0.0	0.0	0.0	0.0	0.1	0.0	16.0	0.0
0.1	0.0	0.0	4.6	0.0	0.0	0.1	0.0	0.1	0.0	1.0	0.1
0.0	0.0	0.0	8.9	0.0	0.0	0.0	0.0	0.2	0.0	0.7	0.1
0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.1	0.0	4.2	0.0
0.0	0.0	0.0	0.0	0.0	3.0	0.0	0.1	0.0	0.0	8.5	0.0

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

### ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.1	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.2	0.2
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.7	0.3	0.0
1.5	-77.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.1
3.9	-77.0	2.8	0.0	0.0	0.0	0.0	0.0	0.0	2.0	2.3	0.1
11.2	-77.0	1.0	-77.0	0.0	-77.0	0.0	0.0	-77.0	1.3	-77.0	0.1
Jan_2020	Feb_2020	Mar_2020	Apr_2020	May_2020	Jun_2020	Jul_2020	Aug_2020	Sep_2020	Oct_2020	Nov_2020	Dec_2020
0.1	1.9	1.5	13.9	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1
0.1	0.1	1.5	0.1	0.0	0.0	0.0	0.0	0.0	1.9	0.0	0.1
0.0	0.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.1	10.2
0.0	0.1	0.8	18.7	0.1	0.0	0.0	0.0	0.0	0.0	7.4	1.1
0.0	0.0	0.0	12.1	0.1	0.0	0.0	0.0	0.0	0.0	26.3	0.7
0.1	0.0	0.0	2.1	0.1	0.0	0.0	0.0	0.0	0.2	1.8	0.6
0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	6.3	0.9
0.0	0.0	0.0	6.2	3.9	0.0	0.0	0.0	0.0	0.0	0.1	1.6
0.0	0.1	0.0	2.2	9.8	0.0	0.0	0.0	0.0	0.0	0.3	4.8
0.0	0.0	0.0	0.6	8.4	0.1	0.0	0.0	0.0	0.0	0.2	1.0
0.0	0.0	0.0	0.0	3.6	1.5	0.0	0.0	0.0	0.0	0.0	0.5
0.0	0.1	0.0	1.4	15.7	0.0	0.0	0.0	0.0	0.0	0.0	0.9
5.5	0.0	0.0	19.3	21.3	0.0	0.0	0.0	0.0	0.0	1.6	7.8
3.4	0.0	0.0	0.5	0.4	0.0	0.0	0.0	0.0	0.0	0.3	0.2
10.1	0.1	0.2	13.6	0.0	0.3	0.0	0.0	0.8	0.0	0.1	9.6
0.3	1.2	0.0	7.4	0.0	0.0	0.0	0.0	3.1	0.0	0.3	0.0
21.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.0	0.0	0.5	2.4
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	47.7	0.3	29.4
0.1	0.0	13.4	11.8	0.0	0.0	1.4	0.1	1.8	66.7	0.0	0.1
0.0	0.0	2.3	3.2	0.0	0.0	0.7	0.0	0.0	0.6	0.0	0.1
0.6	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	5.8	0.0	0.0
2.6	0.0	0.2	0.0	0.0	0.0	0.0	0.0	12.4	1.0	0.0	0.7
5.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0
0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.1	17.6	0.0
0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.6	0.0
1.2	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0
4.6	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	6.7	1.3
0.0	1.6	0.0	3.6	0.0	0.0	0.0	0.0	0.0	0.0	7.8	1.0
5.2	-77.0	7.3	0.2	0.0	0.0	0.0	0.0	0.0	0.1	1.2	0.1
4.6	-77.0	2.2	-77.0	0.0	-77.0	0.0	0.0	-77.0	0.0	-77.0	1.1

#### 2.1.3 OESTE

Tabela 3. Precipitações diárias na região de cálculo de Oeste (mm)

Jan_2003	Fev_2003	Mar_2003	Abr_2003	Mai_2003	Jun_2003	Jul_2003	Ago_2003	Set_2003	Out_2003	Nov_2003	Dez_2003
9.8	0.0	3.4	0.0	0.2	0.5	0.1	0.0	0.0	13.2	1.5	14.3

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

## ANEXO 8 – Necessidades Hídricas das Culturas

### ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

6.6	0.0	0.2	0.0	0.1	0.0	0.0	0.0	0.0	16.0	0.0	0.6
1.4	0.0	0.8	0.0	0.0	1.5	0.0	0.0	0.0	8.0	0.0	6.4
1.3	0.6	0.1	0.0	0.1	1.3	0.0	0.0	0.0	0.0	0.0	0.0
10.9	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	9.2
2.1	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.1
11.2	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	13.2
8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.6	11.5
14.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.9	15.4
0.0	2.0	0.0	3.9	0.0	0.0	0.0	0.0	0.0	7.6	4.4	0.0
0.1	4.1	0.0	4.4	0.0	0.0	0.0	0.0	0.0	15.5	0.1	0.1
0.1	0.0	0.0	13.8	0.1	0.0	0.1	0.0	0.0	0.1	0.9	0.1
0.1	0.2	0.0	13.6	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.2
0.1	0.0	0.0	14.2	0.0	0.0	3.7	0.0	0.0	0.0	1.0	0.0
0.1	0.0	0.0	0.1	0.0	0.0	2.6	0.0	0.0	1.3	37.5	0.0
0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.6	0.1
0.1	2.5	8.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.2
24.4	17.4	0.1	0.6	0.0	0.0	0.0	0.0	0.0	9.0	0.0	3.4
1.3	8.2	0.0	0.2	0.0	0.0	0.0	0.0	0.0	5.5	0.0	0.2
17.4	6.8	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
1.8	10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	34.4	0.0
5.6	6.8	0.0	8.7	0.0	0.0	0.0	0.0	0.4	0.0	5.7	0.0
0.0	0.0	0.7	0.3	0.0	0.0	0.0	0.0	0.0	1.3	0.6	0.1
0.1	5.9	12.5	0.0	0.0	0.1	0.0	0.0	0.0	2.7	0.1	0.1
0.0	12.8	5.1	37.1	0.0	0.0	0.0	0.0	0.0	36.1	0.0	0.1
0.0	8.6	6.6	0.0	0.0	0.0	0.0	0.0	0.0	3.7	9.3	0.0
0.0	2.0	8.2	0.0	0.0	0.0	0.0	1.8	0.0	10.0	0.3	0.0
0.0	0.0	0.4	5.7	0.0	0.0	0.0	5.2	0.0	1.0	0.0	1.7
0.0	-77.0	17.1	2.8	0.0	0.1	0.0	0.1	0.0	0.4	0.7	0.2
0.0	-77.0	0.2	1.6	1.5	0.2	0.0	3.5	68.2	5.9	7.5	0.3
0.0	-77.0	0.0	-77.0	0.0	-77.0	0.0	7.4	-77.0	35.8	-77.0	1.5
Jan_2004	Feb_2004	Mar_2004	Apr_2004	May_2004	Jun_2004	Jul_2004	Aug_2004	Sep_2004	Oct_2004	Nov_2004	Dec_2004
0.9	0.5	0.0	5.6	4.8	0.0	0.0	0.0	4.8	0.0	12.6	13.5
0.0	1.0	0.0	2.3	0.0	0.1	0.0	0.0	9.9	0.0	18.4	2.5
0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	2.8	0.0	3.4	0.0
0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.1	0.0
0.6	0.1	2.2	0.0	2.5	0.0	0.0	0.0	0.2	0.0	0.0	0.0
0.0	0.0	1.1	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.1	0.1	0.0	0.3	0.0	0.0	0.0	0.1	0.0	0.0	0.0
3.6	0.1	0.0	0.0	0.0	0.2	0.0	11.7	3.2	6.6	0.0	0.0
0.5	0.2	0.0	0.0	3.7	0.0	0.0	0.0	0.0	5.0	0.0	0.1
0.0	0.0	2.5	0.0	0.6	0.0	0.0	2.1	0.0	2.8	0.0	0.0
0.0	0.0	1.2	0.0	0.0	0.0	0.0	2.0	0.0	0.1	0.0	0.0
0.1	0.0	11.2	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.3
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	3.4

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

## ANEXO 8 – Necessidades Hídricas das Culturas

### ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

1.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.3	0.0	0.0
4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.3	0.0	0.0
0.1	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.0	0.2	0.0	0.0
0.1	0.0	0.0	0.2	0.0	0.0	0.0	4.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	4.3	0.0	0.0	0.0	5.3	0.0	26.5	0.0	0.0
0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.3	0.0	23.6	0.0	0.1
0.0	0.0	0.0	0.6	0.6	0.0	0.0	0.0	0.0	6.8	0.0	0.0
0.0	2.4	0.0	13.3	6.6	0.0	0.0	0.0	0.0	3.0	0.0	0.0
0.0	8.5	0.0	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	1.1	0.0	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.8	0.6	0.0	0.5	0.0	0.0	0.0	0.0	21.0	0.0	0.0
0.6	25.7	0.3	0.0	0.0	0.0	0.0	0.0	0.0	6.0	0.0	4.7
9.5	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.4	0.0	4.6
11.7	0.8	5.6	0.0	0.0	0.0	0.0	0.0	0.0	39.0	0.6	0.0
0.0	0.5	0.2	0.0	0.0	0.0	0.0	0.0	0.0	23.2	1.8	2.8
20.6	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.6	0.8	0.0
10.9	-77.0	2.5	1.6	0.0	0.0	0.0	0.0	0.0	11.3	14.9	0.0
38.7	-77.0	4.9	-77.0	0.0	-77.0	0.0	0.0	-77.0	9.6	-77.0	0.0
Jan_2005	Feb_2005	Mar_2005	Apr_2005	May_2005	Jun_2005	Jul_2005	Aug_2005	Sep_2005	Oct_2005	Nov_2005	Dec_2005
0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1	14.5
0.0	0.0	0.0	9.4	0.0	0.0	0.0	0.0	0.0	0.0	0.1	17.4
0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	7.6	0.5
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.3
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1
0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	2.8	0.0	0.0	0.0
0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	1.8	6.6	0.0	0.1
0.0	0.0	0.1	0.0	0.2	0.0	0.0	0.2	0.0	26.5	0.0	0.0
0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	6.0	0.0	0.0
0.2	0.0	0.0	0.0	2.9	0.0	0.0	0.0	0.0	8.3	5.2	0.0
0.1	0.0	0.4	0.1	3.4	0.1	0.0	0.0	0.0	0.0	1.4	0.1
0.1	0.0	0.1	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.3	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
0.1	0.0	0.0	0.1	6.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	1.5	0.1	0.0
0.0	0.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	0.1
0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	1.0	18.6	0.0
0.0	0.0	3.2	0.0	0.0	0.0	0.0	0.0	0.0	4.4	26.8	0.1
0.0	0.0	6.3	0.0	0.0	0.0	0.0	0.0	0.0	8.5	4.7	0.0
0.0	5.3	0.0	0.0	0.3	0.0	0.0	0.0	0.0	8.9	2.3	0.0
0.0	5.1	4.8	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.1	1.2	0.0	0.6	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.1
0.0	0.0	20.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	6.1

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.0	0.2	11.5	0.0	0.0	0.0	0.5	0.0	0.0	0.0	6.3	6.3
0.0	0.9	3.5	0.0	0.9	0.0	0.4	0.0	0.0	19.7	6.2	2.9
0.0	0.0	14.2	0.0	0.0	0.0	0.1	0.0	0.0	4.7	1.0	0.1
0.0	-77.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	10.7	0.0	0.0
0.0	-77.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.8	0.0	1.0
0.0	-77.0	0.0	-77.0	0.0	-77.0	0.0	0.0	-77.0	6.6	-77.0	2.6
Jan_2006	Feb_2006	Mar_2006	Apr_2006	May_2006	Jun_2006	Jul_2006	Aug_2006	Sep_2006	Oct_2006	Nov_2006	Dec_2006
0.7	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.9
0.1	10.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.4	8.9	11.2
0.0	1.8	5.0	0.0	0.0	0.0	0.1	0.0	0.0	0.2	13.5	0.5
0.0	0.1	25.0	0.5	0.0	0.0	0.0	0.0	0.0	3.8	26.3	4.4
0.7	0.1	0.1	11.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.2
13.3	0.0	0.0	4.8	0.0	0.0	0.0	0.0	0.0	0.0	12.5	1.8
0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	3.5	6.1
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	7.0
0.1	0.1	0.5	0.1	0.0	0.2	0.0	0.0	0.2	0.0	0.0	3.1
0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	0.0	0.0
0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.0
2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.1	0.0	0.0	0.0	0.0	1.6	0.0	0.0	1.7	0.0	0.0	0.0
0.5	0.0	0.0	2.3	0.0	19.3	0.0	0.0	1.6	0.0	0.2	0.0
21.2	0.0	0.0	20.7	0.0	15.0	0.0	0.0	0.2	0.4	27.9	0.0
0.7	0.9	0.1	1.4	0.0	7.3	0.0	9.9	0.0	19.8	3.5	0.0
0.1	1.6	26.1	0.9	0.0	0.0	0.0	2.9	0.0	7.6	6.4	0.0
0.1	11.1	15.7	0.0	0.0	0.0	1.7	3.5	0.0	6.2	2.4	0.1
0.0	16.8	5.3	0.8	0.0	0.0	0.8	0.0	0.0	14.8	0.1	0.0
0.0	6.3	2.7	1.7	0.0	0.0	0.0	0.0	0.0	29.0	0.2	0.0
0.0	1.3	2.9	6.1	0.2	0.0	0.0	0.0	29.3	1.7	0.5	0.0
0.0	0.0	2.1	15.2	0.8	0.0	0.0	0.0	13.8	22.5	0.7	0.0
0.0	0.5	24.7	0.1	0.1	0.0	0.0	0.0	3.0	9.2	12.8	0.0
0.0	3.2	1.4	0.0	0.0	0.0	0.0	0.0	5.1	30.6	58.2	0.0
0.0	12.6	0.0	0.0	0.0	0.5	0.0	0.0	1.5	28.2	1.6	0.0
0.0	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.9	0.6	0.0
0.0	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.1	14.5	0.0
6.5	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.4	0.0	13.8	0.0
4.4	-77.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.2	0.4
0.1	-77.0	0.0	0.0	0.0	0.0	0.0	0.0	5.6	0.0	0.0	2.0
0.0	-77.0	0.0	-77.0	0.0	-77.0	0.0	0.0	-77.0	0.1	-77.0	0.2
Jan_2007	Feb_2007	Mar_2007	Apr_2007	May_2007	Jun_2007	Jul_2007	Aug_2007	Sep_2007	Oct_2007	Nov_2007	Dec_2007
0.5	0.0	0.3	0.0	19.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.2	0.0	0.1	7.9	8.2	0.0	0.0	0.0	0.0	0.5	0.0	0.1
0.1	0.0	0.0	3.4	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0
0.1	0.0	4.5	0.0	0.1	0.0	0.1	0.0	0.0	0.5	0.0	0.2
0.2	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.2

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

## ANEXO 8 – Necessidades Hídricas das Culturas

### ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.1	0.0	3.0	0.3	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.2
0.4	7.0	2.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
0.0	29.2	0.8	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.1	2.2	0.0	3.1	0.0	2.6	0.0	0.0	0.0	0.0	0.0	0.8
4.2	1.6	0.0	1.8	0.0	6.1	0.0	0.0	0.0	0.0	0.0	0.0
0.1	5.6	0.0	5.8	0.0	0.0	0.0	0.0	8.2	0.0	0.0	0.0
0.1	7.0	0.0	0.0	0.0	0.1	0.0	0.0	5.1	0.0	0.0	0.0
0.0	2.5	0.0	0.0	0.5	0.2	0.0	0.0	0.0	0.0	0.0	0.1
0.0	3.7	0.0	0.0	0.5	15.6	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.1	0.0	0.0	0.0	0.1	1.6	2.0	0.0	0.3	0.0	0.0
2.5	16.0	0.0	0.0	0.0	16.4	1.0	0.0	0.2	0.2	0.0	0.0
0.0	2.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.1	0.0	0.0	0.0	0.2	0.0	0.0	0.2	0.0	0.0	1.4
0.0	18.6	0.1	0.0	0.0	4.7	0.0	0.0	0.2	0.0	35.6	36.3
0.1	1.2	0.0	14.9	1.2	1.0	0.0	0.0	4.1	0.0	23.4	1.2
0.0	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	1.1	0.0
6.3	4.5	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	2.3	0.0
2.5	0.2	0.0	0.0	1.0	0.0	2.6	0.0	0.0	0.5	0.4	0.0
0.8	0.0	0.0	0.1	2.3	0.0	0.0	0.0	0.0	1.2	0.0	1.1
3.8	2.6	0.1	2.7	11.2	0.0	0.0	1.3	0.0	0.0	0.0	4.0
0.3	0.1	0.7	0.0	0.1	0.0	0.0	0.4	0.0	0.0	0.0	0.0
0.0	0.0	0.4	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.4	3.5	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.9	-77.0	0.0	0.2	0.0	0.2	0.0	0.0	11.2	0.0	0.0	0.0
1.7	-77.0	1.7	1.3	0.3	0.0	0.0	0.0	25.5	0.0	0.0	0.1
0.7	-77.0	1.9	-77.0	0.0	-77.0	0.0	0.0	-77.0	0.0	-77.0	0.0
Jan_2008	Feb_2008	Mar_2008	Apr_2008	May_2008	Jun_2008	Jul_2008	Aug_2008	Sep_2008	Oct_2008	Nov_2008	Dec_2008
14.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	6.8
7.3	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
34.8	8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	3.1
6.8	0.1	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	1.2	0.7
1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.7	0.0	1.0	0.3
0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	3.8
0.1	0.0	0.0	14.5	0.1	0.0	0.0	0.0	0.0	8.9	1.5	5.3
0.0	0.0	0.0	9.7	0.1	0.0	0.0	0.0	0.0	0.0	0.0	1.0
0.9	0.0	0.6	21.8	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
1.6	0.0	5.5	16.1	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.0	0.0	0.1	2.2	0.1	0.0	0.1	0.0	0.1	0.9	0.1	1.1
0.1	0.0	0.2	0.5	0.1	0.7	0.0	0.5	0.0	1.7	0.3	1.5
11.1	0.0	0.0	2.5	0.1	0.0	0.0	0.0	0.0	10.7	0.0	11.2
4.4	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	6.3
3.2	0.0	0.5	0.0	34.5	0.2	0.0	0.0	0.0	0.0	0.0	0.6
0.8	1.1	0.0	8.9	0.1	2.7	0.0	0.0	0.0	0.0	0.0	0.0
0.7	16.6	2.6	33.8	0.0	0.0	0.0	0.0	0.1	0.3	0.0	0.0

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

## ANEXO 8 – Necessidades Hídricas das Culturas

### ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.1	21.8	0.5	9.5	4.4	0.0	0.0	0.0	0.0	21.3	0.0	0.0
0.1	0.7	33.1	13.1	0.2	0.0	0.0	0.0	0.0	0.1	0.0	0.1
0.0	0.0	0.1	10.3	3.2	0.0	0.0	0.0	0.2	0.0	0.0	0.0
0.1	0.4	0.0	1.0	0.0	0.0	0.0	0.0	0.0	4.3	0.0	0.0
0.0	0.1	1.6	0.0	8.8	0.0	0.0	0.0	2.5	0.0	0.0	0.0
0.1	6.6	0.0	0.0	11.0	0.0	0.0	0.0	2.7	0.0	0.0	0.0
0.0	0.5	0.0	0.0	9.1	0.0	0.0	0.0	0.0	0.0	1.3	0.0
0.0	0.1	0.0	0.0	0.5	0.0	0.5	0.0	0.0	0.0	1.3	0.0
0.0	0.0	0.1	0.0	12.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.2	0.9	0.0	7.9	0.0	0.0	0.0	0.0	0.7	0.0	24.6
0.0	5.5	0.0	0.0	3.9	0.0	0.0	0.0	4.6	0.0	17.1	0.4
0.0	0.0	0.0	0.0	1.4	0.0	0.0	0.0	2.0	0.0	15.3	2.9
0.0	-77.0	1.2	0.0	1.6	0.0	0.0	0.0	0.0	4.4	8.7	3.5
0.0	-77.0	0.0	-77.0	0.7	-77.0	0.0	0.0	-77.0	8.5	-77.0	14.4
Jan_2009	Feb_2009	Mar_2009	Apr_2009	May_2009	Jun_2009	Jul_2009	Aug_2009	Sep_2009	Oct_2009	Nov_2009	Dec_2009
14.2	4.1	0.6	0.0	0.0	0.0	0.0	0.4	0.0	0.0	6.5	2.1
8.5	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.8
2.7	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9
0.0	1.2	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0
0.0	0.6	0.3	0.0	0.0	22.9	0.0	0.0	0.0	0.8	0.2	0.5
0.2	0.8	0.2	0.1	0.0	7.7	0.0	0.0	0.0	0.6	2.8	17.5
0.0	0.1	0.0	0.7	0.0	0.0	0.0	0.0	0.0	2.9	0.3	1.3
0.0	0.2	0.0	0.0	0.0	2.0	0.0	0.0	0.0	1.9	13.6	0.0
0.1	0.7	0.0	0.9	5.6	0.1	0.0	0.0	1.0	0.0	0.2	0.2
0.2	0.0	0.0	1.2	2.9	0.0	0.0	0.0	0.4	0.0	0.2	0.0
0.0	0.0	0.0	1.0	17.9	0.0	0.0	0.0	0.1	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0
1.3	0.0	0.0	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.3	0.0
0.1	0.0	0.0	10.6	0.0	0.6	0.0	0.0	0.0	0.0	6.0	0.1
30.8	0.0	0.0	9.2	0.0	0.6	0.0	0.0	0.0	0.0	19.7	1.1
2.0	0.0	0.0	6.7	0.8	0.7	0.0	0.0	0.0	0.0	58.0	8.6
0.0	0.0	0.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.6
0.4	0.0	0.0	7.1	0.0	0.0	0.0	0.0	5.5	0.0	0.1	2.3
3.4	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6	0.0	19.2
0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	42.1	11.9	8.9
7.3	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	5.8	0.1	11.7
2.6	0.0	0.0	0.0	7.0	0.0	0.2	0.0	0.0	0.1	0.0	14.4
0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3
14.3	0.0	0.0	6.2	0.1	1.6	0.0	0.0	0.0	0.0	15.9	9.5
4.1	0.0	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.2	0.4	2.2
1.3	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.6	12.9
8.4	0.2	0.0	0.1	0.0	16.1	0.0	0.0	0.3	0.0	2.0	25.2
0.5	-77.0	0.0	0.0	0.0	11.1	0.0	0.0	0.2	0.1	22.5	28.8



Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

4.3	-77.0	0.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0	6.6	10.8
2.3	-77.0	0.0	-77.0	0.0	-77.0	0.0	0.0	-77.0	0.0	-77.0	15.1
Jan_2010	Feb_2010	Mar_2010	Apr_2010	May_2010	Jun_2010	Jul_2010	Aug_2010	Sep_2010	Oct_2010	Nov_2010	Dec_2010
3.6	0.0	1.3	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.5	4.4
1.0	0.0	10.1	0.0	0.3	0.1	0.0	0.0	0.0	0.0	0.0	2.9
21.6	4.0	5.2	1.2	0.0	0.2	0.0	0.0	0.0	11.6	0.0	1.9
16.9	8.0	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.4	0.0	0.5
0.1	0.4	43.2	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	35.9
5.4	0.0	24.8	0.7	0.0	0.0	0.0	0.0	1.1	4.3	0.0	3.9
0.2	4.4	1.2	0.1	6.1	0.0	0.0	0.0	2.6	9.0	0.1	3.9
0.2	12.7	22.9	0.0	20.4	1.6	0.0	0.4	0.0	44.4	3.4	7.4
0.0	2.4	0.5	0.0	15.3	3.3	0.0	0.0	0.1	27.3	8.3	5.2
17.1	7.7	0.0	0.0	0.5	5.7	0.0	0.0	0.0	5.5	2.6	0.1
1.4	0.0	0.0	0.0	10.1	0.5	0.0	0.0	0.0	0.1	0.1	0.2
46.4	1.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	2.1
10.1	0.1	0.0	6.5	0.0	0.0	0.0	0.0	0.0	0.1	0.4	0.2
3.2	6.3	0.0	13.5	1.0	0.0	0.0	0.0	0.0	0.0	16.8	0.0
5.5	17.7	0.0	21.6	0.0	0.0	0.0	0.0	0.2	0.0	0.5	0.1
1.6	8.3	0.0	15.2	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0
0.0	8.8	0.0	8.8	0.0	0.0	0.0	0.0	0.0	0.0	20.5	0.0
0.5	0.1	0.0	18.7	0.0	0.0	0.0	0.0	0.0	0.0	0.2	4.9
1.1	1.4	7.2	0.1	0.0	0.1	0.0	0.0	0.0	0.0	11.2	0.1
1.2	5.1	4.5	1.6	0.0	0.0	0.0	0.0	0.0	0.0	7.1	18.1
0.0	15.9	0.1	2.4	0.0	0.0	0.1	0.0	0.0	0.0	2.7	10.2
0.1	6.4	0.0	7.9	0.0	0.0	0.0	0.0	0.0	0.0	1.2	15.2
1.3	10.6	0.0	0.0	0.0	0.0	0.0	0.6	2.0	0.0	13.3	0.8
0.4	0.1	14.5	0.0	0.2	0.0	0.0	0.1	0.1	0.2	3.7	1.2
0.0	9.6	9.8	0.0	0.4	0.0	0.0	0.0	0.0	0.4	0.0	10.3
0.0	4.6	2.5	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0
0.0	25.0	0.1	0.0	1.3	0.0	0.0	0.1	0.0	0.0	0.0	0.0
0.0	9.7	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.3
0.1	-77.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0	42.4	7.9	7.9
0.7	-77.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	33.5	5.1	12.1
0.2	-77.0	1.6	-77.0	1.2	-77.0	0.0	0.0	-77.0	11.3	-77.0	17.5
Jan_2011	Feb_2011	Mar_2011	Apr_2011	May_2011	Jun_2011	Jul_2011	Aug_2011	Sep_2011	Oct_2011	Nov_2011	Dec_2011
0.8	0.0	0.0	0.0	2.4	0.0	0.0	0.0	6.3	0.0	0.6	0.1
0.2	0.0	0.0	0.2	0.1	0.0	0.0	0.0	3.0	0.0	26.7	1.4
0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	11.9	0.0
2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	10.2	0.1
15.1	0.0	6.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	0.1
23.9	0.0	4.2	0.0	1.8	0.1	0.0	0.0	0.0	0.0	0.0	0.2
4.2	0.1	1.1	0.0	0.4	0.0	0.1	0.0	0.0	0.0	0.0	0.0
10.2	0.1	3.8	0.0	0.0	0.1	0.0	0.0	0.0	0.0	14.6	0.1
0.9	4.5	0.2	0.0	0.0	0.1	0.1	0.0	0.1	0.0	29.1	0.1

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

2.9	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.7	6.7
0.8	7.5	6.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0	5.4	3.2
0.0	0.1	2.1	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.7
0.1	13.5	6.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.2	2.2
0.1	18.2	17.6	0.0	0.0	0.0	0.0	0.0	0.3	0.0	16.9	5.4
0.0	3.3	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	0.2
0.0	24.4	0.0	0.0	17.0	0.0	0.0	0.0	0.0	0.0	0.9	2.3
1.1	3.9	0.0	0.0	2.3	0.0	0.4	0.0	0.1	0.0	0.0	0.0
0.1	6.9	0.0	22.7	12.2	0.0	0.1	0.0	0.3	0.0	21.9	0.0
0.0	24.1	0.0	10.1	0.7	0.0	0.6	0.0	0.0	0.0	2.4	0.2
0.0	0.9	0.0	6.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.1	0.0	0.0	28.6	0.0	0.0	0.4	2.4	0.0	0.0	0.4	0.0
0.4	0.0	0.4	3.3	0.0	0.0	0.5	0.0	0.0	0.0	8.2	0.0
0.2	0.0	0.0	2.7	0.0	0.0	0.0	0.0	0.0	34.7	0.0	0.0
3.4	0.0	1.0	0.2	0.0	0.0	0.9	0.0	0.0	2.4	0.0	0.1
0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0
0.0	0.0	4.0	0.0	0.9	0.0	0.0	0.4	0.0	6.3	0.0	0.0
6.3	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	13.0	0.0	0.0
4.6	0.0	10.2	0.9	0.7	0.2	0.0	0.0	0.0	0.0	0.0	0.0
0.9	-77.0	0.1	15.7	0.1	0.0	0.0	0.0	0.0	0.0	0.2	0.0
0.4	-77.0	0.0	10.0	0.1	0.0	0.0	0.0	0.0	0.0	0.6	0.0
0.0	-77.0	0.0	-77.0	0.0	-77.0	0.0	3.1	-77.0	1.5	-77.0	0.0
Jan_2012	Feb_2012	Mar_2012	Apr_2012	May_2012	Jun_2012	Jul_2012	Aug_2012	Sep_2012	Oct_2012	Nov_2012	Dec_2012
0.6	0.9	0.2	2.4	1.3	0.0	0.0	0.0	0.0	0.0	0.1	3.8
0.6	0.0	0.2	1.5	7.3	0.5	0.0	0.0	0.0	0.0	13.7	0.0
0.0	0.0	1.1	0.0	8.3	0.1	0.0	0.1	0.0	0.0	7.5	0.0
0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	20.8	1.5
0.0	0.0	0.0	0.7	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.1
0.0	0.0	0.0	3.8	0.4	0.4	0.0	0.0	0.0	0.0	0.1	25.6
0.0	0.0	0.0	0.0	25.2	1.4	0.1	0.0	0.1	0.1	7.4	7.0
0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.5	0.2
0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.4	0.4	0.1
0.0	7.4	0.0	1.3	0.0	0.6	0.0	0.0	0.0	8.8	7.0	0.0
0.4	0.0	0.0	0.3	0.0	0.7	0.0	0.0	0.0	3.3	2.8	0.0
0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7
4.1	0.8	0.0	5.0	0.0	0.4	0.0	0.8	0.0	4.7	0.0	40.6
4.3	0.0	4.2	0.8	0.0	0.0	0.0	8.2	0.0	0.2	10.6	0.9
1.8	0.0	0.1	0.0	0.0	0.2	0.0	1.9	0.0	0.0	6.4	4.2
0.0	0.0	0.3	0.2	0.0	0.0	0.0	0.0	0.0	26.1	23.2	7.8
0.0	0.0	1.1	2.4	6.3	0.0	0.0	0.0	0.0	16.7	0.0	0.8
0.0	0.0	0.0	1.5	3.2	0.0	0.0	0.0	0.0	0.1	0.0	1.7
0.0	0.0	0.0	1.9	9.1	0.7	0.0	0.0	0.0	0.0	9.4	1.4
0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.4	0.2	0.3

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.2
0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	21.3	0.0	0.0	0.0
0.0	0.0	0.7	2.3	0.0	0.0	0.0	0.0	0.5	13.8	27.3	0.1
0.0	0.0	0.0	9.0	0.0	0.0	0.0	0.9	18.5	24.0	28.9	2.1
0.1	0.0	0.0	3.7	0.0	0.0	0.0	0.0	0.2	6.1	0.2	0.1
0.0	0.1	0.0	1.1	0.0	0.0	0.0	0.0	3.4	0.5	2.4	0.0
0.0	0.1	0.0	4.8	0.0	0.0	0.0	0.0	2.5	0.0	0.2	0.1
0.0	0.2	0.2	4.1	0.0	0.0	0.0	0.0	0.0	3.5	2.2	5.9
0.0	-77.0	21.6	0.1	0.0	0.1	0.0	0.0	0.0	6.3	9.7	0.2
0.0	-77.0	0.2	-77.0	0.0	-77.0	0.0	0.0	-77.0	0.0	-77.0	7.6
Jan_2013	Feb_2013	Mar_2013	Apr_2013	May_2013	Jun_2013	Jul_2013	Aug_2013	Sep_2013	Oct_2013	Nov_2013	Dec_2013
0.1	0.9	0.0	1.2	0.0	0.0	0.0	0.0	0.0	10.6	0.0	0.0
0.0	0.2	0.0	1.3	0.0	0.0	0.0	0.0	0.0	2.5	0.0	0.0
0.0	0.0	0.5	13.2	0.0	0.0	0.0	0.0	0.0	2.9	0.0	0.1
0.0	0.0	19.1	3.8	0.0	0.0	0.0	0.0	0.0	0.0	6.7	0.0
0.0	0.0	4.0	0.4	0.0	0.0	0.0	0.0	0.4	0.1	1.6	0.0
0.0	0.3	5.1	0.0	0.0	0.2	0.0	0.0	0.1	0.0	0.0	0.0
0.0	0.0	14.2	1.1	0.0	2.2	0.0	0.0	0.0	0.0	0.0	0.0
0.5	0.1	9.2	0.0	0.0	0.5	0.0	0.0	0.0	0.0	4.9	0.0
3.0	0.0	4.1	1.1	1.8	0.2	0.0	0.0	0.0	0.0	0.1	0.0
2.2	3.9	5.3	4.4	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
3.6	2.6	9.3	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.4	2.4	2.3	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1
6.4	0.2	0.5	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	1.8
0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1
0.0	0.0	0.2	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16.4	0.0	1.3	0.0	2.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
1.7	11.2	12.9	0.0	5.4	3.7	0.0	0.1	0.0	0.0	0.0	2.3
18.8	0.3	0.0	0.0	1.2	5.2	0.0	0.0	0.0	28.3	0.0	2.8
89.6	4.5	7.0	0.0	2.0	1.1	0.0	0.0	0.0	0.2	0.0	14.4
15.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
2.0	14.9	12.2	0.0	0.0	0.0	0.0	0.0	0.0	13.3	0.3	0.0
17.3	16.3	2.7	0.0	0.0	0.0	0.0	0.0	0.0	19.9	8.3	0.3
3.3	0.4	8.5	0.0	0.0	0.0	0.0	0.0	0.0	10.5	0.0	7.4
3.0	0.0	4.1	0.0	0.0	0.0	0.0	0.0	0.0	45.0	0.0	19.6
22.9	0.0	7.2	0.0	0.0	0.0	0.0	0.0	3.3	1.5	0.0	14.1
0.4	0.0	8.5	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.1	0.6
7.6	0.9	5.3	0.2	0.0	0.0	0.0	0.0	16.9	0.1	0.0	9.2
0.3	1.1	1.8	0.2	0.1	0.0	0.7	0.0	20.7	11.3	0.1	2.2
0.0	-77.0	2.5	0.0	3.9	0.0	0.0	0.0	9.0	0.1	0.0	1.1
0.0	-77.0	1.6	0.0	0.0	0.0	0.0	0.0	10.4	0.0	0.0	0.7
0.0	-77.0	45.1	-77.0	0.3	-77.0	0.0	0.0	-77.0	0.0	-77.0	28.3
Jan_2014	Feb_2014	Mar_2014	Apr_2014	May_2014	Jun_2014	Jul_2014	Aug_2014	Sep_2014	Oct_2014	Nov_2014	Dec_2014
9.2	8.2	10.2	14.8	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

## ANEXO 8 – Necessidades Hídricas das Culturas

### ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

17.5	0.2	9.2	3.4	0.0	0.0	3.4	1.5	0.0	0.0	0.5	0.0
11.8	15.2	0.3	1.0	0.0	0.0	0.0	0.1	0.0	0.0	26.7	0.0
14.0	25.9	1.9	14.6	0.0	0.0	0.0	0.0	0.0	0.0	11.8	0.2
0.0	0.7	1.8	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.1
14.1	13.1	0.0	0.0	0.0	12.3	3.6	0.0	11.2	0.4	0.3	0.0
25.5	3.4	0.0	0.0	0.0	0.7	0.0	0.0	14.3	1.7	6.3	0.0
0.0	15.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	8.5	4.8	0.0
0.0	26.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	1.5	0.0
0.0	3.7	0.0	0.0	0.0	0.0	0.0	0.0	8.7	0.0	42.2	0.0
0.1	38.2	0.0	0.0	0.0	0.0	0.0	0.1	14.4	1.1	8.3	0.0
6.4	7.3	0.0	0.0	0.0	0.0	0.0	0.5	0.0	40.4	1.3	2.9
4.1	19.8	0.0	0.0	0.0	0.0	0.0	0.0	0.5	21.8	28.3	28.6
8.8	13.2	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.9	8.5	5.0
5.2	0.9	0.0	0.0	0.0	0.0	0.0	0.0	7.3	3.6	2.0	0.0
0.5	0.0	0.0	0.0	0.8	0.0	0.0	0.0	17.2	0.0	0.1	4.4
31.6	1.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	0.1	0.1	0.0
10.5	0.3	0.0	0.0	0.0	0.0	0.1	0.0	5.2	1.1	5.8	0.0
5.8	0.0	0.0	0.0	0.3	0.0	4.8	0.0	0.5	0.0	60.9	0.0
0.8	4.6	0.1	13.8	25.3	0.0	0.7	0.0	0.5	0.0	10.8	0.0
11.1	0.4	9.6	0.0	10.5	1.1	0.0	0.0	0.1	0.0	0.1	0.0
2.2	0.0	0.3	0.0	5.8	12.9	0.0	0.0	2.5	0.0	1.9	0.0
0.0	9.0	0.0	3.4	0.9	6.5	0.0	0.0	2.8	0.0	6.5	0.0
0.0	4.2	5.1	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
0.5	3.1	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.7	0.0	1.7	1.5	0.0	0.0	0.0	0.0	0.1	0.0	17.5	0.0
1.9	1.6	8.1	0.0	0.6	0.0	0.0	0.0	4.6	0.0	18.6	0.0
5.9	0.5	1.7	0.0	0.2	0.1	0.0	0.0	0.5	0.1	5.1	1.0
12.2	-77.0	0.2	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.8	-77.0	10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0
4.1	-77.0	32.9	-77.0	0.0	-77.0	0.0	0.0	-77.0	0.0	-77.0	0.0
Jan_2015	Feb_2015	Mar_2015	Apr_2015	May_2015	Jun_2015	Jul_2015	Aug_2015	Sep_2015	Oct_2015	Nov_2015	Dec_2015
0.1	2.1	0.1	0.0	0.1	3.2	1.0	0.0	0.0	0.0	6.6	0.0
0.1	3.3	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	0.1
0.0	1.1	0.0	0.0	4.0	0.0	0.0	0.0	0.0	0.3	3.3	0.1
0.1	0.7	0.0	0.0	7.7	0.0	0.0	0.0	0.0	3.4	9.0	0.0
0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.9	2.0	0.0
0.0	2.2	0.0	2.9	0.0	0.0	0.0	0.0	0.0	3.3	0.0	0.0
0.0	0.1	0.0	0.2	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1
0.1	0.0	0.0	3.6	0.3	0.1	0.0	0.0	0.0	0.0	0.1	0.0
0.0	0.0	0.0	8.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.1	0.6	0.1	1.7	0.0	2.0	0.0	0.0	0.0	11.6	0.0	0.0
0.0	1.1	0.0	0.0	0.0	2.2	0.0	0.0	0.0	4.1	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	21.0	0.1	0.0
0.1	0.7	0.0	0.0	0.0	2.2	0.0	0.0	2.2	0.7	0.0	10.3

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

## ANEXO 8 – Necessidades Hídricas das Culturas

### ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.1	6.1	0.0	0.0	0.0	5.9	0.0	0.0	0.0	0.0	0.0	15.7
18.9	0.2	0.0	9.3	0.0	0.0	0.0	0.0	5.5	0.0	0.0	0.2
4.5	0.2	0.0	0.1	0.0	0.0	0.0	0.0	5.3	0.0	0.0	0.0
20.0	0.0	11.8	0.0	0.0	0.0	0.0	0.0	0.1	7.1	0.1	0.0
13.3	0.0	1.8	0.0	0.0	0.0	0.0	0.0	0.0	25.3	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	0.0	0.4
7.9	2.8	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.2
5.1	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0
3.5	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.6	0.0
2.3	1.5	1.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.1	0.0
0.0	0.2	1.5	1.8	0.0	0.0	0.0	0.0	0.0	3.4	0.0	1.3
0.0	0.0	0.2	18.5	0.0	0.0	0.1	0.2	0.0	8.4	0.0	0.0
0.0	0.2	0.1	19.0	0.0	0.0	0.0	0.0	0.0	15.1	0.0	0.0
0.0	0.2	0.0	0.3	0.0	0.0	0.0	0.0	0.0	3.4	0.0	2.3
0.0	0.2	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.4	0.0	26.4
5.9	-77.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3	0.1	0.0	0.9
8.5	-77.0	0.0	0.0	0.0	0.0	0.2	0.0	0.1	0.7	0.0	6.0
12.5	-77.0	0.0	-77.0	0.0	-77.0	0.0	0.1	-77.0	6.8	-77.0	0.2
Jan_2016	Feb_2016	Mar_2016	Apr_2016	May_2016	Jun_2016	Jul_2016	Aug_2016	Sep_2016	Oct_2016	Nov_2016	Dec_2016
12.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3
0.0	0.0	0.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.9
7.4	0.0	0.0	8.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	31.2
15.0	0.0	2.2	18.9	0.2	0.0	0.0	0.0	0.0	0.0	0.4	3.7
13.0	0.0	1.7	0.0	22.3	0.0	0.0	0.0	0.0	0.0	7.2	0.0
9.9	13.8	0.8	0.0	4.8	0.0	0.1	0.0	0.0	0.0	0.3	0.0
7.8	0.2	4.1	0.0	38.3	0.0	0.8	0.0	0.0	0.0	0.1	0.1
7.5	0.5	0.0	0.0	8.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.6	2.8	2.0	0.0	8.5	0.0	0.0	0.0	0.0	0.0	5.0	0.0
19.3	17.5	0.0	5.1	19.5	0.4	0.0	0.0	0.0	0.0	0.0	0.0
9.0	5.3	0.0	1.2	15.0	0.0	0.0	0.0	0.0	5.5	0.2	0.0
0.3	20.6	0.0	9.6	8.0	0.0	0.0	0.0	0.0	4.2	4.3	0.1
0.0	14.1	0.0	1.3	0.5	0.0	0.0	0.0	12.3	0.8	0.1	0.1
9.7	16.6	0.0	29.3	0.0	0.2	0.0	0.0	0.2	0.0	0.0	18.9
0.0	14.2	4.3	13.8	0.0	6.4	0.0	0.0	1.8	1.4	0.0	5.6
0.0	0.0	0.0	11.4	0.0	1.2	0.0	0.0	0.0	0.8	0.0	18.8
0.6	6.9	0.0	0.1	0.0	0.0	0.0	0.0	0.0	3.2	0.0	0.0
0.3	0.6	11.8	0.2	0.0	0.0	0.0	0.0	0.0	0.2	0.6	0.0
16.3	0.0	7.4	4.0	0.0	0.0	0.0	0.2	0.0	0.0	5.1	0.0
3.5	0.0	9.6	3.5	0.0	0.0	0.0	0.0	0.0	0.0	12.9	0.0
13.2	0.6	8.4	6.1	0.0	0.0	0.0	0.0	0.0	0.5	2.6	0.1
1.9	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	3.1	0.5	0.0
0.0	0.0	0.3	0.1	0.1	0.0	0.0	0.0	0.0	4.8	0.0	0.2
0.1	2.4	0.0	0.0	1.5	0.0	0.0	0.4	0.0	5.1	16.9	0.1
16.8	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.6	1.3	21.8	0.1

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.1	24.9	6.1	0.0	0.0	0.0	0.0	0.2	0.0	0.4	4.0	0.0
0.0	15.4	0.1	0.0	0.2	0.0	0.0	0.0	0.0	0.1	0.9	0.1
8.2	1.1	0.1	0.0	5.8	0.3	0.0	0.0	0.0	0.1	0.0	0.0
0.0	0.0	0.0	0.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	-77.0	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0
0.0	-77.0	1.3	-77.0	0.0	-77.0	0.0	0.0	-77.0	0.1	-77.0	0.0
Jan_2017	Feb_2017	Mar_2017	Apr_2017	May_2017	Jun_2017	Jul_2017	Aug_2017	Sep_2017	Oct_2017	Nov_2017	Dec_2017
0.1	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11.9	6.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	0.1
19.4	4.3	21.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.2	0.1
0.2	3.3	12.7	0.0	4.2	0.0	0.0	0.0	0.6	0.0	5.1	0.0
0.3	2.9	4.9	0.0	20.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.2	0.0	0.2	0.0	0.0	0.2	1.1	0.0	0.0	0.0	0.0	0.1
0.1	6.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9
0.1	10.1	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.3
0.1	3.3	0.0	0.0	24.4	0.0	0.0	0.0	0.0	0.0	0.0	20.0
0.0	5.3	0.0	0.0	7.8	0.0	0.0	0.0	0.0	0.0	0.0	18.9
0.1	11.2	0.0	0.0	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.1
0.0	4.6	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	1.2
0.0	7.3	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	3.4
0.1	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.3
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.1	0.0	0.0
0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.2	5.9	0.0	0.1
0.1	0.2	0.0	0.0	0.0	0.0	0.2	0.0	0.0	1.5	0.0	0.0
0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4	0.0	0.0
0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
0.1	0.0	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
0.0	0.0	10.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.3	0.1
0.0	0.0	11.4	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.3	0.2
0.5	0.0	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	5.4
31.5	0.0	26.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	3.6
11.7	2.0	2.8	0.0	0.0	0.0	0.0	3.4	0.0	0.0	0.1	14.3
0.5	1.4	0.1	0.0	5.1	2.6	0.0	5.9	0.0	0.0	15.4	6.1
0.6	-77.0	0.0	0.0	3.3	0.1	0.1	0.9	0.0	0.0	0.1	0.6
0.1	-77.0	0.0	6.5	0.0	0.6	0.0	0.1	0.0	0.0	0.0	0.1
16.8	-77.0	0.6	-77.0	0.0	-77.0	0.6	0.0	-77.0	0.0	-77.0	3.8
Jan_2018	Feb_2018	Mar_2018	Apr_2018	May_2018	Jun_2018	Jul_2018	Aug_2018	Sep_2018	Oct_2018	Nov_2018	Dec_2018
0.2	0.3	26.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.6	0.1
0.0	0.0	18.4	2.7	1.6	0.0	0.1	0.0	0.0	0.0	1.6	0.1
1.7	0.7	11.4	6.4	0.0	0.5	0.0	0.0	0.1	0.0	0.0	0.1
0.6	4.6	5.7	1.4	0.0	0.5	0.1	0.0	0.0	0.0	15.3	0.0
14.2	0.0	17.4	0.0	0.0	0.2	0.0	0.0	0.0	0.0	5.1	0.2

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

## ANEXO 8 – Necessidades Hídricas das Culturas

### ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

1.2	0.0	3.6	27.4	0.0	1.7	0.0	0.0	0.0	0.0	3.4	0.1
0.5	0.0	10.9	7.0	0.0	9.2	0.0	0.0	0.0	0.0	5.7	0.1
0.1	0.0	6.7	8.7	0.0	1.0	0.0	0.1	0.0	0.0	9.6	0.0
17.4	4.7	47.7	2.4	0.0	5.1	0.0	0.2	0.0	0.0	0.2	0.0
3.9	0.1	3.4	26.6	0.0	3.9	0.0	0.0	0.0	0.0	6.3	0.0
0.7	1.4	12.7	1.4	0.1	0.1	0.0	0.0	0.0	0.6	49.8	0.0
0.0	1.7	0.8	28.6	0.0	0.0	0.0	0.0	0.0	0.1	0.1	1.1
14.0	0.2	0.4	1.3	0.0	0.0	0.0	0.0	0.0	2.8	0.1	9.9
2.2	0.2	24.1	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.2	0.0
0.1	0.1	7.3	3.4	0.0	0.0	0.0	0.0	0.0	12.0	0.0	1.2
0.2	0.1	5.8	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
0.0	1.4	16.1	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.3	0.2
0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.2	3.2	7.7
0.0	0.0	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4
0.0	0.0	0.1	2.5	0.0	12.6	0.0	0.0	0.0	0.5	12.2	0.4
0.0	0.0	0.0	15.0	0.0	15.3	0.0	0.0	0.0	1.6	3.1	0.1
0.0	0.0	0.0	0.8	0.0	2.1	0.0	0.0	0.0	0.0	4.0	0.1
0.0	0.0	10.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0
0.1	0.0	5.9	0.0	26.4	0.0	0.0	0.0	0.0	0.0	5.3	0.0
10.0	0.0	10.8	0.0	0.1	0.0	0.0	0.0	0.0	0.0	14.9	0.0
0.8	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	9.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.5	0.1	0.6
0.0	33.4	0.1	5.9	0.0	0.3	0.0	0.0	0.0	2.6	0.1	0.1
0.0	-77.0	6.0	6.2	0.0	2.3	0.0	0.0	0.0	4.9	18.1	0.0
0.0	-77.0	5.5	1.8	0.1	0.5	0.0	0.0	0.0	17.3	0.3	0.0
0.0	-77.0	0.0	-77.0	1.8	-77.0	0.0	0.0	-77.0	9.5	-77.0	0.0
Jan_2019	Feb_2019	Mar_2019	Apr_2019	May_2019	Jun_2019	Jul_2019	Aug_2019	Sep_2019	Oct_2019	Nov_2019	Dec_2019
0.0	11.2	0.0	2.5	0.1	0.0	0.0	0.0	0.0	0.0	0.8	2.9
0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.8	0.0
0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	0.0
0.0	0.0	2.2	3.5	0.0	3.2	0.0	0.0	0.0	0.0	4.1	0.0
0.0	0.0	6.1	13.3	0.0	0.1	0.0	0.0	0.0	0.0	1.4	0.0
0.0	0.0	23.5	5.3	0.0	4.1	0.0	0.0	0.0	0.0	3.5	0.0
0.1	0.0	8.7	6.3	2.0	0.0	0.0	1.7	0.0	0.0	2.2	0.0
0.1	0.0	0.0	2.0	7.2	0.0	0.0	3.3	0.0	0.0	1.2	1.2
0.0	0.0	0.0	1.2	5.3	0.0	0.0	3.7	0.0	0.0	2.1	0.0
0.0	2.3	0.0	2.9	2.6	0.0	0.0	0.5	0.0	0.0	1.4	0.1
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	2.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	9.7
0.0	0.0	0.3	1.7	0.0	0.0	0.0	0.0	0.0	8.0	2.1	3.0
0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	17.1	9.3	0.8
0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	1.2	9.5
0.4	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.2	10.8
0.0	3.0	0.0	12.3	0.0	0.0	0.0	0.0	0.0	9.3	13.4	1.8

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

7.4	9.8	0.0	2.9	0.0	0.5	0.0	0.0	0.0	0.0	0.0	8.4
7.5	0.0	0.0	6.8	0.0	0.3	0.0	0.0	0.0	7.9	6.6	46.1
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	0.1	8.3	40.7
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.6	0.0	2.3	7.7
1.1	0.0	0.0	5.2	0.0	0.0	0.0	0.0	0.3	0.0	23.7	0.0
1.5	0.0	0.0	11.0	0.0	1.5	0.1	0.0	0.0	0.0	2.0	0.1
0.3	0.0	0.0	17.0	0.0	2.6	0.0	0.0	3.1	0.0	5.1	0.0
0.0	0.0	0.0	4.2	0.0	2.5	0.0	0.0	0.0	0.0	5.6	0.1
0.1	0.0	0.0	0.3	0.0	0.4	0.0	0.0	0.0	0.0	16.9	0.0
0.2	0.0	0.0	0.0	0.0	0.0	2.8	0.0	0.0	0.2	0.4	0.0
0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.6	0.2	0.0
3.2	-77.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.2	0.4	0.1
11.7	-77.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	5.4	3.7	0.0
17.0	-77.0	1.1	-77.0	0.0	-77.0	0.0	0.0	-77.0	2.4	-77.0	0.2
Jan_2020	Feb_2020	Mar_2020	Apr_2020	May_2020	Jun_2020	Jul_2020	Aug_2020	Sep_2020	Oct_2020	Nov_2020	Dec_2020
0.1	3.1	2.2	27.3	1.4	0.0	0.0	0.0	0.0	0.1	0.0	0.1
0.1	0.1	4.4	0.0	0.0	0.0	0.0	0.0	0.0	4.8	0.0	0.1
0.0	0.1	1.4	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.5
0.1	0.1	0.7	0.2	0.5	0.8	0.0	0.0	0.0	1.9	0.0	22.0
0.1	0.0	4.3	11.7	0.3	0.0	0.0	0.0	0.0	0.1	7.9	9.6
0.0	0.0	0.5	26.1	0.0	0.0	0.0	0.0	0.0	0.0	20.6	4.1
0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0	2.3	3.3
0.0	3.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	7.0	1.0
0.3	0.0	0.0	9.2	1.1	0.0	0.0	0.0	0.0	0.0	2.2	2.7
0.0	0.0	0.0	0.0	16.3	0.0	0.0	0.0	0.0	0.0	0.2	4.5
0.1	0.0	0.0	0.0	4.1	0.8	0.2	0.0	0.0	0.0	0.1	4.9
0.0	0.0	0.0	0.0	8.4	2.1	0.0	0.3	0.0	0.0	0.0	3.2
0.0	0.8	0.0	3.4	15.0	0.1	0.0	0.0	0.0	0.0	0.0	1.2
4.6	0.1	0.0	7.7	7.3	0.0	0.0	0.0	0.0	0.0	1.5	10.4
14.0	0.0	0.0	6.5	3.0	0.0	0.0	0.0	0.0	0.0	0.0	8.9
13.9	0.0	0.4	14.2	0.0	0.2	0.0	0.2	0.0	0.0	0.1	12.1
2.3	3.3	0.0	2.1	0.0	0.0	0.0	0.0	2.6	0.0	0.1	6.7
22.2	0.1	0.0	0.0	0.0	0.0	0.0	0.1	24.5	0.0	0.0	4.5
0.3	0.0	0.0	0.1	0.0	0.0	0.0	0.0	4.5	46.4	0.0	15.3
0.1	0.0	9.1	12.9	0.0	0.0	0.1	4.6	1.0	28.6	0.1	0.1
0.0	0.0	0.3	0.3	0.0	0.0	9.3	0.0	0.0	14.5	0.0	0.1
2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.6	0.0	0.1
2.8	0.0	3.3	0.0	0.0	0.0	0.0	0.0	3.0	0.2	0.0	0.6
2.2	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	1.1	4.6	0.0
0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.5	28.1	0.0
0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.5	2.5	0.0
5.6	0.0	0.0	1.2	0.0	0.4	0.0	0.0	0.7	0.1	0.0	0.0
0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	10.5	6.2
0.3	2.1	0.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0	6.4	4.6



Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

### ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

5.6	-77.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.3
8.8	-77.0	0.4	-77.0	0.0	-77.0	0.0	0.0	-77.0	0.0	-77.0	4.3

#### 2.1.4 VILA FRANCA DE XIRA

Tabela 4. Precipitações diárias na região de cálculo de Vila Franca de Xira (mm)

Jan_2003	Fev_2003	Mar_2003	Abr_2003	Mai_2003	Jun_2003	Jul_2003	Ago_2003	Set_2003	Out_2003	Nov_2003	Dez_2003
9.8	0.0	2.8	0.0	0.2	0.2	0.1	0.0	0.0	19.6	4.7	9.8
10.8	0.0	0.7	0.0	0.0	0.0	0.0	0.1	0.0	24.7	0.0	0.3
1.2	0.1	0.6	0.0	0.0	1.0	0.0	0.0	0.0	6.9	0.0	4.7
1.5	0.8	0.2	0.0	0.3	1.2	0.0	0.0	0.0	0.0	0.0	0.1
9.7	0.0	0.6	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	9.8
2.4	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.5
10.3	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.6	8.0
8.5	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.4	11.8
10.5	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	34.6	14.3
0.0	0.5	0.0	3.9	0.0	0.0	0.0	0.0	0.0	3.4	5.4	0.0
0.0	3.5	0.0	2.0	0.0	0.0	0.0	0.0	0.0	16.1	0.1	0.1
0.0	0.1	0.0	12.4	0.0	0.0	0.2	0.0	0.0	0.0	1.0	0.1
0.0	0.2	0.1	19.1	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.2
0.0	0.1	0.0	10.2	0.0	0.0	1.3	0.0	0.0	0.0	0.6	0.1
0.0	0.0	0.0	0.6	0.0	0.0	3.8	0.0	0.0	1.7	36.5	0.0
0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.2	0.1
0.0	1.7	9.9	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	7.8
16.4	24.2	0.5	1.7	0.0	0.0	0.0	0.0	0.0	10.2	0.0	4.4
1.9	8.7	1.7	0.3	0.0	0.0	0.0	0.0	0.0	5.8	0.0	0.1
12.2	3.8	0.0	2.3	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0
2.2	7.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.8	0.0
6.1	10.2	0.0	7.4	0.0	0.0	0.0	0.0	0.1	0.1	13.3	0.0
0.0	0.1	0.8	0.1	0.1	0.0	0.0	0.0	0.0	0.3	0.5	0.0
0.0	6.3	8.4	0.0	0.0	0.0	0.0	0.0	0.0	3.4	1.0	0.0
0.0	11.7	8.3	22.9	0.0	0.0	0.0	0.0	0.0	32.2	0.0	0.0
0.0	8.9	7.4	0.2	0.0	0.0	0.0	0.0	0.0	8.4	8.2	0.0
0.0	2.9	18.2	0.0	0.0	0.0	0.2	2.4	0.0	16.3	0.8	0.2
0.0	0.0	0.6	2.3	0.0	0.0	0.0	3.4	0.0	1.8	0.1	2.1
0.0	-77.0	17.8	2.2	0.1	1.8	0.0	0.3	0.5	1.4	1.2	0.3
0.0	-77.0	1.4	1.3	1.1	0.1	0.0	1.7	32.4	5.8	8.6	0.6
0.1	-77.0	0.0	-77.0	0.0	-77.0	0.0	6.5	-77.0	33.1	-77.0	0.9
Jan_2004	Feb_2004	Mar_2004	Apr_2004	May_2004	Jun_2004	Jul_2004	Aug_2004	Sep_2004	Oct_2004	Nov_2004	Dec_2004
0.4	2.0	0.0	5.4	3.5	0.0	0.0	0.0	1.3	0.0	4.8	15.1
0.0	3.6	0.0	2.4	0.2	0.0	0.0	0.0	15.6	0.0	15.9	1.0
0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.1	3.3	0.0	5.0	0.1
0.0	0.0	0.3	0.0	0.1	0.0	0.0	0.0	6.3	0.0	0.1	0.0

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

## ANEXO 8 – Necessidades Hídricas das Culturas

### ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.2	0.1	1.5	0.0	2.5	0.0	0.0	0.0	0.4	0.0	0.0	0.0
0.0	0.1	0.6	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.1	0.1	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0
3.2	0.1	0.0	0.0	0.0	0.0	0.0	10.1	1.8	5.2	0.0	0.0
0.8	0.1	0.1	0.0	3.6	0.0	0.0	0.0	0.0	3.7	0.0	0.1
0.1	0.0	1.5	0.0	1.0	0.0	0.1	1.1	0.0	2.8	0.0	0.1
0.1	0.0	0.8	0.0	0.1	0.0	0.0	1.4	0.0	0.4	0.0	0.0
0.1	0.0	12.3	0.0	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.1
0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	4.1
1.7	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.2	0.3	0.0	0.1
4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.5	0.0	0.0
0.1	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.0	0.1	0.0	0.0
0.2	0.0	0.0	0.1	0.0	0.0	0.0	2.8	0.0	0.1	0.0	0.0
0.0	0.0	0.0	2.2	0.0	0.0	0.0	5.4	0.0	18.1	0.0	0.0
0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.5	0.0	27.0	0.1	0.1
0.0	0.0	0.0	0.3	1.5	0.0	0.0	0.0	0.0	7.7	0.1	0.0
0.0	1.6	0.0	13.5	3.3	0.0	0.0	0.0	0.0	2.2	0.0	0.0
0.1	9.2	0.0	2.2	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	3.3	0.0	0.0	3.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0
0.0	1.6	0.5	0.0	2.3	0.0	0.0	0.0	0.0	20.6	0.0	0.0
0.8	24.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	5.2	0.0	2.4
10.9	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6	0.1	2.4
14.6	1.2	5.1	0.0	0.0	0.0	0.0	0.0	0.0	24.9	0.6	0.0
1.9	1.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	12.4	1.6	1.5
13.8	1.6	0.2	0.0	0.0	0.0	0.0	0.0	0.0	9.6	0.6	0.0
16.2	-77.0	1.2	1.5	0.0	0.0	0.0	0.0	0.0	7.8	8.4	0.0
23.7	-77.0	8.5	-77.0	0.0	-77.0	0.0	0.0	-77.0	4.7	-77.0	0.0
Jan_2005	Feb_2005	Mar_2005	Apr_2005	May_2005	Jun_2005	Jul_2005	Aug_2005	Sep_2005	Oct_2005	Nov_2005	Dec_2005
0.1	0.0	0.0	1.1	0.6	0.0	0.0	0.0	0.0	0.0	0.1	15.6
0.0	0.0	0.0	12.3	0.0	0.0	0.0	0.0	0.0	0.0	6.9	18.8
0.0	0.0	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	25.5	0.7
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.2	0.5
0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	2.9	0.0	0.0	0.0
0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	0.0
0.1	0.0	0.0	0.0	0.0	0.0	0.0	2.4	2.3	4.0	0.0	0.0
0.0	0.0	0.1	0.0	1.5	0.0	0.0	1.3	0.1	19.9	0.0	0.0
0.0	0.0	0.0	0.0	3.4	0.0	0.0	0.0	0.0	9.6	0.0	0.0
0.1	0.0	0.0	0.0	3.9	0.0	0.0	0.0	0.0	10.8	2.4	0.0
1.4	0.0	0.1	0.0	3.7	0.0	0.0	0.0	0.0	0.7	1.6	0.0
0.0	0.0	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0
0.1	0.0	0.1	0.6	0.0	0.0	0.0	0.0	0.2	0.0	0.1	0.0
0.0	0.0	0.0	0.1	4.2	0.0	0.0	0.0	0.0	0.0	0.1	0.0

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	2.2	0.1	0.0
0.0	0.0	0.0	2.4	0.0	0.0	0.0	0.0	0.0	0.1	2.3	0.0
0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.6	15.1	0.0
0.0	0.0	2.6	0.0	0.0	0.0	0.0	0.0	0.0	5.3	23.9	0.0
0.0	0.0	6.8	0.0	0.1	0.0	0.0	0.0	0.0	9.1	3.7	0.0
0.0	3.7	0.1	0.1	0.1	0.0	0.0	0.0	0.0	11.1	1.3	0.0
0.0	4.1	2.6	3.5	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
0.1	1.1	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
0.0	0.0	21.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	3.0	7.7
0.0	0.2	8.9	0.1	0.0	0.0	1.0	0.0	0.0	2.7	6.3	10.1
0.0	0.6	2.7	0.0	0.6	0.0	1.9	0.0	0.0	30.4	4.1	2.1
0.0	0.0	12.2	0.0	0.0	0.0	0.2	0.0	0.0	4.3	0.4	0.2
0.0	-77.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	8.4	0.1	0.1
0.0	-77.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23.6	0.0	0.9
0.0	-77.0	0.0	-77.0	1.3	-77.0	0.0	0.0	-77.0	6.7	-77.0	2.3
Jan_2006	Feb_2006	Mar_2006	Apr_2006	May_2006	Jun_2006	Jul_2006	Aug_2006	Sep_2006	Oct_2006	Nov_2006	Dec_2006
0.8	0.3	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
0.0	6.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.4	5.1	10.5
0.0	5.2	6.1	0.0	0.0	0.0	0.0	0.0	0.0	0.7	15.0	0.7
0.1	0.1	24.5	1.6	0.0	0.0	0.1	0.0	0.0	2.3	31.0	4.3
1.1	0.1	0.1	14.4	0.0	0.0	0.0	0.0	0.0	0.0	7.7	14.0
7.1	0.0	0.0	4.9	0.0	0.0	0.0	0.0	0.0	0.0	11.5	2.0
0.0	0.0	0.1	0.4	0.0	0.0	0.0	0.0	0.0	0.0	1.9	6.4
0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.4
0.1	0.0	0.4	0.5	0.0	0.3	0.0	0.0	0.7	0.0	0.0	3.1
0.0	0.7	0.1	0.0	0.0	0.0	0.0	0.0	0.0	2.6	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	0.0	0.0
0.7	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0
3.8	0.0	0.0	0.0	0.0	3.0	0.0	0.0	4.7	0.0	0.1	0.0
0.7	0.0	0.0	5.4	0.0	22.2	0.5	0.0	0.6	0.0	0.1	0.0
18.9	0.0	0.0	24.3	0.0	10.9	0.0	0.0	1.1	0.2	30.3	0.0
0.3	1.1	0.1	4.3	0.0	13.7	0.0	5.5	0.0	22.6	4.5	0.0
0.1	3.4	30.3	0.4	0.0	0.1	0.0	2.5	0.0	5.7	9.3	0.0
0.1	12.6	15.3	0.0	0.0	0.0	0.6	5.3	0.0	15.1	1.4	0.1
0.0	12.0	6.7	0.3	0.0	0.0	0.2	0.0	0.0	11.8	0.1	0.0
0.1	7.1	7.1	1.6	0.0	0.0	0.0	0.0	0.0	21.4	0.2	0.0
0.1	0.5	1.6	4.4	0.2	0.0	0.0	0.0	31.9	0.9	0.5	0.0
0.0	0.0	3.0	13.6	0.5	0.0	0.0	0.0	7.3	21.8	0.9	0.0
0.0	0.4	25.4	0.3	0.1	0.0	0.0	0.0	15.0	8.4	14.2	0.0
0.1	2.8	3.9	0.0	0.0	0.0	0.0	0.0	3.9	26.0	61.3	0.0
0.0	13.4	0.0	0.0	0.0	0.1	0.0	0.0	1.1	35.6	1.6	0.0
0.0	2.7	0.2	0.0	0.0	0.0	0.0	0.0	0.1	19.5	0.3	0.0
0.1	0.1	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.2	14.9	0.0
5.2	0.0	0.4	0.0	0.0	0.0	0.1	0.0	0.5	0.0	9.9	0.0

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

9.1	-77.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.9	1.1
0.1	-77.0	0.0	0.0	0.1	0.0	0.0	0.0	3.4	0.0	0.0	1.8
0.0	-77.0	0.0	-77.0	0.0	-77.0	0.0	0.0	-77.0	0.1	-77.0	0.1
Jan_2007	Feb_2007	Mar_2007	Apr_2007	May_2007	Jun_2007	Jul_2007	Aug_2007	Sep_2007	Oct_2007	Nov_2007	Dec_2007
0.5	0.0	0.6	0.0	19.9	0.0	0.0	0.0	0.0	0.7	0.0	0.0
0.2	0.0	0.1	5.1	8.8	0.0	0.0	0.0	0.0	1.3	0.0	0.1
0.1	0.0	0.0	2.5	0.7	0.0	0.0	0.0	0.0	1.9	0.0	0.0
0.2	0.1	4.8	0.0	0.1	0.0	0.1	0.0	0.0	0.5	0.0	0.3
0.2	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.2
0.2	0.0	3.3	0.4	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.1
0.5	8.9	2.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
0.0	23.0	0.3	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.1	2.0	0.0	3.4	0.0	2.7	0.0	0.0	0.0	0.0	0.0	0.6
1.7	0.9	0.0	3.3	0.0	6.0	0.0	0.0	0.8	0.0	0.0	0.0
0.1	4.6	0.0	6.6	0.0	0.0	0.0	0.0	5.0	0.0	0.0	0.0
0.1	7.3	0.0	0.0	0.0	0.1	0.0	0.0	3.6	0.0	0.0	0.0
0.0	1.9	0.0	0.0	0.7	0.1	0.0	0.0	0.0	0.0	0.0	0.1
0.0	4.5	0.0	0.0	0.5	14.0	0.0	0.2	0.0	0.0	0.0	0.0
0.0	0.2	0.0	0.0	0.0	0.5	1.7	2.5	0.1	0.2	0.0	0.0
1.4	10.6	0.0	0.0	0.0	17.3	1.1	0.0	0.3	0.2	0.0	0.0
0.1	1.7	0.0	0.0	0.0	8.1	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.0	3.5	0.0	0.0	3.4
0.1	14.3	0.1	0.6	0.0	5.1	0.0	0.0	0.1	0.0	47.5	26.6
0.0	2.0	0.0	9.7	1.6	0.8	0.0	0.0	2.5	0.0	19.0	2.0
0.1	2.0	0.0	0.1	0.0	0.0	0.0	0.0	1.1	0.0	1.0	0.1
4.9	5.1	0.0	0.0	5.1	0.0	0.0	0.0	0.0	0.0	2.2	0.0
1.7	0.3	0.0	0.0	1.1	0.0	2.0	0.0	0.0	0.2	0.3	0.0
0.4	0.2	0.0	0.1	2.2	0.0	0.0	0.0	0.0	1.2	0.0	1.9
3.5	4.8	0.7	3.6	5.4	0.0	0.0	1.1	0.0	0.0	0.0	4.8
0.3	0.0	1.3	0.0	0.1	0.0	0.0	0.6	0.0	0.0	0.0	0.0
0.0	0.0	0.1	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.9	2.5	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.2	-77.0	0.0	0.1	0.0	0.1	0.0	0.0	13.4	0.0	0.0	0.1
7.5	-77.0	2.0	1.9	0.3	0.0	0.0	0.0	20.0	0.0	0.1	0.1
0.5	-77.0	2.8	-77.0	0.0	-77.0	0.0	0.0	-77.0	0.1	-77.0	0.0
Jan_2008	Feb_2008	Mar_2008	Apr_2008	May_2008	Jun_2008	Jul_2008	Aug_2008	Sep_2008	Oct_2008	Nov_2008	Dec_2008
14.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	4.5
7.2	1.8	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	1.7
30.0	9.2	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	4.7
6.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	2.3	0.0	1.1	0.6
2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.2	0.0	0.4	0.9
0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	3.2
0.1	0.0	0.0	10.9	0.3	0.0	0.0	0.0	0.0	8.1	1.5	5.6
0.0	0.0	0.0	10.1	0.2	0.0	0.0	0.0	0.0	0.1	0.0	1.1

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

1.7	0.0	0.3	16.0	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.1
1.8	0.0	5.8	10.1	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.4	0.0	0.8	3.1	0.2	0.0	0.2	0.0	0.1	1.2	0.4	1.5
0.2	0.0	0.1	0.4	0.3	0.3	0.0	0.2	0.0	3.8	0.3	2.4
10.3	0.0	0.0	2.7	0.3	0.0	0.0	0.0	0.0	4.4	0.0	9.2
2.9	0.0	0.0	0.1	1.4	0.0	0.0	0.0	0.0	0.3	0.0	7.2
2.9	0.0	0.2	0.2	19.4	0.9	0.0	0.0	0.0	0.0	0.0	0.8
1.3	0.2	0.0	7.7	0.5	4.1	0.0	0.0	0.0	0.1	0.0	0.0
0.4	15.6	3.2	28.4	0.0	0.0	0.0	0.0	0.1	0.5	0.0	0.0
0.1	33.8	1.3	11.3	3.1	0.0	0.0	0.0	0.0	7.1	0.0	0.0
0.1	6.0	24.0	18.1	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.1
0.0	0.1	0.1	11.2	2.6	0.0	0.0	0.0	0.2	0.1	0.0	0.0
0.0	1.5	0.0	1.4	0.0	0.0	0.0	0.0	0.4	2.3	0.0	0.2
0.0	0.2	0.7	0.0	10.4	0.0	0.0	0.0	2.6	0.0	0.0	0.1
0.1	3.3	0.0	0.1	13.3	0.0	0.0	0.1	2.5	0.0	0.0	0.0
0.0	5.0	0.0	0.0	7.3	0.0	0.0	0.0	0.0	0.0	1.0	0.0
0.0	1.9	0.0	0.0	1.6	0.0	0.6	0.0	0.0	0.0	1.2	0.0
0.0	0.0	0.3	0.0	6.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.1	0.9	0.0	7.6	0.0	0.0	0.1	0.0	0.5	0.0	25.3
0.0	3.6	0.0	0.0	3.1	0.0	0.0	0.0	1.7	0.0	13.9	0.9
0.1	0.0	0.2	0.1	2.1	0.0	0.0	0.0	0.7	0.0	12.1	2.8
0.0	-77.0	1.1	0.0	1.8	0.0	0.0	0.0	0.0	4.7	5.7	2.6
0.0	-77.0	0.0	-77.0	0.2	-77.0	0.0	0.2	-77.0	7.4	-77.0	11.2
Jan_2009	Feb_2009	Mar_2009	Apr_2009	May_2009	Jun_2009	Jul_2009	Aug_2009	Sep_2009	Oct_2009	Nov_2009	Dec_2009
13.2	14.7	2.9	0.0	0.1	0.0	0.0	1.5	0.0	0.0	3.6	2.2
8.3	1.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	7.9
6.0	6.1	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
0.0	7.5	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0
0.0	5.9	1.4	0.0	0.0	15.9	0.0	0.0	0.0	3.5	0.6	0.6
0.1	3.2	0.9	0.0	0.0	5.9	0.0	0.0	0.0	7.4	2.7	8.8
0.0	0.1	0.0	0.2	0.0	0.2	0.0	0.0	0.0	15.5	0.4	2.3
0.0	0.9	0.0	0.3	0.0	2.5	0.0	0.0	0.3	1.1	5.1	0.0
0.1	4.2	0.0	1.2	5.4	0.1	0.0	0.0	0.8	0.0	0.1	1.5
0.1	0.2	0.0	1.0	2.7	0.0	0.0	0.0	0.4	0.0	0.1	0.0
0.0	0.0	0.0	0.5	9.8	0.0	0.0	0.0	0.1	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.2	0.1	0.0	0.0	0.2	0.0	0.2	0.0
7.0	0.0	0.0	0.8	0.4	0.0	0.0	0.0	0.2	0.0	1.4	0.0
0.1	0.0	0.0	8.8	0.1	0.4	0.0	0.0	0.0	0.1	8.7	0.1
18.4	0.0	0.0	11.5	0.0	2.1	0.0	0.0	0.0	0.0	14.5	0.7
3.1	0.0	0.0	6.8	0.4	0.8	0.0	0.0	0.0	0.0	27.2	7.7
0.1	0.0	0.0	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.8
1.6	0.0	0.0	9.6	0.0	0.0	0.0	0.0	2.6	0.0	0.1	3.6
11.1	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.0	0.1	16.0

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.8	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.0	22.5	9.1	8.2
15.3	0.0	0.0	0.0	0.0	0.0	2.2	0.0	0.0	3.5	0.1	9.0
12.7	0.0	0.0	0.0	4.4	0.0	1.3	0.0	0.0	0.4	0.0	13.4
2.2	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.1	3.4
9.8	0.1	0.0	2.5	0.2	0.7	0.0	0.0	0.0	0.0	12.5	8.1
4.6	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.1	1.3	1.5
1.3	0.0	0.0	0.4	0.0	0.3	0.0	0.0	0.0	0.0	1.2	9.9
6.5	1.2	0.0	0.2	0.0	23.3	0.0	0.0	0.3	0.1	1.0	24.5
2.0	-77.0	0.0	0.2	0.0	5.3	0.0	0.0	0.1	0.0	15.1	23.6
12.9	-77.0	0.0	1.3	0.0	0.0	0.0	0.0	0.4	0.1	2.7	12.6
7.2	-77.0	0.0	-77.0	0.0	-77.0	0.0	0.0	-77.0	0.1	-77.0	11.8
Jan_2010	Feb_2010	Mar_2010	Apr_2010	May_2010	Jun_2010	Jul_2010	Aug_2010	Sep_2010	Oct_2010	Nov_2010	Dec_2010
3.4	0.0	1.1	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.5	3.7
0.5	0.0	8.2	0.4	0.0	0.1	0.0	0.0	0.0	0.0	0.0	5.5
16.4	2.5	3.8	1.8	0.0	0.1	0.0	0.0	0.0	15.7	0.1	1.5
15.7	7.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.6	0.0	0.5
0.1	0.6	27.7	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	38.3
3.3	0.0	17.4	0.2	0.0	0.0	0.0	0.0	0.5	5.9	0.0	6.7
0.1	3.7	1.7	0.2	2.7	0.0	0.0	0.0	1.1	5.7	0.1	8.0
0.0	8.7	18.3	0.3	14.1	4.2	0.0	0.2	0.0	33.3	3.6	8.9
0.0	1.5	0.9	0.0	11.0	6.5	0.0	0.0	0.0	17.6	6.8	4.6
11.3	8.1	0.0	0.0	0.2	6.1	0.0	0.0	0.0	2.4	1.3	0.0
1.3	0.3	0.0	0.0	3.8	0.7	0.0	0.0	0.0	0.1	0.0	0.1
32.8	0.6	0.0	0.1	0.4	0.0	0.0	0.0	0.0	0.0	0.1	2.0
10.5	0.0	0.0	7.1	0.5	0.0	0.0	0.0	0.0	0.0	0.6	0.2
3.9	4.8	0.0	12.9	0.4	0.0	0.0	0.0	0.0	0.0	18.3	0.1
4.5	13.5	0.0	18.8	0.0	0.1	0.0	0.0	0.1	0.0	0.8	0.1
3.3	7.8	0.1	11.2	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0
0.3	6.0	0.0	7.5	0.0	0.0	0.0	0.0	0.0	0.0	13.4	0.0
0.4	0.8	0.1	10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	2.1
0.8	0.5	5.6	0.1	0.0	0.0	0.0	0.0	0.0	0.0	8.5	0.1
0.8	5.0	3.3	1.6	0.0	0.0	0.0	0.0	0.0	0.0	7.8	30.0
0.0	13.2	0.4	5.5	0.0	0.0	0.1	0.0	0.0	0.0	2.2	14.0
0.1	9.8	0.0	5.6	0.0	0.0	0.0	0.0	0.0	0.0	1.4	8.8
1.1	8.9	1.2	0.1	0.0	0.1	0.0	0.2	0.6	0.0	11.6	1.0
0.2	1.3	10.2	0.0	0.1	0.0	0.0	0.1	0.0	0.2	1.4	0.6
0.1	9.3	6.3	0.0	1.6	0.0	0.0	0.0	0.0	0.2	0.1	9.4
0.0	3.5	1.3	0.0	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0
0.0	16.3	0.0	0.0	0.3	0.0	0.0	0.2	0.0	0.0	0.0	0.0
0.0	7.9	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.3
0.1	-77.0	3.6	0.0	0.0	0.0	0.0	0.0	0.0	27.6	6.7	8.0
0.2	-77.0	1.0	0.0	0.0	0.1	0.0	0.0	0.0	26.1	8.6	14.1
0.2	-77.0	0.6	-77.0	0.4	-77.0	0.0	0.0	-77.0	12.1	-77.0	16.2
Jan_2011	Feb_2011	Mar_2011	Apr_2011	May_2011	Jun_2011	Jul_2011	Aug_2011	Sep_2011	Oct_2011	Nov_2011	Dec_2011

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

## ANEXO 8 – Necessidades Hídricas das Culturas

### ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

1.1	0.0	0.0	0.0	2.5	0.0	0.0	0.4	21.8	0.0	0.9	0.1
0.2	0.0	0.0	0.2	0.0	0.0	0.0	0.0	5.1	0.0	21.2	1.7
0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	13.3	0.0
2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	6.0	0.1
10.4	0.0	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3	0.2
31.7	0.0	1.9	0.0	1.1	0.1	0.0	0.0	0.0	0.0	0.0	0.3
4.8	0.0	1.2	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.1	0.1
9.7	0.1	3.8	0.0	0.0	0.1	0.0	0.0	0.0	0.0	9.6	0.1
0.4	2.4	1.0	0.0	0.0	0.6	0.1	0.0	0.0	0.0	23.5	0.8
3.5	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6	7.9
0.5	2.6	4.7	0.0	0.0	0.0	0.0	0.0	0.1	0.0	11.1	2.7
0.0	0.1	4.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.8
0.1	14.1	8.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.0	2.0
0.1	14.5	15.4	0.0	0.0	0.0	0.0	0.0	0.1	0.0	22.3	5.3
0.0	7.1	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	0.2
0.0	18.6	0.0	0.0	15.6	0.0	0.0	0.0	0.0	0.0	0.8	2.2
1.6	2.6	0.0	0.0	5.1	0.0	0.3	0.0	0.0	0.0	1.1	0.0
0.1	6.9	0.0	15.2	17.7	0.0	0.2	0.0	0.1	0.0	16.1	0.0
0.0	29.6	0.0	9.9	0.9	0.0	0.4	0.0	0.0	0.0	3.2	0.1
0.0	1.8	0.0	5.9	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.1
0.0	0.1	0.0	16.8	0.0	0.0	0.1	3.3	0.0	0.0	0.5	0.0
0.1	0.0	0.1	4.6	0.0	0.0	0.1	0.1	0.0	0.0	14.4	0.1
0.1	0.0	0.0	3.1	0.0	0.0	0.0	0.1	0.0	34.5	0.0	0.1
1.0	0.0	1.5	0.2	0.4	0.0	0.2	0.0	0.0	9.1	0.0	0.1
0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	2.7	0.0	0.0
0.0	0.0	5.0	0.0	0.9	0.0	0.0	0.9	0.0	26.6	0.0	0.0
7.3	0.0	2.0	0.1	0.1	0.0	0.0	0.0	0.0	10.3	0.0	0.0
5.6	0.0	5.0	0.8	8.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.5	-77.0	0.1	14.6	0.6	0.0	0.0	0.0	0.0	0.0	0.1	0.0
0.4	-77.0	0.0	9.7	6.9	0.0	0.0	0.1	0.0	0.0	0.3	0.0
0.1	-77.0	0.0	-77.0	0.0	-77.0	0.0	10.4	-77.0	1.1	-77.0	0.0
Jan_2012	Feb_2012	Mar_2012	Apr_2012	May_2012	Jun_2012	Jul_2012	Aug_2012	Sep_2012	Oct_2012	Nov_2012	Dec_2012
0.7	1.0	0.8	3.3	1.4	0.0	0.0	0.0	0.0	0.0	0.1	3.6
0.8	0.1	0.0	1.8	7.3	0.4	0.0	0.0	0.0	0.0	4.5	0.0
0.0	0.0	0.8	0.0	10.5	0.1	0.0	0.0	0.0	0.0	9.0	0.1
0.0	0.0	0.2	0.0	0.8	0.0	0.0	0.0	0.0	0.0	17.4	1.0
0.1	0.0	0.0	2.6	1.7	0.1	0.0	0.0	0.0	0.0	0.0	0.1
0.1	0.0	0.0	7.6	0.5	0.4	0.0	0.0	0.0	0.0	0.0	21.2
0.0	0.0	0.0	0.0	20.0	0.8	0.1	0.0	0.2	0.0	13.5	6.0
0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	2.5	0.2
0.1	0.0	0.0	0.0	0.1	0.3	0.0	0.0	0.0	0.3	0.9	0.1
0.0	1.5	0.0	2.4	0.0	0.7	0.0	0.0	0.0	1.3	5.0	0.0
0.1	0.0	0.0	0.5	0.0	1.2	0.0	0.0	0.0	2.6	2.0	0.0
0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

### ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.1	0.0	0.0	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1
2.5	0.2	0.0	6.8	0.0	0.2	0.0	0.4	0.0	1.3	0.0	27.0
6.4	0.0	1.0	0.7	0.0	0.1	0.0	9.0	0.0	0.0	7.1	0.9
0.7	0.0	0.0	0.0	0.0	0.2	0.0	2.1	0.0	0.0	5.2	3.1
0.0	0.0	0.5	0.5	0.0	0.0	0.0	0.0	0.0	19.7	27.3	4.0
0.0	0.0	0.6	3.5	4.8	0.0	0.0	0.0	0.0	20.8	0.0	0.4
0.0	0.0	0.0	2.6	2.2	0.0	0.0	0.0	0.0	1.0	0.0	1.0
0.0	0.0	0.0	3.0	9.1	0.5	0.0	0.0	0.0	0.0	7.1	1.5
0.0	0.0	0.0	1.2	0.0	0.1	0.0	0.0	0.0	0.4	0.2	0.6
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.1
0.1	0.0	0.0	0.5	0.0	0.0	0.0	0.0	13.5	0.0	0.0	0.0
0.0	0.0	0.7	3.7	0.0	0.0	0.0	0.1	1.2	16.0	20.9	1.1
0.0	0.0	0.0	13.1	0.0	0.0	0.0	0.6	11.5	20.3	15.0	1.8
0.3	0.0	0.0	4.3	0.0	0.0	0.0	0.0	0.9	4.3	0.8	0.1
0.0	0.0	0.0	1.9	0.0	0.0	0.0	0.0	5.0	0.2	0.8	0.0
0.0	0.0	0.0	5.0	0.0	0.0	0.0	0.0	2.7	0.0	0.1	0.1
0.0	0.1	0.1	3.4	0.0	0.0	0.0	0.0	0.0	3.3	2.6	5.3
0.0	-77.0	7.5	0.2	0.0	0.2	0.0	0.0	0.0	6.1	8.1	0.4
0.0	-77.0	1.8	-77.0	0.0	-77.0	0.0	0.0	-77.0	0.0	-77.0	5.8
Jan_2013	Feb_2013	Mar_2013	Apr_2013	May_2013	Jun_2013	Jul_2013	Aug_2013	Sep_2013	Oct_2013	Nov_2013	Dec_2013
0.1	0.9	0.0	2.6	0.0	0.0	0.0	0.0	0.0	10.0	0.0	0.0
0.1	0.1	0.0	1.6	0.0	0.0	0.0	0.1	0.0	4.3	0.2	0.0
0.0	0.0	0.2	13.0	0.0	0.0	0.0	0.0	0.9	2.3	0.0	0.0
0.0	0.0	14.2	4.7	0.0	0.0	0.0	0.0	1.9	0.1	4.2	0.0
0.0	0.0	11.6	0.7	0.0	0.1	0.0	0.0	1.2	0.1	1.1	0.0
0.0	0.1	4.1	0.0	0.0	0.6	0.0	0.0	0.2	0.0	0.0	0.0
0.0	0.0	11.0	1.1	0.0	3.1	0.0	0.0	0.0	0.0	0.0	0.0
0.3	0.0	10.3	0.0	0.0	0.6	0.0	0.0	0.0	0.0	3.9	0.0
3.1	0.0	9.2	1.0	1.3	0.2	0.0	0.0	0.0	0.0	0.2	0.0
3.7	4.0	6.8	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
3.1	3.4	6.5	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
2.0	1.3	2.4	0.1	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.1
3.8	0.1	0.2	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1	2.6
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
0.0	0.0	0.2	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11.8	0.1	2.4	0.0	2.6	0.4	0.0	0.0	0.0	0.1	0.0	0.0
5.0	8.6	10.0	0.0	5.4	2.2	0.0	0.0	0.0	0.1	0.0	2.7
13.2	0.2	0.0	0.0	1.1	4.9	0.0	0.0	0.0	23.1	0.0	2.2
36.4	3.3	5.3	0.0	1.7	1.2	0.0	0.0	0.0	0.5	0.0	10.0
11.7	0.1	0.1	0.0	0.2	0.0	0.0	0.0	0.0	0.1	0.0	0.0
3.4	13.1	6.0	0.0	0.0	0.0	0.0	0.0	0.0	7.4	0.1	0.0
15.4	13.3	4.6	0.0	0.0	0.0	0.0	0.0	0.0	19.2	5.8	0.2
5.2	0.4	4.8	0.0	0.0	0.0	0.0	0.0	0.0	14.1	0.0	3.3
2.8	0.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	37.8	0.0	15.1



Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

## ANEXO 8 – Necessidades Hídricas das Culturas

### ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

16.2	0.0	6.7	0.0	0.0	0.0	0.0	0.0	1.3	4.0	0.0	11.2
0.2	0.0	8.9	0.0	0.0	0.0	0.0	0.0	0.2	1.1	0.1	3.6
5.4	1.1	4.4	0.0	0.0	0.0	0.0	0.0	17.4	0.1	0.0	12.3
0.7	2.1	2.0	0.5	0.3	0.0	0.9	0.0	13.6	7.6	0.0	1.6
0.0	-77.0	8.3	0.2	2.8	0.0	0.0	0.0	6.3	0.2	0.0	0.6
0.0	-77.0	0.8	0.0	0.0	0.0	0.0	0.0	19.1	0.0	0.0	1.2
0.2	-77.0	39.2	-77.0	0.2	-77.0	0.0	0.0	-77.0	0.0	-77.0	18.3
Jan_2014	Feb_2014	Mar_2014	Apr_2014	May_2014	Jun_2014	Jul_2014	Aug_2014	Sep_2014	Oct_2014	Nov_2014	Dec_2014
9.4	5.9	7.4	23.9	0.0	0.0	0.3	0.0	0.0	0.0	0.1	0.0
16.8	0.1	6.8	5.1	0.0	0.0	1.8	0.7	0.0	0.0	1.8	0.0
11.5	11.9	0.7	2.0	0.0	0.0	0.1	0.3	0.0	0.0	25.1	0.0
10.5	19.5	1.0	11.6	0.0	0.0	0.0	0.0	0.0	0.0	8.3	0.1
0.0	0.7	0.8	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0
11.7	12.2	0.0	0.0	0.0	12.5	2.7	0.0	21.9	0.7	0.2	0.0
21.6	2.1	0.1	0.0	0.0	0.4	0.0	0.0	12.7	1.8	6.8	0.0
0.6	10.2	0.0	0.0	0.0	0.0	0.0	0.0	0.5	10.5	6.8	0.0
0.0	18.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.1	1.1	0.0
0.0	4.4	0.0	0.0	0.0	0.0	0.0	0.0	9.4	0.6	26.2	0.0
0.1	22.4	0.0	0.0	0.0	0.0	0.0	0.0	9.4	2.5	7.4	0.0
6.3	5.4	0.0	0.0	0.0	0.0	0.0	0.3	0.0	30.2	1.0	1.8
3.5	14.1	0.1	0.0	0.0	0.0	0.0	0.0	2.1	20.0	30.4	23.8
6.7	13.7	0.0	0.0	0.0	0.0	0.0	0.0	4.4	1.0	9.6	4.0
4.6	0.7	0.0	0.0	0.0	0.0	0.0	0.0	7.7	3.9	2.6	0.0
1.3	0.0	0.0	0.0	0.5	0.0	0.0	0.0	19.2	0.3	0.1	2.2
26.7	1.6	0.0	0.0	0.0	0.0	0.0	0.0	11.5	0.1	0.0	0.0
9.6	0.2	0.0	0.0	0.0	0.0	0.1	0.0	4.2	0.5	5.6	0.0
5.9	0.0	0.1	0.0	0.3	0.0	4.1	0.0	1.9	0.0	56.3	0.0
0.7	3.5	0.1	8.8	17.3	0.0	0.5	0.0	2.5	0.0	7.4	0.1
9.2	0.3	4.7	0.2	11.2	2.1	0.0	0.0	1.4	0.0	0.1	0.1
2.1	0.3	0.5	0.0	5.1	7.7	0.0	0.0	10.8	0.0	1.2	0.0
0.1	6.3	0.0	4.0	0.4	6.1	0.0	0.0	2.5	0.0	5.6	0.0
0.4	3.6	3.8	3.7	0.0	0.2	0.0	0.0	0.1	0.0	0.1	0.0
0.4	1.8	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.5	0.2	1.2	1.5	0.0	0.0	0.0	0.0	0.4	0.0	16.1	0.0
1.3	0.9	7.4	0.1	0.3	0.0	0.0	0.0	3.8	0.0	19.5	0.0
4.0	0.3	3.5	0.0	0.3	0.2	0.0	0.0	0.3	0.0	6.6	1.5
7.7	-77.0	0.1	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.2	0.0
1.1	-77.0	7.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0
2.9	-77.0	25.7	-77.0	0.0	-77.0	0.0	0.0	-77.0	0.0	-77.0	0.0
Jan_2015	Feb_2015	Mar_2015	Apr_2015	May_2015	Jun_2015	Jul_2015	Aug_2015	Sep_2015	Oct_2015	Nov_2015	Dec_2015
0.0	1.1	0.1	0.0	0.2	0.5	0.8	0.0	0.0	0.0	6.6	0.0
0.1	4.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.7	0.1
0.0	1.9	0.0	0.0	3.5	0.0	0.0	0.0	0.0	0.4	3.8	0.1
0.1	0.4	0.0	0.0	6.0	0.0	0.0	0.0	0.0	4.6	7.7	0.0

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

## ANEXO 8 – Necessidades Hídricas das Culturas

### ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.3	3.0	0.0
0.0	1.8	0.0	2.9	0.0	0.0	0.0	0.0	0.0	1.9	0.1	0.0
0.1	0.1	0.0	0.3	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.5
0.1	0.0	0.0	5.7	0.9	0.0	0.0	0.0	0.0	0.0	0.1	0.0
0.0	0.0	0.0	8.3	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.1
0.0	0.3	0.0	1.3	0.0	1.2	0.0	0.0	0.0	10.4	0.0	0.0
0.0	1.5	0.0	0.0	0.0	2.2	0.0	0.0	0.0	4.1	0.0	0.0
0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.1	26.4	0.1	0.0
0.1	1.1	0.0	0.0	0.0	2.2	0.0	0.0	1.5	1.4	0.1	9.1
0.1	4.8	0.0	1.1	0.0	5.8	0.0	0.0	0.2	0.0	0.1	20.7
15.7	0.6	0.0	5.8	0.0	0.0	0.0	0.0	5.9	0.0	0.0	0.5
5.9	0.1	0.0	0.1	0.0	0.0	0.0	0.0	6.7	0.1	0.0	0.0
18.2	0.0	9.3	0.0	0.0	0.0	0.0	0.0	0.1	8.9	0.1	0.0
10.5	0.0	1.4	0.9	0.0	0.0	0.0	0.0	0.0	18.2	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.1	1.7
4.9	1.5	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	1.2
3.3	2.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.1
2.2	0.1	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	0.1
0.9	1.2	0.4	0.0	0.0	0.0	0.0	1.4	0.0	0.0	0.1	0.0
0.0	0.3	0.8	4.6	0.0	0.0	0.0	0.0	0.0	4.0	0.0	0.7
0.0	0.0	0.0	13.4	0.0	0.0	0.0	0.0	0.0	6.6	0.0	0.0
0.0	0.0	0.1	14.8	0.0	0.0	0.0	0.0	0.0	19.0	0.0	0.0
0.0	0.1	0.0	0.6	0.0	0.0	0.0	0.0	0.0	2.9	0.0	0.7
0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	24.1
3.5	-77.0	0.0	0.0	0.0	0.0	0.0	0.0	7.0	0.1	0.0	1.9
6.7	-77.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.2	0.0	9.1
9.3	-77.0	0.0	-77.0	0.0	-77.0	0.0	0.2	-77.0	4.0	-77.0	0.1
Jan_2016	Feb_2016	Mar_2016	Apr_2016	May_2016	Jun_2016	Jul_2016	Aug_2016	Sep_2016	Oct_2016	Nov_2016	Dec_2016
11.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3
0.1	0.0	0.0	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.8
6.3	0.0	0.0	9.5	0.0	0.0	0.0	0.0	0.0	0.0	0.4	36.0
13.8	0.0	1.8	14.8	0.1	0.0	0.4	0.0	0.0	0.0	1.5	2.7
11.0	0.0	1.6	0.0	18.1	0.0	0.1	0.0	0.0	0.0	12.5	0.0
6.2	9.0	0.4	0.0	5.9	0.0	0.2	0.0	0.0	0.0	0.5	0.0
5.6	0.6	3.2	0.0	29.0	0.0	1.8	0.0	0.0	0.1	0.0	0.1
12.0	0.6	0.0	0.0	16.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.3	3.5	1.0	0.2	8.6	0.0	0.0	0.0	0.0	0.0	3.8	0.0
15.1	14.0	0.0	5.7	15.6	0.2	0.0	0.0	0.0	0.0	0.0	0.0
8.7	4.9	0.0	1.5	14.1	0.0	0.0	0.0	0.0	5.8	0.2	0.0
0.4	19.8	0.0	10.3	9.3	0.0	0.0	0.0	0.0	7.0	5.7	0.1
0.0	12.0	0.0	0.9	1.1	0.0	0.0	0.0	13.5	1.3	0.1	0.1
7.5	13.7	0.0	20.8	0.1	0.1	0.0	0.0	0.4	0.0	0.0	16.6
0.0	8.5	4.8	12.6	0.0	4.1	0.0	0.0	0.6	0.2	0.0	7.5
0.0	0.0	0.0	17.6	0.0	2.1	0.0	0.0	0.0	0.5	0.0	11.6

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

## ANEXO 8 – Necessidades Hídricas das Culturas

### ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.4	5.1	0.1	0.4	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0
0.4	0.5	9.6	0.2	0.0	0.0	0.0	0.0	0.0	0.5	0.3	0.0
10.9	0.0	7.6	9.3	0.0	0.0	0.0	0.2	0.0	0.0	4.7	0.0
2.7	0.0	8.5	2.7	0.0	0.0	0.0	0.0	0.0	0.0	19.2	0.0
10.2	0.7	6.9	4.2	0.0	0.0	0.0	0.0	0.0	0.3	7.5	0.0
1.9	0.0	0.2	0.0	0.9	0.0	0.0	0.0	0.0	14.4	0.3	0.0
0.0	0.0	0.3	0.0	0.2	0.0	0.0	0.0	0.0	4.2	0.1	0.1
0.1	3.6	0.0	0.0	1.0	0.0	0.0	0.1	0.0	8.4	11.5	0.1
17.2	0.4	0.0	0.0	0.1	0.0	0.0	0.0	0.3	1.8	18.9	0.0
0.2	22.9	5.1	0.0	0.0	0.0	0.0	0.5	0.0	0.1	4.3	0.0
0.0	12.3	0.1	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.5	0.0
7.7	0.6	0.3	0.0	9.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.1	0.0
0.0	-77.0	6.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.9	0.0
0.0	-77.0	1.6	-77.0	0.0	-77.0	0.0	0.0	-77.0	0.0	-77.0	0.0
Jan_2017	Feb_2017	Mar_2017	Apr_2017	May_2017	Jun_2017	Jul_2017	Aug_2017	Sep_2017	Oct_2017	Nov_2017	Dec_2017
0.2	2.7	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.2	7.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9	0.0
23.2	4.1	17.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.9	0.1
0.9	4.7	10.0	0.0	1.2	0.0	0.0	0.0	0.3	0.0	6.1	0.0
0.3	1.7	2.8	0.0	14.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.1	0.0	0.6	0.0	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0
0.0	4.6	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9
0.0	7.7	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.6
0.0	4.5	0.0	0.0	22.5	0.0	0.0	0.0	0.0	0.0	0.0	17.4
0.0	3.0	0.0	0.0	12.6	0.0	0.0	0.0	0.0	0.0	0.0	14.7
0.1	11.6	0.0	0.0	7.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	3.4	0.0	0.0	1.9	0.0	0.0	0.0	0.0	0.0	0.1	0.9
0.0	9.5	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	2.2
0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.1	0.0	0.0
0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.1	5.7	0.0	0.0
0.0	0.3	0.0	0.4	0.0	1.3	0.1	0.0	0.0	1.2	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.7	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
0.0	0.0	6.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	7.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.4	0.1
0.0	0.0	9.5	0.0	0.8	0.0	0.0	0.0	0.0	0.0	2.5	1.0
0.8	0.0	4.8	0.0	0.2	0.1	0.0	0.0	0.0	0.0	0.1	6.6
23.3	0.0	22.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	6.3
8.6	1.2	2.3	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.2	10.5
0.8	0.7	0.1	0.0	2.7	1.9	0.0	5.1	0.0	0.0	12.2	4.1

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

1.8	-77.0	0.0	0.1	2.9	0.0	0.0	0.6	0.0	0.0	0.1	1.0
0.1	-77.0	0.0	5.1	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.1
11.6	-77.0	0.4	-77.0	0.0	-77.0	0.3	0.0	-77.0	0.0	-77.0	3.5
Jan_2018	Feb_2018	Mar_2018	Apr_2018	May_2018	Jun_2018	Jul_2018	Aug_2018	Sep_2018	Oct_2018	Nov_2018	Dec_2018
0.2	0.1	21.7	0.0	0.3	0.0	0.2	0.0	0.0	0.0	0.4	0.1
0.1	0.0	12.7	1.7	1.1	0.0	0.4	0.0	0.0	0.0	1.3	0.1
1.6	0.6	11.9	6.2	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0
0.9	2.7	7.6	1.7	0.0	1.5	0.0	0.0	0.0	0.0	13.2	0.1
15.8	0.0	15.1	0.0	0.0	0.9	0.0	0.0	0.8	0.0	6.1	0.1
0.5	0.0	5.6	18.9	0.0	0.8	0.0	0.0	0.0	0.0	2.6	0.1
0.2	0.0	10.2	5.9	1.1	6.7	0.0	0.0	0.1	0.0	6.3	0.2
0.1	0.0	4.3	9.0	0.0	3.1	0.0	0.0	0.0	0.0	6.4	0.1
13.9	3.9	54.1	2.9	0.0	3.5	0.0	0.1	0.0	0.0	0.3	0.1
3.8	0.3	4.7	21.2	0.0	2.5	0.0	0.0	0.0	0.0	7.7	0.1
0.8	1.0	9.5	0.9	0.0	0.1	0.0	0.0	0.0	1.3	54.8	0.0
0.1	1.2	1.3	23.5	0.0	0.1	0.0	0.0	0.0	0.0	0.1	1.9
12.1	0.3	0.9	1.2	0.0	0.0	0.0	0.0	0.0	3.8	0.1	10.9
2.8	0.3	23.3	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.3	0.0
0.1	0.3	6.0	3.9	0.0	0.0	0.1	0.0	0.0	11.4	0.0	0.8
0.1	0.1	6.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.1
0.0	0.6	14.4	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.1	0.1
0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.4	11.8	10.0
0.0	0.0	8.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.9
0.1	0.0	0.1	0.8	3.8	6.6	0.0	0.0	0.0	1.0	6.7	0.3
0.1	0.0	0.0	13.9	0.0	18.7	0.0	0.0	0.0	2.3	5.2	0.1
0.0	0.0	0.0	0.7	0.0	4.1	0.0	0.0	0.0	0.1	2.2	0.1
0.0	0.0	7.4	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.6	0.1
0.1	0.0	4.6	0.0	24.3	0.0	0.0	0.0	0.0	0.6	8.3	0.0
9.0	0.0	6.3	0.0	3.9	0.0	0.0	0.0	0.0	0.0	15.1	0.0
0.8	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	10.5	0.0	0.0	0.0	0.0	0.0	0.1	0.0	1.3	0.0	1.0
0.0	31.0	0.1	7.8	0.0	1.0	0.0	0.0	0.0	0.5	0.1	0.0
0.0	-77.0	5.7	6.6	0.0	1.8	0.0	0.0	0.0	4.5	17.6	0.0
0.0	-77.0	5.0	2.7	0.2	0.5	0.0	0.0	0.0	15.0	0.5	0.0
0.0	-77.0	0.3	-77.0	0.7	-77.0	0.0	0.0	-77.0	10.5	-77.0	0.0
Jan_2019	Feb_2019	Mar_2019	Apr_2019	May_2019	Jun_2019	Jul_2019	Aug_2019	Sep_2019	Oct_2019	Nov_2019	Dec_2019
0.0	10.2	0.0	3.7	0.0	0.0	0.0	0.0	0.0	0.0	1.3	6.6
0.1	1.9	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	7.5	0.0
0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	0.0
0.1	0.0	1.7	4.8	0.0	2.3	0.0	0.0	0.0	0.0	4.4	0.1
0.0	0.0	5.9	12.8	0.0	0.1	0.0	0.0	0.0	0.0	2.1	0.0
0.0	0.0	22.0	6.8	0.0	4.9	0.0	0.0	0.0	0.0	4.4	0.0
0.0	0.0	8.8	5.2	2.4	0.0	0.0	1.4	0.0	0.0	2.9	0.0
0.1	0.0	0.4	2.7	5.0	0.0	0.0	1.4	0.0	0.0	1.0	1.0

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

## ANEXO 8 – Necessidades Hídricas das Culturas

### ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.0	0.0	0.0	3.6	3.5	0.0	0.0	3.2	0.0	0.0	3.4	0.0
0.0	2.0	0.0	1.9	1.8	0.0	0.0	0.2	0.0	0.0	2.0	0.1
0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	2.0
0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	8.7
0.1	0.0	0.1	0.9	0.0	0.0	0.0	0.0	0.0	3.2	2.6	2.9
0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.1	18.6	9.7	0.5
0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	1.6	6.9
0.7	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.5	14.1
0.1	3.9	0.0	13.7	0.0	0.0	0.0	0.0	0.0	13.2	13.3	0.9
5.9	13.8	0.0	2.0	0.0	1.2	0.0	0.0	0.0	0.1	0.1	8.8
7.3	0.0	0.0	3.8	0.0	0.5	0.0	0.0	0.0	8.0	3.9	43.7
0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	1.5	0.5	13.8	40.1
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.8	0.1	3.7	8.0
0.7	0.0	0.0	5.4	0.0	0.0	0.0	0.0	0.5	0.0	28.6	0.0
1.4	0.0	0.0	11.1	0.0	1.0	0.8	0.0	0.0	0.0	2.0	0.1
0.2	0.0	0.0	17.3	0.0	2.7	0.0	0.0	1.5	0.0	3.6	0.0
0.0	0.0	0.0	4.3	0.0	1.0	0.0	0.0	0.1	0.0	4.6	0.1
0.0	0.0	0.0	0.3	0.0	0.8	0.0	0.0	0.0	0.0	18.0	0.1
0.1	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.3	0.0
0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	0.8	0.0
1.9	-77.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.5	0.7	0.0
8.9	-77.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	4.6	3.7	0.0
16.1	-77.0	2.9	-77.0	0.0	-77.0	0.0	0.0	-77.0	3.5	-77.0	0.2
Jan_2020	Feb_2020	Mar_2020	Apr_2020	May_2020	Jun_2020	Jul_2020	Aug_2020	Sep_2020	Oct_2020	Nov_2020	Dec_2020
0.1	2.4	3.4	18.5	0.8	0.0	0.0	0.0	0.0	0.2	0.0	0.0
0.1	0.1	3.0	0.1	0.0	0.0	0.0	0.0	0.0	4.6	0.0	0.1
0.0	0.1	0.8	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.4
0.1	0.1	0.4	0.1	0.2	0.4	0.0	0.0	0.0	1.3	0.4	16.5
0.1	0.1	2.6	19.8	0.2	0.0	0.0	0.0	0.0	0.1	13.5	5.0
0.0	0.0	0.3	20.1	0.0	0.0	0.0	0.0	0.0	0.0	21.0	2.6
0.1	0.0	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	4.5	1.9
0.1	2.1	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	10.0	1.4
0.2	0.0	0.0	8.7	1.8	0.0	0.0	0.0	0.0	0.0	1.3	2.9
0.0	0.0	0.0	0.2	11.5	0.0	0.0	0.0	0.0	0.0	0.2	9.4
0.0	0.1	0.0	0.0	8.4	0.3	0.6	0.0	0.0	0.0	0.1	4.8
0.0	0.0	0.0	2.6	5.2	1.4	0.0	0.1	0.0	0.0	0.0	2.2
0.0	0.6	0.0	2.4	18.2	0.2	0.0	0.0	0.0	0.0	0.0	1.1
7.5	0.1	0.0	7.6	5.8	0.0	0.0	0.0	0.0	0.0	2.1	8.2
10.9	0.0	0.1	4.6	3.6	0.0	0.0	0.0	0.0	0.0	0.0	3.6
10.4	0.1	0.2	20.1	0.0	0.4	0.0	0.1	0.1	0.0	0.0	9.2
1.5	2.2	0.0	5.5	0.0	0.0	0.0	0.0	2.5	0.0	0.1	2.1
18.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	19.4	0.0	0.1	2.3
0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	48.9	0.0	14.4
0.0	0.0	18.1	13.5	0.0	0.0	0.1	4.0	0.7	38.6	0.0	0.1

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

### ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.0	0.0	1.2	0.3	0.0	0.0	5.0	0.0	0.0	9.2	0.0	0.1
2.3	0.0	0.1	0.0	0.0	0.0	0.0	0.0	3.4	2.0	0.0	0.0
3.9	0.0	2.4	0.0	0.0	0.0	0.0	0.0	4.4	0.4	0.0	0.7
3.7	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.9	2.2	0.0
0.7	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.4	26.3	0.0
0.1	0.0	0.0	2.1	0.0	0.0	0.0	0.0	0.0	0.6	5.6	0.0
4.5	0.0	0.0	0.8	0.0	0.2	0.0	0.0	0.4	0.1	0.0	0.1
1.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	2.3	7.1	4.4
0.3	2.1	0.0	2.4	0.0	0.0	0.0	0.0	0.0	0.0	6.3	4.6
3.1	-77.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2
6.9	-77.0	0.9	-77.0	0.0	-77.0	0.0	0.0	-77.0	0.0	-77.0	4.5

#### 2.1.5 SORRAIA

Tabela 5. Precipitações diárias na região de cálculo de Sorraia (mm)

Jan_2003	Fev_2003	Mar_2003	Abr_2003	Mai_2003	Jun_2003	Jul_2003	Ago_2003	Set_2003	Out_2003	Nov_2003	Dez_2003
16.7	0.0	1.3	0.0	0.0	0.0	0.0	0.1	0.1	16.6	1.1	5.8
11.0	0.0	0.4	0.0	0.0	0.0	0.0	0.6	0.0	15.0	0.0	0.0
0.1	0.0	0.1	0.0	0.0	0.2	0.0	0.0	0.0	0.4	0.0	3.1
1.5	0.0	0.4	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
7.0	0.0	1.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	5.1
1.9	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	7.8
10.3	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	3.7
7.4	0.5	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.1	8.4
7.4	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	24.2	12.6
0.0	0.0	0.0	1.5	0.0	0.0	0.1	0.0	0.0	0.1	1.8	0.0
0.0	2.0	0.0	1.7	0.0	0.0	0.1	0.0	0.0	9.4	0.2	0.1
0.0	0.1	0.0	19.6	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.1
0.0	0.1	0.0	19.5	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.2
0.0	0.1	0.0	20.4	0.0	0.0	0.1	0.0	0.0	0.1	0.4	0.1
0.0	0.0	0.0	3.0	0.0	0.0	2.1	0.0	0.0	5.5	26.6	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.1
0.1	0.6	11.8	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	10.4
8.9	23.0	2.2	0.5	0.0	0.0	0.0	0.0	0.0	7.9	0.0	4.6
1.3	10.3	0.8	0.0	0.0	0.0	0.0	0.0	0.1	2.9	0.0	0.1
9.6	3.5	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.1
1.0	6.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	10.4	0.0
4.4	8.6	0.0	6.7	0.0	0.0	0.0	0.0	0.0	0.0	9.9	0.0
0.2	0.1	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	1.2	0.0
0.1	5.0	7.4	0.0	0.0	0.0	0.0	0.0	0.0	10.4	1.8	0.0
0.0	11.4	8.2	12.5	0.0	0.0	0.0	0.0	0.0	26.5	0.8	0.0
0.0	9.8	7.2	0.3	0.0	0.0	0.0	0.0	0.0	13.5	4.9	0.0
0.0	1.7	11.5	0.0	0.1	0.0	0.0	1.4	0.0	22.2	0.2	0.0

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.0	0.0	1.0	2.7	0.0	0.2	0.0	6.2	0.1	5.8	0.1	1.7
0.0	-77.0	17.3	1.9	0.2	1.9	0.0	0.3	0.1	1.8	0.3	0.1
0.0	-77.0	3.7	0.4	1.0	0.1	0.0	0.0	17.5	1.3	4.3	0.0
0.0	-77.0	0.1	-77.0	0.0	-77.0	0.0	7.1	-77.0	23.4	-77.0	0.3
Jan_2004	Feb_2004	Mar_2004	Apr_2004	May_2004	Jun_2004	Jul_2004	Aug_2004	Sep_2004	Oct_2004	Nov_2004	Dec_2004
0.0	2.9	0.2	6.0	2.0	0.1	0.0	0.0	0.0	0.2	0.5	17.0
0.0	7.5	0.0	1.5	0.1	0.0	0.0	0.0	15.2	0.0	11.7	1.4
0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.3	1.2	0.0	3.3	0.1
0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1	5.3	0.0	0.3	0.0
0.0	0.1	0.2	0.0	1.1	0.0	0.0	0.0	0.1	0.0	0.1	0.0
0.1	0.1	0.1	0.0	0.6	0.0	0.0	0.1	0.0	0.0	0.0	0.0
0.0	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.9	0.1	0.0	0.0	0.0	0.0	0.0	5.3	0.6	2.0	0.0	0.1
0.6	0.2	0.1	0.0	2.7	0.0	0.1	0.1	0.1	2.3	0.1	0.1
0.0	0.1	1.6	0.0	0.3	0.0	0.0	0.3	0.0	0.8	0.0	0.1
0.0	0.0	0.8	0.0	0.1	0.0	0.0	0.4	0.0	0.0	0.0	0.0
0.0	0.1	11.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2
0.0	0.1	0.1	0.1	0.0	0.0	0.1	0.0	0.0	0.1	0.0	1.7
1.2	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.4	0.0	0.1
7.9	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.1	0.0
0.1	0.1	0.0	0.1	0.0	0.0	0.0	0.3	0.0	0.1	0.0	0.0
0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.1	0.1	0.0	0.1
0.0	0.0	0.0	0.6	0.2	0.0	0.0	1.6	0.0	7.9	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	38.5	0.1	0.5
0.0	0.2	0.0	0.0	3.6	0.0	0.1	0.0	0.0	4.5	0.1	0.0
0.1	1.4	0.0	11.3	1.7	0.0	0.0	0.0	0.0	1.4	0.0	0.0
0.1	15.6	0.0	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.1	6.1	0.2	0.0	7.6	0.0	0.0	0.0	0.0	0.0	0.1	0.0
0.0	0.5	0.0	0.0	0.6	0.0	0.0	0.0	0.0	21.1	0.0	0.0
0.1	12.6	0.0	0.0	0.1	0.0	0.0	0.0	0.0	7.1	0.0	0.5
3.2	0.5	0.3	0.0	0.0	0.0	0.0	0.0	0.0	1.8	0.2	0.5
19.0	0.5	11.7	0.0	0.0	0.0	0.1	0.0	0.0	22.2	1.3	0.0
0.2	1.1	1.9	0.0	0.1	0.0	0.0	0.0	0.0	9.9	4.3	0.2
9.3	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	8.1	0.1	0.0
10.5	-77.0	0.7	1.2	0.0	0.0	0.1	0.0	0.0	2.6	4.3	0.0
9.3	-77.0	9.4	-77.0	0.0	-77.0	0.0	0.0	-77.0	1.4	-77.0	0.0
Jan_2005	Feb_2005	Mar_2005	Apr_2005	May_2005	Jun_2005	Jul_2005	Aug_2005	Sep_2005	Oct_2005	Nov_2005	Dec_2005
0.1	0.0	0.1	2.7	0.2	0.1	0.1	0.1	0.0	0.0	0.2	13.5
0.1	0.0	0.0	10.2	0.0	0.0	0.0	0.0	0.0	0.0	6.5	7.5
0.0	0.0	0.0	1.3	0.1	0.0	0.0	0.0	0.0	0.0	26.4	0.3
0.2	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2
0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	1.0
0.1	0.8	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.2
0.1	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.1	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	3.4	0.0
0.1	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.5	4.5	0.1	0.0
0.0	0.0	0.0	0.0	3.0	0.0	0.0	0.3	0.1	6.3	0.0	0.0
0.1	0.0	0.0	0.0	6.6	0.0	0.0	0.0	0.0	7.7	0.0	0.0
0.0	0.0	0.0	0.0	8.2	0.0	0.0	0.0	0.0	8.7	1.1	0.1
0.1	0.1	0.1	0.0	0.4	0.0	0.0	0.0	0.0	0.7	2.7	0.0
0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
0.0	0.1	0.2	0.1	0.0	0.0	0.0	0.0	0.7	0.0	0.1	0.0
0.1	0.0	0.0	0.0	4.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0
0.1	0.0	0.0	0.2	0.1	0.1	0.0	0.0	0.0	4.2	0.0	0.1
0.0	0.0	0.1	1.0	0.0	0.0	0.0	0.0	0.0	0.1	1.5	0.1
0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	14.6	0.0
0.0	0.0	1.0	0.0	0.1	0.0	0.0	0.0	0.0	4.3	29.2	0.1
0.1	0.0	7.5	0.0	0.0	0.0	0.0	0.0	0.0	6.4	3.2	0.0
0.0	0.7	0.3	0.0	0.0	0.0	0.1	0.0	0.0	8.1	1.3	0.0
0.1	0.1	0.7	1.5	0.0	0.0	0.0	0.0	0.2	0.1	0.0	0.0
0.1	0.2	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
0.0	0.0	20.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	7.7
0.0	0.0	4.3	0.2	0.0	0.0	1.9	0.0	0.0	0.1	4.2	7.1
0.0	1.9	2.0	0.0	0.3	0.0	3.6	0.0	0.0	52.6	1.2	1.4
0.1	0.0	8.1	0.1	0.0	0.0	0.0	0.0	0.0	7.2	0.6	0.1
0.0	-77.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	3.1	0.1	0.0
0.0	-77.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	22.1	1.1	0.6
0.0	-77.0	0.0	-77.0	0.9	-77.0	0.0	0.0	-77.0	5.2	-77.0	1.2
Jan_2006	Feb_2006	Mar_2006	Apr_2006	May_2006	Jun_2006	Jul_2006	Aug_2006	Sep_2006	Oct_2006	Nov_2006	Dec_2006
0.8	1.2	0.0	0.1	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.1
0.0	4.7	0.0	0.0	0.1	0.0	0.0	0.0	0.0	5.3	9.9	13.0
0.1	4.9	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.5	0.4
0.1	0.2	23.7	2.6	0.0	0.0	0.1	0.1	0.0	0.8	21.2	2.4
0.8	0.2	0.0	8.8	0.0	0.0	0.0	0.0	0.1	0.0	8.9	8.1
2.9	0.1	0.0	3.1	0.0	0.2	0.0	0.0	0.0	0.0	8.5	1.1
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	5.7
0.1	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.3
0.1	0.0	0.2	0.1	0.0	0.1	0.0	0.0	0.5	0.0	0.0	1.1
0.1	1.9	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0
0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	2.2	0.0	0.0
0.1	0.1	0.1	0.1	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0
1.5	0.0	0.0	0.1	0.0	1.9	0.0	0.0	3.8	0.0	0.1	0.0
0.6	0.0	0.0	3.2	0.0	18.2	0.1	0.0	0.1	0.0	0.1	0.0
18.7	0.0	0.1	11.7	0.0	9.3	0.0	0.0	1.1	0.0	31.5	0.0
0.4	1.0	0.1	1.8	0.0	6.9	0.0	1.9	0.0	20.9	6.8	0.0
0.1	0.5	23.0	0.0	0.1	0.1	0.0	1.9	0.0	6.0	7.5	0.0
0.2	10.3	10.9	0.1	0.1	0.0	0.4	6.8	0.0	20.8	1.9	0.1
0.0	9.0	6.3	0.0	0.1	0.0	0.0	0.0	0.0	5.8	0.1	0.0



Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.0	5.2	6.4	1.1	0.0	0.1	0.0	0.0	0.0	32.9	0.2	0.0
0.0	0.1	1.7	2.9	0.3	0.0	0.1	0.0	27.7	0.3	0.3	0.0
0.0	0.0	5.4	11.9	0.0	0.0	0.0	0.0	7.0	29.6	0.6	0.0
0.1	1.2	17.1	0.0	0.1	0.2	0.0	0.0	12.9	15.7	13.4	0.0
0.2	2.6	1.1	0.0	0.0	0.0	0.0	0.0	0.5	18.7	57.2	0.0
0.0	12.6	0.0	0.0	0.0	0.0	0.0	0.0	0.3	46.9	2.8	0.0
0.0	1.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1	17.1	0.4	0.0
0.0	0.0	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.1	22.4	0.0
4.9	0.0	0.1	0.0	0.0	0.0	0.2	0.0	0.0	0.0	10.7	0.0
15.1	-77.0	0.0	0.0	0.1	0.0	0.0	0.0	0.5	0.0	0.0	0.0
0.0	-77.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	0.0	0.0	1.1
0.1	-77.0	0.0	-77.0	0.0	-77.0	0.0	0.0	-77.0	0.1	-77.0	0.1
Jan_2007	Feb_2007	Mar_2007	Apr_2007	May_2007	Jun_2007	Jul_2007	Aug_2007	Sep_2007	Oct_2007	Nov_2007	Dec_2007
0.3	0.0	0.2	0.1	13.1	0.0	0.0	0.0	0.0	1.4	0.0	0.0
0.1	0.0	0.0	1.9	10.3	0.0	0.0	0.0	0.0	1.1	0.1	0.1
0.1	0.1	0.0	2.0	2.1	0.0	0.0	0.0	0.0	1.5	0.0	0.1
0.1	0.1	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.2
0.2	0.1	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.2
0.1	0.1	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0
0.5	10.6	0.5	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
0.0	16.3	0.0	4.7	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1
0.1	1.5	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1
0.6	0.4	0.0	3.6	0.0	0.2	0.1	0.0	3.1	0.0	0.1	0.0
0.1	2.0	0.0	3.2	0.0	0.0	0.0	0.0	8.3	0.0	0.0	0.1
0.0	5.0	0.0	0.0	0.1	0.0	0.0	0.0	3.9	0.0	0.0	0.1
0.0	1.4	0.0	0.0	0.5	1.4	0.0	0.0	0.0	0.2	0.0	0.1
0.1	3.8	0.0	0.0	0.0	12.9	0.0	0.0	0.2	0.0	0.0	0.1
0.1	0.1	0.0	0.1	0.0	1.7	0.2	1.2	0.0	1.2	0.0	0.1
0.3	7.0	0.0	0.1	0.0	14.7	0.2	0.0	0.6	0.2	0.1	0.1
0.0	2.7	0.0	0.0	0.0	5.9	0.0	0.0	0.0	0.0	0.0	0.1
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	1.7
0.1	9.2	0.0	1.6	0.0	4.2	0.0	0.0	0.1	0.0	26.5	13.0
0.0	1.1	0.1	6.4	0.6	0.0	0.0	0.0	3.0	0.1	20.1	1.0
0.1	1.2	0.0	0.2	0.0	0.0	0.0	0.0	0.9	0.0	0.4	0.2
4.4	5.0	0.0	0.0	2.5	0.1	0.0	0.0	0.0	0.0	1.4	0.0
1.7	0.3	0.1	0.0	1.4	0.0	0.8	0.0	0.0	0.2	0.2	0.0
0.1	0.2	0.0	0.0	2.1	0.0	0.0	0.2	0.0	1.0	0.0	0.1
1.4	9.1	0.5	3.5	2.2	0.0	0.0	1.3	0.0	0.0	0.0	1.8
0.0	0.1	0.3	1.5	0.4	0.0	0.0	0.2	0.0	0.1	0.0	0.2
0.0	0.0	0.0	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.1
4.7	1.8	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
3.2	-77.0	0.0	0.1	0.0	0.0	0.0	0.0	15.5	0.0	0.0	0.1
7.7	-77.0	0.5	1.5	0.0	0.1	0.0	0.0	37.0	0.0	0.4	0.1
0.1	-77.0	3.3	-77.0	0.0	-77.0	0.0	0.1	-77.0	0.2	-77.0	0.1

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

Jan_2008	Feb_2008	Mar_2008	Apr_2008	May_2008	Jun_2008	Jul_2008	Aug_2008	Sep_2008	Oct_2008	Nov_2008	Dec_2008
17.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2
5.2	0.4	0.0	0.1	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.1
21.8	6.5	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1	3.1
3.9	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.4	1.3
1.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	3.5	0.0	0.4	1.2
0.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	2.1
0.1	0.0	0.0	13.3	0.4	0.0	0.0	0.0	0.0	9.7	0.3	6.2
0.0	0.0	0.0	10.8	0.0	0.0	0.0	0.0	0.0	0.2	0.1	0.4
0.7	0.0	0.1	10.9	0.9	0.0	0.0	0.0	0.1	0.0	0.0	0.2
0.3	0.0	2.4	14.4	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.2	0.0	0.2	7.1	0.7	0.1	0.0	0.0	0.0	2.8	1.4	1.2
0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.3	0.1	13.8	0.0	3.1
10.0	0.0	0.0	1.0	0.1	0.0	0.0	0.2	0.0	4.7	0.0	6.3
0.8	0.0	0.0	0.3	1.9	0.0	0.0	0.0	0.0	0.0	0.1	3.1
1.3	0.0	0.0	0.9	14.4	0.3	0.0	0.0	0.0	0.1	0.0	0.3
1.1	0.0	0.0	4.4	2.4	1.3	0.0	0.1	0.0	0.1	0.0	0.1
0.0	8.1	2.7	16.8	0.0	0.1	0.0	0.1	0.1	0.1	0.0	0.0
0.2	50.7	1.2	10.3	1.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0
0.2	2.2	21.8	23.8	0.3	0.0	0.0	0.0	0.0	0.1	0.0	0.2
0.1	0.2	0.4	8.9	2.0	0.0	0.0	0.1	0.4	0.0	0.0	0.1
0.0	4.3	0.0	2.5	0.1	0.0	0.0	0.0	2.0	1.7	0.1	0.0
0.1	0.2	1.2	0.0	6.6	0.0	0.0	0.1	0.1	0.2	0.0	0.0
0.1	4.1	0.0	0.0	11.6	0.0	0.0	0.3	0.0	0.0	0.1	0.0
0.0	2.9	0.0	0.0	4.1	0.0	0.0	0.0	0.1	0.1	0.3	0.0
0.2	0.1	0.0	0.0	4.5	0.0	0.1	0.0	0.0	0.0	0.2	0.0
0.0	0.1	0.0	0.0	6.6	0.0	0.0	0.0	0.1	0.0	0.1	0.1
0.0	0.0	0.0	0.0	5.9	0.0	0.0	0.2	0.0	0.5	0.0	17.1
0.0	2.0	0.0	0.0	2.6	0.0	0.0	0.0	1.1	0.0	6.8	1.0
0.2	0.1	0.1	0.0	4.5	0.0	0.0	0.0	0.2	0.0	12.3	1.5
0.1	-77.0	0.4	0.1	1.7	0.0	0.0	0.0	0.1	2.8	3.7	1.9
0.1	-77.0	0.0	-77.0	0.1	-77.0	0.0	0.4	-77.0	7.0	-77.0	11.3
Jan_2009	Feb_2009	Mar_2009	Apr_2009	May_2009	Jun_2009	Jul_2009	Aug_2009	Sep_2009	Oct_2009	Nov_2009	Dec_2009
15.1	20.0	1.4	0.0	0.0	0.1	0.0	0.4	0.0	0.0	2.0	0.4
6.8	2.6	0.3	0.0	0.0	0.0	0.0	0.0	0.2	0.1	0.4	6.4
2.4	5.5	0.6	0.1	0.0	0.2	0.0	0.0	0.0	0.0	0.1	1.0
0.0	8.9	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.0
0.0	5.5	1.1	0.0	0.0	9.2	0.0	0.0	0.0	1.0	0.4	0.5
0.2	2.4	0.3	0.1	0.0	3.3	0.0	0.0	0.0	4.3	0.7	3.2
0.1	0.1	0.0	0.0	0.0	0.3	0.0	0.1	0.0	4.8	0.2	3.4
0.0	0.5	0.0	0.2	0.0	3.7	0.0	0.0	0.2	0.5	0.5	0.0
0.1	2.4	0.0	0.2	2.1	0.3	0.0	0.0	0.2	0.1	0.0	2.4
0.1	0.8	0.0	0.4	1.9	0.0	0.0	0.0	0.1	0.0	0.1	0.0
0.0	0.0	0.1	0.3	2.9	0.0	0.0	0.0	0.1	0.0	0.1	0.1

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.1	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.1	0.0	0.0	0.1
4.1	0.2	0.1	0.1	0.2	0.0	0.0	0.0	0.6	0.0	0.8	0.0
0.1	0.0	0.0	3.9	0.0	0.1	0.0	0.2	0.0	0.2	9.6	0.2
8.1	0.0	0.0	6.6	0.1	2.3	0.0	0.0	0.1	0.0	4.4	1.2
0.6	0.0	0.0	4.2	0.1	0.2	0.0	0.0	0.1	0.0	9.9	5.0
0.2	0.2	0.1	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.4
0.3	0.0	0.0	7.7	0.0	0.0	0.0	0.0	0.9	0.0	0.0	8.3
3.6	0.1	0.0	0.3	0.0	0.1	0.0	0.2	0.1	0.0	0.0	0.0
5.9	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	11.9	0.2	15.9
0.1	0.1	0.3	0.0	0.0	0.0	0.0	0.3	0.0	7.1	7.4	11.2
4.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	3.4	0.1	8.4
3.5	0.0	0.0	0.0	2.9	0.1	0.2	0.0	0.1	0.3	0.0	12.1
0.5	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.1	0.0	0.2	6.4
7.5	0.1	0.1	2.0	0.0	0.0	0.0	0.2	0.1	0.0	11.6	10.5
1.9	0.0	0.0	0.5	0.1	0.0	0.0	0.0	0.0	0.1	0.4	3.3
0.2	0.0	0.0	0.2	0.0	0.1	0.0	0.0	0.0	0.0	0.5	3.3
1.3	1.3	0.2	0.2	0.0	6.9	0.0	0.0	0.1	0.2	0.2	29.1
1.1	-77.0	0.1	0.0	0.1	0.6	0.1	0.0	0.2	0.0	7.2	14.2
14.0	-77.0	0.0	0.5	0.0	0.0	0.0	0.0	0.1	0.2	0.7	10.4
5.5	-77.0	0.0	-77.0	0.0	-77.0	0.2	0.0	-77.0	0.5	-77.0	6.8
Jan_2010	Feb_2010	Mar_2010	Apr_2010	May_2010	Jun_2010	Jul_2010	Aug_2010	Sep_2010	Oct_2010	Nov_2010	Dec_2010
0.8	0.0	0.6	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.2	2.9
0.1	0.1	6.4	0.0	0.0	0.2	0.2	0.0	0.0	0.0	0.0	0.8
12.9	1.7	11.9	0.5	0.0	0.0	0.0	0.1	0.0	11.4	0.3	1.3
15.1	5.5	0.1	0.0	0.2	0.0	0.0	0.0	0.0	0.4	0.0	0.2
0.2	0.3	17.7	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.1	15.8
1.8	0.0	19.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	4.7
0.2	2.6	1.7	0.0	0.3	0.0	0.0	0.0	0.2	2.5	0.0	3.7
0.1	6.4	18.8	0.0	8.5	2.7	0.0	0.1	0.0	19.2	0.7	7.2
0.1	1.9	2.4	0.0	6.2	5.8	0.0	0.0	0.0	9.9	4.5	5.2
7.4	4.4	0.0	0.0	0.0	0.6	0.0	0.0	0.0	1.3	0.4	0.0
2.8	0.5	0.0	0.0	0.6	0.1	0.0	0.0	0.0	0.0	0.0	0.0
15.7	2.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.2	1.1
10.0	0.1	0.0	7.8	0.2	0.0	0.0	0.0	0.0	0.0	0.1	0.1
2.4	3.6	0.1	12.0	0.1	0.0	0.0	0.0	0.0	0.0	14.1	0.1
3.9	9.1	0.2	15.7	0.2	0.2	0.0	0.0	0.1	0.0	1.4	0.0
2.7	5.6	0.3	6.4	0.0	0.0	0.1	0.0	0.6	0.0	0.1	0.0
0.0	2.1	0.0	4.1	0.0	0.0	0.0	0.0	0.1	0.0	5.0	0.2
0.3	0.7	0.0	8.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	1.9
0.5	0.2	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6	0.1
0.8	4.9	0.9	0.1	0.0	0.0	0.0	0.0	0.1	0.0	12.3	14.3
0.0	7.3	1.4	1.8	0.0	0.0	0.0	0.0	0.1	0.0	0.4	10.3
0.1	7.9	0.6	3.8	0.0	0.0	0.0	0.0	0.0	0.0	1.8	7.4
1.0	8.6	0.9	0.2	0.0	0.5	0.1	0.0	0.6	0.0	9.3	0.7

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.0	0.2	3.5	0.0	0.3	0.0	0.0	0.0	0.1	0.0	2.8	0.6
0.0	4.2	3.5	0.0	1.1	0.0	0.0	0.0	0.0	0.1	0.0	4.8
0.2	2.4	0.8	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.1	0.0
0.1	6.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	7.1	0.0	0.0	0.1	0.0	0.0	0.0	0.1	1.0	0.1	0.0
0.2	-77.0	1.6	0.0	0.1	0.0	0.0	0.0	0.0	13.5	3.0	5.3
0.0	-77.0	0.3	0.1	0.0	0.4	0.0	0.0	0.0	22.3	5.3	13.0
0.0	-77.0	0.1	-77.0	0.0	-77.0	0.0	0.0	-77.0	3.5	-77.0	8.3
Jan_2011	Feb_2011	Mar_2011	Apr_2011	May_2011	Jun_2011	Jul_2011	Aug_2011	Sep_2011	Oct_2011	Nov_2011	Dec_2011
0.2	0.0	0.0	0.0	2.0	0.1	0.2	0.9	13.2	0.0	2.2	0.1
0.1	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.1	0.0	18.0	0.9
0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.0	7.7	0.0
0.8	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.5	0.0	4.8	0.0
9.1	0.0	2.7	0.1	0.0	0.2	0.1	0.0	0.0	0.0	2.4	0.1
28.9	0.0	1.3	0.0	2.0	0.2	0.0	0.0	0.0	0.0	0.1	0.1
4.1	0.0	2.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.4	0.1
8.7	0.1	4.3	0.0	0.0	0.0	0.0	0.0	0.1	0.0	4.2	0.1
1.5	1.7	0.4	0.0	0.0	0.4	0.0	0.0	0.1	0.0	24.8	0.8
2.2	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	4.1
1.0	0.9	6.9	0.0	0.0	0.0	0.0	0.0	0.1	0.0	3.7	0.5
0.0	0.1	2.4	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.7
0.1	15.1	12.6	0.0	0.0	0.0	0.0	0.0	0.1	0.0	8.7	1.5
0.1	12.1	12.6	0.1	0.0	0.0	0.0	0.0	0.0	0.0	20.6	3.8
0.1	11.2	0.1	0.1	0.0	0.0	0.1	0.0	0.0	0.0	3.2	0.1
0.0	13.4	0.0	0.0	13.3	0.0	0.0	0.0	0.0	0.0	0.2	0.7
0.0	1.1	0.0	0.0	12.3	0.1	0.0	0.0	0.0	0.0	0.3	0.1
0.0	4.1	0.0	17.6	29.1	0.0	0.0	0.0	0.0	0.0	9.4	0.1
0.0	34.4	0.0	13.3	0.5	0.0	0.0	0.0	0.0	0.0	1.9	0.0
0.0	0.7	0.0	10.3	0.0	0.0	0.0	0.6	0.0	0.0	0.2	0.1
0.0	0.1	0.0	16.7	0.0	0.0	0.0	0.0	0.1	0.0	0.2	0.2
0.0	0.0	0.1	6.6	0.0	0.0	0.0	0.0	0.0	0.0	12.9	0.2
0.5	0.0	0.2	2.6	0.0	0.0	0.0	0.0	0.0	32.6	0.1	0.2
1.9	0.1	0.9	0.0	0.1	0.1	0.0	0.0	0.0	7.9	0.1	0.0
0.2	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.1	7.9	0.1	0.1
0.0	0.1	2.7	0.1	1.3	0.0	0.0	0.1	0.1	23.8	0.0	0.0
7.2	0.0	1.1	0.3	1.2	0.0	0.0	0.0	0.1	10.3	0.1	0.0
5.2	0.0	2.7	0.2	19.3	0.0	0.0	0.0	0.0	0.1	0.0	0.0
1.3	-77.0	0.1	10.0	0.5	0.0	0.1	0.1	0.0	0.1	0.2	0.0
0.2	-77.0	0.0	4.4	10.9	0.0	0.0	0.2	0.1	0.1	0.2	0.1
0.1	-77.0	0.0	-77.0	0.2	-77.0	0.0	7.3	-77.0	0.3	-77.0	0.0
Jan_2012	Feb_2012	Mar_2012	Apr_2012	May_2012	Jun_2012	Jul_2012	Aug_2012	Sep_2012	Oct_2012	Nov_2012	Dec_2012
0.2	0.6	0.9	11.4	1.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5
1.0	0.1	0.0	4.4	4.0	0.1	0.0	0.0	0.0	0.0	3.8	0.0
0.0	0.0	0.1	0.0	8.1	0.1	0.0	0.0	0.0	0.0	10.2	0.0

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

## ANEXO 8 – Necessidades Hídricas das Culturas

### ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.0	0.0	0.0	0.0	2.9	0.0	0.0	0.0	0.0	0.0	21.9	0.7
0.1	0.0	0.0	2.2	1.5	0.0	0.0	0.0	0.0	0.0	0.0	1.6
0.2	0.0	0.0	5.8	0.1	0.1	0.0	0.0	0.0	0.0	0.0	18.5
0.0	0.0	0.0	0.0	11.7	0.1	0.0	0.0	0.0	0.0	12.6	6.4
0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	2.5	0.2
0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.1
0.1	0.0	0.0	1.5	0.0	0.2	0.0	0.0	0.0	0.0	2.1	0.0
0.0	0.1	0.0	0.0	0.1	0.5	0.0	0.0	0.0	1.1	1.0	0.0
0.1	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
0.0	0.0	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
2.0	0.0	0.0	3.6	0.0	0.1	0.0	0.3	0.0	1.3	0.5	23.2
6.9	0.0	0.6	1.0	0.0	0.1	0.0	4.2	0.0	0.0	7.0	1.0
0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5	2.3
0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	10.7	24.3	2.5
0.0	0.0	0.0	1.6	2.9	0.0	0.0	0.0	0.0	14.1	0.0	0.1
0.0	0.0	0.0	1.6	8.3	0.0	0.0	0.0	0.0	0.3	0.2	0.2
0.0	0.0	0.0	0.0	5.3	0.1	0.0	0.0	0.0	0.0	3.5	2.0
0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.2	0.3	0.1
0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0
0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.3	0.0	0.0	0.1
0.1	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.6	13.7	13.7	0.7
0.0	0.0	0.0	9.2	0.0	0.0	0.0	0.3	7.5	13.6	8.7	1.3
0.3	0.0	0.0	2.6	0.0	0.0	0.0	0.0	3.1	3.6	2.1	0.0
0.0	0.0	0.0	2.9	0.0	0.0	0.0	0.0	2.6	0.0	0.1	0.0
0.0	0.1	0.0	3.7	0.0	0.0	0.0	0.0	1.6	0.0	0.2	0.1
0.0	0.1	0.0	2.8	0.0	0.0	0.0	0.0	0.0	2.6	1.6	2.7
0.0	-77.0	10.4	0.2	0.0	0.2	0.0	0.0	0.0	13.6	7.2	0.7
0.0	-77.0	5.0	-77.0	0.0	-77.0	0.0	0.0	-77.0	0.0	-77.0	7.2
Jan_2013	Feb_2013	Mar_2013	Apr_2013	May_2013	Jun_2013	Jul_2013	Aug_2013	Sep_2013	Oct_2013	Nov_2013	Dec_2013
0.1	0.2	0.0	2.0	0.0	0.0	0.0	0.0	0.0	8.7	0.0	0.0
0.1	0.3	0.0	2.6	0.0	0.0	0.0	0.0	0.0	3.2	0.0	0.0
0.0	0.0	0.1	10.5	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0
0.0	0.0	12.6	7.7	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0
0.0	0.0	15.1	0.6	0.0	0.2	0.0	0.0	0.2	0.1	0.4	0.0
0.0	0.1	3.7	0.1	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	16.4	0.4	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.1
0.0	0.0	13.0	0.2	0.0	0.5	0.0	0.0	0.0	0.0	3.0	0.0
2.5	0.0	7.2	1.7	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.1
0.9	1.4	6.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
1.4	1.5	6.0	1.4	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1
0.9	0.9	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.1	0.0	0.1	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	2.6
0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.1	0.0	0.0	0.0	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

## ANEXO 8 – Necessidades Hídricas das Culturas

### ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

4.8	0.1	0.7	0.0	1.5	0.0	0.0	0.0	0.0	0.1	0.0	0.0
0.6	5.2	11.3	0.0	4.0	0.4	0.0	0.0	0.0	0.1	0.0	0.4
6.9	0.2	0.0	0.0	0.7	1.2	0.0	0.0	0.0	7.2	0.0	0.5
42.8	3.4	6.3	0.0	0.8	0.1	0.0	0.0	0.0	0.8	0.0	10.5
9.1	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.5	0.0	0.0
1.0	7.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0	4.5	0.1	0.0
9.8	8.7	10.1	0.0	0.0	0.0	0.0	0.0	0.0	17.1	4.9	0.1
3.0	0.3	5.1	0.0	0.0	0.0	0.0	0.0	0.0	37.2	0.2	1.7
1.0	0.0	2.8	0.0	0.0	0.0	0.0	0.0	0.0	34.2	0.0	31.8
8.2	0.0	1.5	0.1	0.0	0.0	0.0	0.0	0.1	5.7	0.0	9.0
0.0	0.0	9.9	0.0	0.0	0.0	0.0	0.0	1.8	0.2	0.1	3.9
2.6	0.5	4.9	0.0	0.0	0.0	0.0	0.0	28.1	0.1	0.0	8.5
0.0	2.1	2.2	0.0	0.2	0.0	0.2	0.0	5.2	1.0	0.0	0.5
0.0	-77.0	3.3	0.5	0.2	0.0	0.0	0.0	5.6	0.0	0.0	0.2
0.0	-77.0	0.6	0.0	0.0	0.0	0.0	0.0	8.0	0.0	0.0	0.4
0.1	-77.0	27.1	-77.0	0.0	-77.0	0.0	0.0	-77.0	0.0	-77.0	9.5
Jan_2014	Feb_2014	Mar_2014	Apr_2014	May_2014	Jun_2014	Jul_2014	Aug_2014	Sep_2014	Oct_2014	Nov_2014	Dec_2014
4.3	1.6	3.0	23.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1
7.2	0.1	2.4	4.4	0.0	0.0	0.4	0.3	0.0	0.0	0.0	0.0
5.8	3.9	0.1	3.5	0.0	0.0	1.3	0.1	0.0	0.0	14.3	0.4
9.3	14.2	0.0	7.5	0.0	0.0	0.0	0.0	0.0	0.0	2.9	0.2
0.0	0.8	0.2	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
6.6	6.8	0.0	0.0	0.0	8.0	3.1	0.0	12.3	0.2	0.1	0.0
13.8	2.4	0.1	0.0	0.0	0.1	0.0	0.0	7.8	1.5	3.7	0.0
2.8	7.5	0.0	0.0	0.0	0.0	0.0	0.0	1.5	6.9	4.6	0.0
0.0	25.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.5	0.8	0.1
0.0	9.7	0.0	0.0	0.0	0.0	0.0	0.0	14.6	0.2	16.2	0.0
0.0	18.1	0.0	0.0	0.0	0.0	0.0	0.0	4.3	3.1	8.2	0.1
3.6	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.3	2.1	0.4
1.0	7.1	0.3	0.0	0.0	0.0	0.0	0.0	0.0	17.0	24.7	15.8
2.4	8.8	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.2	8.7	5.6
2.5	1.7	0.0	0.0	0.0	0.0	0.0	0.0	5.2	3.0	2.2	0.0
2.8	0.1	0.0	0.0	0.1	0.0	0.0	0.0	25.0	0.1	0.2	0.1
20.5	1.4	0.0	0.0	0.0	0.0	0.0	0.0	7.4	0.0	0.0	0.0
12.9	0.1	0.0	0.0	0.0	0.0	0.1	0.0	3.6	0.0	5.8	0.1
7.7	0.0	0.1	0.0	0.7	0.0	2.2	0.0	1.1	0.0	34.5	0.1
0.8	3.0	0.0	8.3	10.2	0.0	0.1	0.0	2.5	0.0	6.4	0.0
5.1	0.2	1.0	1.3	8.6	1.3	0.0	0.0	1.2	0.0	0.1	0.0
1.9	0.4	0.8	0.0	1.1	4.3	0.0	0.0	9.7	0.0	0.9	0.1
0.2	4.3	0.0	2.9	0.1	5.7	0.0	0.0	0.7	0.0	6.9	0.0
1.0	1.6	2.1	2.0	0.0	3.2	0.0	0.0	0.0	0.0	0.2	0.0
0.6	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.2	0.1	0.0	0.0	0.0	0.0	2.9	0.0	14.6	0.0
0.5	0.8	10.9	0.0	0.0	0.0	0.0	0.0	11.4	0.0	16.1	0.1

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

### ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

1.2	0.0	2.6	0.0	0.2	0.0	0.0	0.0	0.6	0.0	4.5	0.3
2.4	-77.0	0.3	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.2	0.0
0.2	-77.0	6.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.7	-77.0	18.6	-77.0	0.0	-77.0	0.0	0.0	-77.0	0.0	-77.0	0.1
Jan_2015	Feb_2015	Mar_2015	Apr_2015	May_2015	Jun_2015	Jul_2015	Aug_2015	Sep_2015	Oct_2015	Nov_2015	Dec_2015
0.0	0.4	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	9.3	0.0
0.0	1.8	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	0.1
0.0	0.8	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.3	0.1
0.1	0.2	0.0	0.0	1.5	0.0	0.0	0.0	0.0	5.2	5.3	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.9	1.0	0.1
0.0	2.4	0.0	4.1	0.0	0.0	0.0	0.0	0.0	0.7	0.1	0.1
0.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
0.0	0.0	0.0	6.2	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
0.1	0.0	0.0	9.3	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.1
0.1	0.7	0.0	5.2	0.0	0.7	0.0	0.0	0.0	6.3	0.0	0.0
0.0	0.2	0.0	0.1	0.0	1.0	0.0	0.0	0.0	3.5	0.0	0.0
0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.5	0.0	0.0
0.0	0.4	0.0	0.0	0.0	1.1	0.0	0.0	0.3	0.4	0.1	4.7
0.1	2.0	0.0	0.5	0.0	3.7	0.0	0.0	0.1	0.0	0.1	22.3
10.3	0.5	0.0	5.5	0.0	0.1	0.0	0.0	1.8	0.0	0.0	0.0
2.5	0.0	0.0	0.2	0.0	0.0	0.0	0.0	5.6	0.1	0.0	0.0
10.7	0.0	11.7	0.0	0.0	0.0	0.0	0.0	0.0	12.4	0.2	0.0
11.4	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.1	10.5	0.1	0.0
0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.1	0.5
4.8	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	1.0
1.6	0.8	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.1
1.2	0.0	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.1
0.2	0.5	0.5	0.0	0.0	0.0	0.0	1.4	0.0	0.0	0.2	0.0
0.0	0.0	1.6	2.7	0.0	0.0	0.0	0.0	0.0	3.1	0.0	0.1
0.0	0.0	0.0	8.7	0.0	0.0	0.0	0.0	0.0	5.7	0.0	0.0
0.0	0.0	0.0	9.3	0.0	0.0	0.0	0.0	0.0	21.6	0.0	0.0
0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.2
0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.1	18.3
0.5	-77.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.8
3.0	-77.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	4.9
3.4	-77.0	0.0	-77.0	0.0	-77.0	0.2	0.0	-77.0	2.9	-77.0	0.1
Jan_2016	Feb_2016	Mar_2016	Apr_2016	May_2016	Jun_2016	Jul_2016	Aug_2016	Sep_2016	Oct_2016	Nov_2016	Dec_2016
7.0	0.1	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	7.5
0.1	0.1	0.0	1.8	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.8
2.3	0.0	0.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	30.2
6.7	0.0	0.4	10.2	0.0	0.0	1.2	0.0	0.0	0.0	4.1	2.9
6.7	0.0	0.7	0.1	12.8	0.0	0.0	0.0	0.0	0.0	4.2	0.0
0.9	5.9	0.1	0.0	8.2	0.0	0.0	0.0	0.0	0.0	0.1	0.0
1.2	0.1	2.9	0.0	26.2	0.0	3.7	0.0	0.0	0.1	0.0	0.0

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

## ANEXO 8 – Necessidades Hídricas das Culturas

### ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

12.9	0.2	0.0	0.0	12.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.2	1.5	0.1	0.8	8.5	0.0	0.0	0.0	0.0	0.1	0.6	0.0
6.0	6.4	0.1	2.7	16.9	0.0	0.0	0.0	0.0	0.2	0.0	0.0
9.8	1.0	0.0	2.7	9.7	0.0	0.0	0.0	0.0	3.3	0.3	0.0
0.0	4.7	0.0	13.1	9.1	0.0	0.0	0.0	0.0	7.2	5.4	0.1
0.0	3.5	0.0	0.9	1.6	0.0	0.0	0.0	11.0	0.6	0.1	0.3
2.3	12.1	0.0	4.8	0.0	0.1	0.0	0.0	0.2	0.0	0.0	10.7
0.0	2.6	4.6	6.0	0.0	2.4	0.0	0.0	0.0	0.0	0.0	11.3
0.0	0.0	0.0	14.9	0.0	4.1	0.0	0.0	0.0	0.1	0.0	8.6
0.3	4.6	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.1	0.0
0.1	0.3	8.0	0.2	0.0	0.0	0.0	0.0	0.0	0.1	0.5	0.0
5.0	0.0	4.6	10.1	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0
1.2	0.0	5.9	1.1	0.0	0.0	0.0	0.0	0.0	0.0	17.6	0.0
8.3	1.3	7.1	2.4	0.0	0.0	0.0	0.0	0.0	0.2	9.4	0.0
1.7	0.1	0.3	0.0	0.1	0.0	0.0	0.0	0.0	20.8	0.3	0.0
0.1	0.0	0.5	0.1	0.0	0.0	0.0	0.0	0.0	3.5	0.1	0.0
0.1	3.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	12.0	5.1	0.1
12.5	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.2	0.5	23.0	0.0
0.2	16.2	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	0.1
0.0	7.7	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.3	0.0
4.5	0.4	0.0	0.0	17.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.3	0.2	0.0	0.0	0.0	0.0	0.3	0.0
0.0	-77.0	2.5	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.5	0.0
0.0	-77.0	0.7	-77.0	0.0	-77.0	0.0	0.0	-77.0	0.0	-77.0	0.0
Jan_2017	Feb_2017	Mar_2017	Apr_2017	May_2017	Jun_2017	Jul_2017	Aug_2017	Sep_2017	Oct_2017	Nov_2017	Dec_2017
0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.1	7.4	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.7	0.0
12.1	1.0	15.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.9	0.0
0.1	3.2	9.9	0.0	0.2	0.0	0.0	0.0	0.2	0.0	2.9	0.0
0.2	0.2	0.6	0.0	9.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.1	0.4	0.0	0.0	0.4	0.1	0.6	0.0	0.0	0.0	0.0	0.0
0.0	4.2	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0
0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
0.0	4.6	0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.2
0.1	5.9	0.0	0.0	13.5	0.0	0.0	0.0	0.0	0.0	0.0	10.0
0.0	3.0	0.0	0.0	12.4	0.0	0.0	0.0	0.0	0.0	0.0	15.6
0.1	10.4	0.7	0.0	7.8	0.0	0.0	0.0	0.0	0.0	0.1	0.1
0.1	0.5	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.1
0.0	10.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	7.9	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.8	0.0	0.0
0.0	0.2	0.0	0.0	0.0	0.1	0.0	0.0	0.0	1.1	0.0	0.0



Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.0
0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
0.0	0.0	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.9	0.1
0.0	0.0	5.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	1.6
0.0	0.1	4.6	0.0	0.3	0.4	0.0	0.0	0.0	0.0	0.1	3.5
15.3	0.0	22.7	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.7
4.2	0.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0
0.3	0.2	0.1	0.0	1.1	1.5	0.0	3.8	0.0	0.0	14.0	1.7
0.6	-77.0	0.0	0.0	3.4	0.0	0.0	0.7	0.0	0.0	0.2	0.1
0.1	-77.0	0.0	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
7.0	-77.0	0.0	-77.0	0.0	-77.0	0.0	0.0	-77.0	0.0	-77.0	1.3
Jan_2018	Feb_2018	Mar_2018	Apr_2018	May_2018	Jun_2018	Jul_2018	Aug_2018	Sep_2018	Oct_2018	Nov_2018	Dec_2018
0.1	0.3	12.9	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.2	0.2
0.1	0.0	7.5	1.0	0.6	0.0	0.1	0.0	0.0	0.0	0.2	0.1
1.0	0.2	19.2	3.9	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
0.9	1.8	9.9	0.6	0.0	0.5	0.0	0.0	0.0	0.0	7.8	0.1
14.3	0.0	10.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.2
0.1	0.0	6.5	12.1	0.6	0.1	0.0	0.0	0.0	0.0	1.2	0.2
0.0	0.0	11.8	6.3	2.0	1.7	0.0	0.0	0.0	0.0	5.3	0.2
0.1	0.0	2.7	4.4	0.1	1.3	0.0	0.0	0.0	0.0	4.0	0.1
10.6	2.4	37.5	0.8	0.0	1.9	0.0	0.0	0.0	0.0	0.1	0.0
2.4	0.0	3.3	15.3	0.0	0.2	0.0	0.0	0.0	0.0	3.7	0.1
0.2	0.1	7.0	0.2	0.0	0.0	0.0	0.0	0.0	0.7	39.4	0.0
0.1	2.3	0.2	18.9	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.8
9.6	0.0	0.5	0.4	0.0	0.0	0.0	0.0	0.0	3.4	0.0	8.3
1.0	0.0	17.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.1	0.0	3.6	4.6	0.0	0.0	0.0	0.0	0.0	8.6	0.0	0.5
0.0	0.1	1.5	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.8
0.0	0.2	7.9	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.1	0.1
0.0	0.0	0.5	0.0	0.1	0.0	0.0	0.0	0.0	0.3	6.6	7.3
0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.3	0.3
0.2	0.0	0.0	0.8	5.5	1.0	0.0	0.0	0.0	0.1	2.8	0.0
0.0	0.0	0.0	13.1	0.1	11.1	0.0	0.3	0.0	0.7	3.0	0.0
0.0	0.0	0.0	0.6	0.0	1.9	0.0	0.0	0.0	0.0	2.6	0.1
0.1	0.0	4.6	0.0	0.0	0.1	0.0	0.0	0.0	2.2	0.2	0.1
0.1	0.0	1.3	0.0	14.7	0.0	0.0	0.0	0.0	0.6	4.9	0.1
4.4	0.0	4.2	0.0	0.5	0.0	0.0	0.0	0.0	0.0	9.5	0.1
0.1	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1
0.0	7.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2
0.0	17.9	0.0	6.3	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
0.0	-77.0	2.1	3.2	0.0	1.2	0.0	0.0	0.0	3.8	16.7	0.1
0.0	-77.0	4.3	0.9	0.0	0.4	0.0	0.0	0.0	14.3	2.3	0.1
0.0	-77.0	0.7	-77.0	0.0	-77.0	0.0	0.0	-77.0	9.7	-77.0	0.0

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

Jan_2019	Feb_2019	Mar_2019	Apr_2019	May_2019	Jun_2019	Jul_2019	Aug_2019	Sep_2019	Oct_2019	Nov_2019	Dec_2019
0.1	9.0	0.0	5.4	0.0	0.0	0.0	0.0	0.0	0.0	1.4	3.1
0.1	0.4	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1	4.1	0.0
0.2	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	0.0
0.1	0.0	0.9	4.4	0.0	1.0	0.0	0.0	0.0	0.0	1.5	0.1
0.0	0.0	1.9	7.9	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0
0.1	0.0	13.1	2.7	0.0	3.0	0.0	0.0	0.0	0.0	0.9	0.0
0.1	0.0	5.3	4.7	1.4	0.1	0.0	0.6	0.0	0.1	2.7	0.0
0.1	0.1	0.1	3.3	8.0	0.0	0.0	0.2	0.0	0.0	0.6	0.3
0.0	0.0	0.0	1.4	1.6	0.0	0.0	2.2	0.0	0.0	1.6	0.1
0.0	1.0	0.0	1.4	0.4	0.0	0.0	0.1	0.0	0.0	0.8	0.1
0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.6
0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	3.2
0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.1
0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.2	12.1	4.3	0.5
0.1	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.1	1.4	4.0
1.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.2	24.8
0.3	2.9	0.0	7.7	0.0	0.0	0.0	0.0	0.0	5.0	11.4	0.6
4.8	10.3	0.0	0.7	0.0	0.8	0.0	0.0	0.0	0.3	0.1	4.5
6.8	0.0	0.0	0.6	0.0	0.4	0.0	0.0	0.0	9.5	3.3	34.9
0.1	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.7	0.6	11.9	22.7
0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	8.8	0.1	3.5	4.5
0.0	0.0	0.0	5.5	0.0	0.0	0.0	0.0	0.2	0.0	20.1	0.0
0.1	0.0	0.0	5.4	0.0	0.4	0.2	0.0	0.0	0.0	1.2	0.2
0.0	0.0	0.0	11.0	0.0	0.7	0.0	0.0	0.6	0.0	1.7	0.0
0.1	0.0	0.0	1.5	0.0	0.1	0.0	0.0	0.1	0.0	3.7	0.1
0.0	0.0	0.0	0.0	0.0	1.9	0.0	0.1	0.0	0.0	11.9	0.1
0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.1	0.1
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	4.1	0.2	0.1
1.0	-77.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.1	0.0
3.8	-77.0	0.7	0.0	0.0	0.0	0.0	0.0	0.1	2.7	3.2	0.1
12.7	-77.0	3.1	-77.0	0.0	-77.0	0.0	0.0	-77.0	0.8	-77.0	0.2
Jan_2020	Feb_2020	Mar_2020	Apr_2020	May_2020	Jun_2020	Jul_2020	Aug_2020	Sep_2020	Oct_2020	Nov_2020	Dec_2020
0.2	1.2	1.0	12.2	0.4	0.0	0.0	0.0	0.0	0.0	0.1	0.0
0.1	0.1	2.2	0.1	0.0	0.0	0.0	0.0	0.0	4.3	0.0	0.1
0.0	0.1	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0
0.1	0.2	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.6	1.1	10.7
0.1	0.1	1.4	11.9	0.0	0.0	0.0	0.0	0.0	0.0	11.9	1.6
0.1	0.1	0.0	18.4	0.0	0.0	0.0	0.0	0.0	0.0	21.1	1.0
0.1	0.0	0.0	2.7	0.0	0.0	0.0	0.0	0.0	0.1	1.3	0.8
0.1	1.2	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	5.9	0.9
0.1	0.0	0.0	6.1	2.6	0.0	0.0	0.0	0.0	0.0	0.5	2.2
0.1	0.0	0.0	0.4	9.9	0.0	0.0	0.0	0.0	0.0	0.2	7.0
0.0	0.1	0.0	0.1	8.1	0.2	0.0	0.0	0.0	0.0	0.2	2.0

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

### ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.1	0.0	0.0	0.1	2.1	0.8	0.0	0.0	0.0	0.0	0.0	1.6
0.0	0.8	0.0	1.1	17.3	0.0	0.0	0.0	0.0	0.0	0.0	1.0
2.5	0.1	0.0	9.0	4.6	0.0	0.0	0.0	0.0	0.0	2.3	6.8
1.6	0.0	0.0	1.9	2.2	0.0	0.0	0.0	0.0	0.0	0.1	0.6
7.6	0.1	0.0	13.9	0.0	0.5	0.0	0.0	1.2	0.0	0.1	7.7
0.4	1.2	0.0	7.3	0.0	0.0	0.0	0.0	8.3	0.0	0.2	0.1
13.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.7	0.0	0.2	0.6
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	46.6	0.1	12.6
0.0	0.0	18.6	11.5	0.0	0.0	0.2	0.5	2.5	54.8	0.0	0.2
0.0	0.0	1.5	0.8	0.0	0.0	5.4	0.0	0.0	3.9	0.0	0.1
0.9	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.3	4.3	0.0	0.1
3.8	0.0	0.2	0.0	0.0	0.0	0.0	0.0	2.4	0.4	0.1	0.7
7.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	1.1	0.0
1.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.8	28.0	0.0
0.1	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.3	2.9	0.0
1.9	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0
1.5	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	6.0	2.3
0.1	1.4	0.0	4.7	0.0	0.0	0.0	0.0	0.0	0.1	7.1	2.3
3.3	-77.0	8.3	0.1	0.1	0.0	0.0	0.0	0.0	0.1	0.3	0.3
2.6	-77.0	1.0	-77.0	0.0	-77.0	0.0	0.0	-77.0	0.0	-77.0	1.6

#### 2.1.6 ALMOUROL

Tabela 6. Precipitações diárias na região de cálculo de Almourol (mm)

Jan_2003	Fev_2003	Mar_2003	Abr_2003	Mai_2003	Jun_2003	Jul_2003	Ago_2003	Set_2003	Out_2003	Nov_2003	Dez_2003
8.5	0.1	2.9	0.0	0.0	0.0	0.1	0.0	0.0	18.3	15.2	4.7
5.5	0.1	0.2	0.0	0.0	0.2	0.0	0.0	0.0	19.8	0.0	0.0
0.8	0.1	0.1	0.0	0.0	0.3	0.0	0.0	0.0	2.0	0.0	3.2
0.6	0.2	0.1	0.0	0.1	0.3	0.0	0.0	0.0	0.0	0.0	0.1
7.8	0.0	1.6	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	16.0
1.7	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.6
10.7	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	7.0
8.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	14.5
7.6	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35.3	16.9
0.0	0.1	0.0	4.8	0.0	0.0	0.0	0.0	0.0	0.7	14.7	0.0
0.0	3.3	0.0	0.7	0.0	0.0	0.0	0.0	0.0	16.0	0.2	0.0
0.1	0.1	0.0	6.8	0.0	0.0	0.0	0.0	0.0	0.1	1.0	0.1
0.1	0.1	0.4	19.2	0.0	0.0	0.1	0.0	0.0	0.1	0.2	0.1
0.1	0.0	0.0	3.5	0.0	0.0	0.1	0.0	0.0	0.0	0.5	0.1
0.2	0.0	0.0	0.2	0.0	0.0	3.9	0.0	0.0	0.9	34.5	0.1
0.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.2
0.1	1.2	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.5
17.5	24.6	0.2	0.6	0.0	0.0	0.0	0.0	0.0	6.9	0.0	5.4

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

## ANEXO 8 – Necessidades Hídricas das Culturas

### ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

1.7	9.2	0.7	0.1	0.0	0.0	0.0	0.0	0.0	3.0	0.0	0.0
14.0	5.1	0.0	1.9	0.0	0.0	0.0	0.0	0.0	2.5	0.0	0.0
1.8	5.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.5	0.1
6.5	14.2	0.0	1.8	0.0	0.1	0.0	0.0	0.0	0.1	17.9	0.1
0.0	0.3	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0
0.0	11.6	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.9	0.0
0.1	8.7	7.9	14.9	0.0	0.0	0.0	0.0	0.0	31.7	0.2	0.0
0.0	11.1	7.2	1.2	0.0	0.0	0.0	0.0	0.0	17.6	6.7	0.0
0.0	2.3	11.9	0.0	0.0	0.0	0.1	3.9	0.0	24.2	2.5	0.2
0.0	0.0	1.3	2.3	0.0	0.0	0.0	3.8	0.0	4.6	0.0	1.0
0.0	-77.0	33.4	1.3	0.0	3.3	0.0	0.1	0.6	2.0	1.3	0.4
0.1	-77.0	3.3	0.8	0.3	0.0	0.0	0.3	16.7	3.9	5.1	0.3
0.1	-77.0	0.1	-77.0	0.0	-77.0	0.0	10.9	-77.0	38.3	-77.0	0.2
Jan_2004	Feb_2004	Mar_2004	Apr_2004	May_2004	Jun_2004	Jul_2004	Aug_2004	Sep_2004	Oct_2004	Nov_2004	Dec_2004
0.0	4.4	0.1	9.9	4.1	0.0	0.0	0.0	0.0	0.0	1.5	18.2
0.0	4.6	0.0	5.1	2.5	0.0	0.0	0.0	10.8	0.0	13.6	0.4
0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	7.4	0.0
0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	3.4	0.0	0.1	0.0
0.1	0.0	1.3	0.0	3.4	0.0	0.0	0.0	0.2	0.1	0.0	0.0
0.0	0.1	0.3	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.1	0.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.1	0.1	0.0	0.0	0.0	0.0	0.0	6.7	0.1	4.0	0.0	0.0
0.4	0.1	0.0	0.0	4.3	0.0	0.0	0.1	0.0	1.7	0.0	0.0
0.1	0.0	1.4	0.0	0.7	0.0	0.0	0.3	0.0	0.8	0.0	0.0
0.0	0.0	0.4	0.0	0.0	0.0	0.0	1.3	0.0	0.2	0.0	0.0
0.0	0.0	15.2	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.1
0.3	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.3
3.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0
0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.1	0.0	0.0	0.0	5.8	0.0	0.1	0.0	0.1
0.0	0.0	0.0	1.6	0.0	0.0	0.0	4.0	0.0	17.8	0.0	0.0
0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.0	21.9	0.0	0.1
0.0	0.0	0.0	0.3	0.8	0.0	0.0	0.0	0.0	12.7	0.1	0.0
0.0	1.6	0.0	16.7	2.4	0.0	0.0	0.0	0.0	3.3	0.0	0.0
0.1	8.8	0.0	2.4	5.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	8.8	0.0	0.1	2.6	0.9	0.0	0.0	0.0	0.0	0.0	0.0
0.1	3.0	0.6	0.0	1.6	0.0	0.0	0.0	0.0	16.3	0.0	0.0
0.2	15.1	0.0	0.0	0.2	0.0	0.0	0.0	0.0	4.7	0.0	1.9
11.6	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	0.1	0.9
15.7	1.9	2.5	0.0	0.0	0.0	0.0	0.0	0.0	16.6	0.3	0.0
0.0	2.6	1.7	0.0	0.0	0.0	0.0	0.0	0.0	10.4	1.5	0.1
5.8	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	11.6	0.5	0.0
18.0	-77.0	0.5	1.1	0.0	0.0	0.0	0.0	0.0	5.7	2.9	0.0

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

20.9	-77.0	8.5	-77.0	0.0	-77.0	0.0	0.0	-77.0	1.5	-77.0	0.0
Jan_2005	Feb_2005	Mar_2005	Apr_2005	May_2005	Jun_2005	Jul_2005	Aug_2005	Sep_2005	Oct_2005	Nov_2005	Dec_2005
0.0	0.0	0.0	2.4	0.7	0.0	0.0	0.0	0.0	0.0	0.1	12.3
0.1	0.0	0.0	9.4	0.0	0.0	0.0	0.0	0.0	0.0	1.6	16.2
0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	38.2	0.7
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.2	0.6
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	2.7	0.0	0.0	0.2
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0
0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.7	0.1
0.1	0.0	0.0	0.0	0.0	0.0	0.0	2.1	1.9	1.2	0.1	0.1
0.0	0.0	0.1	0.0	1.3	0.0	0.0	3.8	0.0	10.4	0.0	0.0
0.0	0.0	0.0	0.0	2.6	0.0	0.0	0.0	0.0	3.1	0.0	0.0
0.0	0.0	0.0	0.0	3.4	0.0	0.0	0.0	0.0	3.7	0.1	0.1
3.1	0.0	0.1	0.0	6.1	0.0	0.0	0.0	0.0	0.1	1.4	0.0
0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0
0.0	0.0	0.0	0.3	0.1	0.0	0.0	0.0	0.1	0.0	1.2	0.0
0.0	0.0	0.0	0.0	2.3	0.0	0.0	0.0	0.0	0.0	0.1	0.0
0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	4.1	0.1	0.0
0.0	0.0	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.1
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.4	0.0
0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	3.7	13.9	0.0
0.0	0.0	6.8	0.0	0.0	0.0	0.0	0.0	0.0	9.4	1.3	0.0
0.0	4.1	0.3	0.1	0.0	0.0	0.0	0.0	0.0	10.3	0.4	0.0
0.1	2.8	0.4	4.2	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
0.1	0.8	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
0.0	0.0	20.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	9.0
0.0	0.0	11.6	0.0	0.0	0.0	0.2	0.0	0.0	3.5	4.9	21.1
0.0	0.2	1.3	0.0	0.0	0.0	2.5	0.0	0.0	51.3	1.4	1.9
0.0	0.0	11.1	0.0	0.0	0.0	0.4	0.0	0.0	5.5	0.2	0.2
0.0	-77.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	2.2	0.0	0.1
0.0	-77.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	24.7	0.3	0.2
0.0	-77.0	0.0	-77.0	1.3	-77.0	0.0	0.0	-77.0	8.5	-77.0	1.0
Jan_2006	Feb_2006	Mar_2006	Apr_2006	May_2006	Jun_2006	Jul_2006	Aug_2006	Sep_2006	Oct_2006	Nov_2006	Dec_2006
0.8	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
0.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	2.9	13.2
0.1	10.1	11.2	0.0	0.0	0.0	0.0	0.0	0.0	0.7	24.1	0.6
0.1	0.1	29.1	0.8	0.0	0.0	0.0	0.0	0.0	0.7	29.3	2.1
1.1	0.2	0.0	12.1	0.0	0.0	0.0	0.0	0.0	0.1	42.8	16.5
4.6	0.1	0.0	10.4	0.0	0.0	0.0	0.0	0.0	0.0	16.1	2.0
0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	9.4
0.0	0.0	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.3
0.0	0.0	0.4	0.1	0.0	0.2	0.0	0.0	0.2	0.0	0.0	1.5
0.1	1.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.1

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	6.8	0.1	0.1
0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.0
2.8	0.0	0.0	0.0	0.0	7.6	0.1	0.0	8.8	0.0	0.1	0.0
4.9	0.0	0.0	12.0	0.0	25.4	7.8	0.0	0.1	0.0	0.1	0.0
8.7	0.0	0.0	8.3	0.0	6.9	0.0	0.0	0.8	0.0	24.2	0.1
0.1	2.3	0.0	1.1	0.0	16.9	0.0	1.1	0.0	21.1	7.7	0.1
0.0	6.3	25.0	0.1	0.0	0.9	0.0	1.3	0.0	3.6	7.6	0.0
0.0	14.8	13.0	0.0	0.0	0.0	0.7	2.3	0.0	26.0	0.7	0.2
0.1	7.0	4.8	0.0	0.0	0.0	0.0	0.0	0.0	7.9	0.0	0.1
0.1	6.9	9.6	1.0	0.0	0.0	0.0	0.0	0.0	15.9	0.2	0.1
0.0	0.1	0.9	2.9	0.2	0.0	0.0	0.0	30.6	0.2	0.8	0.1
0.0	0.0	2.9	16.9	0.0	0.0	0.0	0.0	2.6	25.5	1.0	0.1
0.0	0.1	21.1	0.3	0.0	0.0	0.0	0.0	16.3	26.6	15.1	0.1
0.0	2.2	8.4	0.0	0.0	0.0	0.0	0.0	3.5	17.8	60.7	0.1
0.0	11.7	0.3	0.0	0.0	0.0	0.0	0.0	0.5	46.2	2.3	0.1
0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.1	16.6	0.2	0.0
0.0	0.4	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.1	8.2	0.0
1.5	0.0	0.1	0.0	0.0	0.0	0.0	0.0	1.2	0.0	9.3	0.0
3.0	-77.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.6	0.5
0.1	-77.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0	1.4
0.0	-77.0	0.0	-77.0	0.0	-77.0	0.0	0.0	-77.0	0.1	-77.0	0.0
Jan_2007	Feb_2007	Mar_2007	Apr_2007	May_2007	Jun_2007	Jul_2007	Aug_2007	Sep_2007	Oct_2007	Nov_2007	Dec_2007
0.3	0.1	0.4	0.0	18.4	0.0	0.0	0.0	0.0	1.1	0.0	0.1
0.2	0.0	0.0	7.6	14.4	0.0	0.0	0.0	0.0	1.7	0.0	0.2
0.1	0.0	0.0	4.6	0.6	0.0	0.0	0.0	0.0	2.0	0.0	0.0
0.1	0.0	5.0	0.1	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.2
0.1	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1
0.2	0.1	2.1	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.3	8.2	1.7	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
0.1	29.3	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
0.0	3.0	0.0	5.6	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.2
0.2	0.3	0.0	10.0	0.0	2.8	0.0	0.0	0.9	0.0	0.0	0.1
0.1	7.0	0.0	9.9	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.1
0.0	7.2	0.0	0.5	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.1
0.0	1.9	0.0	0.2	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.2
0.2	3.1	0.0	0.0	0.2	11.8	0.0	0.2	0.0	0.1	0.0	0.1
0.0	0.1	0.0	0.0	0.0	0.6	0.4	0.7	0.0	0.5	0.0	0.1
0.4	6.4	0.0	0.0	0.0	16.8	0.3	0.0	0.2	0.2	0.0	0.1
0.1	3.3	0.0	0.0	0.0	5.7	0.0	0.0	0.1	0.0	0.0	0.1
0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	2.7	0.0	0.0	5.3
0.1	8.5	0.0	2.5	0.0	1.9	0.0	0.0	0.0	0.0	64.2	13.4
0.1	3.5	0.0	4.2	0.2	0.0	0.0	0.0	3.9	0.0	19.5	0.9
0.2	1.2	0.0	0.1	0.0	0.0	0.0	0.0	0.5	0.0	0.8	0.3
2.5	4.8	0.0	0.0	8.2	0.0	0.0	0.0	0.0	0.0	0.8	0.0

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

## ANEXO 8 – Necessidades Hídricas das Culturas

### ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.7	0.4	0.0	0.0	1.2	0.0	0.2	0.0	0.0	0.0	0.1	0.0
0.2	0.1	0.0	0.0	0.2	0.0	0.0	0.0	0.0	7.0	0.1	0.7
1.5	2.9	2.5	3.7	0.5	0.0	0.0	0.1	0.0	0.1	0.0	6.2
0.0	0.1	2.4	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.2
0.0	0.0	0.0	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.3	3.8	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.9	-77.0	0.0	0.0	0.0	0.0	0.0	0.0	9.2	0.0	0.1	0.1
4.8	-77.0	1.4	4.3	0.1	0.0	0.0	0.0	43.3	0.0	0.0	0.1
0.3	-77.0	3.4	-77.0	0.0	-77.0	0.0	0.0	-77.0	0.0	-77.0	0.0
Jan_2008	Feb_2008	Mar_2008	Apr_2008	May_2008	Jun_2008	Jul_2008	Aug_2008	Sep_2008	Oct_2008	Nov_2008	Dec_2008
11.6	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2
6.4	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3
30.7	11.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	7.3
1.8	1.3	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.0	0.4	0.5
2.7	0.1	0.0	0.0	0.0	0.0	0.0	0.0	3.1	0.0	0.1	2.2
0.1	0.1	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	4.5
0.1	0.0	0.0	7.9	1.6	0.0	0.0	0.0	0.0	2.4	0.5	8.3
0.0	0.0	0.0	7.5	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.3
3.3	0.0	0.0	14.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.1
3.6	0.0	8.0	12.9	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.3	0.0	3.3	2.1	0.6	0.0	0.1	0.0	0.0	0.3	0.4	2.4
0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.1	0.0	1.9	0.1	4.3
10.6	0.0	0.0	2.1	0.1	0.0	0.0	0.0	0.0	0.7	0.2	10.8
1.3	0.0	0.0	0.1	0.9	0.0	0.0	0.0	0.0	0.4	0.0	6.9
1.3	0.0	0.0	0.1	15.8	0.7	0.0	0.0	0.0	0.0	0.0	1.7
0.7	0.0	0.0	9.2	1.2	3.3	0.0	0.1	0.0	0.1	0.0	0.0
0.2	10.9	4.9	29.3	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0
0.0	47.9	1.7	14.7	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.1
0.1	4.5	11.9	21.5	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.1
0.1	1.0	0.2	8.2	7.8	0.0	0.0	0.0	0.0	0.1	0.0	0.1
0.1	2.5	0.0	1.0	0.0	0.0	0.0	0.0	1.2	0.4	0.0	0.3
0.1	0.0	0.7	0.0	13.1	0.0	0.0	0.0	0.7	0.0	0.0	0.2
0.0	2.0	0.0	0.0	13.8	0.0	0.0	0.1	0.3	0.0	0.0	0.0
0.1	4.9	0.0	0.0	7.6	0.0	0.0	0.0	0.0	0.0	0.9	0.0
0.0	1.7	0.0	0.0	1.6	0.0	0.2	0.0	0.0	0.0	0.7	0.0
0.0	0.1	0.1	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.1
0.0	0.1	1.0	0.0	8.3	0.0	0.0	0.1	0.0	0.2	0.0	18.7
0.0	1.0	0.0	0.0	2.5	0.0	0.0	0.0	0.0	0.0	9.9	5.2
0.0	0.0	0.2	0.3	2.2	0.0	0.0	0.0	0.3	0.0	13.4	6.9
0.1	-77.0	1.9	0.1	3.3	0.0	0.0	0.0	0.0	1.5	2.4	0.9
0.1	-77.0	0.0	-77.0	0.0	-77.0	0.0	0.1	-77.0	2.5	-77.0	8.0
Jan_2009	Feb_2009	Mar_2009	Apr_2009	May_2009	Jun_2009	Jul_2009	Aug_2009	Sep_2009	Oct_2009	Nov_2009	Dec_2009
12.3	23.1	3.2	0.0	0.1	0.0	0.0	0.9	0.0	0.1	0.3	1.4
7.7	9.8	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.8

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

## ANEXO 8 – Necessidades Hídricas das Culturas

### ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

5.6	7.5	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6
0.0	6.7	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0
0.0	4.4	1.0	0.0	0.0	8.2	0.0	0.0	0.0	1.9	0.1	1.0
0.0	2.7	1.0	0.0	0.0	4.5	0.0	0.0	0.0	3.7	1.7	1.4
0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	22.1	0.3	3.1
0.0	3.0	0.0	0.1	0.0	2.4	0.0	0.0	0.6	0.0	0.7	0.0
0.2	7.0	0.0	0.9	10.7	0.1	0.0	0.0	0.6	0.0	0.0	0.5
0.4	0.3	0.0	2.1	1.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0
0.1	0.0	0.0	0.1	7.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.4	0.0	0.0	1.0	0.1	0.0	0.0	0.1	0.1	0.0	1.1	0.0
0.1	0.0	0.0	11.7	0.0	0.5	0.0	0.0	0.0	0.0	16.4	0.0
15.2	0.0	0.0	21.8	0.0	3.4	0.0	0.1	0.0	0.0	4.6	0.4
4.4	0.0	0.0	5.5	0.1	2.3	0.0	0.0	0.0	0.0	16.0	8.9
0.1	0.0	0.0	2.4	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.1
1.8	0.0	0.0	11.1	0.0	0.0	0.0	0.0	1.1	0.0	0.2	1.8
11.6	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0
5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.6	0.0	10.7
0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	13.4	5.8	16.3
11.6	0.0	0.0	0.0	0.0	0.0	2.5	0.0	0.0	3.1	0.2	12.6
12.5	0.0	0.0	0.0	1.9	0.0	0.7	0.0	0.0	0.3	0.1	15.6
2.2	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.2	5.4
9.9	0.0	0.0	0.1	0.2	0.1	0.0	0.0	0.0	0.0	7.9	16.4
4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	5.5	1.4
1.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	2.9	8.2
3.8	4.8	0.0	0.1	0.0	25.0	0.0	0.0	0.0	0.0	0.3	31.4
3.9	-77.0	0.0	0.1	0.0	1.1	0.0	0.0	0.0	0.0	15.5	40.7
13.9	-77.0	0.0	1.0	0.0	0.0	0.0	0.0	6.1	0.0	0.6	12.4
6.9	-77.0	0.0	-77.0	0.0	-77.0	0.0	0.0	-77.0	0.1	-77.0	13.9
Jan_2010	Feb_2010	Mar_2010	Apr_2010	May_2010	Jun_2010	Jul_2010	Aug_2010	Sep_2010	Oct_2010	Nov_2010	Dec_2010
3.1	0.0	0.9	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4
0.2	0.0	8.5	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.1	5.6
15.4	3.5	1.4	1.8	0.0	0.0	0.0	0.0	0.0	19.5	0.1	0.6
13.3	4.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.5
0.2	1.4	18.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	39.5
2.2	0.0	10.6	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	7.3
0.3	2.4	3.9	0.2	2.3	0.0	0.0	0.0	0.2	3.0	0.0	5.7
0.0	6.0	13.8	0.3	10.7	4.4	0.0	0.0	0.0	32.8	2.6	15.4
0.1	0.6	5.7	0.0	10.4	8.3	0.0	0.0	0.0	6.6	1.4	6.2
10.1	10.5	0.1	0.0	0.0	2.1	0.0	0.0	0.0	0.2	0.7	0.1
3.8	0.5	0.0	0.0	1.3	0.8	0.0	0.0	0.0	0.1	0.0	0.2
33.0	0.1	0.0	1.2	0.4	0.0	0.0	0.0	0.0	0.0	0.0	1.0
17.6	0.0	0.0	10.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.2
3.6	1.3	0.0	16.7	0.2	0.0	0.0	0.0	0.0	0.0	20.8	0.1



Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

## ANEXO 8 – Necessidades Hídricas das Culturas

### ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

5.2	6.1	0.0	10.6	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.1
2.5	6.0	0.1	10.4	0.0	0.0	0.0	0.0	0.2	0.0	0.6	0.0
0.3	7.0	0.0	11.8	0.0	0.0	0.0	0.0	0.1	0.0	12.9	0.1
0.5	0.9	1.8	7.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
0.7	1.5	5.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	0.2
0.4	4.2	2.2	0.4	0.0	0.0	0.0	0.0	0.0	0.0	5.2	34.1
0.1	11.5	0.7	3.3	0.0	0.0	0.0	0.0	0.0	0.0	2.4	20.6
0.0	9.9	0.0	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.3	3.6
0.4	11.2	1.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	1.9	0.3
0.1	1.0	9.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
0.1	12.4	3.8	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	7.9
0.0	2.0	0.6	0.0	0.0	3.9	0.0	0.0	0.0	0.0	0.0	0.0
0.0	14.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
0.0	8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.1
0.0	-77.0	3.8	0.0	0.0	0.0	0.0	0.0	0.0	24.4	4.6	4.7
0.0	-77.0	0.8	0.0	0.0	0.1	0.0	0.0	0.0	23.9	12.9	20.0
0.1	-77.0	0.3	-77.0	0.0	-77.0	0.0	0.0	-77.0	11.2	-77.0	19.0
Jan_2011	Feb_2011	Mar_2011	Apr_2011	May_2011	Jun_2011	Jul_2011	Aug_2011	Sep_2011	Oct_2011	Nov_2011	Dec_2011
0.1	0.1	0.0	0.0	0.4	0.0	0.0	2.3	32.8	0.0	2.9	0.0
0.1	0.1	0.0	0.1	0.4	0.0	0.0	0.0	2.3	0.0	25.3	1.0
0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23.3	0.0
2.7	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	2.4	0.0
6.6	0.0	1.2	0.0	0.0	0.3	0.0	0.0	0.0	0.0	3.9	0.3
44.9	0.0	0.8	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.1
2.0	0.0	0.4	0.0	0.4	0.0	0.0	0.0	0.0	0.0	1.5	0.1
7.2	0.1	5.6	0.0	0.0	0.1	0.0	0.0	0.0	0.0	5.0	0.1
0.9	0.3	2.9	0.0	0.0	0.5	0.0	0.0	0.0	0.0	32.0	0.2
2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	8.6
1.4	0.1	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	2.9
0.1	0.0	7.4	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.1	0.6
0.1	12.2	16.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	1.0
0.1	13.7	11.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.0	4.2
0.0	13.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.6	0.1
0.0	21.1	0.0	0.0	5.5	0.0	0.0	0.0	0.0	0.0	0.1	2.0
0.5	1.0	0.0	0.0	2.9	0.0	0.0	0.0	0.0	0.0	1.8	0.1
0.0	3.3	0.0	9.0	21.5	0.0	0.0	0.0	0.0	0.0	8.8	0.0
0.0	32.6	0.0	12.2	0.2	0.0	0.1	0.0	0.0	0.0	5.5	0.1
0.0	0.5	0.0	6.6	0.0	0.0	0.0	0.3	0.0	0.0	0.3	0.0
0.0	0.0	0.0	7.0	0.0	0.0	0.0	0.7	0.0	0.0	0.5	0.1
0.0	0.0	0.0	3.7	0.0	0.0	0.0	0.0	0.0	0.0	13.3	0.2
0.0	0.0	0.1	2.3	0.1	0.0	0.0	0.0	0.0	26.4	0.0	0.1
0.0	0.1	1.1	0.0	0.5	0.0	0.0	0.0	0.0	12.8	0.0	0.1
0.0	0.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.0
0.0	0.0	5.2	0.0	0.4	0.0	0.0	0.3	0.0	28.0	0.0	0.0

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

9.7	0.0	1.3	0.0	0.3	0.0	0.0	0.0	0.0	8.1	0.1	0.1
2.7	0.0	0.7	0.0	4.2	0.0	0.0	0.0	0.0	0.1	0.0	0.1
1.2	-77.0	0.3	4.1	0.6	0.0	0.0	0.0	0.0	0.1	0.0	0.0
0.2	-77.0	0.0	2.8	6.7	0.0	0.0	0.2	0.0	0.2	0.0	0.0
0.0	-77.0	0.0	-77.0	0.0	-77.0	0.0	15.8	-77.0	0.5	-77.0	0.0
Jan_2012	Feb_2012	Mar_2012	Apr_2012	May_2012	Jun_2012	Jul_2012	Aug_2012	Sep_2012	Oct_2012	Nov_2012	Dec_2012
0.4	0.5	0.0	1.8	2.5	0.0	0.0	0.0	0.0	0.0	0.4	0.8
0.5	0.1	0.0	4.3	22.4	0.4	0.0	0.0	0.0	0.0	4.7	0.0
0.0	0.1	0.2	0.0	12.7	0.0	0.0	0.0	0.0	0.0	8.8	0.1
0.0	0.0	0.3	0.0	3.1	0.0	0.0	0.0	0.0	0.0	18.0	0.9
0.1	0.0	0.0	0.3	1.4	0.1	0.0	0.0	0.0	0.0	0.1	0.0
0.1	0.0	0.0	2.7	4.9	0.0	0.0	0.0	0.0	0.0	0.1	14.7
0.0	0.0	0.0	0.3	19.7	0.2	0.0	0.0	0.0	0.0	19.1	6.7
0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	10.6	0.1
0.2	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	4.3	0.0
0.1	0.0	0.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0
0.0	0.0	0.0	0.4	0.0	0.2	0.0	0.0	0.0	4.3	1.0	0.1
0.0	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.2	0.0	0.0	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7
1.3	0.0	0.0	9.9	0.0	0.0	0.0	0.0	0.0	0.6	0.0	27.7
6.5	0.0	0.0	0.9	0.0	0.0	0.0	4.3	0.0	0.0	10.2	1.5
0.1	0.0	0.1	0.1	0.0	0.2	0.0	0.0	0.0	0.0	6.4	1.7
0.0	0.0	0.4	0.3	0.0	0.0	0.0	0.0	0.0	18.9	25.1	5.0
0.0	0.0	0.4	3.8	1.0	0.0	0.0	0.0	0.0	17.2	0.1	0.4
0.0	0.0	0.0	3.0	1.4	0.0	0.0	0.0	0.0	1.1	0.0	0.8
0.0	0.0	0.0	3.5	3.5	0.2	0.0	0.0	0.0	0.1	4.4	2.2
0.0	0.0	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.2	0.5	0.1
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	0.1	0.0
0.1	0.0	0.0	0.4	0.0	0.0	0.0	0.0	5.3	0.0	0.0	0.0
0.0	0.0	0.1	2.9	0.0	0.0	0.0	0.0	0.2	10.6	17.9	1.6
0.0	0.0	0.0	15.7	0.0	0.0	0.0	0.6	8.5	16.6	4.1	0.6
0.3	0.0	0.0	4.0	0.0	0.0	0.0	0.0	0.3	5.1	0.3	0.1
0.0	0.0	0.0	5.5	0.0	0.0	0.0	0.0	5.5	0.0	0.0	0.1
0.0	0.0	0.0	2.4	0.0	0.0	0.0	0.0	4.5	0.0	0.0	0.0
0.0	0.0	0.0	5.0	0.0	0.0	0.0	0.0	0.0	6.7	0.8	3.3
0.0	-77.0	1.8	0.2	0.0	0.0	0.0	0.0	0.0	3.9	2.2	0.4
0.0	-77.0	1.5	-77.0	0.0	-77.0	0.0	0.0	-77.0	0.1	-77.0	12.3
Jan_2013	Feb_2013	Mar_2013	Apr_2013	May_2013	Jun_2013	Jul_2013	Aug_2013	Sep_2013	Oct_2013	Nov_2013	Dec_2013
0.0	1.0	0.1	3.3	0.0	0.0	0.0	0.0	0.0	8.8	0.0	0.0
0.1	0.3	0.0	1.4	0.0	0.0	0.0	0.2	0.0	10.2	0.5	0.0
0.0	0.0	1.2	10.8	0.0	0.0	0.0	0.0	2.6	2.1	0.0	0.0
0.0	0.0	6.1	8.0	0.0	0.0	0.0	0.0	5.1	0.1	2.2	0.0
0.0	0.1	9.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.5	0.0
0.0	0.1	4.2	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

## ANEXO 8 – Necessidades Hídricas das Culturas

### ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.0	0.0	16.1	0.6	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0
1.5	0.0	20.7	0.0	0.0	0.3	0.0	0.0	0.0	0.0	2.6	0.0
3.6	0.0	14.1	1.9	0.6	0.1	0.0	0.0	0.0	0.0	0.2	0.0
5.3	3.9	10.9	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
2.4	3.1	5.1	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
1.0	0.2	1.3	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
0.1	0.1	0.1	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11.5	0.0	3.8	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.1
5.3	6.9	8.9	0.0	6.0	0.1	0.0	0.0	0.0	0.0	0.0	3.2
9.8	0.1	0.0	0.0	1.2	4.0	0.0	0.0	0.0	24.6	0.0	1.9
25.7	0.2	9.3	0.0	2.1	1.0	0.0	0.0	0.0	1.1	0.0	2.6
7.5	0.0	0.0	0.0	1.9	0.0	0.0	0.0	0.0	0.1	0.0	0.0
3.6	13.7	1.9	0.0	0.0	0.0	0.0	0.0	0.0	3.0	0.0	0.0
17.6	13.2	11.3	0.0	0.0	0.0	0.0	0.0	0.0	18.7	4.4	0.0
5.2	0.6	3.9	0.0	0.0	0.0	0.0	0.0	0.0	15.6	0.0	4.5
0.2	0.0	4.6	0.0	0.0	0.0	0.0	0.0	0.0	35.3	0.0	25.1
5.8	0.0	7.7	0.0	0.0	0.0	0.0	0.0	0.0	7.7	0.0	9.9
0.0	0.0	13.1	0.0	0.0	0.0	0.0	0.0	0.2	2.4	0.0	1.4
2.6	5.5	7.6	0.0	0.0	0.0	0.0	0.0	12.5	0.0	0.0	10.3
0.2	3.9	1.0	0.1	0.0	0.0	1.2	0.0	16.3	5.4	0.0	1.4
0.1	-77.0	19.7	0.6	2.1	0.0	0.0	0.0	5.5	0.0	0.0	0.1
0.0	-77.0	0.1	0.0	0.0	0.0	0.0	0.0	41.9	0.0	0.0	1.2
0.2	-77.0	49.7	-77.0	0.0	-77.0	0.0	0.0	-77.0	0.0	-77.0	10.5
Jan_2014	Feb_2014	Mar_2014	Apr_2014	May_2014	Jun_2014	Jul_2014	Aug_2014	Sep_2014	Oct_2014	Nov_2014	Dec_2014
7.0	3.8	9.8	35.7	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0
14.9	0.0	6.8	14.1	0.0	0.0	4.7	0.1	0.0	0.0	0.5	0.1
11.9	11.6	0.2	0.6	0.0	0.0	1.5	0.4	0.0	0.0	23.2	0.2
12.2	18.5	1.1	11.8	0.0	0.0	0.0	0.0	0.0	0.0	3.5	0.1
0.3	0.6	0.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
8.3	16.3	0.0	0.0	0.0	12.0	1.1	0.0	15.4	0.2	0.1	0.1
20.5	2.2	0.0	0.1	0.0	0.0	0.0	0.0	8.2	1.8	5.3	0.0
0.0	8.6	0.0	0.0	0.0	0.0	0.0	0.0	0.3	7.2	6.5	0.1
0.0	14.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.1	0.7	0.0
0.0	3.8	0.0	0.0	0.0	0.0	0.0	0.0	5.2	3.4	19.0	0.1
0.1	4.5	0.0	0.0	0.0	0.0	0.0	0.0	9.1	2.6	5.7	0.1
6.4	4.9	0.0	0.0	0.0	0.0	0.0	0.1	0.0	16.4	0.4	0.6
2.0	18.7	0.2	0.0	0.0	0.0	0.0	0.0	0.7	15.7	28.9	12.4
4.5	14.7	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.4	5.7	2.4
4.7	0.5	0.0	0.0	0.0	0.0	0.0	0.0	8.9	2.8	3.6	0.0
0.9	0.1	0.0	0.0	0.2	0.0	0.0	0.0	17.9	0.2	0.1	0.5
16.6	0.9	0.0	0.0	0.0	0.0	0.0	0.0	8.3	0.0	0.0	0.0
5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	0.1	5.7	0.1

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

4.1	0.1	0.0	0.0	0.4	0.0	3.9	0.0	1.1	0.0	42.5	0.0
0.3	2.6	0.0	5.5	11.4	0.0	0.2	0.0	2.4	0.0	4.0	0.1
8.1	0.1	1.7	0.5	12.7	1.4	0.0	0.0	4.6	0.0	0.0	0.1
1.7	0.8	2.2	0.0	3.9	0.9	0.0	0.0	11.3	0.0	0.8	0.1
0.0	2.6	0.0	3.8	0.2	4.7	0.0	0.0	1.3	0.0	2.3	0.0
0.1	2.0	3.3	2.6	0.0	0.8	0.0	0.0	0.1	0.0	0.0	0.0
0.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.1	0.0	14.5	0.1
0.6	1.3	6.6	0.1	0.0	0.0	0.0	0.0	1.4	0.0	11.5	0.1
2.7	0.1	8.3	0.0	0.2	0.0	0.0	0.0	0.1	0.0	17.2	1.4
2.5	-77.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.9	0.0
0.1	-77.0	6.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
2.9	-77.0	20.6	-77.0	0.0	-77.0	0.0	0.0	-77.0	0.0	-77.0	0.0
Jan_2015	Feb_2015	Mar_2015	Apr_2015	May_2015	Jun_2015	Jul_2015	Aug_2015	Sep_2015	Oct_2015	Nov_2015	Dec_2015
0.1	0.2	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	4.8	0.0
0.1	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.6	0.0
0.1	1.8	0.0	0.0	6.0	0.0	0.0	0.0	0.0	0.0	4.0	0.0
0.0	0.1	0.0	0.0	3.1	0.0	0.0	0.0	0.0	4.1	5.1	0.0
0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.5	4.6	0.0
0.1	0.4	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.0
0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.5
0.1	0.0	0.0	3.4	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.1	0.0	0.0	9.9	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.1
0.1	0.0	0.0	2.3	0.0	0.0	0.0	0.0	0.0	8.3	0.1	0.0
0.1	1.9	0.0	0.0	0.0	2.2	0.0	0.0	0.0	2.7	0.0	0.0
0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	51.0	0.1	0.0
0.0	0.7	0.0	0.0	0.0	1.6	0.0	0.0	1.7	0.0	0.1	6.7
0.2	3.1	0.0	2.6	0.0	4.5	0.0	0.0	0.2	0.0	0.1	22.1
13.2	2.8	0.0	1.8	0.0	0.3	0.0	0.0	2.9	0.0	0.1	0.0
8.5	0.0	0.0	0.1	0.0	0.0	0.0	0.0	9.4	0.0	0.0	0.1
14.3	0.0	3.4	0.0	0.0	0.0	0.0	0.0	0.1	10.1	0.1	0.0
7.8	0.0	0.6	1.2	0.0	0.0	0.0	0.0	0.0	8.6	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.1	0.2
2.1	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.1	1.6
1.0	1.4	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.1
0.9	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
0.1	0.9	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.0
0.0	0.1	0.4	6.0	0.0	0.0	0.0	0.0	0.0	3.7	0.1	0.1
0.1	0.0	0.0	7.9	0.0	0.0	0.0	0.0	0.0	1.8	0.0	0.0
0.1	0.0	0.0	14.0	0.0	0.0	0.0	0.0	0.0	23.2	0.0	0.0
0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	19.4
2.1	-77.0	0.0	0.0	0.0	0.0	0.0	0.0	7.8	0.0	0.1	0.1
5.0	-77.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	11.7

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

10.7	-77.0	0.0	-77.0	0.0	-77.0	0.0	0.1	-77.0	2.5	-77.0	0.0
Jan_2016	Feb_2016	Mar_2016	Apr_2016	May_2016	Jun_2016	Jul_2016	Aug_2016	Sep_2016	Oct_2016	Nov_2016	Dec_2016
10.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	2.8
0.2	0.1	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
2.2	0.1	0.0	9.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	29.0
6.6	0.0	0.7	16.1	0.0	0.0	4.7	0.0	0.0	0.0	9.8	1.3
7.9	0.0	1.2	0.0	11.7	0.0	0.0	0.0	0.0	0.0	14.9	0.0
5.2	6.1	0.0	0.0	6.8	0.0	0.0	0.0	0.0	0.0	0.1	0.1
2.5	0.1	2.3	0.0	20.2	0.0	2.2	0.0	0.0	0.1	0.1	0.0
14.3	0.6	0.0	0.0	20.6	0.0	0.0	0.0	0.0	0.0	0.1	0.1
2.3	2.4	0.1	0.1	5.0	0.0	0.0	0.0	0.0	0.0	3.0	0.0
6.9	12.9	0.0	4.8	13.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13.3	2.3	0.0	4.1	10.5	0.0	0.0	0.0	0.0	7.5	0.2	0.0
0.2	15.7	0.0	9.2	13.5	0.0	0.0	0.0	0.0	10.7	3.7	0.1
0.0	5.5	0.0	0.2	2.0	0.0	0.0	0.0	17.0	0.9	0.1	0.1
3.7	15.1	0.0	11.3	0.0	0.0	0.0	0.0	2.2	0.0	0.0	21.1
0.0	2.2	5.8	11.1	0.0	3.2	0.0	0.0	0.3	0.0	0.0	5.6
0.0	0.0	0.0	14.2	0.0	1.6	0.0	0.0	0.0	0.3	0.0	2.3
0.0	5.3	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0
0.7	0.2	15.3	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0
7.8	0.1	3.5	18.2	0.0	0.0	0.0	0.0	0.0	0.0	4.8	0.0
3.7	0.1	6.7	2.2	0.0	0.0	0.0	0.0	0.0	0.0	24.2	0.1
6.1	0.4	2.2	4.3	0.0	0.0	0.0	0.0	0.0	0.1	8.1	0.1
1.5	0.0	2.0	0.0	0.6	0.0	0.0	0.0	0.0	16.1	0.6	0.0
0.0	0.1	0.2	0.1	0.0	0.0	0.0	0.0	0.0	6.0	0.1	0.1
0.0	4.6	0.0	0.0	0.7	0.0	0.0	0.0	0.0	11.4	10.0	0.1
21.4	0.3	0.0	0.0	0.5	0.0	0.0	1.5	0.0	1.9	15.2	0.0
0.1	21.9	5.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	0.1
0.1	5.9	0.1	0.0	2.7	0.0	0.0	0.0	0.0	0.0	0.1	0.0
5.0	0.1	0.0	0.0	12.0	0.1	0.0	0.0	0.0	0.0	0.1	0.1
0.1	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.1	0.0
0.1	-77.0	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	-77.0	0.4	-77.0	0.0	-77.0	0.0	0.0	-77.0	0.0	-77.0	0.1
Jan_2017	Feb_2017	Mar_2017	Apr_2017	May_2017	Jun_2017	Jul_2017	Aug_2017	Sep_2017	Oct_2017	Nov_2017	Dec_2017
0.0	2.8	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
1.5	7.9	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.3	0.1
13.9	4.2	15.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.1	0.1
6.7	3.7	8.8	0.0	0.0	0.0	0.0	0.0	0.1	0.0	2.3	0.1
0.2	1.8	1.3	0.0	11.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.1	0.0	0.3	0.0	0.1	0.4	0.1	0.0	0.0	0.0	0.0	0.1
0.1	0.5	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
0.1	5.2	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.6
0.0	5.6	0.0	0.0	16.6	0.0	0.0	0.0	0.0	0.0	0.0	18.0

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.0	2.9	0.0	0.0	14.7	0.0	0.0	0.0	0.0	0.0	0.0	9.8
0.2	16.9	0.0	0.0	8.4	0.0	0.0	0.0	0.0	0.0	0.1	0.1
0.1	2.9	0.0	0.0	2.6	0.0	0.0	0.0	0.0	0.0	0.1	0.4
0.1	6.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2
0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9
0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	5.1	0.0	0.1
0.0	0.2	0.0	0.1	0.0	0.0	0.0	0.0	0.0	12.1	0.0	0.1
0.0	0.1	0.0	0.3	0.0	1.3	0.0	0.0	0.0	0.4	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.1
0.1	0.0	8.2	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
0.1	0.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.2	0.1
0.0	0.0	5.9	0.0	10.4	0.0	0.0	0.0	0.0	0.0	4.6	1.4
0.2	0.0	13.0	0.0	0.2	0.3	0.0	0.0	0.0	0.0	0.0	7.3
15.7	0.0	24.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	11.5
8.3	0.9	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.4
1.2	0.1	0.1	0.0	0.7	5.8	0.0	1.3	0.0	0.0	10.7	2.9
0.7	-77.0	0.0	0.5	0.5	0.0	0.0	2.6	0.0	0.0	0.0	0.9
0.0	-77.0	0.0	4.8	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.0
4.9	-77.0	0.2	-77.0	0.0	-77.0	0.2	0.0	-77.0	0.0	-77.0	2.4
Jan_2018	Feb_2018	Mar_2018	Apr_2018	May_2018	Jun_2018	Jul_2018	Aug_2018	Sep_2018	Oct_2018	Nov_2018	Dec_2018
0.1	0.2	15.9	0.0	0.2	0.0	0.5	0.0	0.0	0.0	0.1	0.1
0.2	0.0	12.3	1.1	0.2	0.0	0.4	0.0	0.0	0.0	1.0	0.1
1.1	0.6	15.4	6.9	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.0
1.0	1.0	9.6	3.0	0.0	1.8	0.0	0.0	0.0	0.0	12.0	0.0
14.2	0.2	12.4	0.0	0.0	0.9	0.0	0.0	0.8	0.0	6.1	0.1
0.2	0.1	5.8	14.3	1.5	0.3	0.0	0.0	0.0	0.0	1.2	0.1
0.1	0.0	7.1	4.3	1.3	3.9	0.0	0.0	0.1	0.0	7.1	0.2
0.1	0.0	2.0	9.2	0.0	4.0	0.0	0.0	0.0	0.0	6.6	0.1
14.8	3.4	44.8	3.7	0.0	1.5	0.0	0.0	0.0	0.0	0.4	0.0
3.8	0.1	8.4	18.1	0.0	1.1	0.0	0.0	0.0	0.0	7.8	0.0
0.5	0.4	12.8	0.3	0.0	0.1	0.0	0.0	0.0	1.4	40.5	0.0
0.1	0.4	0.8	19.3	0.0	0.0	0.0	0.0	0.0	0.0	0.1	1.8
12.7	0.0	1.0	1.7	0.0	0.0	0.0	0.0	0.0	7.6	0.1	8.6
3.4	0.0	20.2	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
0.1	0.1	2.8	4.9	0.0	0.0	0.0	0.0	0.0	8.0	0.1	0.1
0.1	0.1	5.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	6.9
0.1	0.0	17.6	0.1	0.1	0.0	0.0	0.0	0.0	0.8	0.0	0.1
0.1	0.0	0.6	0.0	4.7	0.0	0.0	0.0	0.0	2.7	18.1	10.2
0.1	0.0	15.7	0.0	0.1	0.0	0.0	0.0	0.0	0.2	0.0	0.4
0.1	0.0	0.0	0.0	6.5	1.0	0.0	0.0	0.0	1.1	3.4	0.2
0.1	0.0	0.0	13.4	0.1	13.9	0.0	0.0	0.0	3.9	3.9	0.0
0.2	0.0	0.0	1.8	0.0	5.8	0.0	0.0	0.0	0.2	2.1	0.1

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.1	0.0	6.4	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.1
0.1	0.0	3.6	0.0	19.9	0.0	0.0	0.0	0.0	0.0	5.9	0.0
7.9	0.0	3.2	0.0	9.2	0.0	0.0	0.0	0.0	0.0	17.0	0.0
0.1	2.5	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0
0.0	12.4	0.0	0.0	0.0	0.0	0.0	0.5	0.4	0.0	0.0	0.3
0.0	35.2	0.0	5.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	-77.0	2.7	9.8	0.0	0.2	0.0	0.0	0.0	3.8	14.1	0.1
0.0	-77.0	6.6	2.5	0.0	0.1	0.0	0.0	0.0	10.9	0.2	0.1
0.0	-77.0	0.5	-77.0	0.4	-77.0	0.0	0.0	-77.0	9.5	-77.0	0.0
Jan_2019	Feb_2019	Mar_2019	Apr_2019	May_2019	Jun_2019	Jul_2019	Aug_2019	Sep_2019	Oct_2019	Nov_2019	Dec_2019
0.0	7.8	0.0	6.9	0.0	0.0	0.0	0.0	0.0	0.0	3.9	10.8
0.1	2.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	3.8	0.0
0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	0.0
0.1	0.0	1.3	3.0	0.0	1.0	0.0	0.0	0.0	0.0	3.8	0.9
0.1	0.1	3.1	12.4	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0
0.0	0.0	28.6	7.2	0.0	4.0	0.0	0.0	0.0	0.0	2.1	0.0
0.1	0.0	10.1	4.6	2.2	0.1	0.0	1.2	0.0	0.0	1.7	0.1
0.2	0.0	0.1	2.3	3.6	0.0	0.0	0.7	0.0	0.0	0.2	1.1
0.1	0.0	0.0	5.0	2.4	0.0	0.0	3.8	0.0	0.0	4.5	0.1
0.0	1.7	0.0	0.3	1.0	0.0	0.0	0.3	0.0	0.0	2.3	0.1
0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.7	1.8
0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	6.2
0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	1.8
0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	22.0	7.2	0.1
0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	1.1	3.4
0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	22.8
0.1	0.2	0.0	12.8	0.0	0.0	0.0	0.0	0.0	25.3	13.9	0.1
3.5	17.7	0.0	0.8	0.0	1.4	0.0	0.0	0.0	0.0	0.0	5.2
4.6	0.0	0.0	9.5	0.0	0.1	0.0	0.0	0.0	8.3	2.2	42.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.1	18.5	44.6
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.9	0.1	4.7	8.6
0.2	0.0	0.0	4.1	0.0	0.0	0.0	0.0	0.3	0.0	31.9	0.0
0.3	0.0	0.0	12.9	0.0	0.1	0.7	0.0	0.0	0.0	1.8	0.0
0.0	0.0	0.0	15.2	0.0	1.5	0.0	0.0	0.5	0.0	3.6	0.1
0.1	0.0	0.0	3.6	0.0	0.1	0.0	0.0	0.1	0.0	4.3	0.0
0.0	0.0	0.0	0.1	0.0	0.9	0.0	0.3	0.0	0.0	19.8	0.1
0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.4	0.0
0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	1.4	0.0
1.1	-77.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.5	0.0
5.5	-77.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	3.5	0.1
14.9	-77.0	1.5	-77.0	0.0	-77.0	0.0	0.0	-77.0	3.4	-77.0	0.1
Jan_2020	Feb_2020	Mar_2020	Apr_2020	May_2020	Jun_2020	Jul_2020	Aug_2020	Sep_2020	Oct_2020	Nov_2020	Dec_2020
0.1	2.2	4.5	14.7	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.1	0.1	2.5	0.1	0.1	0.0	0.0	0.0	0.0	3.7	0.0	0.1

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

### ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.0	0.0	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.1
0.1	0.1	0.2	0.1	0.0	0.0	0.0	0.0	0.0	1.3	0.2	12.7
0.1	0.1	2.5	26.4	0.0	0.0	0.0	0.0	0.0	0.0	26.4	0.6
0.0	0.0	0.0	13.9	0.0	0.0	0.0	0.0	0.0	0.0	20.2	1.2
0.1	0.0	0.0	2.8	0.0	0.0	0.0	0.0	0.0	0.1	5.6	1.6
0.2	0.3	0.0	0.4	0.2	0.0	0.0	0.0	0.0	0.0	8.5	1.2
0.0	0.0	0.1	11.2	2.2	0.0	0.0	0.0	0.0	0.0	1.5	1.5
0.1	0.0	0.0	0.1	7.0	0.0	0.0	0.0	0.0	0.0	0.2	7.9
0.1	0.1	0.0	0.0	12.8	0.0	0.1	0.0	0.0	0.0	0.1	5.1
0.1	0.0	0.0	2.6	3.6	4.0	0.0	0.0	0.0	0.0	0.0	1.3
0.0	0.3	0.0	0.7	15.4	0.0	0.0	0.0	0.0	0.0	0.0	1.0
5.0	0.2	0.0	13.3	6.7	0.0	0.0	0.0	0.0	0.0	2.6	5.8
6.7	0.0	0.0	5.8	8.4	0.0	0.0	0.0	0.0	0.0	0.0	0.9
8.3	0.2	0.0	19.7	0.0	0.2	0.0	0.0	0.0	0.0	0.1	9.5
0.9	1.3	0.0	10.0	0.0	0.0	0.0	0.0	9.7	0.0	0.0	0.2
16.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.5	0.0	0.1	0.6
0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	45.3	0.1	13.4
0.0	0.0	24.7	24.9	0.0	0.0	0.0	1.8	0.6	49.1	0.0	0.1
0.0	0.0	4.1	0.1	0.0	0.0	2.3	0.0	0.1	4.8	0.0	0.1
4.5	0.0	0.1	0.0	0.0	0.0	0.0	0.0	3.2	3.4	0.0	0.0
6.6	0.0	1.6	0.0	0.0	0.0	0.0	0.0	6.5	0.2	0.1	0.6
3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.4	0.0
0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.4	33.0	0.1
0.2	0.0	0.0	1.8	0.0	0.0	0.0	0.0	0.0	0.6	4.0	0.0
3.5	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.1
0.9	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	2.6	6.8	2.2
0.6	0.6	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.1	2.3	4.3
0.9	-77.0	2.3	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.3
4.3	-77.0	3.0	-77.0	0.0	-77.0	0.0	0.0	-77.0	0.1	-77.0	3.9

#### 2.1.7 CASTELO DE BODE

Tabela 7. Precipitações diárias na região de cálculo de Castelo de Bode (mm)

Jan_2003	Fev_2003	Mar_2003	Abr_2003	Mai_2003	Jun_2003	Jul_2003	Ago_2003	Set_2003	Out_2003	Nov_2003	Dez_2003
9.5	0.1	4.4	0.0	0.3	0.3	0.1	0.0	0.0	16.3	2.7	6.6
19.8	0.1	1.6	0.0	0.0	0.2	0.0	0.0	0.0	36.7	0.0	0.2
2.2	0.2	0.9	0.0	0.0	0.9	0.0	0.0	0.0	12.8	0.0	4.7
3.1	1.5	0.1	0.0	0.3	2.2	0.0	0.0	0.0	0.0	0.0	0.1
11.2	0.0	1.3	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.0	18.2
9.9	0.5	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.5
17.4	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.3	10.2
10.4	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.3	16.1
7.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	29.0	16.7



Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.0	0.1	0.0	6.3	0.0	0.0	0.0	0.0	0.0	3.1	10.5	0.7
0.0	3.4	0.0	0.8	0.0	0.0	0.0	0.0	0.0	18.2	0.1	0.0
0.1	0.1	0.0	8.0	0.0	0.0	0.3	0.1	0.0	0.1	1.9	0.0
0.1	0.1	0.3	19.8	0.0	0.0	0.3	0.0	0.0	0.1	0.1	0.1
0.1	0.1	0.0	6.1	0.0	0.0	0.9	0.0	0.0	0.0	0.7	0.1
0.2	0.0	0.0	1.7	0.0	0.0	6.2	0.0	0.0	0.4	39.3	0.0
0.1	0.9	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.5	0.0	0.1
0.1	2.5	3.2	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0	11.0
21.0	27.0	0.1	3.7	0.0	0.0	0.0	0.0	0.0	16.1	0.0	8.0
7.9	8.9	0.6	0.7	0.0	0.0	0.0	0.0	0.0	6.7	0.0	0.2
19.0	4.4	0.0	5.5	0.0	0.0	0.0	0.0	0.0	2.1	0.0	0.0
6.7	6.8	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	21.5	0.0
8.3	13.6	0.0	1.3	0.0	0.1	0.0	0.0	0.0	0.3	21.9	0.0
0.0	0.7	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0
0.0	12.9	5.1	0.0	0.0	0.0	0.0	0.1	0.0	0.2	1.2	0.0
0.1	9.0	10.9	19.1	0.0	0.0	0.0	0.1	0.0	27.9	0.1	0.0
0.0	11.3	8.7	0.8	0.0	0.0	0.0	0.0	0.0	14.8	10.3	0.0
0.0	4.4	12.8	0.0	0.0	0.0	0.5	3.6	0.0	27.4	2.3	1.6
0.0	0.0	0.9	1.9	0.0	0.0	0.0	2.7	0.0	3.0	0.1	4.3
0.0	-77.0	26.3	2.5	0.0	2.4	0.0	0.7	0.6	2.0	2.2	0.6
0.1	-77.0	5.5	2.3	0.7	0.1	0.0	2.3	31.8	8.6	14.0	0.8
0.0	-77.0	0.0	-77.0	0.0	-77.0	0.0	9.3	-77.0	40.8	-77.0	0.7
Jan_2004	Feb_2004	Mar_2004	Apr_2004	May_2004	Jun_2004	Jul_2004	Aug_2004	Sep_2004	Oct_2004	Nov_2004	Dec_2004
0.3	3.1	0.0	7.4	5.2	0.0	0.0	0.0	0.0	0.0	0.5	20.3
0.0	2.9	0.0	3.6	0.6	0.0	0.0	0.0	9.0	0.0	13.7	0.4
0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	3.1	0.0	6.3	0.0
0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	5.1	0.0	0.2	0.0
0.0	0.0	2.5	0.0	4.1	0.0	0.0	0.0	0.7	0.0	0.0	0.0
0.0	0.1	0.6	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0
3.0	0.1	0.0	0.0	0.0	0.0	0.0	9.7	0.3	4.0	0.0	0.0
1.4	0.0	0.0	0.0	5.2	0.0	0.0	0.0	0.0	2.6	0.0	0.0
0.2	0.0	0.5	0.0	1.9	0.0	0.0	0.6	0.0	2.1	0.0	0.0
0.2	0.0	0.8	0.0	0.0	0.0	0.0	1.1	0.0	1.6	0.0	0.0
0.0	0.0	14.6	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0
0.6	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.8
3.6	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0
2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0
0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0
0.5	0.0	0.0	0.0	0.0	0.0	0.0	3.8	0.0	0.1	0.0	0.0
0.0	0.0	0.0	2.1	0.0	0.0	0.0	5.2	0.0	24.4	0.0	0.0
0.0	0.0	0.0	0.4	0.0	0.0	0.0	1.0	0.0	22.5	0.0	0.6
0.0	0.0	0.0	0.7	0.2	0.0	0.0	0.0	0.0	13.0	0.0	0.0
0.0	1.3	0.0	18.1	2.7	0.0	0.0	0.0	0.0	2.3	0.0	0.0

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.0	7.3	0.0	7.5	16.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	8.6	0.0	0.0	3.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0
0.0	3.1	0.9	0.0	13.3	0.0	0.0	0.0	0.0	19.4	0.0	0.0
1.0	17.6	0.0	0.0	4.5	0.0	0.0	0.0	0.0	3.1	0.0	3.0
20.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	0.1	1.2
11.0	2.5	0.7	0.0	0.0	0.1	0.0	0.0	0.0	14.2	0.3	0.0
0.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	9.2	0.8	1.5
6.9	0.7	0.6	0.0	0.0	0.0	0.0	0.0	0.0	12.7	0.7	0.1
18.1	-77.0	1.1	1.8	0.0	0.0	0.0	0.0	0.0	7.0	4.3	0.0
21.6	-77.0	15.6	-77.0	0.0	-77.0	0.0	0.0	-77.0	2.8	-77.0	0.0
Jan_2005	Feb_2005	Mar_2005	Apr_2005	May_2005	Jun_2005	Jul_2005	Aug_2005	Sep_2005	Oct_2005	Nov_2005	Dec_2005
0.0	0.0	0.0	1.4	1.4	0.0	0.0	0.0	0.0	0.0	0.2	17.3
0.0	0.0	0.0	12.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	28.7
0.0	0.0	0.0	3.9	0.0	0.0	0.0	0.0	0.1	0.0	28.9	1.1
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.2	1.0
0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.2
0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	4.3	0.0	0.0	0.1
0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0
0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1	0.0
0.1	0.0	0.0	0.0	0.0	0.0	0.0	3.8	2.7	1.8	0.1	0.0
0.0	0.0	0.2	0.0	1.7	0.0	0.0	4.0	0.0	25.5	0.0	0.0
0.0	0.0	0.1	0.0	1.8	0.0	0.0	0.0	0.0	8.4	0.0	0.0
0.0	0.0	0.0	0.0	2.8	0.0	0.0	0.0	0.0	8.1	0.1	0.0
4.5	0.0	0.0	0.0	7.5	0.1	0.0	0.0	0.0	0.1	0.9	0.0
0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.1	1.5	0.0
0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0
0.0	0.0	0.0	0.2	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	1.0	0.0	0.0	0.1	0.0	0.0	2.5	0.0	0.0
0.0	0.0	0.0	2.6	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.0
0.0	0.0	0.0	0.4	0.0	0.1	0.0	0.0	0.0	0.0	18.1	0.1
0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	7.3	15.4	0.0
0.0	0.0	7.7	0.0	0.0	0.0	0.0	0.0	0.0	18.9	2.2	0.0
0.0	4.1	0.0	0.2	0.0	0.0	0.0	0.0	0.0	22.6	0.6	0.0
0.1	6.4	1.2	4.6	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
0.1	0.8	0.0	2.4	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
0.0	0.1	25.5	0.3	0.0	0.0	0.0	0.0	0.1	0.0	3.0	7.7
0.0	0.2	12.1	0.0	0.0	0.0	0.3	0.0	0.0	10.6	6.2	19.2
0.0	0.1	2.2	0.0	0.0	0.0	1.1	0.0	0.0	44.2	3.7	2.0
0.0	0.1	11.8	0.0	0.0	0.0	0.2	0.0	0.0	4.9	0.5	0.3
0.0	-77.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	6.8	0.2	0.2
0.0	-77.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35.4	0.0	0.2
0.0	-77.0	0.0	-77.0	3.6	-77.0	0.0	0.0	-77.0	5.6	-77.0	1.5
Jan_2006	Feb_2006	Mar_2006	Apr_2006	May_2006	Jun_2006	Jul_2006	Aug_2006	Sep_2006	Oct_2006	Nov_2006	Dec_2006
0.6	0.5	0.0	0.1	0.0	0.0	0.0	0.0	0.5	0.0	0.1	0.0

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

### ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.0	5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.6	4.0	10.0
0.0	12.7	11.8	0.0	0.0	0.0	0.0	0.0	0.0	1.4	23.6	1.5
0.1	0.1	30.5	1.6	0.0	0.0	0.0	0.0	0.0	1.3	27.9	2.9
1.5	0.1	0.0	19.1	0.0	0.0	0.0	0.0	0.0	0.0	52.1	16.8
5.4	0.1	0.0	7.1	0.0	0.0	0.0	0.0	0.0	0.0	14.3	1.8
0.1	0.0	0.1	0.3	0.0	0.0	0.0	0.0	0.0	0.0	2.5	7.2
0.1	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.3
0.0	0.0	0.5	0.6	0.0	0.6	0.0	0.0	0.1	0.0	0.0	4.0
0.1	0.9	0.2	0.0	0.0	0.0	0.0	0.0	0.0	1.6	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	4.2	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0
3.2	0.0	0.0	1.2	0.0	2.5	0.0	0.0	11.4	0.0	0.0	0.0
2.1	0.0	0.0	12.3	0.0	21.7	4.8	0.0	0.1	0.0	0.1	0.1
17.5	0.2	0.0	21.4	0.0	3.9	0.0	0.0	1.7	0.0	24.7	0.0
0.1	2.1	0.0	0.8	0.0	20.1	0.0	4.3	0.0	25.8	7.6	0.0
0.0	7.8	36.9	0.4	0.0	0.2	0.0	4.1	0.0	4.8	10.9	0.0
0.0	17.0	20.3	0.0	0.0	0.0	0.3	5.6	0.0	25.7	2.6	0.1
0.0	9.5	7.4	0.1	0.0	0.0	0.0	0.7	0.0	10.5	0.1	0.1
0.1	8.0	8.7	1.7	0.0	0.0	0.0	0.0	0.0	10.9	0.3	0.1
0.1	0.3	2.1	2.7	0.1	0.0	0.0	0.0	34.9	0.8	1.0	0.1
0.0	0.0	2.4	13.9	0.2	0.0	0.0	0.0	2.2	33.7	1.0	0.1
0.0	0.0	32.5	1.0	0.0	0.0	0.0	0.0	22.7	17.4	15.5	0.0
0.0	2.3	10.8	0.0	0.0	0.0	0.0	0.0	6.2	27.0	77.2	0.1
0.0	12.4	0.2	0.0	0.0	0.0	0.0	0.0	1.6	29.4	2.9	0.0
0.0	1.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	19.1	0.3	0.0
0.0	0.4	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.2	15.6	0.0
3.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.5	0.0	8.8	0.0
3.0	-77.0	0.1	0.0	0.0	0.0	0.0	0.0	0.4	0.0	3.2	3.4
0.0	-77.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9	0.0	0.0	1.2
0.0	-77.0	0.0	-77.0	0.0	-77.0	0.0	0.0	-77.0	0.1	-77.0	0.0
Jan_2007	Feb_2007	Mar_2007	Apr_2007	May_2007	Jun_2007	Jul_2007	Aug_2007	Sep_2007	Oct_2007	Nov_2007	Dec_2007
0.1	0.0	0.8	0.0	25.9	0.0	0.0	0.0	0.0	1.7	0.0	0.0
0.2	0.0	0.1	7.5	10.7	0.0	0.0	0.0	0.0	2.5	0.0	0.1
0.2	0.1	0.0	4.3	0.5	0.0	0.0	0.0	0.0	2.7	0.0	0.0
0.1	0.1	5.8	0.1	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.2
0.2	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
0.1	0.2	5.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
0.3	9.8	4.1	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
0.0	26.5	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.1	1.4	0.0	3.1	0.0	4.7	0.0	0.0	0.0	0.0	0.0	0.4
0.1	1.1	0.0	4.4	0.0	10.4	0.0	0.0	0.1	0.0	0.0	0.0
0.0	5.2	0.0	10.6	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0
0.0	10.5	0.0	0.8	0.1	0.0	0.0	0.0	2.0	0.0	0.0	0.0
0.0	2.5	0.0	0.1	1.3	0.1	0.0	0.0	0.0	0.0	0.0	0.1

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

## ANEXO 8 – Necessidades Hídricas das Culturas

### ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.0	6.4	0.0	0.0	0.3	17.0	0.0	0.7	0.0	0.0	0.0	0.1
0.0	0.2	0.0	0.0	0.0	0.2	1.3	1.9	0.1	0.0	0.0	0.0
1.8	12.2	0.0	0.0	0.0	22.1	1.2	0.0	0.4	0.1	0.0	0.0
0.3	1.5	0.0	0.1	0.0	15.8	0.0	0.0	0.1	0.0	0.0	0.0
0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	12.2	0.0	0.0	6.7
0.0	14.2	0.1	1.0	0.0	5.4	0.0	0.0	0.0	0.0	66.4	20.4
0.0	4.6	0.0	6.8	0.8	0.3	0.0	0.0	2.3	0.0	16.9	2.2
0.1	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.8	0.1
3.6	4.9	0.0	0.0	12.4	0.0	0.0	0.0	0.0	0.0	2.5	0.0
0.5	0.5	0.0	0.0	0.6	0.0	1.0	0.0	0.0	0.0	0.1	0.0
0.2	0.1	0.0	0.1	0.6	0.0	0.0	0.0	0.0	1.9	0.0	2.4
2.2	3.7	0.9	4.6	0.7	0.0	0.0	0.0	0.0	0.2	0.0	6.0
0.1	0.4	4.9	0.1	0.3	0.0	0.0	1.1	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.1	2.5	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.0	-77.0	0.0	0.1	0.0	0.0	0.0	0.0	12.4	0.0	0.1	0.0
3.5	-77.0	2.7	2.5	0.6	0.0	0.0	0.0	22.5	0.0	0.0	0.0
0.6	-77.0	5.7	-77.0	0.0	-77.0	0.0	0.0	-77.0	0.0	-77.0	0.1
Jan_2008	Feb_2008	Mar_2008	Apr_2008	May_2008	Jun_2008	Jul_2008	Aug_2008	Sep_2008	Oct_2008	Nov_2008	Dec_2008
11.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	2.4
9.3	2.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	3.2
32.8	13.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.5	10.4
4.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	0.0	1.3	0.3
3.0	0.1	0.0	0.0	0.0	0.1	0.0	0.0	11.7	0.0	0.0	1.7
0.1	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.2	4.6
0.1	0.0	0.0	8.0	1.3	0.0	0.0	0.0	0.0	4.5	2.4	7.9
0.4	0.0	0.0	11.0	0.3	0.0	0.0	0.0	0.0	0.1	0.0	0.9
3.4	0.0	0.3	27.6	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1
4.1	0.0	11.0	9.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.2	0.0	0.5	0.3	0.4	0.0	0.3	0.0	0.1	1.0	1.3	2.3
0.1	0.0	0.1	0.0	0.8	0.3	0.0	0.0	0.0	1.1	0.6	3.1
13.2	0.0	0.0	3.5	0.6	0.0	0.0	0.0	0.0	2.2	0.2	9.8
4.0	0.0	0.0	0.1	1.8	0.0	0.0	0.0	0.0	1.1	0.0	9.0
4.7	0.0	0.3	0.0	11.4	2.1	0.0	0.0	0.0	0.0	0.0	0.3
1.4	0.0	0.0	12.3	0.6	5.9	0.0	0.0	0.0	0.1	0.0	0.0
0.4	19.8	4.4	31.6	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0
0.1	49.8	3.1	14.7	4.6	0.0	0.0	0.0	0.0	0.1	0.0	0.0
0.1	13.7	9.6	19.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.1
0.1	0.7	0.1	11.6	5.4	0.0	0.0	0.0	0.1	0.2	0.0	0.1
0.0	0.6	0.0	1.5	0.0	0.0	0.0	0.0	0.9	1.5	0.0	1.0
0.0	0.1	0.4	0.0	13.6	0.0	0.0	0.0	3.1	0.1	0.0	0.5
0.0	2.4	0.0	0.1	12.2	0.0	0.0	0.1	1.7	0.0	0.0	0.0
0.0	14.3	0.0	0.0	8.8	0.0	0.0	0.0	0.0	0.0	1.1	0.0
0.0	5.0	0.0	0.0	1.8	0.0	1.2	0.0	0.0	0.0	1.8	0.0

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.0	0.0	0.7	0.0	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.1
0.0	0.1	2.1	0.0	9.7	0.0	0.0	0.0	0.0	0.2	0.0	22.7
0.0	2.1	0.0	0.0	2.9	0.0	0.0	0.0	0.0	0.0	15.7	3.1
0.0	0.0	0.5	0.2	2.2	0.0	0.0	0.0	0.1	0.0	10.7	5.5
0.0	-77.0	1.7	0.2	3.6	0.0	0.0	0.0	0.0	4.2	2.7	1.6
0.0	-77.0	0.0	-77.0	0.0	-77.0	0.0	0.1	-77.0	4.6	-77.0	8.2
Jan_2009	Feb_2009	Mar_2009	Apr_2009	May_2009	Jun_2009	Jul_2009	Aug_2009	Sep_2009	Oct_2009	Nov_2009	Dec_2009
11.6	22.5	4.0	0.0	0.4	0.0	0.0	1.6	0.0	0.1	0.6	3.1
8.0	2.4	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.8
9.2	8.2	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4
0.0	8.5	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	0.0
0.0	6.2	2.7	0.0	0.0	9.5	0.0	0.0	0.0	5.7	0.3	1.7
0.0	4.3	0.9	0.0	0.0	7.4	0.0	0.0	0.0	10.9	3.5	4.6
0.0	0.1	0.0	0.0	0.0	0.5	0.0	0.0	0.0	27.9	0.3	5.1
0.0	2.8	0.0	0.5	0.0	3.2	0.0	0.0	0.9	0.2	0.9	0.0
0.1	8.2	0.0	1.4	7.9	0.2	0.0	0.0	1.8	0.0	0.0	0.3
0.3	0.3	0.0	1.4	3.9	0.0	0.0	0.0	1.0	0.0	0.0	0.0
0.0	0.0	0.0	0.3	10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
0.1	0.1	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.2	0.1
8.6	0.0	0.0	1.5	0.3	0.0	0.0	0.0	0.6	0.0	3.6	0.0
0.2	0.0	0.0	12.6	0.1	0.3	0.0	0.0	0.0	0.0	11.0	0.0
17.0	0.0	0.0	21.0	0.0	3.2	0.0	3.1	0.0	0.0	11.4	0.2
6.5	0.0	0.0	9.9	0.6	2.2	0.0	0.0	0.0	0.0	14.2	9.1
0.1	0.0	0.0	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9
3.7	0.0	0.0	10.5	0.0	0.0	0.0	0.0	1.4	0.0	0.2	1.9
20.8	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.1	0.0	7.3
1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.7	9.7	10.2
26.3	0.0	0.0	0.0	0.0	0.0	4.7	0.0	0.0	2.7	0.1	11.3
22.8	0.0	0.0	0.0	1.6	0.0	2.2	0.0	0.0	0.8	0.1	16.4
4.0	0.0	0.0	0.0	4.4	0.0	0.0	0.0	0.0	0.0	0.1	4.6
11.0	0.0	0.0	0.3	0.2	0.8	0.0	0.0	0.0	0.0	7.2	10.4
6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	0.5
1.4	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0	2.6	11.0
6.4	2.6	0.0	0.1	0.0	32.1	0.0	0.0	0.2	0.0	1.0	35.1
5.1	-77.0	0.0	0.5	0.0	4.3	0.0	0.0	0.1	0.0	19.1	33.5
15.9	-77.0	0.0	1.5	0.0	0.0	0.0	0.0	2.3	0.0	1.3	11.8
8.1	-77.0	0.0	-77.0	0.0	-77.0	0.0	0.0	-77.0	0.1	-77.0	17.1
Jan_2010	Feb_2010	Mar_2010	Apr_2010	May_2010	Jun_2010	Jul_2010	Aug_2010	Sep_2010	Oct_2010	Nov_2010	Dec_2010
4.7	0.1	1.8	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	3.8
0.4	0.0	8.1	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.2
14.7	2.5	1.4	3.0	0.0	0.0	0.0	0.0	0.0	23.8	0.0	0.4
13.1	5.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.6
0.1	0.5	21.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	43.3

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

## ANEXO 8 – Necessidades Hídricas das Culturas

### ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

1.1	0.0	7.2	0.0	0.0	0.0	0.0	0.0	0.3	2.8	0.0	9.8
0.1	3.2	2.6	0.5	2.1	0.0	0.0	0.0	0.9	9.0	0.0	7.0
0.0	4.9	7.9	0.9	14.7	5.6	0.0	0.1	0.0	34.8	3.4	15.3
0.1	0.6	1.6	0.0	15.4	8.9	0.0	0.0	0.0	11.4	3.4	6.8
7.3	11.7	0.1	0.0	0.1	3.8	0.0	0.0	0.0	1.4	1.0	0.0
4.4	0.7	0.0	0.0	0.9	1.0	0.0	0.0	0.0	0.1	0.0	0.0
37.0	0.0	0.0	0.4	0.7	0.0	0.0	0.0	0.0	0.0	0.0	2.2
15.8	0.0	0.0	8.6	0.1	0.0	0.0	0.0	0.0	0.0	0.2	0.2
4.6	2.1	0.0	15.9	0.3	0.0	0.0	0.0	0.0	0.0	26.3	0.0
5.5	10.2	0.0	12.3	0.0	0.0	0.0	0.2	0.0	0.0	0.6	0.1
6.8	8.3	0.0	8.5	0.0	0.0	0.0	0.0	0.1	0.0	1.3	0.0
1.0	8.1	0.0	11.9	0.0	0.0	0.0	0.0	1.3	0.0	16.8	0.0
0.8	2.2	0.5	13.8	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2
0.5	0.4	6.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0	13.0	0.1
1.1	5.0	3.8	2.9	0.0	0.0	0.0	0.0	0.0	0.0	8.6	46.6
0.0	18.4	0.9	6.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	27.1
0.0	18.1	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.5	4.5
0.2	14.1	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	0.9
0.1	3.4	10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.2
0.1	11.8	6.3	0.0	3.2	0.3	0.0	0.0	0.0	0.1	0.1	7.9
0.0	3.7	1.1	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	20.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	9.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.2
0.0	-77.0	7.2	0.0	0.0	0.0	0.0	0.0	0.0	27.8	9.5	7.4
0.0	-77.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	26.6	13.8	17.7
0.4	-77.0	0.4	-77.0	0.0	-77.0	0.0	0.3	-77.0	13.4	-77.0	27.8
Jan_2011	Feb_2011	Mar_2011	Apr_2011	May_2011	Jun_2011	Jul_2011	Aug_2011	Sep_2011	Oct_2011	Nov_2011	Dec_2011
0.5	0.1	0.0	0.0	1.1	0.0	0.0	1.0	33.8	0.0	2.2	0.0
0.0	0.0	0.0	0.1	0.7	0.0	0.0	0.0	7.4	0.0	25.5	1.3
0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.5	0.0
2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	4.1	0.0
5.9	0.0	3.4	0.0	0.0	4.9	0.0	0.0	0.0	0.0	5.9	0.3
37.7	0.0	0.5	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.1
5.2	0.0	0.1	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.4	0.1
11.6	0.0	5.4	0.0	0.0	0.3	0.0	0.0	0.0	0.0	7.1	0.2
0.9	0.6	4.5	0.0	0.0	0.8	0.0	0.0	0.0	0.0	29.4	0.2
6.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	10.5
0.6	0.4	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.5	3.8
0.0	0.1	8.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8
0.2	13.4	15.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.7	1.4
0.1	12.4	13.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26.7	4.0
0.0	10.6	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.5	0.2
0.1	18.3	0.0	0.0	11.2	0.0	0.0	0.0	0.0	0.0	1.0	3.5
2.7	2.2	0.0	0.0	3.4	0.0	0.3	0.0	0.0	0.0	3.7	0.1

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.1	4.9	0.0	14.4	17.3	0.0	0.2	0.0	0.0	0.0	11.7	0.0
0.1	28.3	0.0	15.4	0.6	0.0	0.4	0.0	0.0	0.0	5.4	0.1
0.0	1.5	0.0	10.2	0.0	0.0	0.0	0.2	0.0	0.0	0.4	0.0
0.0	0.0	0.0	20.1	0.0	0.0	0.1	4.7	0.0	0.0	0.5	0.0
0.0	0.0	0.0	6.6	0.0	0.0	0.0	0.1	0.0	0.0	17.4	0.1
0.0	0.0	0.0	6.6	1.7	0.0	0.0	0.1	0.0	30.1	0.0	0.1
0.0	0.0	1.5	0.1	1.5	0.0	0.0	0.0	0.0	12.8	0.0	0.0
0.0	0.0	2.2	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0
0.0	0.0	7.7	0.0	0.5	0.0	0.0	1.0	0.0	28.8	0.0	0.0
6.6	0.0	1.7	0.0	0.1	0.0	0.0	0.0	0.0	8.9	0.1	0.1
5.6	0.0	1.8	0.2	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.1
1.2	-77.0	0.1	12.6	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.1	-77.0	0.0	11.4	5.1	0.0	0.0	0.2	0.0	0.0	0.0	0.0
0.0	-77.0	0.0	-77.0	0.0	-77.0	0.0	16.1	-77.0	1.0	-77.0	0.0
Jan_2012	Feb_2012	Mar_2012	Apr_2012	May_2012	Jun_2012	Jul_2012	Aug_2012	Sep_2012	Oct_2012	Nov_2012	Dec_2012
0.5	0.9	0.0	1.2	2.4	0.0	0.0	0.0	0.0	0.0	0.3	0.1
0.7	0.1	0.0	3.0	20.5	1.0	0.0	0.0	0.0	0.0	4.4	0.1
0.0	0.1	0.6	0.0	14.3	0.0	0.0	0.0	0.0	0.0	10.2	0.4
0.0	0.0	0.5	0.0	1.6	0.0	0.0	0.0	0.0	0.0	17.3	1.1
0.0	0.0	0.0	0.5	1.6	0.2	0.0	0.0	0.0	0.0	0.1	0.0
0.0	0.0	0.0	4.4	3.6	0.1	0.0	0.0	0.0	0.0	0.0	12.7
0.0	0.0	0.0	0.2	21.4	0.5	0.0	0.0	0.2	0.0	20.8	10.0
0.0	0.0	0.1	0.0	0.8	0.0	0.0	0.0	0.0	0.0	7.8	0.1
0.2	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1	3.3	0.1
0.1	0.0	0.0	3.0	0.0	0.4	0.0	0.0	0.0	0.0	2.5	0.0
0.0	0.0	0.0	0.8	0.0	0.7	0.0	0.0	0.0	4.2	1.3	0.0
0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
0.3	0.0	0.0	3.5	0.0	0.0	0.0	0.0	0.0	0.1	0.0	2.3
1.7	0.0	0.0	11.6	0.0	0.0	0.0	0.1	0.0	0.7	0.0	30.2
6.1	0.0	0.0	0.6	0.0	0.0	0.0	9.3	0.0	0.0	10.4	1.6
0.1	0.0	0.1	0.1	0.0	0.5	0.0	0.5	0.0	0.0	6.3	3.3
0.0	0.0	0.8	0.6	0.0	0.0	0.0	0.0	0.0	23.5	23.1	4.4
0.1	0.0	0.8	5.1	1.7	0.0	0.0	0.0	0.0	18.3	0.0	0.6
0.0	0.0	0.0	3.6	0.5	0.0	0.0	0.0	0.0	2.3	0.0	1.3
0.0	0.0	0.0	5.7	8.3	0.4	0.0	0.0	0.0	0.2	6.6	2.4
0.0	0.0	0.0	2.3	0.0	0.1	0.0	0.0	0.0	0.4	0.6	0.8
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	0.0	0.1
0.2	0.0	0.0	0.8	0.0	0.0	0.0	0.0	8.1	0.0	0.1	0.1
0.0	0.0	0.3	6.1	0.0	0.0	0.0	0.0	0.8	4.7	26.7	1.8
0.0	0.0	0.0	18.0	0.0	0.0	0.0	0.5	15.0	17.2	9.1	1.2
0.4	0.0	0.0	4.6	0.0	0.0	0.0	0.0	0.0	6.8	0.7	0.2
0.0	0.0	0.0	3.5	0.0	0.0	0.0	0.0	7.9	0.0	0.2	0.0
0.0	0.0	0.0	3.5	0.0	0.0	0.0	0.0	5.1	0.6	0.0	0.1
0.0	0.0	0.0	5.4	0.0	0.0	0.0	0.0	0.0	4.6	1.3	5.8

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.0	-77.0	1.1	0.3	0.0	0.0	0.0	0.0	0.0	7.2	2.3	0.1
0.0	-77.0	0.9	-77.0	0.0	-77.0	0.0	0.0	-77.0	0.1	-77.0	7.9
Jan_2013	Feb_2013	Mar_2013	Apr_2013	May_2013	Jun_2013	Jul_2013	Aug_2013	Sep_2013	Oct_2013	Nov_2013	Dec_2013
0.0	1.7	0.0	4.2	0.0	0.0	0.0	0.0	0.0	10.2	0.0	0.0
0.1	0.1	0.0	1.3	0.0	0.0	0.1	0.3	0.0	10.0	0.7	0.0
0.0	0.0	0.9	13.3	0.0	0.0	0.0	0.0	3.6	4.6	0.1	0.0
0.0	0.0	8.7	6.0	0.0	0.0	0.0	0.0	7.2	0.1	3.4	0.0
0.0	0.0	12.6	0.0	0.0	0.0	0.0	0.0	1.6	0.0	0.8	0.0
0.0	0.0	5.8	0.0	0.0	0.5	0.0	0.0	0.1	0.0	0.0	0.0
0.0	0.0	11.8	1.1	0.0	3.7	0.0	0.0	0.1	0.0	0.0	0.0
0.4	0.0	16.9	0.0	0.0	0.3	0.0	0.0	0.0	0.0	3.0	0.0
4.1	0.0	12.8	1.4	1.6	0.4	0.0	0.0	0.0	0.0	0.3	0.0
10.6	5.3	11.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
2.0	4.5	5.2	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0
1.9	1.1	1.4	0.7	0.0	0.0	0.2	0.1	0.0	0.0	0.0	0.1
1.1	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	3.7
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
0.0	0.0	0.3	0.0	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13.4	0.1	4.5	0.0	3.0	0.0	0.0	0.1	0.0	0.0	0.1	0.0
10.2	9.3	9.9	0.0	8.2	0.7	0.0	0.0	0.0	0.1	0.0	4.7
17.2	0.3	0.0	0.0	1.7	5.7	0.0	0.0	0.0	36.9	0.0	2.6
22.0	2.1	6.8	0.0	2.6	2.4	0.0	0.1	0.0	0.8	0.0	2.1
9.0	0.1	0.1	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7.7	15.1	4.5	0.0	0.1	0.0	0.0	0.0	0.0	4.3	0.0	0.0
20.0	18.6	8.8	0.0	0.0	0.0	0.0	0.0	0.0	20.7	4.6	0.0
7.3	0.6	4.7	0.0	0.0	0.0	0.0	0.0	0.0	6.6	0.0	2.5
1.2	0.0	5.6	0.0	0.0	0.0	0.0	0.0	0.0	40.2	0.0	22.8
13.8	0.1	14.3	0.0	0.0	0.0	0.0	0.0	0.1	8.4	0.0	9.6
0.1	0.0	14.5	0.1	0.0	0.0	0.0	0.0	0.2	3.2	0.0	2.1
6.7	4.1	6.4	0.0	0.0	0.0	0.0	0.0	15.2	0.0	0.0	14.5
0.6	3.2	2.6	1.3	0.1	0.0	1.0	0.0	16.1	7.7	0.0	1.8
0.0	-77.0	20.8	0.4	4.4	0.0	0.0	0.0	5.0	0.2	0.0	0.1
0.0	-77.0	0.2	0.0	0.0	0.0	0.0	0.0	50.9	0.0	0.0	1.9
0.4	-77.0	47.4	-77.0	0.1	-77.0	0.0	0.0	-77.0	0.0	-77.0	12.5
Jan_2014	Feb_2014	Mar_2014	Apr_2014	May_2014	Jun_2014	Jul_2014	Aug_2014	Sep_2014	Oct_2014	Nov_2014	Dec_2014
10.3	5.3	8.7	34.9	0.0	0.0	0.1	0.0	0.0	0.0	0.2	0.0
16.6	0.0	6.8	6.4	0.0	0.0	1.9	0.2	0.0	0.0	5.3	0.1
12.0	14.6	1.7	1.1	0.0	0.0	0.6	0.9	0.0	0.0	26.2	0.1
13.2	22.1	1.0	14.4	0.0	0.0	0.0	0.0	0.0	0.0	4.9	0.1
0.3	1.0	0.5	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.1
8.9	19.1	0.0	0.0	0.0	13.7	1.0	0.0	21.3	0.8	0.4	0.1
21.1	1.8	0.0	0.1	0.0	0.1	0.0	0.0	16.8	1.7	8.9	0.0
0.0	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	14.7	9.2	0.1
0.0	22.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.5	0.9	0.0



Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

## ANEXO 8 – Necessidades Hídricas das Culturas

### ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.0	3.4	0.0	0.0	0.0	0.0	0.0	0.0	4.7	2.3	23.3	0.1
0.1	6.4	0.0	0.0	0.0	0.0	0.0	0.0	11.9	2.2	7.3	0.1
7.5	6.8	0.0	0.0	0.0	0.0	0.0	0.3	0.1	28.6	0.7	1.6
3.1	16.9	0.2	0.0	0.0	0.0	0.0	0.0	5.0	17.7	27.7	17.2
6.0	15.5	0.0	0.0	0.0	0.0	0.0	0.0	10.1	1.7	8.6	2.4
5.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0	9.4	6.3	4.5	0.0
0.8	0.0	0.0	0.0	0.5	0.0	0.0	0.0	17.3	0.5	0.2	1.3
23.2	1.6	0.0	0.0	0.0	0.0	0.0	0.0	15.0	0.3	0.0	0.0
5.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3	0.4	5.7	0.0
4.1	0.0	0.1	0.0	0.3	0.0	4.6	0.0	4.0	0.0	46.3	0.0
0.4	2.7	0.2	3.3	15.4	0.0	0.4	0.0	3.4	0.0	3.6	0.2
8.7	0.2	4.1	0.2	15.6	3.6	0.0	0.0	4.5	0.0	0.0	0.2
1.4	0.4	1.5	0.1	7.8	2.8	0.0	0.0	11.6	0.0	1.0	0.0
0.0	3.7	0.0	4.9	0.3	6.2	0.0	0.0	3.7	0.0	3.9	0.0
0.0	3.6	3.6	3.4	0.0	0.3	0.0	0.0	0.1	0.0	0.0	0.0
0.0	1.8	1.7	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
0.1	0.1	0.7	2.9	0.0	0.0	0.0	0.0	0.0	0.0	13.8	0.0
0.7	1.2	5.8	0.2	0.4	0.0	0.0	0.0	1.3	0.0	13.5	0.0
3.9	0.3	8.0	0.0	0.3	0.5	0.0	0.0	0.1	0.0	14.5	2.4
4.5	-77.0	0.1	0.0	0.4	0.0	0.0	0.0	0.1	0.0	0.7	0.1
0.3	-77.0	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
2.8	-77.0	22.8	-77.0	0.0	-77.0	0.0	0.0	-77.0	0.0	-77.0	0.0
Jan_2015	Feb_2015	Mar_2015	Apr_2015	May_2015	Jun_2015	Jul_2015	Aug_2015	Sep_2015	Oct_2015	Nov_2015	Dec_2015
0.0	0.5	0.0	0.0	0.2	0.0	0.7	0.0	0.0	0.0	2.2	0.0
0.1	6.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.8	0.0
0.0	2.9	0.0	0.0	7.2	0.0	0.0	0.0	0.0	0.2	5.8	0.1
0.1	0.1	0.0	0.0	6.7	0.0	0.0	0.0	0.0	5.2	7.5	0.0
0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	23.8	5.4	0.0
0.1	0.9	0.0	2.1	0.0	0.0	0.0	0.0	0.0	1.4	0.3	0.0
0.1	0.1	0.0	0.2	0.0	1.1	0.0	0.0	0.0	0.0	0.1	0.8
0.1	0.0	0.0	3.3	2.5	0.0	0.0	0.0	0.0	0.0	0.1	0.0
0.1	0.0	0.0	4.9	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.1
0.0	0.0	0.0	1.9	0.0	0.0	0.0	0.0	0.0	12.5	0.1	0.0
0.0	2.3	0.0	0.1	0.0	2.8	0.0	0.0	0.0	5.9	0.0	0.0
0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	43.7	0.1	0.0
0.1	2.1	0.0	0.0	0.0	2.7	0.0	0.0	1.6	1.1	0.0	11.8
0.1	5.7	0.0	3.4	0.0	7.1	0.0	0.0	0.4	0.0	0.1	26.1
15.9	0.9	0.0	2.5	0.0	0.8	0.0	0.0	8.2	0.0	0.0	0.3
10.5	0.0	0.0	0.2	0.0	0.0	0.0	0.0	10.9	0.0	0.1	0.0
16.0	0.0	4.0	0.0	0.0	0.0	0.0	0.0	0.3	15.0	0.1	0.0
8.1	0.0	2.4	2.8	0.0	0.0	0.0	0.0	0.0	9.8	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	0.0	1.1
2.7	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.1	1.4
1.6	2.4	0.6	0.4	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.1

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

### ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.8	0.3	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2
0.3	0.8	0.4	0.0	0.0	0.0	0.0	1.5	0.0	0.0	0.0	0.0
0.0	0.3	0.1	8.1	0.0	0.0	0.0	0.0	0.0	4.7	0.0	0.3
0.1	0.0	0.0	11.6	0.0	0.0	0.0	0.0	0.0	3.8	0.0	0.0
0.0	0.0	0.0	19.4	0.0	0.0	0.0	0.0	0.0	20.0	0.0	0.0
0.0	0.2	0.0	0.6	0.0	0.0	0.0	0.0	0.0	4.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	25.6
2.8	-77.0	0.0	0.0	0.0	0.0	0.0	0.0	13.0	0.5	0.0	1.4
5.6	-77.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1	15.8
12.4	-77.0	0.0	-77.0	0.0	-77.0	0.0	0.6	-77.0	3.0	-77.0	0.0
Jan_2016	Feb_2016	Mar_2016	Apr_2016	May_2016	Jun_2016	Jul_2016	Aug_2016	Sep_2016	Oct_2016	Nov_2016	Dec_2016
14.9	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6
0.2	0.0	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
5.7	0.0	0.0	15.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	38.1
13.1	0.0	1.5	15.3	0.0	0.0	1.2	0.0	0.0	0.0	5.4	0.7
10.8	0.0	2.2	0.0	11.8	0.0	0.1	0.0	0.0	0.0	28.4	0.0
6.8	7.1	0.2	0.0	6.2	0.0	0.2	0.0	0.0	0.0	0.3	0.0
6.8	0.5	2.6	0.0	25.9	0.0	2.7	0.0	0.0	0.0	0.0	0.1
15.1	0.8	0.0	0.0	26.4	0.0	0.0	0.0	0.0	0.0	0.0	0.1
3.5	4.6	0.6	0.1	6.2	0.0	0.0	0.0	0.0	0.0	4.7	0.0
18.9	16.2	0.0	6.5	18.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.1	3.9	0.0	2.6	15.0	0.0	0.0	0.0	0.0	8.1	0.2	0.0
0.4	25.5	0.0	10.7	9.8	0.0	0.0	0.0	0.0	12.9	5.1	0.1
0.0	11.4	0.0	0.9	0.9	0.0	0.0	0.0	13.6	1.9	0.1	0.1
5.5	14.9	0.0	22.3	0.0	0.0	0.0	0.0	2.0	0.0	0.0	20.2
0.0	6.6	5.8	14.6	0.0	3.9	0.0	0.0	0.4	0.0	0.0	6.9
0.0	0.0	0.0	19.7	0.0	3.2	0.0	0.0	0.0	0.8	0.0	3.0
0.1	4.6	0.1	0.3	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0
0.5	0.2	10.1	0.3	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0
7.6	0.0	5.8	18.7	0.0	0.0	0.0	0.1	0.0	0.0	7.5	0.0
3.7	0.0	7.0	6.4	0.0	0.0	0.0	0.0	0.0	0.0	30.1	0.0
6.5	0.1	2.6	4.6	0.0	0.0	0.0	0.0	0.0	0.3	10.3	0.1
1.8	0.0	0.8	0.0	1.5	0.0	0.0	0.0	0.0	21.0	0.9	0.0
0.1	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	5.8	0.3	0.1
0.0	4.8	0.0	0.0	1.0	0.0	0.0	0.0	0.0	12.6	12.0	0.1
22.0	0.9	0.0	0.0	0.2	0.0	0.0	0.4	0.1	3.5	18.2	0.0
0.3	28.4	6.7	0.0	0.0	0.0	0.0	0.4	0.0	0.0	6.0	0.0
0.0	9.5	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.2	0.1
7.0	0.5	0.4	0.0	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.1
0.1	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	-77.0	8.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	-77.0	1.3	-77.0	0.0	-77.0	0.0	0.0	-77.0	0.0	-77.0	0.1
Jan_2017	Feb_2017	Mar_2017	Apr_2017	May_2017	Jun_2017	Jul_2017	Aug_2017	Sep_2017	Oct_2017	Nov_2017	Dec_2017
0.1	4.5	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

## ANEXO 8 – Necessidades Hídricas das Culturas

### ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

3.4	11.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.3	0.1
22.1	7.4	17.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26.8	0.1
4.5	7.8	7.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	7.3	0.1
0.2	1.7	2.4	0.0	17.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.1	0.0	1.1	0.0	0.3	1.3	3.0	0.0	0.0	0.0	0.0	0.1
0.1	1.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
0.1	7.0	0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.9
0.0	5.1	0.0	0.0	29.1	0.0	0.0	0.0	0.0	0.0	0.0	23.6
0.0	1.5	0.0	0.0	17.3	0.0	0.0	0.0	0.0	0.0	0.0	12.3
0.1	20.0	0.0	0.0	11.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	4.8	0.0	0.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
0.0	10.3	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	2.7
0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0
0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.2	0.0	0.1
0.0	0.2	0.0	0.1	0.0	0.0	0.0	0.0	0.1	7.0	0.0	0.1
0.0	0.1	0.0	1.0	0.0	4.0	0.0	0.0	0.0	0.6	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0
0.0	0.0	8.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.1	0.0	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.6	0.1
0.0	0.0	8.8	0.0	2.9	0.0	0.0	0.0	0.0	0.0	4.3	1.2
0.8	0.0	13.2	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.1	9.2
19.9	0.0	25.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	14.3
9.6	0.8	4.2	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.2	11.8
2.1	0.4	0.1	0.0	1.2	3.5	0.0	2.3	0.0	0.0	10.5	3.0
3.3	-77.0	0.0	0.9	0.3	0.0	0.0	1.8	0.0	0.0	0.1	1.7
0.1	-77.0	0.0	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
5.7	-77.0	0.7	-77.0	0.0	-77.0	0.2	0.0	-77.0	0.0	-77.0	3.8
Jan_2018	Feb_2018	Mar_2018	Apr_2018	May_2018	Jun_2018	Jul_2018	Aug_2018	Sep_2018	Oct_2018	Nov_2018	Dec_2018
0.2	0.0	25.2	0.0	0.2	0.0	0.3	0.0	0.0	0.0	0.1	0.1
0.6	0.0	21.5	1.9	0.1	0.0	1.2	0.0	0.0	0.0	1.3	0.1
1.6	0.7	13.3	6.8	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0
1.2	0.6	7.7	3.3	0.0	2.3	0.0	0.0	0.0	0.0	17.4	0.0
19.3	0.1	16.1	0.0	0.0	1.7	0.0	0.0	3.1	0.0	9.0	0.1
0.2	0.0	5.7	14.7	0.4	0.6	0.0	0.0	0.0	0.0	2.0	0.0
0.1	0.0	5.8	3.2	1.2	7.4	0.0	0.0	0.9	0.0	7.3	0.4
0.1	0.1	2.6	12.0	0.0	6.8	0.0	0.0	0.0	0.0	7.9	0.1
13.1	4.4	68.7	4.8	0.0	3.1	0.0	0.0	0.0	0.0	0.7	0.1
5.1	0.3	10.0	18.8	0.0	2.3	0.0	0.0	0.0	0.0	10.6	0.1
0.9	1.1	15.9	0.6	0.0	0.1	0.0	0.0	0.0	2.2	49.9	0.0
0.1	0.1	2.2	21.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1	2.7
11.8	0.3	1.7	1.3	0.0	0.0	0.0	0.0	0.0	6.2	0.1	8.1

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

4.0	0.4	26.4	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.1
0.1	0.5	7.7	4.8	0.0	0.0	0.1	0.0	0.0	12.3	0.3	0.5
0.1	0.1	7.4	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.2	7.1
0.0	0.0	23.9	0.0	0.2	0.0	0.0	0.0	0.0	0.3	0.0	0.1
0.1	0.0	1.3	0.0	1.2	0.0	0.0	0.0	0.0	0.9	20.2	12.5
0.0	0.0	18.3	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.6
0.0	0.0	0.0	0.0	9.8	2.9	0.0	0.0	0.0	3.8	4.6	0.6
0.1	0.0	0.0	13.1	0.0	24.0	0.0	0.3	0.0	4.8	5.7	0.1
0.0	0.0	0.0	0.9	0.0	7.9	0.0	0.0	0.0	0.3	2.6	0.1
0.0	0.0	7.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.1
0.0	0.0	5.8	0.1	26.7	0.0	0.0	0.0	0.0	0.0	10.3	0.0
10.9	0.0	3.4	0.0	11.1	0.0	0.0	0.0	0.0	0.0	19.3	0.1
0.5	2.4	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	16.1	0.0	0.0	0.0	0.0	0.0	0.3	0.1	0.0	0.0	1.0
0.0	44.8	0.0	7.9	0.0	0.7	0.0	0.0	0.0	0.0	0.1	0.0
0.0	-77.0	5.1	9.6	0.0	0.8	0.0	0.0	0.0	4.4	16.6	0.1
0.0	-77.0	5.2	5.1	0.1	0.7	0.0	0.0	0.0	14.9	0.2	0.0
0.0	-77.0	0.9	-77.0	0.4	-77.0	0.0	0.0	-77.0	9.5	-77.0	0.1
Jan_2019	Feb_2019	Mar_2019	Apr_2019	May_2019	Jun_2019	Jul_2019	Aug_2019	Sep_2019	Oct_2019	Nov_2019	Dec_2019
0.0	12.2	0.0	5.8	0.0	0.0	0.0	0.0	0.0	0.0	5.1	12.7
0.1	3.6	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	6.2	0.0
0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	0.0
0.2	0.0	1.8	5.9	0.0	1.5	0.0	0.0	0.0	0.0	5.1	0.6
0.1	0.1	7.3	15.6	0.0	0.1	0.0	0.0	0.0	0.0	2.4	0.0
0.1	0.0	28.8	13.0	0.0	7.0	0.0	0.0	0.0	0.0	3.6	0.0
0.0	0.1	11.0	5.9	2.8	0.0	0.0	1.4	0.0	0.0	1.3	0.0
0.3	0.0	0.1	2.6	2.8	0.0	0.0	0.7	0.0	0.0	0.3	0.8
0.1	0.0	0.0	7.8	3.9	0.0	0.0	3.2	0.0	0.0	5.6	0.1
0.0	3.1	0.0	0.1	1.9	0.0	0.0	0.3	0.0	0.0	2.6	0.0
0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	2.3
0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	8.3
0.2	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.1	3.0	2.9
0.1	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	25.1	9.5	0.2
0.0	0.0	0.0	1.4	0.0	0.0	0.0	0.0	0.1	0.0	1.2	6.4
0.5	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.5	17.5
0.0	0.7	0.0	18.3	0.0	0.0	0.0	0.0	0.0	29.9	16.7	0.0
4.1	17.5	0.0	2.3	0.0	2.6	0.0	0.0	0.0	0.0	0.0	13.7
6.3	0.0	0.0	4.6	0.0	0.5	0.0	0.0	0.0	9.7	2.6	49.2
0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.1	18.5	47.5
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.1	0.1	3.3	11.5
0.5	0.0	0.0	5.5	0.0	0.0	0.0	0.0	0.8	0.0	34.5	0.1
1.2	0.0	0.0	13.5	0.0	0.5	2.2	0.0	0.0	0.0	2.2	0.1
0.1	0.0	0.0	23.4	0.0	3.6	0.0	0.0	0.6	0.0	3.1	0.1
0.0	0.0	0.0	5.1	0.0	0.4	0.0	0.2	0.1	0.0	4.6	0.1

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

### ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.1	0.0	0.0	0.4	0.0	0.3	0.1	6.7	0.0	0.0	21.0	0.1
0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.3	0.0
0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	1.9	0.0
1.5	-77.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.4	0.0
8.3	-77.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	2.5	0.1
19.2	-77.0	2.3	-77.0	0.0	-77.0	0.0	0.0	-77.0	4.6	-77.0	0.1
Jan_2020	Feb_2020	Mar_2020	Apr_2020	May_2020	Jun_2020	Jul_2020	Aug_2020	Sep_2020	Oct_2020	Nov_2020	Dec_2020
0.0	2.1	8.3	17.3	0.3	0.0	0.0	0.0	0.0	0.2	0.0	0.0
0.1	0.1	3.8	0.1	0.0	0.0	0.0	0.0	0.0	5.1	0.1	0.0
0.0	0.1	0.6	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.6
0.1	0.1	0.6	0.2	0.1	0.0	0.0	0.0	0.0	1.3	0.1	15.5
0.0	0.1	2.4	37.2	0.1	0.0	0.0	0.0	0.0	0.1	23.5	1.2
0.1	0.0	0.1	12.1	0.0	0.0	0.0	0.0	0.0	0.0	21.7	1.8
0.1	0.0	0.0	2.8	0.0	0.0	0.0	0.0	0.0	0.0	10.3	2.4
0.1	0.6	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	15.9	1.3
0.0	0.0	0.0	12.3	2.9	0.0	0.0	0.0	0.0	0.0	1.0	1.5
0.0	0.0	0.0	0.0	7.8	0.0	0.0	0.0	0.0	0.0	0.1	11.1
0.0	0.0	0.0	0.0	15.7	0.1	0.6	0.0	0.0	0.0	0.1	5.9
0.1	0.1	0.0	7.3	4.2	2.1	0.0	0.0	0.0	0.0	0.0	0.8
0.0	0.3	0.0	2.3	19.2	0.1	0.0	0.0	0.0	0.0	0.0	1.4
13.6	0.1	0.0	8.9	8.1	0.0	0.0	0.0	0.0	0.0	2.2	8.4
12.6	0.0	0.1	6.7	11.3	0.0	0.0	0.0	0.0	0.0	0.1	1.2
9.2	0.1	0.1	27.5	0.1	0.4	0.0	0.0	0.4	0.0	0.0	9.8
1.0	2.0	0.0	9.3	0.0	0.0	0.0	0.0	3.4	0.0	0.1	0.1
17.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.9	0.0	0.1	1.4
0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	51.8	0.1	12.4
0.0	0.0	31.1	16.7	0.0	0.0	0.0	4.8	1.3	46.1	0.0	0.0
0.0	0.0	3.9	0.1	0.0	0.0	0.7	0.0	0.1	6.9	0.1	0.4
3.4	0.0	0.1	0.0	0.0	0.0	0.0	0.0	9.8	2.7	0.0	0.0
9.5	0.0	3.9	0.0	0.0	0.0	0.0	0.0	7.0	0.4	0.1	0.9
1.5	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.9	0.0
0.7	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.1	29.6	0.0
0.1	0.0	0.0	5.5	0.0	0.0	0.0	0.0	0.0	0.7	8.3	0.0
5.2	0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.3	0.1	0.0	0.1
1.7	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	4.0	6.6	3.6
0.9	1.3	0.0	2.6	0.0	0.0	0.0	0.0	0.0	0.1	3.9	4.7
1.8	-77.0	3.5	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.8
8.4	-77.0	2.2	-77.0	1.5	-77.0	0.0	0.0	-77.0	0.1	-77.0	6.4

#### 2.1.8 CASTELO DE BODE 2

Tabela 8. Precipitações diárias na região de cálculo de Castelo de Bode 2 (mm)

Jan_2003	Fev_2003	Mar_2003	Abr_2003	Mai_2003	Jun_2003	Jul_2003	Ago_2003	Set_2003	Out_2003	Nov_2003	Dez_2003
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Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

## ANEXO 8 – Necessidades Hídricas das Culturas

### ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

10.1	0.0	5.5	0.0	0.3	0.3	0.1	0.0	0.0	21.2	0.2	4.5
21.1	0.0	1.7	0.0	0.0	0.1	0.0	0.0	0.0	41.5	0.0	0.1
2.5	0.1	1.0	0.0	0.0	0.7	0.0	0.0	0.0	5.0	0.0	4.0
3.4	1.4	0.1	0.0	0.3	2.0	0.0	0.0	0.0	0.0	0.0	0.1
12.1	0.0	1.8	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	22.8
11.5	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.6
19.9	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.5	0.2	10.2
10.2	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.2	19.6
5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	32.3	18.0
0.0	0.0	0.0	6.8	0.0	0.0	0.0	0.0	0.0	0.8	12.2	0.7
0.0	2.8	0.0	0.6	0.0	0.0	0.0	0.0	0.0	18.8	0.1	0.0
0.1	0.1	0.0	9.5	0.0	0.0	0.2	0.4	0.0	0.1	2.5	0.0
0.0	0.1	0.1	15.5	0.0	0.0	0.3	0.0	0.0	0.0	0.1	0.0
0.0	0.0	0.0	4.2	0.1	0.0	1.4	0.0	0.0	0.0	0.5	0.1
0.1	0.0	0.0	2.7	0.0	0.0	5.9	0.0	0.0	0.7	38.8	0.0
0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.4	0.0	0.0
0.0	6.6	2.1	0.0	0.0	0.0	0.0	0.3	0.0	0.1	0.0	8.6
26.1	26.8	0.6	3.9	0.0	0.0	0.0	0.0	0.0	21.5	0.0	10.4
11.8	9.5	0.0	1.0	0.0	0.0	0.0	0.0	0.0	7.4	0.0	0.2
25.2	6.2	0.0	4.9	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.1
9.3	6.6	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	17.6	0.0
9.2	16.1	0.2	0.3	0.0	0.0	0.0	1.9	0.0	0.2	23.8	0.0
0.0	1.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0
0.0	17.4	3.5	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.8	0.0
0.0	7.3	16.2	20.6	0.0	0.0	0.0	0.0	0.0	29.2	0.1	0.0
0.0	12.7	9.4	1.1	0.0	0.0	0.0	0.0	0.0	12.6	9.7	0.0
0.0	4.8	9.1	0.0	0.0	0.0	0.5	2.7	0.6	33.3	3.2	2.7
0.0	0.0	1.2	2.7	0.0	0.0	0.0	5.9	0.0	4.2	0.2	6.3
0.0	-77.0	37.1	2.4	0.0	1.9	0.0	0.4	4.2	2.7	3.0	0.7
0.0	-77.0	9.5	2.0	0.5	0.5	0.0	1.0	65.6	10.2	14.7	1.0
0.0	-77.0	0.1	-77.0	0.0	-77.0	0.0	12.5	-77.0	41.3	-77.0	0.5
Jan_2004	Feb_2004	Mar_2004	Apr_2004	May_2004	Jun_2004	Jul_2004	Aug_2004	Sep_2004	Oct_2004	Nov_2004	Dec_2004
0.2	4.2	0.0	14.1	5.6	0.0	0.0	0.0	0.0	0.0	0.0	23.5
0.0	1.9	0.0	4.0	0.0	0.0	0.0	0.0	1.8	0.0	12.0	0.4
0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.5	1.7	0.0	7.0	0.0
0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	1.6	0.0	0.1	0.0
0.0	0.0	4.3	0.0	7.8	0.0	0.0	0.0	0.3	0.0	0.0	0.0
0.0	0.0	0.9	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.1	0.0	0.3	0.0	0.0	0.0	0.0	0.0
3.7	0.0	0.0	0.0	0.0	0.0	0.0	3.5	0.1	2.1	0.0	0.0
1.2	0.0	0.0	0.0	4.7	0.1	0.0	0.0	0.0	1.0	0.0	0.0
0.2	0.0	0.4	0.0	1.0	0.1	0.0	0.2	0.0	1.2	0.0	0.0
0.2	0.0	1.1	0.0	0.0	0.0	0.0	0.7	0.0	5.4	0.0	0.0
0.0	0.0	15.3	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	7.6
3.8	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.0	0.0
2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0
0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.3	0.0	0.0
0.6	0.0	0.7	0.0	0.0	0.0	0.0	0.8	0.0	0.1	0.0	0.0
0.0	0.0	0.0	3.9	0.0	0.0	0.0	2.1	0.0	34.6	0.0	0.0
0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.4	0.0	32.6	0.0	1.0
0.0	0.0	0.0	1.8	0.3	0.0	0.0	0.0	0.0	14.3	0.0	0.0
0.0	0.5	0.0	14.2	4.7	0.0	0.0	0.0	0.0	2.3	0.0	0.0
0.0	15.3	0.0	6.9	9.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0
0.0	23.7	0.0	0.0	0.7	1.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	7.8	0.7	0.0	44.3	0.0	0.0	0.0	0.0	17.4	0.0	0.0
1.8	17.5	0.0	0.0	21.4	0.0	0.0	0.0	0.0	3.4	0.0	2.2
26.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3	0.0	0.7
9.3	1.6	0.1	0.0	0.0	0.0	0.0	0.0	0.0	31.7	0.2	0.0
0.0	1.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	15.8	1.2	1.5
4.6	0.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0	8.6	0.8	0.0
16.2	-77.0	2.0	2.7	0.0	0.0	0.0	0.0	0.0	5.8	2.6	0.0
25.0	-77.0	13.3	-77.0	0.0	-77.0	0.0	0.0	-77.0	2.2	-77.0	0.0
Jan_2005	Feb_2005	Mar_2005	Apr_2005	May_2005	Jun_2005	Jul_2005	Aug_2005	Sep_2005	Oct_2005	Nov_2005	Dec_2005
0.0	0.0	0.0	4.4	0.9	0.0	0.0	0.0	0.0	0.0	0.2	21.9
0.0	0.0	0.0	13.6	0.2	0.0	0.0	0.0	0.0	0.0	1.7	46.2
0.0	0.0	0.0	11.5	0.0	0.0	0.0	0.0	0.0	0.0	40.5	1.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.8
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
0.0	5.4	0.0	0.0	0.0	0.0	0.0	0.0	4.0	0.0	0.0	0.1
0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.3	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	0.0
0.0	0.0	0.0	0.0	0.0	0.1	0.0	1.0	1.4	0.8	0.0	0.0
0.0	0.0	0.0	0.0	2.4	0.0	0.0	1.1	0.0	22.8	0.0	0.0
0.0	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.0	15.4	0.1	0.0
0.0	0.0	0.0	0.0	3.2	0.0	0.0	0.0	0.0	8.7	0.4	0.0
3.4	0.0	0.0	0.0	6.9	0.4	0.0	0.0	0.0	0.1	0.4	0.0
0.0	0.0	0.2	0.1	0.0	0.2	0.0	0.0	0.0	0.4	1.9	0.0
0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0
0.0	0.0	0.1	0.1	2.9	0.0	0.0	0.0	0.0	0.0	0.1	0.0
0.0	0.0	0.0	1.0	0.0	0.0	0.4	0.0	0.0	5.1	0.1	0.0
0.0	0.0	0.0	3.9	0.0	0.0	0.0	0.0	0.0	0.1	2.7	0.0
0.0	0.0	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	31.2	0.0
0.0	0.0	1.8	0.0	0.0	0.0	0.0	0.0	0.0	17.3	17.9	0.0
0.0	0.0	8.7	0.0	0.0	0.0	0.0	0.0	0.0	22.7	3.4	0.0
0.0	5.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	27.4	0.5	0.0
0.0	9.2	3.5	6.2	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0
0.0	2.0	0.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.0	0.1	25.2	1.3	0.0	0.0	0.0	0.0	0.0	0.0	1.6	8.3
0.0	0.1	13.9	0.0	0.0	0.0	0.2	0.0	0.0	4.1	3.6	24.8
0.0	0.0	1.1	0.0	0.0	0.0	0.6	0.0	0.0	66.7	1.5	1.9
0.0	0.0	18.3	0.0	0.0	0.0	0.3	0.0	0.0	9.3	1.8	0.2
0.0	-77.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	3.5	0.9	0.2
0.0	-77.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	46.1	0.0	0.1
0.0	-77.0	0.0	-77.0	0.7	-77.0	0.0	0.0	-77.0	4.3	-77.0	0.8
Jan_2006	Feb_2006	Mar_2006	Apr_2006	May_2006	Jun_2006	Jul_2006	Aug_2006	Sep_2006	Oct_2006	Nov_2006	Dec_2006
0.4	0.8	0.0	0.0	0.0	0.0	0.0	0.0	2.1	0.0	0.0	0.0
0.0	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.8	2.4	9.4
0.0	16.7	15.5	0.0	0.9	0.0	0.0	0.0	0.0	1.0	32.4	2.9
0.0	0.0	34.3	2.4	0.5	0.0	0.0	0.0	0.0	2.1	22.7	4.4
0.9	0.0	0.0	14.8	0.0	0.0	0.0	0.0	0.0	0.0	97.4	12.8
6.2	0.1	0.0	9.3	0.0	0.0	0.0	0.0	1.0	0.0	17.6	4.3
0.5	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	2.7	10.6
0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.9
0.0	0.0	0.6	0.6	0.0	0.2	0.0	0.0	0.0	0.0	0.0	2.7
0.0	1.7	0.2	0.0	0.0	0.0	0.0	0.0	0.0	5.1	0.0	0.0
0.0	0.2	0.0	0.0	0.0	0.0	0.5	0.0	0.0	5.2	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0
1.3	0.0	0.0	6.6	0.0	0.3	0.4	0.0	13.1	0.0	0.0	0.0
3.7	0.0	0.0	16.1	0.0	5.5	3.6	0.0	0.0	0.0	0.0	0.0
25.1	1.0	0.0	11.6	0.0	0.5	0.0	0.0	0.5	0.0	44.9	0.0
0.1	2.5	0.0	0.4	0.0	4.1	0.0	7.4	0.0	29.4	16.4	0.0
0.0	6.3	38.4	0.1	0.0	0.4	0.0	2.7	0.0	14.0	16.6	0.0
0.0	21.0	18.2	0.0	0.0	0.0	0.4	8.1	0.0	37.0	10.5	0.0
0.0	12.1	14.3	0.0	0.0	0.0	0.0	3.2	0.0	13.3	0.7	0.0
0.0	8.4	9.0	0.9	0.0	0.0	0.0	0.0	0.0	24.8	0.4	0.0
0.0	0.1	5.9	3.2	0.1	0.0	0.0	0.0	32.7	0.9	1.8	0.0
0.0	0.0	4.6	19.4	0.4	0.0	0.0	0.0	0.9	47.4	1.4	0.0
0.0	0.0	36.0	1.3	0.0	0.0	0.0	0.0	19.5	30.4	16.2	0.0
0.0	0.7	12.9	0.0	0.0	0.0	0.0	0.0	9.6	26.8	88.2	0.0
0.0	14.8	0.6	0.0	0.0	0.0	0.0	0.0	3.1	27.2	4.3	0.0
0.0	0.7	0.0	0.0	0.0	0.0	0.2	0.0	0.0	16.6	0.3	0.0
0.0	0.1	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.2	12.3	0.0
1.6	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.1	0.0	8.7	0.0
0.6	-77.0	0.7	0.0	0.1	0.0	0.0	0.0	0.9	0.0	2.2	3.3
0.0	-77.0	0.1	0.0	0.0	0.0	0.0	0.0	12.9	0.0	0.0	1.9
0.0	-77.0	0.0	-77.0	0.0	-77.0	0.0	0.0	-77.0	0.0	-77.0	0.1
Jan_2007	Feb_2007	Mar_2007	Apr_2007	May_2007	Jun_2007	Jul_2007	Aug_2007	Sep_2007	Oct_2007	Nov_2007	Dec_2007
0.1	0.0	0.5	0.0	31.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.1	0.0	0.0	9.0	6.8	0.0	0.0	0.0	0.0	4.2	0.0	0.1
0.2	0.5	0.0	6.3	1.9	0.0	0.0	0.0	0.0	3.8	0.0	0.0
0.0	0.4	6.2	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.1



Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
0.0	1.3	6.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
0.2	11.2	8.9	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	23.8	0.0	1.6	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0
0.1	0.9	0.0	1.1	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.7
0.0	1.0	0.0	3.2	0.0	3.8	0.0	0.0	0.1	0.0	0.0	0.1
0.1	4.3	0.0	6.7	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0
0.0	12.4	0.0	3.4	0.5	0.0	0.0	0.0	4.0	0.0	0.0	0.0
0.0	2.5	0.0	0.1	0.6	0.1	0.0	0.0	0.3	0.0	0.0	0.1
0.0	8.3	0.0	0.0	0.2	23.7	0.0	0.1	0.0	0.0	0.0	0.1
0.0	0.3	0.0	0.0	0.0	0.4	0.7	1.5	0.2	0.1	0.0	0.0
1.6	10.5	0.0	0.0	0.0	21.2	1.0	0.0	0.3	0.3	0.0	0.0
0.9	1.3	0.0	0.6	0.0	25.5	0.0	0.0	0.1	0.0	0.0	0.0
0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.0	0.0	0.0	9.1
0.0	11.9	0.0	0.4	0.0	7.0	0.0	0.0	0.0	0.0	62.4	22.3
0.0	6.2	0.0	4.8	0.9	0.3	0.0	0.0	3.0	0.0	31.7	2.1
0.0	1.1	0.0	1.0	0.0	0.0	0.0	0.0	0.8	0.0	0.6	0.3
1.9	5.0	0.0	0.0	15.3	0.0	0.0	0.0	0.0	0.0	3.0	0.0
0.5	0.1	0.0	0.0	0.7	0.0	3.7	0.0	0.0	0.0	0.1	0.0
0.3	0.1	0.0	0.2	1.4	0.0	0.0	0.0	0.0	0.1	0.0	0.7
2.3	5.9	0.1	5.9	0.3	0.0	0.0	0.1	0.0	1.0	0.0	1.8
0.3	1.9	6.9	0.7	1.3	0.0	0.0	0.8	0.0	0.0	0.0	0.1
0.0	0.0	0.0	0.1	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.1	2.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.8	-77.0	0.2	0.3	0.0	0.0	0.0	0.0	13.3	0.0	0.0	0.1
4.3	-77.0	3.3	2.0	0.4	0.0	0.0	0.0	51.1	0.0	0.0	0.0
0.5	-77.0	9.0	-77.0	0.1	-77.0	0.0	0.0	-77.0	0.0	-77.0	0.0
Jan_2008	Feb_2008	Mar_2008	Apr_2008	May_2008	Jun_2008	Jul_2008	Aug_2008	Sep_2008	Oct_2008	Nov_2008	Dec_2008
13.7	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6
8.2	2.1	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	4.2
41.4	18.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	18.7
2.7	1.5	0.0	0.0	0.0	0.0	0.0	0.0	2.2	0.0	1.3	1.3
3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.8	0.0	0.0	3.0
0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	6.7
0.1	0.0	0.0	15.7	3.5	0.0	0.0	0.0	0.0	7.8	4.9	8.9
2.2	0.0	0.0	21.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.3
5.6	0.0	0.4	23.1	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.2
5.8	0.0	12.8	7.6	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.4	0.0	0.0	0.1	1.5	0.0	0.8	0.1	0.0	4.1	2.1	2.9
0.2	0.0	0.0	0.2	0.3	0.1	0.0	0.0	0.0	4.3	0.2	4.5
14.6	0.0	0.0	1.4	0.8	0.0	0.0	0.0	0.0	0.6	0.0	8.3
4.1	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.2	0.0	6.2
5.9	0.0	0.2	0.0	10.6	0.9	0.0	0.0	0.0	0.0	0.0	0.2
1.7	0.0	0.0	10.2	0.3	6.0	0.0	0.0	0.0	0.0	0.0	0.0

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

## ANEXO 8 – Necessidades Hídricas das Culturas

### ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.3	22.7	2.3	34.8	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0
0.1	65.4	2.6	15.0	2.9	0.0	0.0	0.0	0.1	0.1	0.0	0.0
0.0	3.7	6.0	24.9	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	1.8	0.1	22.7	1.6	0.0	0.0	0.0	0.3	0.0	0.0	0.0
0.0	0.1	0.0	3.6	0.0	0.0	0.0	0.0	1.6	4.7	0.0	0.2
0.0	0.1	0.5	0.0	14.6	0.0	0.0	0.0	3.4	0.5	0.0	0.1
0.0	6.8	0.3	0.1	24.9	0.0	0.0	0.0	0.8	0.0	0.0	0.0
0.0	20.1	0.0	0.0	7.1	0.0	0.0	0.0	0.1	0.0	0.4	0.0
0.0	1.0	0.0	0.0	3.9	0.0	0.5	0.0	0.0	0.0	0.4	0.0
0.0	0.0	0.4	0.0	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.4	2.6	0.0	9.6	0.0	0.0	0.0	0.0	0.7	0.0	29.8
0.0	0.7	0.0	0.0	5.1	0.0	0.0	0.1	0.0	0.2	13.6	8.9
0.0	0.0	0.1	0.4	3.3	0.0	0.0	0.0	0.4	0.0	13.7	11.1
0.0	-77.0	1.7	0.2	1.4	0.0	0.0	0.0	0.0	6.6	1.6	1.1
0.0	-77.0	0.0	-77.0	0.3	-77.0	0.0	0.0	-77.0	11.1	-77.0	6.7
Jan_2009	Feb_2009	Mar_2009	Apr_2009	May_2009	Jun_2009	Jul_2009	Aug_2009	Sep_2009	Oct_2009	Nov_2009	Dec_2009
11.8	38.6	1.4	0.0	0.1	0.0	0.0	1.7	0.0	0.0	1.2	3.2
8.3	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.5
11.1	9.7	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8
0.0	10.8	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	0.0
0.0	7.3	7.0	0.0	0.0	5.2	0.0	0.0	0.0	3.7	0.4	4.4
0.0	3.6	1.3	0.1	0.0	7.2	0.0	0.0	0.0	8.0	3.0	12.6
0.0	0.2	0.0	0.0	0.0	0.3	0.0	0.0	0.0	19.1	0.2	10.7
0.0	1.1	0.0	0.2	0.0	3.3	0.0	0.0	0.3	0.1	0.7	0.0
0.0	7.9	0.0	1.5	11.7	0.1	0.0	0.0	0.5	0.0	0.2	0.0
0.2	0.4	0.0	2.6	1.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0
0.1	0.1	0.0	0.2	16.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.1	0.0
9.7	0.0	0.0	1.3	0.1	0.0	0.0	0.1	2.7	0.0	3.6	0.0
0.1	0.0	0.0	10.7	0.1	0.4	0.0	0.0	0.0	0.0	8.3	0.0
20.9	0.0	0.0	14.7	0.0	2.8	0.0	14.8	0.0	0.0	15.7	0.0
5.9	0.0	0.0	14.1	0.3	3.5	0.0	0.0	0.1	0.0	15.4	16.4
0.1	0.0	0.0	5.2	0.0	0.0	0.0	0.0	0.9	0.0	1.6	0.9
3.3	0.0	0.0	9.8	0.0	0.1	0.0	0.0	2.6	0.0	0.2	2.9
21.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.3	0.0
3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.0	0.0	12.4
1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26.4	13.5	14.6
24.9	0.0	0.0	0.0	0.0	0.0	2.2	0.0	0.0	3.1	0.1	15.5
27.6	0.0	0.0	0.0	5.1	0.0	1.6	0.0	0.0	0.2	0.0	25.2
4.9	0.0	0.0	0.0	20.1	0.0	0.0	0.0	0.0	0.0	0.0	9.5
16.4	0.0	0.0	0.1	0.4	0.7	0.0	0.0	0.0	0.0	6.2	21.2
5.3	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	2.1	0.8
3.3	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.2	0.0	1.0	14.1
12.4	0.5	0.0	0.2	0.0	33.3	0.0	0.0	0.1	0.0	2.2	41.5

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

10.5	-77.0	0.0	0.1	0.0	5.5	0.0	0.0	0.3	0.0	23.7	60.7
12.8	-77.0	0.0	2.1	0.0	0.0	0.0	0.0	3.8	0.0	0.6	15.3
10.4	-77.0	0.0	-77.0	0.0	-77.0	0.0	0.0	-77.0	0.0	-77.0	23.8
Jan_2010	Feb_2010	Mar_2010	Apr_2010	May_2010	Jun_2010	Jul_2010	Aug_2010	Sep_2010	Oct_2010	Nov_2010	Dec_2010
7.3	0.0	1.9	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	3.6
1.4	0.0	18.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.1
21.2	2.7	7.0	2.3	0.0	0.0	0.0	0.0	0.0	25.2	0.0	0.4
23.5	10.6	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.4
0.2	0.6	32.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	64.4
0.8	0.1	14.8	0.0	0.0	0.0	0.0	0.0	0.3	3.5	0.0	17.5
0.0	5.5	3.4	0.1	3.9	0.0	0.0	0.0	1.9	2.3	0.1	12.2
0.0	3.6	15.1	0.2	13.6	6.0	0.0	0.1	0.0	51.9	6.8	14.0
0.0	0.3	0.2	0.0	24.2	12.3	0.0	0.0	0.0	11.7	9.5	13.6
1.8	13.6	0.0	0.0	0.2	4.4	0.0	0.0	0.0	3.4	0.5	0.0
13.6	1.5	0.0	0.0	0.3	0.8	0.0	0.0	0.0	0.0	0.0	0.0
47.6	0.0	0.0	0.6	0.4	0.0	0.0	0.0	0.0	0.0	0.0	1.6
25.2	0.0	0.0	5.5	0.4	0.0	0.0	0.0	0.0	0.0	0.4	0.0
6.5	0.5	0.0	37.2	0.2	0.0	0.0	0.0	0.0	0.0	22.0	0.0
8.4	18.9	0.0	17.4	0.0	0.0	0.0	0.9	0.1	0.0	0.4	0.0
14.1	11.2	0.0	7.4	0.0	0.0	0.0	0.0	0.2	0.0	0.4	0.0
0.8	10.2	0.0	16.5	0.0	0.0	0.0	0.0	5.9	0.0	24.6	0.0
3.3	0.4	0.0	41.8	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0
0.6	0.0	9.2	0.7	0.0	0.0	0.0	0.0	0.0	0.0	19.2	0.0
2.1	5.6	7.1	1.0	0.0	0.0	0.0	0.0	0.1	0.0	8.4	51.8
0.1	34.6	0.5	4.4	0.0	0.0	0.0	0.0	0.0	0.0	2.8	39.5
0.0	29.5	0.0	13.7	0.0	0.0	0.0	0.0	0.0	0.0	0.3	7.8
0.1	25.9	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.8
0.1	4.5	8.7	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.3
0.0	19.2	11.0	0.0	7.6	1.3	0.0	0.0	0.0	0.0	0.0	3.1
0.2	7.4	1.7	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0
0.0	38.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	11.3	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
0.0	-77.0	15.1	0.0	0.0	0.0	0.0	0.0	0.0	35.8	11.6	8.9
0.0	-77.0	0.9	0.0	0.0	0.1	0.0	0.0	0.0	19.5	13.8	33.8
0.1	-77.0	0.6	-77.0	0.0	-77.0	0.0	2.2	-77.0	19.4	-77.0	32.4
Jan_2011	Feb_2011	Mar_2011	Apr_2011	May_2011	Jun_2011	Jul_2011	Aug_2011	Sep_2011	Oct_2011	Nov_2011	Dec_2011
1.3	0.0	0.0	0.0	1.9	0.0	0.0	1.3	34.1	0.0	3.1	0.0
0.1	0.0	0.0	0.2	3.3	0.0	0.0	0.0	15.2	0.0	32.2	0.4
0.2	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	22.0	0.0
4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	3.9	0.0
7.9	0.0	4.3	0.0	0.0	21.9	0.0	0.0	0.0	0.0	1.3	0.1
31.7	0.0	0.2	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
14.0	0.0	0.0	0.0	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17.1	0.0	10.7	0.0	0.0	0.1	0.0	0.0	0.0	0.0	9.5	0.1

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

## ANEXO 8 – Necessidades Hídricas das Culturas

### ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

3.6	0.3	8.6	0.0	0.0	1.2	0.0	0.0	0.0	0.0	41.8	0.3
10.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.6	12.8
0.5	0.2	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.9	4.1
0.0	0.0	7.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.9
0.1	14.5	29.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	3.0
0.2	16.7	19.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30.6	4.7
0.2	10.3	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.1	0.2
0.2	27.0	0.0	0.0	11.3	0.0	0.1	0.0	0.0	0.0	3.6	9.1
1.7	5.6	0.0	0.0	5.7	0.1	0.1	0.0	0.0	0.0	0.7	0.0
0.1	4.9	0.0	11.2	9.5	0.0	0.1	0.0	0.0	0.0	14.0	0.0
0.0	24.8	0.0	27.9	0.4	0.0	0.2	0.0	0.0	0.0	5.2	0.0
0.0	1.8	0.0	28.4	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0
0.0	0.1	0.0	35.5	0.0	0.0	0.0	1.9	0.0	0.0	0.4	0.0
0.0	0.0	0.0	3.1	0.0	0.0	0.0	0.1	0.0	0.1	15.0	0.0
0.0	0.0	0.0	5.4	7.6	0.0	0.0	0.0	0.0	42.0	0.0	0.0
0.0	0.0	2.7	0.2	0.3	0.0	0.0	0.0	0.0	28.9	0.0	0.0
0.0	0.0	9.3	0.2	0.0	0.0	0.0	0.0	0.0	3.8	0.0	0.0
0.0	0.0	9.9	0.0	0.6	0.0	0.0	0.8	0.0	50.0	0.0	0.0
5.2	0.0	1.4	0.0	0.4	0.0	0.0	0.0	0.0	9.2	0.0	0.0
8.5	0.0	5.4	0.4	5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.4	-77.0	0.1	14.6	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	-77.0	0.0	19.0	0.9	0.0	0.0	0.2	0.0	0.0	0.0	0.0
0.0	-77.0	0.0	-77.0	0.0	-77.0	0.0	4.8	-77.0	0.8	-77.0	0.0
Jan_2012	Feb_2012	Mar_2012	Apr_2012	May_2012	Jun_2012	Jul_2012	Aug_2012	Sep_2012	Oct_2012	Nov_2012	Dec_2012
1.0	0.4	0.0	0.3	3.4	0.1	0.0	0.0	0.0	0.0	1.9	0.0
1.1	0.0	0.0	3.2	35.2	0.9	0.0	0.0	0.0	0.0	6.7	0.0
0.0	0.0	1.0	0.0	17.4	0.0	0.0	0.0	0.0	0.0	12.7	0.1
0.0	0.0	0.5	0.3	3.0	0.0	0.0	0.0	0.0	0.0	19.7	0.9
0.0	0.0	0.0	0.2	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	2.4	12.3	0.1	0.0	0.0	0.0	0.0	0.0	15.7
0.0	0.0	0.0	0.6	28.3	0.6	0.0	0.0	0.2	0.0	32.5	11.5
0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0	19.8	0.2
0.0	0.0	0.0	0.2	0.0	0.2	0.0	0.0	0.0	0.1	9.0	0.1
0.0	0.0	0.0	2.9	0.0	1.3	0.0	0.0	0.0	0.0	2.8	0.0
0.0	0.0	0.0	0.3	0.0	1.3	0.0	0.0	0.0	1.9	1.0	0.0
0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8
0.0	0.0	0.0	2.6	0.0	0.0	0.0	0.0	0.0	0.4	0.0	4.0
0.7	0.0	0.0	18.7	0.0	0.0	0.0	0.2	0.0	1.3	0.0	51.4
1.9	0.0	0.0	0.2	0.0	0.0	0.0	14.1	0.0	0.0	11.2	1.8
0.1	0.0	0.5	0.2	0.0	0.1	0.0	0.5	0.0	0.0	15.4	3.1
0.0	0.0	0.4	0.3	0.0	0.0	0.0	0.0	0.0	27.6	40.0	4.8
0.0	0.0	0.6	5.3	0.5	0.0	0.0	0.0	0.0	15.4	0.0	1.7
0.0	0.0	0.0	4.2	0.6	0.0	0.0	0.0	0.0	0.7	0.0	2.0
0.0	0.0	0.0	5.0	7.2	0.3	0.0	0.0	0.0	0.5	8.3	2.7

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

**ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE**

0.0	0.0	0.0	2.0	0.0	0.4	0.0	0.0	0.0	0.8	0.7	1.9
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.2	0.0	0.2
0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	9.6	0.1	0.0	0.0
0.0	0.0	0.1	1.6	0.0	0.0	0.0	0.2	0.8	4.6	41.3	1.3
0.0	0.0	0.0	19.4	0.0	0.0	0.0	0.2	15.8	16.9	9.4	1.5
1.0	0.0	0.0	6.7	0.0	0.0	0.1	0.0	0.1	15.7	0.3	0.1
0.1	0.0	0.0	6.4	0.0	0.0	0.0	0.0	6.1	0.0	0.1	0.0
0.0	0.0	0.0	1.6	0.0	0.0	0.0	0.0	9.6	2.9	0.0	0.0
0.0	0.0	0.0	6.3	0.0	0.0	0.0	0.0	0.0	6.0	0.7	5.1
0.0	-77.0	0.2	0.3	0.0	0.0	0.0	0.0	0.0	12.1	1.1	0.1
0.0	-77.0	0.1	-77.0	0.0	-77.0	0.0	0.0	-77.0	0.0	-77.0	22.8
Jan_2013	Feb_2013	Mar_2013	Apr_2013	May_2013	Jun_2013	Jul_2013	Aug_2013	Sep_2013	Oct_2013	Nov_2013	Dec_2013
0.2	3.4	0.0	4.9	0.0	0.0	0.0	0.0	0.0	11.7	0.0	0.0
0.0	0.0	0.0	1.1	0.0	0.0	0.1	0.2	0.0	14.8	0.5	0.0
0.0	0.0	1.1	13.8	0.1	0.0	0.0	0.0	2.4	7.6	0.0	0.0
0.0	0.0	9.7	7.8	0.0	0.0	0.0	0.0	4.8	0.1	2.4	0.0
0.0	0.0	12.2	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.6	0.0
0.0	0.1	7.9	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	15.2	1.0	0.0	2.5	0.0	0.0	0.2	0.0	0.0	0.0
0.0	0.0	18.9	0.0	0.1	0.2	0.0	0.0	0.0	0.0	2.1	0.0
7.3	0.0	15.2	0.9	1.3	0.2	0.0	0.0	0.0	0.0	0.2	0.0
9.3	4.8	15.1	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
3.5	3.2	3.9	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
4.1	1.5	1.5	0.5	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1
0.7	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1
0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1
0.0	0.0	0.4	0.0	2.6	0.0	0.0	0.0	0.0	0.0	0.3	0.0
16.6	0.0	4.1	0.0	2.1	0.0	0.0	0.0	0.0	0.0	0.2	0.0
6.0	15.0	10.0	0.0	6.6	0.1	0.0	0.0	0.0	0.1	0.1	4.0
28.6	0.2	0.0	0.0	1.1	4.2	0.1	0.0	0.0	29.7	0.0	2.3
34.0	9.0	5.7	0.0	2.3	1.1	0.0	0.0	0.0	0.8	0.0	6.0
13.8	0.4	0.2	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.4	12.5	3.2	0.0	0.0	0.0	0.0	0.0	0.0	3.6	0.0	0.0
30.3	20.8	10.1	0.0	0.0	0.0	0.0	0.0	0.0	20.8	3.4	0.1
8.2	0.4	6.0	0.0	0.0	0.0	0.0	0.0	0.0	8.7	0.0	4.2
1.4	0.0	4.1	0.0	0.0	0.0	0.0	0.0	0.0	52.4	0.0	34.2
14.8	0.0	16.5	0.0	0.0	0.0	0.0	0.0	0.0	9.4	0.0	12.5
0.1	0.0	16.2	3.8	0.1	0.0	0.0	0.0	0.3	1.7	0.0	1.8
12.9	3.1	3.4	0.0	0.0	0.0	0.0	0.0	37.4	0.0	0.0	9.6
0.4	5.9	3.3	1.8	0.0	0.0	0.9	0.0	16.1	4.6	0.0	1.3
0.0	-77.0	17.2	0.3	4.5	0.0	0.0	0.0	4.2	0.4	0.0	0.1
0.0	-77.0	0.1	0.0	0.0	0.0	0.0	0.0	76.2	0.0	0.0	1.8
0.1	-77.0	37.3	-77.0	0.0	-77.0	0.0	0.0	-77.0	0.0	-77.0	12.0
Jan_2014	Feb_2014	Mar_2014	Apr_2014	May_2014	Jun_2014	Jul_2014	Aug_2014	Sep_2014	Oct_2014	Nov_2014	Dec_2014

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

12.5	4.4	8.9	34.4	0.0	0.0	0.1	0.0	0.0	0.0	0.2	0.0
14.7	0.0	7.9	5.9	0.0	0.0	2.4	0.1	0.0	0.0	5.2	0.0
11.0	14.9	4.5	0.9	0.0	0.0	2.6	0.5	0.0	0.0	22.8	0.1
15.5	24.0	0.7	11.3	0.0	0.0	0.0	0.0	0.0	0.0	2.9	0.0
0.4	0.8	0.3	6.4	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
8.8	13.1	0.0	0.1	0.0	15.8	0.5	0.0	13.9	0.6	0.5	0.0
20.3	1.9	0.0	0.1	0.0	0.0	0.0	0.0	16.4	1.8	10.1	0.0
0.0	6.5	0.0	0.0	0.0	0.0	0.0	0.0	0.5	24.2	8.7	0.1
0.0	13.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.9	0.6	0.0
0.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0	2.9	2.1	24.0	0.0
0.0	10.7	0.0	0.0	0.0	0.0	0.0	0.0	9.2	3.0	8.1	0.1
7.5	5.8	0.0	0.0	0.0	0.0	0.0	0.2	0.1	25.4	0.6	4.6
2.6	11.0	0.1	0.0	0.0	0.0	0.0	0.0	4.5	16.4	30.3	16.5
4.3	10.2	0.0	0.2	0.0	0.0	0.0	0.0	9.3	1.6	10.7	3.7
5.8	0.2	0.0	0.0	0.0	0.0	0.0	0.0	9.3	8.2	4.4	0.0
0.8	0.0	0.0	0.0	0.2	0.0	0.0	0.0	18.6	0.9	0.2	0.9
20.0	1.1	0.0	0.5	0.0	0.0	0.0	0.0	16.9	0.3	0.0	0.0
4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.7	0.3	5.5	0.0
3.4	0.0	0.0	0.0	0.4	0.0	5.1	0.0	6.1	0.0	41.6	0.2
0.3	1.9	0.4	2.1	16.9	0.0	0.2	0.0	5.8	0.0	2.6	0.3
6.7	0.1	2.2	0.2	18.3	2.6	0.0	0.0	16.4	0.0	0.0	0.2
0.9	0.4	1.4	0.2	8.5	0.9	0.0	0.0	7.9	0.0	0.9	0.0
0.0	3.8	0.0	4.1	0.4	4.9	0.0	0.0	6.3	0.0	2.9	0.0
0.0	2.9	3.2	2.8	0.0	0.3	0.0	0.0	0.5	0.0	0.0	0.0
0.0	1.3	1.8	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
0.2	0.0	0.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	10.2	0.0
0.7	0.9	4.1	0.1	0.6	0.0	0.0	0.0	3.6	0.0	11.7	0.0
3.3	0.4	12.2	0.0	0.2	0.8	0.0	0.0	1.7	0.0	14.9	1.7
3.9	-77.0	0.1	0.0	0.2	0.0	0.0	0.0	0.1	0.0	3.4	0.0
0.1	-77.0	5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0
2.7	-77.0	18.7	-77.0	0.0	-77.0	0.0	0.0	-77.0	0.0	-77.0	0.0
Jan_2015	Feb_2015	Mar_2015	Apr_2015	May_2015	Jun_2015	Jul_2015	Aug_2015	Sep_2015	Oct_2015	Nov_2015	Dec_2015
0.0	0.2	0.1	0.0	0.2	0.0	0.1	0.0	0.0	0.0	0.7	0.0
0.0	10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	34.6	0.0
0.0	1.6	0.1	0.0	7.6	0.0	0.0	0.0	0.0	0.3	4.9	0.0
0.0	0.1	0.0	0.0	10.9	0.0	0.0	0.0	0.0	8.6	9.1	0.0
0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	49.8	4.9	0.0
0.0	1.1	0.0	1.9	0.0	0.0	0.0	0.0	0.0	4.6	0.9	0.0
0.4	0.0	0.0	0.2	0.0	5.0	0.0	0.0	0.0	0.0	0.0	0.7
0.1	0.0	0.0	0.9	1.9	0.1	0.0	0.0	0.0	0.0	0.0	0.1
0.0	0.0	0.0	5.0	0.0	0.9	0.0	0.0	0.3	0.0	0.0	0.0
0.0	0.0	0.0	6.3	0.0	0.2	0.0	0.0	0.0	22.6	0.0	0.0
0.0	1.5	0.0	0.1	0.0	4.4	0.0	0.0	0.0	15.3	0.0	0.0
0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.2	68.7	0.0	0.0

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.3	3.9	0.0	0.0	0.0	1.7	0.0	0.0	3.0	2.5	0.0	10.6
0.2	8.7	0.0	1.3	0.0	6.9	0.0	0.0	0.3	0.0	0.0	37.9
18.3	0.5	0.0	4.3	0.0	3.3	0.0	0.0	14.0	0.0	0.0	0.3
10.8	0.0	0.0	1.0	0.0	0.0	0.0	0.0	16.3	0.0	0.0	0.0
14.0	0.0	5.3	0.0	0.0	0.0	0.0	0.0	0.8	39.2	0.0	0.0
11.4	0.0	3.9	2.0	0.0	0.0	0.1	0.0	0.0	18.0	0.0	0.0
0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	0.0	1.0
3.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	2.5
0.7	2.3	0.3	1.7	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.1
0.3	0.9	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.2
0.1	0.6	2.1	0.0	0.0	0.0	0.0	2.2	0.0	0.0	0.0	0.1
0.0	0.3	0.1	10.5	0.0	0.0	0.0	0.1	0.0	5.6	0.0	0.7
0.0	0.0	0.0	19.8	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.0
0.0	0.0	0.1	21.2	0.0	0.0	0.0	0.0	0.0	15.6	0.0	0.0
0.0	0.1	0.0	1.5	0.0	0.0	0.0	0.0	0.0	5.2	0.0	0.0
0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	2.1	0.0	30.7
2.9	-77.0	0.0	0.0	0.0	0.0	0.0	0.0	8.0	2.0	0.0	1.2
9.3	-77.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	13.1
16.3	-77.0	0.0	-77.0	0.0	-77.0	0.2	1.9	-77.0	4.6	-77.0	0.0
Jan_2016	Feb_2016	Mar_2016	Apr_2016	May_2016	Jun_2016	Jul_2016	Aug_2016	Sep_2016	Oct_2016	Nov_2016	Dec_2016
24.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4
0.3	0.0	0.0	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10.2	0.0	0.0	15.8	0.0	0.0	0.0	0.0	0.0	0.0	0.2	48.3
20.9	0.0	1.3	15.7	0.0	0.0	0.1	0.0	0.0	0.0	13.4	0.9
10.9	0.0	1.1	0.0	7.3	0.0	0.1	0.0	0.0	0.0	28.3	0.0
10.6	8.3	0.2	0.0	9.1	0.0	0.3	0.0	0.0	0.0	0.3	0.0
14.0	1.4	2.8	0.0	42.8	0.0	0.8	0.0	0.0	0.0	0.0	0.0
20.6	1.1	0.0	0.0	21.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.4	8.5	1.3	0.2	7.4	0.0	0.0	0.0	0.0	0.0	5.0	0.0
27.2	23.2	0.0	4.5	31.2	0.0	0.0	0.0	0.0	0.1	0.0	0.0
10.2	6.2	0.0	3.4	16.2	0.0	0.0	0.0	0.0	10.1	0.1	0.0
0.8	37.3	0.0	13.6	3.9	0.0	0.0	0.0	0.0	22.3	3.2	0.0
0.0	24.5	0.0	3.2	0.6	0.0	0.0	0.0	10.1	1.9	0.1	0.1
3.3	18.6	0.0	19.2	0.1	0.5	0.0	0.0	1.7	0.0	0.0	19.8
0.0	4.9	5.4	12.2	0.0	3.5	0.0	0.0	0.4	0.0	0.0	8.9
0.0	0.0	0.2	20.4	0.0	2.0	0.0	0.0	0.0	0.9	0.0	3.0
0.1	5.7	0.0	0.6	0.0	0.0	0.0	0.0	0.0	3.4	0.0	0.0
0.5	0.0	8.8	0.4	0.0	0.0	0.0	0.0	0.0	0.7	0.1	0.0
7.1	0.0	8.2	31.0	0.0	0.0	0.0	0.1	0.0	0.3	9.1	0.0
5.2	0.0	9.7	16.1	0.0	0.0	0.0	0.0	0.0	0.0	38.9	0.0
5.3	0.0	1.7	4.7	0.0	0.0	0.0	0.0	0.0	0.7	12.3	0.0
1.4	0.0	1.0	0.1	0.7	0.0	0.0	0.0	0.0	33.9	3.5	0.0
0.0	0.0	0.0	0.1	0.2	0.0	0.0	0.0	0.0	6.8	1.3	0.3
0.0	7.1	0.0	0.0	0.4	0.0	0.0	0.1	0.0	10.5	16.5	0.0

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

20.3	0.3	0.0	0.0	0.2	0.0	0.0	0.9	0.1	4.8	36.2	0.0
0.3	31.2	10.1	0.0	0.0	0.0	0.0	1.2	0.2	0.0	16.1	0.0
0.1	5.5	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.8	0.0
6.0	0.1	1.9	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.2	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	-77.0	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	-77.0	0.7	-77.0	0.0	-77.0	0.0	0.0	-77.0	0.0	-77.0	0.0
Jan_2017	Feb_2017	Mar_2017	Apr_2017	May_2017	Jun_2017	Jul_2017	Aug_2017	Sep_2017	Oct_2017	Nov_2017	Dec_2017
0.1	8.2	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9.7	17.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.1	0.0
22.7	11.9	15.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	33.4	0.0
8.0	15.7	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.1	0.0
0.1	2.4	4.1	0.0	19.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.2	0.9	0.0	0.1	0.3	13.7	0.0	0.0	0.0	0.0	0.0
0.0	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
0.0	4.2	0.0	0.0	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.3
0.0	11.0	0.0	0.0	19.7	0.0	0.0	0.0	0.0	0.0	0.0	32.6
0.0	2.2	0.0	0.0	23.6	0.0	0.0	0.0	0.0	0.0	0.0	16.6
0.0	37.6	0.0	0.0	12.4	0.0	0.0	0.0	0.0	0.0	0.0	0.2
0.0	5.5	0.0	0.0	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.5
0.0	7.3	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	3.9
0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9
0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.7	0.0	0.0
0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	5.3	0.0	0.0
0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.1	13.4	0.0	0.0
0.0	0.0	0.0	0.5	0.0	2.9	0.0	0.0	0.0	0.8	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.2	0.0	0.1
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0
0.0	0.0	9.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.6	0.0
0.0	0.0	4.7	0.1	0.7	0.0	0.0	0.0	0.0	0.0	5.5	0.2
0.5	0.0	24.3	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.1	10.0
25.8	0.0	35.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.5
8.5	1.6	5.9	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.3	10.5
2.2	1.0	0.2	0.0	1.4	3.9	0.0	1.3	0.0	0.0	15.2	5.1
10.1	-77.0	0.0	3.5	0.6	0.1	0.0	6.6	0.0	0.0	0.1	3.7
0.5	-77.0	0.1	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.3	-77.0	1.5	-77.0	0.0	-77.0	0.2	0.0	-77.0	0.0	-77.0	4.5
Jan_2018	Feb_2018	Mar_2018	Apr_2018	May_2018	Jun_2018	Jul_2018	Aug_2018	Sep_2018	Oct_2018	Nov_2018	Dec_2018
0.2	0.0	32.4	0.0	0.2	0.0	0.6	0.0	0.0	0.0	0.1	0.0
1.6	0.0	35.4	4.4	0.0	0.0	0.6	0.0	0.0	0.0	0.7	0.0
0.7	0.3	19.8	7.8	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
0.8	0.1	11.8	5.7	0.0	1.3	0.0	0.0	0.0	0.0	28.0	0.0



Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

## ANEXO 8 – Necessidades Hídricas das Culturas

### ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

18.1	0.4	17.5	0.0	0.0	1.2	0.0	0.0	4.5	0.0	6.1	0.0
0.1	0.0	3.6	12.4	0.0	0.5	0.0	0.0	0.1	0.0	2.2	0.0
0.2	0.0	5.3	4.8	2.0	6.0	0.0	0.0	3.2	0.0	6.4	0.1
0.1	0.0	5.2	12.9	0.0	10.5	0.0	0.0	0.0	0.0	8.5	0.0
14.1	3.4	78.6	3.9	0.0	3.3	0.0	0.0	0.0	0.0	0.8	0.0
7.9	0.2	14.2	21.9	0.0	3.3	0.0	0.0	0.0	0.0	12.0	0.0
1.1	0.8	27.8	0.9	0.0	0.1	0.0	0.0	0.0	2.3	18.1	0.0
0.0	0.2	3.9	23.3	0.0	0.0	0.0	0.0	0.0	0.0	0.1	4.0
12.3	0.8	2.6	1.5	0.0	0.0	0.0	0.0	0.0	3.0	0.0	4.5
1.9	1.3	29.7	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.3
0.0	0.8	13.6	6.7	0.0	0.0	0.4	0.0	0.0	13.4	1.0	2.1
0.0	0.0	6.2	0.0	0.0	0.0	0.0	0.0	0.0	4.5	0.7	10.8
0.1	0.0	30.4	0.0	1.0	0.0	0.0	0.0	0.0	0.6	0.1	0.1
0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.8	20.1	12.4
0.0	0.0	13.4	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.4	1.3
0.0	0.0	0.0	0.0	4.8	1.0	0.0	0.0	0.0	9.8	6.7	1.1
0.0	0.0	0.0	13.3	1.0	22.0	0.0	1.5	0.0	11.2	7.4	0.2
0.0	0.0	0.0	0.3	0.0	6.7	0.0	0.0	0.0	0.1	1.5	0.3
0.0	0.0	11.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0
0.1	0.0	4.3	0.0	40.3	0.0	0.0	0.0	0.0	0.0	13.8	0.1
13.7	0.0	2.9	0.0	3.1	0.0	0.0	0.0	0.0	0.0	20.6	0.0
0.5	2.2	0.0	0.0	0.3	0.0	0.0	0.0	0.1	0.1	0.2	0.0
0.0	30.9	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.6
0.0	59.7	0.0	4.2	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0
0.0	-77.0	4.1	8.8	0.0	0.5	0.0	0.0	0.0	3.3	24.4	0.0
0.0	-77.0	5.7	3.4	0.1	2.9	0.0	0.0	0.0	18.3	0.2	0.0
0.0	-77.0	2.5	-77.0	0.1	-77.0	0.0	0.0	-77.0	5.7	-77.0	0.0
Jan_2019	Feb_2019	Mar_2019	Apr_2019	May_2019	Jun_2019	Jul_2019	Aug_2019	Sep_2019	Oct_2019	Nov_2019	Dec_2019
0.0	24.4	0.0	3.4	0.0	0.0	0.0	0.0	0.0	0.0	18.5	16.2
0.0	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.6	0.0
0.0	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.2	0.0
0.5	0.0	2.2	5.7	0.0	0.8	0.0	0.0	0.0	0.0	10.5	1.5
0.0	0.0	7.3	15.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	0.0
0.0	0.0	32.7	21.1	0.0	8.0	0.0	0.0	0.0	0.0	6.5	0.0
0.0	0.0	10.7	10.8	3.4	0.0	0.0	0.7	0.0	0.0	0.9	0.0
0.0	0.0	0.0	2.6	4.6	0.0	0.4	0.4	0.0	0.0	0.2	0.5
0.0	0.0	0.0	11.0	7.6	0.0	0.0	2.9	0.0	0.0	5.8	0.3
0.0	6.6	0.0	0.2	3.5	0.0	0.0	1.1	0.0	0.0	1.1	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	2.3
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	11.3
0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.2	2.7	3.2
0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.1	24.5	11.9	0.8
0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.4	10.6
1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.2	34.9

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

## ANEXO 8 – Necessidades Hídricas das Culturas

### ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.1	0.3	0.0	23.8	0.0	0.0	0.0	0.0	0.0	24.2	13.4	0.2
2.2	10.5	0.0	1.6	0.0	3.1	0.0	0.0	0.0	0.0	0.0	21.0
11.3	0.0	0.0	4.2	0.0	0.4	0.0	0.0	0.0	14.3	2.0	48.5
0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	21.2	64.4
0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	16.1	0.1	6.1	18.0
0.9	0.0	0.0	6.3	0.0	0.0	0.0	0.0	0.5	0.0	41.2	1.1
0.6	0.0	0.0	14.0	0.0	0.2	1.1	0.0	0.0	0.3	2.9	0.2
0.1	0.0	0.0	35.3	0.0	2.5	0.0	0.0	0.6	0.0	5.6	0.1
0.0	0.0	0.0	7.2	0.0	0.2	0.0	1.0	0.0	0.0	4.4	0.1
0.0	0.0	0.0	0.1	0.0	0.6	0.4	32.4	0.0	0.0	26.8	0.0
0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.0	0.0	0.0	0.9	0.0
0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	2.7	0.0
1.9	-77.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	3.6	0.0
13.6	-77.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.1	4.8	0.0
30.1	-77.0	1.1	-77.0	0.0	-77.0	0.0	0.0	-77.0	4.4	-77.0	0.0
Jan_2020	Feb_2020	Mar_2020	Apr_2020	May_2020	Jun_2020	Jul_2020	Aug_2020	Sep_2020	Oct_2020	Nov_2020	Dec_2020
0.0	2.0	18.0	13.9	0.2	0.0	0.0	0.0	0.0	0.3	0.0	0.0
0.0	0.0	11.0	0.1	0.0	0.0	0.0	0.0	0.0	8.5	0.1	0.0
0.0	0.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	2.1
0.0	0.1	1.5	0.9	0.1	0.0	0.0	0.0	0.0	0.8	0.5	13.0
0.0	0.0	4.3	55.7	0.1	0.0	0.0	0.0	0.0	0.0	18.5	0.4
0.0	0.0	0.4	14.4	0.0	0.0	0.0	0.1	0.0	0.0	24.6	2.3
0.0	0.0	0.0	3.3	0.0	0.0	0.0	0.0	0.0	0.0	12.6	4.3
0.0	0.8	0.1	0.8	0.0	0.0	0.0	0.0	0.0	0.0	18.8	1.7
0.0	0.1	0.0	13.7	6.5	0.0	0.0	0.0	0.0	0.0	0.6	1.2
0.0	0.0	0.0	0.1	5.4	0.0	0.0	0.0	0.0	0.0	0.0	14.8
0.0	0.0	0.0	0.0	19.2	0.1	0.8	0.0	0.0	0.0	0.1	8.7
0.0	0.3	0.0	1.9	1.1	1.5	0.1	0.0	0.0	0.0	0.0	0.2
0.0	0.4	0.0	2.3	23.5	0.2	0.0	0.0	0.0	0.0	0.0	2.4
8.9	0.0	0.0	3.9	6.9	0.0	0.0	0.0	0.0	0.0	0.6	12.2
16.2	0.0	0.2	10.7	9.0	0.0	0.0	0.0	0.0	0.0	0.2	0.6
9.7	0.0	0.1	30.0	0.0	0.4	0.0	0.0	1.8	0.0	0.1	2.8
1.3	3.0	0.0	6.7	0.0	0.0	0.0	0.1	4.0	0.0	0.2	0.0
25.5	0.0	0.0	0.0	0.0	0.0	0.0	0.1	11.8	0.0	0.0	1.0
0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.1	29.9	0.0	5.5
0.0	0.0	38.1	14.5	0.0	0.0	0.0	1.9	3.6	42.3	0.0	0.0
0.0	0.0	9.3	0.1	0.0	0.0	0.4	0.0	0.0	3.8	0.0	1.3
3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.9	4.2	0.0	0.1
23.8	0.0	1.8	0.0	0.0	0.0	0.0	0.0	2.4	0.5	0.0	1.5
1.5	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	1.0	0.2	0.0
0.6	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.9	30.7	0.0
0.0	0.0	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.3	5.8	0.0
7.2	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.2	0.3	0.0	0.8
3.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	6.0	6.9	4.9

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

2.2	2.6	0.0	4.2	0.0	0.0	0.0	0.0	0.0	0.0	1.5	3.5
4.6	-77.0	3.7	0.6	0.1	0.0	0.0	0.0	0.0	0.0	0.1	3.1
12.9	-77.0	4.2	-77.0	7.0	-77.0	0.0	0.0	-77.0	0.0	-77.0	6.0

## 2.1.9 BELVER

Tabela 9. Precipitações diárias na região de cálculo de Belver (mm)

Jan_2003	Fev_2003	Mar_2003	Abr_2003	Mai_2003	Jun_2003	Jul_2003	Ago_2003	Set_2003	Out_2003	Nov_2003	Dez_2003
7.6	0.1	4.2	0.0	0.1	0.1	0.1	0.0	0.0	19.8	8.1	3.5
5.9	0.1	0.3	0.0	0.0	0.2	0.0	0.0	0.0	30.6	0.0	0.0
1.2	0.1	0.1	0.0	0.0	0.3	0.0	0.0	0.0	1.8	0.0	3.4
0.8	0.5	0.1	0.0	0.1	0.7	0.0	0.0	0.0	0.0	0.0	0.1
7.5	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.3
1.9	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.4
13.4	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	8.9
8.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	18.3
6.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35.6	19.0
0.0	0.1	0.0	6.0	0.0	0.0	0.0	0.0	0.0	0.3	15.0	0.0
0.0	3.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	17.8	0.2	0.0
0.1	0.1	0.0	7.6	0.0	0.0	0.1	0.3	0.0	0.0	1.4	0.0
0.1	0.1	0.3	16.7	0.0	0.0	0.1	0.2	0.0	0.0	0.2	0.0
0.1	0.0	0.0	3.8	0.1	0.0	0.7	0.0	0.0	0.0	0.5	0.1
0.2	0.0	0.0	0.8	0.0	0.0	4.6	0.0	0.0	0.8	37.0	0.0
0.1	0.4	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.2	0.0	0.1
0.1	4.1	2.1	0.0	0.0	0.0	0.0	0.2	0.0	0.1	0.0	9.1
23.3	25.3	0.4	1.6	0.0	0.0	0.0	0.0	0.0	15.7	0.0	8.4
2.4	10.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	4.3	0.0	0.1
19.0	6.0	0.0	2.7	0.0	0.0	0.0	0.0	0.0	2.1	0.0	0.1
2.7	5.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.2	0.0
7.9	16.8	0.1	0.3	0.0	0.0	0.0	0.0	0.0	0.1	20.3	0.1
0.0	0.5	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0
0.0	18.0	4.3	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.8	0.0
0.1	7.6	12.0	17.1	0.0	0.0	0.0	0.0	0.0	30.1	0.6	0.0
0.0	11.9	8.2	1.4	0.0	0.0	0.0	0.0	0.0	14.9	7.4	0.0
0.0	1.7	8.8	0.0	0.0	0.0	0.2	3.5	0.4	30.6	2.8	1.6
0.0	0.0	1.4	2.8	0.0	0.0	0.0	5.2	0.0	5.1	0.1	3.5
0.0	-77.0	35.5	1.7	0.0	2.9	0.0	0.1	2.9	2.5	1.7	0.5
0.1	-77.0	4.4	1.1	0.2	0.3	0.0	0.2	45.2	5.6	6.0	0.3
0.0	-77.0	0.1	-77.0	0.0	-77.0	0.0	13.1	-77.0	38.8	-77.0	0.1
Jan_2004	Feb_2004	Mar_2004	Apr_2004	May_2004	Jun_2004	Jul_2004	Aug_2004	Sep_2004	Oct_2004	Nov_2004	Dec_2004
0.0	5.4	0.0	14.1	4.9	0.0	0.0	0.0	0.0	0.0	0.2	19.7
0.0	2.3	0.0	5.0	1.6	0.0	0.0	0.0	3.9	0.0	12.3	0.1
0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	8.1	0.0

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

## ANEXO 8 – Necessidades Hídricas das Culturas

### ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	1.2	0.0	0.1	0.0
0.1	0.0	3.0	0.0	5.2	0.0	0.0	0.0	0.1	0.0	0.1	0.0
0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.2	0.0	0.0	0.0	0.0	0.0	0.0	3.2	0.0	3.2	0.0	0.0
0.4	0.0	0.0	0.0	4.4	0.0	0.0	0.1	0.0	0.7	0.0	0.0
0.0	0.0	0.9	0.0	0.8	0.0	0.0	0.1	0.0	0.3	0.0	0.1
0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.7	0.0	3.2	0.0	0.0
0.0	0.0	15.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.8
0.4	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0
2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0
0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.1	0.0	0.0
0.1	0.0	0.0	0.0	0.0	0.0	0.0	3.4	0.0	0.1	0.0	0.0
0.0	0.0	0.0	2.8	0.0	0.0	0.0	2.1	0.0	29.7	0.0	0.0
0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.1	0.0	28.9	0.0	0.1
0.0	0.1	0.0	1.3	0.4	0.0	0.0	0.0	0.0	14.1	0.0	0.0
0.0	1.0	0.0	14.7	3.9	0.0	0.0	0.0	0.0	4.2	0.0	0.0
0.0	13.4	0.0	4.0	5.3	0.0	0.0	0.0	0.0	0.1	0.0	0.0
0.0	19.9	0.0	0.0	1.4	0.8	0.0	0.0	0.0	0.0	0.0	0.0
0.0	6.4	0.6	0.0	28.0	0.0	0.0	0.0	0.0	15.5	0.0	0.0
0.8	16.7	0.0	0.0	13.6	0.0	0.0	0.0	0.0	4.2	0.0	1.8
17.8	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	0.0	0.7
12.1	1.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	25.7	0.2	0.0
0.0	2.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	15.0	1.4	0.2
4.9	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	9.1	0.6	0.0
18.0	-77.0	1.1	1.9	0.0	0.0	0.0	0.0	0.0	4.5	2.3	0.0
26.1	-77.0	9.0	-77.0	0.0	-77.0	0.0	0.0	-77.0	0.9	-77.0	0.0
Jan_2005	Feb_2005	Mar_2005	Apr_2005	May_2005	Jun_2005	Jul_2005	Aug_2005	Sep_2005	Oct_2005	Nov_2005	Dec_2005
0.0	0.0	0.0	4.0	0.6	0.0	0.0	0.0	0.0	0.0	0.1	16.9
0.0	0.0	0.0	11.7	0.0	0.0	0.0	0.0	0.0	0.0	0.6	32.2
0.0	0.0	0.0	7.2	0.0	0.0	0.0	0.0	0.0	0.0	42.0	0.7
0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.6
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
0.0	3.6	0.0	0.0	0.0	0.0	0.0	0.0	2.9	0.0	0.0	0.1
0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	0.0
0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.9	1.3	0.6	0.0	0.0
0.0	0.0	0.0	0.0	2.0	0.0	0.0	2.3	0.0	13.8	0.0	0.0
0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	7.8	0.0	0.0
0.0	0.0	0.0	0.0	3.4	0.0	0.0	0.0	0.0	4.1	0.1	0.0
2.9	0.0	0.1	0.0	6.3	0.3	0.0	0.0	0.0	0.1	0.9	0.0
0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.3	1.3	0.0
0.1	0.0	0.0	0.2	0.1	0.0	0.0	0.0	0.0	0.0	1.1	0.0

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

## ANEXO 8 – Necessidades Hídricas das Culturas

### ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.0	0.0	0.0	0.0	2.2	0.0	0.0	0.0	0.0	0.0	0.1	0.0
0.0	0.0	0.0	0.7	0.0	0.0	0.2	0.0	0.0	5.6	0.1	0.0
0.0	0.0	0.0	2.4	0.0	0.0	0.0	0.0	0.0	0.1	1.7	0.0
0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	30.2	0.0
0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	11.6	15.0	0.0
0.0	0.0	7.8	0.0	0.0	0.0	0.0	0.0	0.0	16.5	2.0	0.0
0.0	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.6	0.4	0.0
0.0	5.7	2.0	5.7	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
0.1	0.7	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	21.2	0.9	0.0	0.0	0.0	0.0	0.0	0.0	1.6	9.2
0.0	0.0	13.3	0.0	0.0	0.0	0.0	0.0	0.0	1.1	3.7	26.2
0.0	0.0	0.8	0.0	0.0	0.0	1.2	0.0	0.0	61.8	0.8	1.8
0.0	0.0	15.6	0.0	0.0	0.0	0.3	0.0	0.0	8.7	1.3	0.2
0.0	-77.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.6	0.1
0.0	-77.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	36.9	0.0	0.1
0.0	-77.0	0.0	-77.0	0.4	-77.0	0.0	0.0	-77.0	6.0	-77.0	0.7
Jan_2006	Feb_2006	Mar_2006	Apr_2006	May_2006	Jun_2006	Jul_2006	Aug_2006	Sep_2006	Oct_2006	Nov_2006	Dec_2006
0.6	1.1	0.0	0.0	0.0	0.1	0.0	0.0	1.4	0.0	0.0	0.0
0.0	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	1.8	11.5
0.0	14.1	15.1	0.0	0.0	0.0	0.0	0.0	0.0	0.4	32.5	0.9
0.0	0.0	33.1	1.4	0.0	0.0	0.0	0.0	0.0	1.1	25.4	1.5
0.8	0.1	0.0	12.1	0.0	0.0	0.0	0.0	0.0	0.0	86.5	12.8
5.4	0.1	0.0	11.2	0.0	0.0	0.0	0.0	0.7	0.0	18.4	1.5
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	9.2
0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.9
0.0	0.0	0.4	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	1.6
0.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	6.4	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0
1.9	0.0	0.0	4.7	0.0	4.7	0.3	0.0	11.9	0.0	0.0	0.0
5.3	0.0	0.0	15.7	0.0	13.8	7.9	0.0	0.0	0.0	0.0	0.0
17.8	0.7	0.0	7.2	0.0	3.4	0.0	0.0	0.3	0.0	36.9	0.0
0.1	2.7	0.0	0.1	0.0	8.5	0.0	3.7	0.0	25.2	14.0	0.0
0.0	4.6	31.2	0.0	0.0	0.5	0.0	1.7	0.0	11.6	12.3	0.0
0.0	19.1	14.7	0.0	0.0	0.0	0.7	4.6	0.0	37.8	7.1	0.1
0.0	10.5	10.5	0.0	0.0	0.0	0.0	2.1	0.0	11.8	0.1	0.0
0.1	8.0	9.7	0.6	0.0	0.0	0.0	0.0	0.0	22.4	0.2	0.0
0.0	0.0	4.1	3.0	0.0	0.0	0.0	0.0	31.3	0.6	0.9	0.0
0.0	0.0	3.8	20.7	0.0	0.0	0.0	0.0	0.4	42.2	1.0	0.0
0.0	0.0	27.7	1.2	0.0	0.0	0.0	0.0	17.2	29.9	15.0	0.0
0.0	0.7	11.5	0.0	0.0	0.0	0.0	0.0	7.6	24.7	64.5	0.0
0.0	15.0	0.7	0.0	0.0	0.0	0.0	0.0	2.1	31.6	2.9	0.0
0.0	0.7	0.0	0.0	0.0	0.0	0.1	0.0	0.0	16.5	0.2	0.0
0.0	0.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	8.1	0.0

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	9.2	0.0
0.3	-77.0	0.1	0.0	0.1	0.0	0.0	0.0	0.5	0.0	1.1	1.9
0.1	-77.0	0.1	0.0	0.0	0.0	0.0	0.0	8.6	0.0	0.0	1.8
0.0	-77.0	0.0	-77.0	0.0	-77.0	0.0	0.0	-77.0	0.0	-77.0	0.1
Jan_2007	Feb_2007	Mar_2007	Apr_2007	May_2007	Jun_2007	Jul_2007	Aug_2007	Sep_2007	Oct_2007	Nov_2007	Dec_2007
0.1	0.0	0.2	0.0	26.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.2	0.0	0.0	9.2	11.3	0.0	0.0	0.0	0.0	2.8	0.0	0.1
0.2	0.3	0.0	6.2	1.2	0.0	0.0	0.0	0.0	2.8	0.0	0.0
0.0	0.2	5.3	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.1
0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
0.1	0.8	3.6	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
0.2	10.1	6.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
0.0	27.2	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.1	2.0	0.0	3.5	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.3
0.0	0.5	0.0	7.3	0.0	2.1	0.0	0.0	0.1	0.0	0.0	0.1
0.1	5.7	0.0	7.7	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0
0.0	9.2	0.0	2.5	0.3	0.0	0.0	0.0	1.8	0.0	0.0	0.1
0.0	2.1	0.0	0.2	0.9	0.1	0.0	0.0	0.1	0.0	0.0	0.2
0.1	4.8	0.0	0.0	0.1	18.2	0.0	0.1	0.0	0.0	0.0	0.1
0.1	0.2	0.0	0.0	0.0	0.7	0.2	0.5	0.1	0.0	0.0	0.1
0.9	8.3	0.0	0.0	0.0	18.9	0.4	0.0	0.7	0.2	0.0	0.0
0.6	2.5	0.0	0.4	0.0	16.8	0.0	0.0	0.1	0.0	0.0	0.0
0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	14.0	0.0	0.0	7.7
0.0	9.8	0.0	1.6	0.0	4.2	0.0	0.0	0.0	0.0	66.1	15.7
0.0	4.7	0.0	2.1	0.3	0.0	0.0	0.0	3.7	0.0	28.6	0.8
0.1	1.1	0.0	0.1	0.0	0.0	0.0	0.0	0.8	0.0	0.7	0.4
1.7	5.0	0.0	0.0	13.9	0.0	0.0	0.0	0.0	0.0	1.7	0.0
0.6	0.2	0.0	0.0	0.8	0.0	1.7	0.0	0.0	0.0	0.0	0.0
0.1	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	4.3	0.0	0.2
1.6	3.3	1.5	4.8	0.0	0.0	0.0	0.1	0.0	0.7	0.0	3.6
0.0	1.3	5.3	0.6	0.8	0.0	0.0	0.5	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.7	2.9	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.9	-77.0	0.0	0.2	0.0	0.0	0.0	0.0	10.3	0.0	0.0	0.1
3.8	-77.0	2.2	3.1	0.1	0.0	0.0	0.0	53.9	0.0	0.0	0.1
0.4	-77.0	6.8	-77.0	0.0	-77.0	0.0	0.0	-77.0	0.0	-77.0	0.0
Jan_2008	Feb_2008	Mar_2008	Apr_2008	May_2008	Jun_2008	Jul_2008	Aug_2008	Sep_2008	Oct_2008	Nov_2008	Dec_2008
12.5	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6
6.5	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4
38.6	15.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	14.1
0.8	0.7	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.7	0.8
3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.8	0.0	0.0	2.6
0.1	0.1	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	6.5
0.0	0.0	0.0	11.8	3.0	0.0	0.0	0.0	0.0	4.8	3.1	8.6

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

## ANEXO 8 – Necessidades Hídricas das Culturas

### ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

1.5	0.0	0.0	15.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
4.9	0.0	0.2	18.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1
5.4	0.0	10.7	10.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7.1	0.0	1.7	0.1	1.2	0.0	0.4	0.1	0.0	2.3	0.6	2.6
0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.0	2.3	0.1	4.8
13.0	0.0	0.0	1.3	0.3	0.0	0.0	0.0	0.0	0.3	0.1	9.2
2.3	0.0	0.0	0.1	0.5	0.0	0.0	0.0	0.0	0.1	0.0	6.5
3.5	0.0	0.0	0.0	13.5	0.2	0.0	0.0	0.0	0.0	0.0	1.1
0.6	0.0	0.0	9.9	0.5	3.6	0.0	0.1	0.0	0.1	0.0	0.0
0.2	17.2	3.3	33.3	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0
0.1	62.2	2.1	14.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
0.0	1.6	7.3	23.5	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	1.8	0.2	16.0	4.9	0.0	0.0	0.0	0.2	0.0	0.0	0.0
0.0	1.0	0.0	2.2	0.0	0.0	0.0	0.0	1.1	2.9	0.0	0.1
0.0	0.0	0.7	0.0	14.5	0.0	0.0	0.0	1.7	0.3	0.0	0.0
0.0	4.8	0.0	0.0	21.4	0.0	0.0	0.0	0.2	0.1	0.0	0.0
0.0	13.0	0.0	0.0	7.3	0.0	0.0	0.0	0.1	0.0	0.5	0.0
0.0	0.5	0.0	0.0	2.6	0.0	0.2	0.0	0.0	0.0	0.2	0.0
0.0	0.0	0.1	0.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.2	1.8	0.0	8.5	0.0	0.0	0.0	0.0	0.3	0.0	25.1
0.0	0.4	0.0	0.0	4.1	0.0	0.0	0.0	0.1	0.1	11.3	8.3
0.0	0.0	0.0	0.3	3.0	0.0	0.0	0.0	0.3	0.0	14.3	11.2
0.0	-77.0	1.5	0.2	2.1	0.0	0.0	0.0	0.0	4.4	1.5	0.6
0.0	-77.0	0.0	-77.0	0.0	-77.0	0.0	0.0	-77.0	7.5	-77.0	7.6
Jan_2009	Feb_2009	Mar_2009	Apr_2009	May_2009	Jun_2009	Jul_2009	Aug_2009	Sep_2009	Oct_2009	Nov_2009	Dec_2009
11.2	36.9	1.5	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.3	1.9
8.0	6.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.4
6.4	9.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8
0.0	8.6	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0
0.0	5.6	4.3	0.0	0.0	5.5	0.0	0.0	0.0	1.6	0.2	3.7
0.0	2.9	1.0	0.0	0.0	5.4	0.0	0.0	0.0	4.6	1.7	7.4
0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.8	0.1	8.2
0.0	2.1	0.0	0.1	0.0	2.8	0.0	0.0	0.1	0.2	0.4	0.0
0.1	7.6	0.0	1.1	12.6	0.1	0.0	0.0	0.3	0.0	0.0	0.0
0.3	0.3	0.0	2.6	0.5	0.0	0.0	0.0	0.3	0.0	0.0	0.0
0.0	0.1	0.0	0.1	12.8	0.0	0.0	0.0	0.1	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7.9	0.0	0.0	1.1	0.1	0.0	0.0	0.1	1.6	0.0	2.1	0.0
0.1	0.0	0.0	12.0	0.0	0.5	0.0	0.0	0.0	0.0	12.7	0.0
19.6	0.0	0.0	20.2	0.0	3.4	0.0	9.4	0.0	0.0	9.4	0.1
5.9	0.0	0.0	9.5	0.1	3.4	0.0	0.0	0.0	0.0	15.7	12.8
0.1	0.0	0.0	3.7	0.0	0.0	0.0	0.0	0.6	0.0	1.6	0.8
2.3	0.0	0.0	10.7	0.0	0.0	0.0	0.0	1.8	0.0	0.2	2.1
13.8	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.5	0.0	13.0
0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.6	9.9	17.7
11.9	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0	2.5	0.1	15.2
15.2	0.0	0.0	0.0	4.1	0.0	0.8	0.0	0.0	0.1	0.1	23.0
2.7	0.0	0.0	0.0	13.0	0.0	0.0	0.0	0.0	0.0	0.1	8.2
15.0	0.0	0.0	0.0	0.3	0.4	0.0	0.0	0.0	0.0	6.9	22.6
4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	4.2	1.2
1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	1.9	11.7
8.3	2.3	0.0	0.0	0.0	29.9	0.0	0.0	0.0	0.0	1.2	39.0
8.3	-77.0	0.0	0.1	0.0	3.3	0.0	0.0	0.2	0.0	19.9	59.9
12.1	-77.0	0.0	1.5	0.0	0.0	0.0	0.0	6.1	0.0	0.3	14.4
9.4	-77.0	0.0	-77.0	0.0	-77.0	0.0	0.0	-77.0	0.1	-77.0	20.8
Jan_2010	Feb_2010	Mar_2010	Apr_2010	May_2010	Jun_2010	Jul_2010	Aug_2010	Sep_2010	Oct_2010	Nov_2010	Dec_2010
5.2	0.0	0.9	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4
0.9	0.0	14.7	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.6
20.6	3.6	4.6	1.4	0.0	0.0	0.0	0.0	0.0	22.3	0.0	0.4
19.6	7.8	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.4
0.2	1.0	27.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	52.5
1.6	0.1	13.2	0.0	0.0	0.0	0.0	0.0	0.1	1.6	0.0	12.9
0.1	4.4	4.0	0.0	3.6	0.0	0.0	0.0	1.2	1.1	0.0	8.2
0.0	4.8	16.5	0.1	12.6	5.3	0.0	0.0	0.0	46.1	4.2	15.7
0.0	0.1	3.7	0.0	18.8	11.2	0.0	0.0	0.0	8.0	4.7	11.8
4.5	13.0	0.0	0.0	0.0	2.9	0.0	0.0	0.0	2.2	0.2	0.0
12.0	0.9	0.0	0.0	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.1
43.8	0.0	0.0	1.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	1.2
24.7	0.0	0.0	7.8	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.1
4.6	0.5	0.0	30.4	0.1	0.0	0.0	0.0	0.0	0.0	21.1	0.1
7.9	13.7	0.0	12.1	0.0	0.0	0.0	0.6	0.1	0.0	0.2	0.0
9.1	9.1	0.0	8.9	0.0	0.0	0.0	0.0	0.2	0.0	0.2	0.0
0.4	9.2	0.0	15.9	0.0	0.0	0.0	0.0	3.8	0.0	21.2	0.1
2.4	0.3	1.2	28.9	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2
0.7	0.9	7.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	14.7	0.1
1.4	5.4	4.7	0.3	0.0	0.0	0.0	0.0	0.4	0.0	4.8	46.4
0.0	26.5	0.2	2.9	0.0	0.0	0.0	0.0	0.0	0.0	2.6	33.8
0.0	21.0	0.0	9.3	0.0	0.0	0.0	0.0	0.0	0.0	0.2	6.6
0.0	19.8	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	1.1
0.0	2.5	9.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
0.0	17.0	8.0	0.0	4.7	0.9	0.0	0.0	0.0	0.0	0.0	5.2
0.2	5.3	0.9	0.0	0.0	2.6	0.0	0.0	0.0	0.0	0.0	0.0
0.0	27.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	10.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.3
0.0	-77.0	10.2	0.0	0.0	0.0	0.0	0.0	0.0	31.9	8.7	6.6
0.0	-77.0	0.3	0.0	0.0	0.2	0.0	0.0	0.0	19.5	14.3	30.3
0.0	-77.0	0.4	-77.0	0.0	-77.0	0.0	1.0	-77.0	15.6	-77.0	27.7



Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

Jan_2011	Feb_2011	Mar_2011	Apr_2011	May_2011	Jun_2011	Jul_2011	Aug_2011	Sep_2011	Oct_2011	Nov_2011	Dec_2011
0.8	0.0	0.0	0.0	1.0	0.0	0.0	2.6	36.6	0.0	4.1	0.0
0.1	0.0	0.0	0.1	2.0	0.0	0.0	0.0	10.2	0.0	34.9	0.3
0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	24.3	0.0
4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	3.0	0.0
8.0	0.0	2.4	0.0	0.0	14.7	0.0	0.0	0.0	0.0	1.6	0.1
38.1	0.0	0.5	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.1
9.1	0.0	0.1	0.0	2.6	0.0	0.0	0.0	0.0	0.0	1.1	0.0
12.7	0.1	9.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.1	0.1
2.7	0.1	6.6	0.0	0.0	1.0	0.0	0.0	0.0	0.0	45.7	0.3
6.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.3	11.7
1.1	0.0	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9	3.5
0.1	0.0	7.2	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.1	0.8
0.1	13.1	26.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	2.2
0.2	16.0	16.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.9	4.4
0.1	12.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.5	0.1
0.1	26.4	0.0	0.0	7.3	0.0	0.0	0.0	0.0	0.0	2.1	6.7
0.8	3.3	0.0	0.0	3.6	0.0	0.0	0.0	0.0	0.0	0.4	0.0
0.1	3.5	0.0	8.3	14.3	0.0	0.0	0.0	0.0	0.0	12.3	0.0
0.0	29.2	0.0	21.3	0.0	0.0	0.0	0.0	0.0	0.0	4.8	0.0
0.0	0.8	0.0	19.8	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.0
0.0	0.0	0.0	22.4	0.0	0.0	0.0	0.7	0.0	0.0	0.2	0.1
0.0	0.0	0.0	1.6	0.0	0.0	0.0	0.0	0.0	0.1	13.4	0.1
0.0	0.0	0.0	3.2	5.1	0.0	0.0	0.0	0.0	35.1	0.0	0.1
0.0	0.0	1.7	0.1	0.1	0.0	0.0	0.0	0.0	23.0	0.0	0.0
0.0	0.0	6.4	0.1	0.0	0.0	0.0	0.0	0.0	1.5	0.0	0.0
0.0	0.0	7.8	0.0	0.2	0.0	0.0	0.3	0.0	40.7	0.0	0.0
7.7	0.0	1.1	0.0	0.2	0.0	0.0	0.0	0.0	8.8	0.0	0.0
6.0	0.0	3.1	0.2	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.6	-77.0	0.3	8.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.1	-77.0	0.0	11.2	2.5	0.0	0.0	0.2	0.0	0.0	0.0	0.0
0.0	-77.0	0.0	-77.0	0.0	-77.0	0.0	9.4	-77.0	0.3	-77.0	0.0
Jan_2012	Feb_2012	Mar_2012	Apr_2012	May_2012	Jun_2012	Jul_2012	Aug_2012	Sep_2012	Oct_2012	Nov_2012	Dec_2012
0.4	0.2	0.0	0.6	3.0	0.1	0.0	0.0	0.0	0.0	0.9	0.0
0.7	0.0	0.0	4.5	32.5	0.5	0.0	0.0	0.0	0.0	6.4	0.0
0.0	0.0	0.4	0.0	15.5	0.0	0.0	0.0	0.0	0.0	11.5	0.0
0.0	0.0	0.4	0.0	3.3	0.0	0.0	0.0	0.0	0.0	19.5	0.8
0.1	0.0	0.0	0.1	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	1.9	11.6	0.0	0.0	0.0	0.0	0.0	0.0	15.1
0.0	0.0	0.0	0.6	26.9	0.2	0.0	0.0	0.0	0.0	27.4	10.1
0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.0	16.8	0.1
0.1	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0	8.1	0.1
0.0	0.0	0.0	2.7	0.0	0.7	0.0	0.0	0.0	0.0	1.4	0.0
0.0	0.0	0.0	0.1	0.0	0.6	0.0	0.0	0.0	2.8	0.8	0.0

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1
0.1	0.0	0.0	1.8	0.0	0.0	0.0	0.0	0.0	0.3	0.0	2.7
0.6	0.0	0.0	14.8	0.0	0.0	0.0	0.1	0.0	0.6	0.0	42.2
2.5	0.0	0.0	0.3	0.0	0.0	0.0	9.3	0.0	0.0	11.5	1.8
0.1	0.0	0.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0	11.6	1.9
0.0	0.0	0.2	0.1	0.0	0.0	0.0	0.0	0.0	23.7	35.1	5.7
0.0	0.0	0.4	4.1	0.2	0.0	0.0	0.0	0.0	16.2	0.0	1.3
0.0	0.0	0.0	3.4	0.3	0.0	0.0	0.0	0.0	0.3	0.0	1.6
0.0	0.0	0.0	3.5	3.9	0.1	0.0	0.0	0.0	0.4	6.4	2.5
0.0	0.0	0.0	1.4	0.0	0.2	0.0	0.0	0.0	0.5	0.7	0.8
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9	0.0	0.1
0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	7.2	0.1	0.0	0.0
0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	6.6	32.5	1.4
0.0	0.0	0.0	17.3	0.0	0.0	0.0	0.4	11.1	14.5	6.1	0.7
0.8	0.0	0.0	6.0	0.0	0.0	0.0	0.0	0.1	12.4	0.1	0.1
0.0	0.0	0.0	7.0	0.0	0.0	0.0	0.0	5.8	0.0	0.0	0.0
0.0	0.0	0.0	1.3	0.0	0.0	0.0	0.0	7.9	1.8	0.0	0.0
0.0	0.0	0.0	5.8	0.0	0.0	0.0	0.0	0.0	7.4	0.4	3.8
0.0	-77.0	0.6	0.3	0.0	0.0	0.0	0.0	0.0	9.1	0.7	0.1
0.0	-77.0	0.5	-77.0	0.0	-77.0	0.0	0.0	-77.0	0.1	-77.0	21.6
Jan_2013	Feb_2013	Mar_2013	Apr_2013	May_2013	Jun_2013	Jul_2013	Aug_2013	Sep_2013	Oct_2013	Nov_2013	Dec_2013
0.2	2.1	0.1	3.8	0.0	0.0	0.0	0.0	0.0	9.8	0.0	0.0
0.1	0.1	0.0	1.0	0.0	0.0	0.0	0.1	0.0	14.0	0.4	0.0
0.0	0.0	1.5	12.8	0.0	0.0	0.0	0.0	2.1	5.2	0.0	0.0
0.0	0.0	7.0	10.7	0.0	0.0	0.0	0.0	4.1	0.0	1.9	0.0
0.0	0.0	9.6	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.5	0.0
0.0	0.0	5.8	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	17.3	0.6	0.0	1.2	0.0	0.0	0.2	0.0	0.0	0.0
0.9	0.0	26.4	0.0	0.0	0.4	0.0	0.0	0.0	0.0	2.1	0.0
5.8	0.0	16.6	1.6	0.5	0.0	0.0	0.0	0.0	0.0	0.1	0.0
7.8	3.7	13.1	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
3.6	2.5	4.4	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
2.5	0.6	1.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
0.0	0.0	0.3	0.0	1.9	0.0	0.0	0.0	0.0	0.0	0.2	0.0
14.4	0.0	3.9	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.1	0.0
4.1	12.7	9.1	0.0	6.2	0.1	0.0	0.0	0.0	0.1	0.1	3.3
17.7	0.1	0.0	0.0	1.0	3.6	0.0	0.0	0.0	29.2	0.0	2.0
29.9	6.0	8.4	0.0	2.2	0.3	0.0	0.0	0.0	1.2	0.0	4.5
11.4	0.2	0.1	0.0	2.5	0.0	0.0	0.0	0.0	0.1	0.0	0.0
1.2	13.3	1.2	0.0	0.0	0.0	0.0	0.0	0.0	3.1	0.0	0.0
26.2	16.6	13.7	0.0	0.0	0.0	0.0	0.0	0.0	20.5	3.6	0.1
6.2	0.4	5.0	0.0	0.0	0.0	0.0	0.0	0.0	13.1	0.0	5.7

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.4	0.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	46.2	0.0	30.6
8.3	0.0	11.5	0.0	0.0	0.0	0.0	0.0	0.0	9.0	0.0	12.1
0.0	0.0	14.7	2.3	0.0	0.0	0.0	0.0	0.2	2.0	0.0	1.4
7.3	6.3	6.2	0.0	0.0	0.0	0.0	0.0	27.4	0.1	0.0	7.8
0.1	5.8	1.7	0.6	0.0	0.0	1.2	0.0	18.2	4.3	0.0	1.2
0.0	-77.0	19.9	0.3	2.4	0.0	0.0	0.0	6.3	0.0	0.0	0.1
0.0	-77.0	0.0	0.0	0.0	0.0	0.0	0.0	69.1	0.0	0.0	1.4
0.0	-77.0	47.1	-77.0	0.0	-77.0	0.0	0.0	-77.0	0.0	-77.0	11.0
Jan_2014	Feb_2014	Mar_2014	Apr_2014	May_2014	Jun_2014	Jul_2014	Aug_2014	Sep_2014	Oct_2014	Nov_2014	Dec_2014
9.8	4.1	10.8	35.4	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.0
13.3	0.0	8.0	12.6	0.0	0.0	5.3	0.0	0.0	0.0	1.9	0.1
11.4	13.6	2.0	0.5	0.0	0.0	2.4	0.2	0.0	0.0	22.2	0.1
15.0	22.4	1.1	11.4	0.0	0.0	0.0	0.0	0.0	0.0	2.3	0.1
0.5	0.6	0.7	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
8.7	15.5	0.0	0.0	0.0	15.2	0.4	0.0	11.9	0.2	0.2	0.1
24.3	2.6	0.0	0.1	0.0	0.0	0.0	0.0	10.4	1.9	5.8	0.0
0.0	8.8	0.0	0.0	0.0	0.0	0.0	0.0	0.3	15.2	7.1	0.1
0.0	13.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.2	0.6	0.0
0.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0	3.5	3.4	21.2	0.1
0.0	6.2	0.0	0.0	0.0	0.0	0.0	0.0	8.9	2.9	6.5	0.1
7.4	5.2	0.0	0.0	0.0	0.0	0.0	0.1	0.0	17.4	0.4	2.5
1.7	15.8	0.2	0.0	0.0	0.0	0.0	0.0	1.7	15.4	30.9	12.1
3.7	12.7	0.0	0.1	0.0	0.0	0.0	0.0	3.5	0.6	7.2	3.2
5.2	0.4	0.0	0.0	0.0	0.0	0.0	0.0	9.6	5.1	4.0	0.0
1.0	0.1	0.0	0.0	0.1	0.0	0.0	0.0	18.5	0.5	0.1	0.3
16.9	0.7	0.0	0.3	0.0	0.0	0.0	0.0	11.0	0.1	0.0	0.0
4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	0.1	5.9	0.1
3.7	0.1	0.0	0.0	0.5	0.0	4.6	0.0	3.2	0.0	40.5	0.1
0.2	2.3	0.2	2.4	14.6	0.0	0.2	0.0	3.9	0.0	3.2	0.2
8.2	0.0	1.2	0.3	15.8	1.0	0.0	0.0	12.1	0.0	0.0	0.1
1.1	0.8	2.2	0.1	5.3	0.4	0.0	0.0	9.5	0.0	0.7	0.0
0.0	3.0	0.0	3.7	0.4	4.1	0.0	0.0	3.2	0.0	1.8	0.0
0.0	2.0	3.3	2.5	0.0	0.7	0.0	0.0	0.3	0.0	0.0	0.0
0.0	1.5	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	12.1	0.0
0.4	1.2	5.2	0.1	0.2	0.0	0.0	0.0	2.1	0.0	10.3	0.0
2.7	0.2	11.8	0.0	0.1	0.3	0.0	0.0	1.0	0.0	18.3	1.1
3.1	-77.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	2.6	0.0
0.1	-77.0	6.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0
3.1	-77.0	19.4	-77.0	0.0	-77.0	0.0	0.0	-77.0	0.0	-77.0	0.0
Jan_2015	Feb_2015	Mar_2015	Apr_2015	May_2015	Jun_2015	Jul_2015	Aug_2015	Sep_2015	Oct_2015	Nov_2015	Dec_2015
0.1	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	2.1	0.0
0.1	8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26.4	0.0
0.0	1.4	0.1	0.0	7.0	0.0	0.0	0.0	0.0	0.1	4.2	0.0

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

## ANEXO 8 – Necessidades Hídricas das Culturas

### ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.0	0.0	0.0	0.0	6.6	0.0	0.0	0.0	0.0	6.5	6.9	0.0
0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	32.9	5.0	0.0
0.0	0.8	0.0	1.8	0.0	0.0	0.0	0.0	0.0	2.2	0.6	0.0
0.3	0.0	0.0	0.0	0.0	3.1	0.0	0.0	0.0	0.0	0.0	0.6
0.1	0.0	0.0	1.5	1.1	0.1	0.0	0.0	0.0	0.0	0.0	0.1
0.0	0.0	0.0	8.3	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.1
0.0	0.0	0.0	5.6	0.0	0.0	0.0	0.0	0.0	17.4	0.0	0.0
0.1	1.6	0.0	0.1	0.0	3.5	0.0	0.0	0.0	11.1	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	69.6	0.0	0.0
0.1	2.3	0.0	0.0	0.0	1.0	0.0	0.0	2.6	1.2	0.1	7.8
0.3	5.8	0.0	1.0	0.0	5.7	0.0	0.0	0.1	0.0	0.0	31.9
16.2	1.8	0.0	3.0	0.0	2.3	0.0	0.0	7.8	0.0	0.1	0.0
10.1	0.0	0.0	0.8	0.0	0.0	0.0	0.0	13.5	0.0	0.0	0.0
14.0	0.0	4.1	0.0	0.0	0.0	0.0	0.0	0.4	28.0	0.0	0.0
9.9	0.0	2.4	1.0	0.0	0.0	0.0	0.0	0.0	14.4	0.0	0.0
0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	2.3	0.0	0.0
2.5	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	2.4
0.5	1.9	0.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.1
0.4	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
0.0	0.6	1.5	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.1
0.0	0.0	0.4	8.7	0.0	0.0	0.0	0.0	0.0	4.5	0.0	0.4
0.0	0.0	0.0	15.1	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0
0.0	0.0	0.0	18.0	0.0	0.0	0.0	0.0	0.0	20.6	0.0	0.0
0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	5.8	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	1.3	0.0	24.3
2.1	-77.0	0.0	0.0	0.0	0.0	0.0	0.0	6.5	1.3	0.0	0.2
5.9	-77.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	11.8
14.6	-77.0	0.0	-77.0	0.0	-77.0	0.0	1.1	-77.0	3.7	-77.0	0.0
<b>Jan_2016</b>	<b>Feb_2016</b>	<b>Mar_2016</b>	<b>Apr_2016</b>	<b>May_2016</b>	<b>Jun_2016</b>	<b>Jul_2016</b>	<b>Aug_2016</b>	<b>Sep_2016</b>	<b>Oct_2016</b>	<b>Nov_2016</b>	<b>Dec_2016</b>
18.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	1.1
0.2	0.0	0.0	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
5.7	0.0	0.0	12.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	39.1
11.9	0.0	0.6	15.6	0.0	0.0	3.5	0.0	0.0	0.0	15.5	0.6
9.2	0.0	0.8	0.0	9.0	0.0	0.0	0.0	0.0	0.0	19.1	0.0
8.4	6.9	0.0	0.0	7.7	0.0	0.1	0.0	0.0	0.0	0.0	0.0
8.7	0.5	2.4	0.0	34.6	0.0	0.5	0.0	0.0	0.0	0.0	0.0
18.2	0.9	0.0	0.0	20.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.5	5.3	0.6	0.1	5.9	0.0	0.0	0.0	0.0	0.0	3.3	0.0
14.6	18.5	0.0	4.0	21.9	0.0	0.0	0.0	0.0	0.1	0.0	0.0
12.8	3.5	0.0	4.2	13.3	0.0	0.0	0.0	0.0	10.1	0.1	0.0
0.3	25.2	0.0	10.8	8.6	0.0	0.0	0.0	0.0	19.9	2.5	0.0
0.0	14.2	0.0	2.0	1.2	0.0	0.0	0.0	15.5	1.0	0.1	0.1
2.1	18.0	0.0	11.7	0.0	0.0	0.0	0.0	2.4	0.0	0.0	21.9
0.0	2.7	5.6	10.6	0.0	2.3	0.0	0.0	0.4	0.0	0.0	7.3

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

## ANEXO 8 – Necessidades Hídricas das Culturas

### ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.0	0.0	0.1	15.9	0.0	0.7	0.0	0.0	0.0	0.5	0.0	1.3
0.0	5.9	0.1	0.2	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0
0.6	0.1	12.8	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
7.9	0.0	5.8	27.3	0.0	0.0	0.0	0.0	0.0	0.0	7.1	0.0
5.2	0.0	8.5	10.5	0.0	0.0	0.0	0.0	0.0	0.0	33.3	0.0
5.6	0.0	0.6	5.1	0.0	0.0	0.0	0.0	0.0	0.4	9.8	0.0
1.4	0.0	1.9	0.1	0.3	0.0	0.0	0.0	0.0	28.2	2.5	0.0
0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	7.2	0.8	0.2
0.0	5.7	0.0	0.0	0.5	0.0	0.0	0.0	0.0	10.2	14.5	0.0
20.7	0.1	0.0	0.0	0.3	0.0	0.0	1.1	0.0	2.8	30.0	0.0
0.2	27.4	8.4	0.0	0.0	0.0	0.0	0.1	0.1	0.0	10.9	0.1
0.1	4.3	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.3	0.0
4.9	0.0	0.7	0.0	5.8	0.0	0.0	0.0	0.0	0.0	0.1	0.0
0.1	0.0	0.1	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	-77.0	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	-77.0	0.3	-77.0	0.0	-77.0	0.0	0.0	-77.0	0.0	-77.0	0.0
Jan_2017	Feb_2017	Mar_2017	Apr_2017	May_2017	Jun_2017	Jul_2017	Aug_2017	Sep_2017	Oct_2017	Nov_2017	Dec_2017
0.0	6.2	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
6.6	12.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.5	0.1
18.5	7.6	15.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26.2	0.1
9.1	9.2	5.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.1	0.1
0.1	2.1	2.6	0.0	15.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.4	0.0	0.0	0.1	8.7	0.0	0.0	0.0	0.0	0.1
0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
0.0	3.9	0.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
0.0	9.8	0.0	0.0	15.7	0.0	0.0	0.0	0.0	0.0	0.0	24.9
0.0	2.5	0.0	0.0	21.3	0.0	0.0	0.0	0.0	0.0	0.0	13.7
0.1	29.3	0.0	0.0	11.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	4.2	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.2
0.0	4.7	0.1	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	2.8
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9
0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	4.6	0.0	0.1
0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	15.1	0.0	0.1
0.0	0.1	0.0	0.1	0.0	1.8	0.0	0.0	0.0	0.4	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.1
0.0	0.0	9.8	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
0.0	0.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.9	0.1
0.0	0.0	4.1	0.0	6.7	0.0	0.0	0.0	0.0	0.0	5.6	0.8
0.1	0.0	21.8	0.0	0.2	0.3	0.0	0.0	0.0	0.0	0.0	8.4
22.6	0.0	31.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	11.0
8.4	1.2	7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	13.9

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

1.6	0.5	0.2	0.0	0.9	5.2	0.0	1.0	0.0	0.0	13.2	3.2
5.1	-77.0	0.0	2.4	0.4	0.0	0.0	5.3	0.0	0.0	0.0	1.9
0.3	-77.0	0.0	5.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
3.6	-77.0	0.8	-77.0	0.0	-77.0	0.2	0.0	-77.0	0.0	-77.0	3.1
Jan_2018	Feb_2018	Mar_2018	Apr_2018	May_2018	Jun_2018	Jul_2018	Aug_2018	Sep_2018	Oct_2018	Nov_2018	Dec_2018
0.1	0.0	24.4	0.0	0.1	0.0	0.6	0.0	0.0	0.0	0.0	0.0
1.0	0.0	25.6	3.2	0.0	0.0	0.3	0.0	0.0	0.0	0.8	0.0
0.6	0.3	18.9	7.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.7	0.7	10.2	4.4	0.0	1.3	0.0	0.0	0.0	0.0	22.8	0.0
15.3	0.4	16.1	0.0	0.0	0.6	0.0	0.0	3.0	0.0	4.9	0.1
0.1	0.0	4.4	13.2	1.1	0.2	0.0	0.0	0.1	0.0	1.4	0.0
0.3	0.0	6.0	5.0	0.9	4.1	0.0	0.0	2.1	0.0	6.6	0.1
0.0	0.0	4.1	11.4	0.0	8.1	0.0	0.0	0.0	0.0	7.9	0.0
16.8	3.0	62.1	3.4	0.0	2.1	0.0	0.0	0.0	0.0	0.6	0.0
5.7	0.0	12.4	21.1	0.0	1.4	0.0	0.0	0.0	0.0	10.2	0.0
0.5	0.2	21.5	0.1	0.0	0.0	0.0	0.0	0.0	1.8	16.7	0.0
0.0	0.2	2.1	22.8	0.0	0.0	0.0	0.0	0.0	0.0	0.1	3.1
13.6	0.3	2.0	2.0	0.0	0.0	0.0	0.0	0.0	4.5	0.0	6.0
2.3	0.5	23.5	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0
0.0	0.4	7.4	6.8	0.0	0.0	0.0	0.0	0.0	11.0	0.9	1.4
0.0	0.0	4.9	0.0	0.0	0.0	0.0	0.0	0.0	3.6	0.6	8.9
0.1	0.0	25.6	0.0	0.7	0.0	0.0	0.0	0.4	0.6	0.1	0.1
0.0	0.0	0.3	0.0	3.8	0.0	0.0	0.0	0.0	2.4	19.2	11.3
0.0	0.0	14.1	0.0	0.4	0.0	0.0	0.0	0.0	0.9	0.0	0.9
0.1	0.0	0.0	0.0	6.5	0.2	0.0	0.1	0.0	6.5	4.3	0.5
0.0	0.0	0.0	14.1	0.0	17.2	0.0	1.3	0.0	9.0	5.6	0.1
0.1	0.0	0.0	1.4	0.0	5.7	0.0	0.0	0.0	0.1	1.7	0.2
0.0	0.0	8.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0
0.1	0.0	3.2	0.0	33.8	0.0	0.0	0.0	0.0	0.0	10.4	0.1
11.2	0.0	2.4	0.0	5.1	0.0	0.0	0.0	0.0	0.0	20.0	0.0
0.0	2.4	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0
0.0	24.8	0.0	0.0	0.0	0.0	0.0	0.4	0.3	0.0	0.0	0.3
0.0	51.7	0.0	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	-77.0	2.8	10.0	0.0	0.2	0.0	0.0	0.0	3.4	19.7	0.0
0.0	-77.0	6.9	2.1	0.0	1.8	0.0	0.0	0.0	14.3	0.2	0.0
0.0	-77.0	1.3	-77.0	0.2	-77.0	0.0	0.0	-77.0	6.5	-77.0	0.0
Jan_2019	Feb_2019	Mar_2019	Apr_2019	May_2019	Jun_2019	Jul_2019	Aug_2019	Sep_2019	Oct_2019	Nov_2019	Dec_2019
0.0	17.8	0.0	5.1	0.0	0.0	0.0	0.0	0.0	0.0	15.2	14.1
0.1	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.8	0.0
0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.7	0.0
0.3	0.0	1.7	3.8	0.0	0.7	0.0	0.0	0.0	0.0	7.3	1.5
0.1	0.0	4.9	13.9	0.0	0.0	0.0	0.0	0.0	0.0	2.2	0.0
0.0	0.0	31.8	15.5	0.0	5.6	0.0	0.0	0.0	0.0	4.9	0.0
0.0	0.0	10.6	7.1	2.8	0.0	0.0	0.9	0.0	0.0	0.8	0.0

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

## ANEXO 8 – Necessidades Hídricas das Culturas

### ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.1	0.0	0.1	2.4	4.3	0.0	0.0	0.5	0.0	0.0	0.1	0.9
0.0	0.0	0.0	7.9	5.5	0.0	0.0	3.4	0.0	0.0	5.0	0.3
0.0	4.4	0.0	0.1	2.4	0.0	0.0	0.9	0.0	0.0	1.0	0.0
0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.8
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	8.8
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	2.6	2.2
0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	22.7	9.6	0.5
0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.4	7.4
0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	32.6
0.1	0.0	0.0	19.0	0.0	0.0	0.0	0.0	0.0	23.6	12.2	0.1
2.2	13.2	0.0	1.1	0.0	2.4	0.0	0.0	0.0	0.0	0.0	13.7
8.0	0.0	0.0	8.7	0.0	0.2	0.0	0.0	0.0	12.9	1.8	44.6
0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	21.2	56.5
0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	14.5	0.1	6.2	13.3
0.5	0.0	0.0	4.7	0.0	0.0	0.0	0.0	0.2	0.0	38.6	0.1
0.1	0.0	0.0	13.8	0.0	0.0	0.6	0.0	0.0	0.0	2.4	0.1
0.0	0.0	0.0	27.1	0.0	1.5	0.0	0.0	0.3	0.0	5.2	0.1
0.0	0.0	0.0	5.1	0.0	0.0	0.0	0.6	0.0	0.0	4.5	0.0
0.0	0.0	0.0	0.0	0.0	0.8	0.3	20.9	0.0	0.0	25.3	0.1
0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.6	0.0
0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.7	1.9	0.0
1.5	-77.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	2.4	0.0
9.9	-77.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.3	3.9	0.0
23.3	-77.0	0.7	-77.0	0.0	-77.0	0.0	0.0	-77.0	3.8	-77.0	0.0
Jan_2020	Feb_2020	Mar_2020	Apr_2020	May_2020	Jun_2020	Jul_2020	Aug_2020	Sep_2020	Oct_2020	Nov_2020	Dec_2020
0.0	2.2	11.9	14.4	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0
0.0	0.1	7.6	0.1	0.0	0.0	0.0	0.0	0.0	5.7	0.0	0.1
0.0	0.1	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	1.1
0.0	0.1	0.8	0.6	0.1	0.0	0.0	0.0	0.0	0.9	0.4	11.5
0.0	0.0	3.3	44.7	0.0	0.0	0.0	0.0	0.0	0.0	21.9	0.2
0.0	0.0	0.1	14.7	0.0	0.0	0.0	0.1	0.0	0.0	21.7	1.6
0.0	0.0	0.0	3.3	0.0	0.0	0.0	0.0	0.0	0.0	9.2	2.9
0.1	0.4	0.0	0.5	0.1	0.0	0.0	0.0	0.0	0.0	12.1	1.0
0.0	0.1	0.0	13.6	5.1	0.0	0.0	0.0	0.0	0.0	1.2	1.1
0.0	0.0	0.0	0.0	5.2	0.0	0.0	0.0	0.0	0.0	0.1	10.8
0.0	0.0	0.0	0.1	17.2	0.0	0.0	0.0	0.0	0.0	0.1	6.7
0.0	0.2	0.0	0.9	1.3	2.9	0.0	0.0	0.0	0.0	0.0	0.7
0.0	0.4	0.0	1.5	21.3	0.1	0.0	0.0	0.0	0.0	0.0	1.7
5.6	0.1	0.0	9.0	6.8	0.0	0.0	0.0	0.0	0.0	1.2	9.2
11.9	0.0	0.0	9.0	8.5	0.0	0.0	0.0	0.0	0.0	0.1	0.6
9.0	0.1	0.3	26.0	0.0	0.2	0.0	0.0	1.1	0.0	0.1	5.4
0.9	2.1	0.0	7.9	0.0	0.0	0.0	0.1	7.0	0.0	0.1	0.1
23.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.5	0.0	0.0	0.4
0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	32.3	0.0	8.1

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

### ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.0	0.0	32.9	22.0	0.0	0.0	0.0	0.7	2.5	46.8	0.0	0.1
0.0	0.0	8.0	0.1	0.0	0.0	0.5	0.1	0.0	3.2	0.0	0.8
4.3	0.0	0.1	0.0	0.0	0.0	0.0	0.0	3.6	3.9	0.0	0.1
17.1	0.0	1.2	0.0	0.0	0.0	0.0	0.0	4.0	0.1	0.0	0.9
1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.1	0.0
0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.2	33.7	0.0
0.1	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.3	3.0	0.0
5.7	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.2
1.3	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	4.6	6.8	2.9
1.7	1.3	0.0	2.9	0.0	0.0	0.0	0.0	0.0	0.0	1.2	3.8
3.1	-77.0	2.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.1	2.0
9.4	-77.0	4.2	-77.0	5.0	-77.0	0.0	0.0	-77.0	0.0	-77.0	4.1

#### 2.1.10 PRACANA

Tabela 10. Precipitações diárias na região de cálculo de Pracana (mm)

Jan_2003	Fev_2003	Mar_2003	Abr_2003	Mai_2003	Jun_2003	Jul_2003	Ago_2003	Set_2003	Out_2003	Nov_2003	Dez_2003
8.8	0.0	5.0	0.0	0.1	0.1	0.1	0.0	0.0	22.6	1.3	2.9
10.8	0.0	0.8	0.0	0.0	0.1	0.0	0.0	0.0	38.2	0.0	0.0
1.7	0.1	0.4	0.0	0.0	0.3	0.0	0.0	0.0	1.0	0.0	3.9
1.6	0.6	0.1	0.0	0.2	0.9	0.0	0.0	0.0	0.0	0.0	0.1
8.9	0.0	1.4	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	23.6
4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.9
15.7	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	9.8
8.6	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.3	19.8
5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35.5	19.2
0.0	0.0	0.0	6.2	0.0	0.0	0.0	0.5	0.0	0.0	12.0	0.1
0.0	2.5	0.0	0.5	0.0	0.0	0.0	0.0	0.0	17.4	0.2	0.0
0.1	0.1	0.0	9.5	0.0	0.0	0.1	0.6	0.0	0.0	1.1	0.0
0.0	0.1	0.2	14.4	0.0	0.0	0.1	0.3	0.0	0.0	0.2	0.0
0.0	0.0	0.0	5.8	0.1	0.0	1.1	0.0	0.0	0.0	0.3	0.1
0.1	0.0	0.0	0.9	0.0	0.0	4.6	0.0	0.0	1.1	36.9	0.0
0.0	0.4	0.0	0.1	0.0	0.0	0.0	0.6	0.0	0.3	0.0	0.0
0.0	6.9	2.3	0.0	0.0	0.0	0.0	0.3	0.0	0.2	0.0	7.5
25.1	25.5	0.7	2.3	0.0	0.0	0.0	0.0	0.0	21.6	0.0	9.8
5.3	10.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	5.5	0.0	0.2
21.8	6.6	0.0	2.7	0.0	0.0	0.0	0.0	0.0	1.8	0.0	0.1
4.7	5.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.7	0.0
8.6	17.4	0.2	0.4	0.0	0.0	0.0	0.0	0.0	0.0	21.8	0.0
0.0	0.7	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0
0.0	19.3	3.3	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.5	0.0
0.0	6.8	16.0	19.1	0.0	0.0	0.0	0.0	0.0	30.6	1.4	0.0
0.0	12.8	8.7	1.4	0.0	0.0	0.0	0.0	0.0	11.8	7.6	0.0



Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.0	2.4	8.2	0.0	0.0	0.0	0.2	2.6	0.7	33.4	2.2	2.4
0.0	0.0	1.5	3.1	0.0	0.0	0.0	6.4	0.0	5.2	0.0	5.2
0.0	-77.0	31.2	1.7	0.0	2.4	0.0	0.0	4.5	2.6	1.6	0.5
0.0	-77.0	5.3	1.1	0.2	0.5	0.0	0.1	63.8	6.6	8.7	0.3
0.0	-77.0	0.1	-77.0	0.0	-77.0	0.0	12.2	-77.0	37.5	-77.0	0.1
Jan_2004	Feb_2004	Mar_2004	Apr_2004	May_2004	Jun_2004	Jul_2004	Aug_2004	Sep_2004	Oct_2004	Nov_2004	Dec_2004
0.0	5.5	0.0	15.6	5.3	0.0	0.0	0.0	0.1	0.0	0.3	22.3
0.0	1.9	0.0	4.1	0.4	0.0	0.0	0.0	0.9	0.0	11.5	0.2
0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	8.1	0.0
0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.4	0.0	0.1	0.0
0.0	0.0	4.2	0.0	5.4	0.0	0.0	0.0	0.0	0.0	0.1	0.0
0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0
2.6	0.0	0.0	0.0	0.0	0.0	0.0	2.1	0.0	2.8	0.0	0.0
0.6	0.0	0.0	0.0	4.4	0.1	0.0	0.1	0.0	0.6	0.0	0.0
0.1	0.0	0.5	0.0	1.0	0.0	0.0	0.1	0.0	0.1	0.0	0.1
0.1	0.0	1.5	0.0	0.0	0.0	0.0	0.2	0.0	4.9	0.0	0.0
0.0	0.0	15.9	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
0.3	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.7
1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.1	0.0	0.0
0.2	0.0	0.1	0.0	0.0	0.0	0.0	0.7	0.0	0.1	0.0	0.0
0.0	0.0	0.0	3.6	0.0	0.0	0.0	0.9	0.0	34.3	0.0	0.0
0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	33.1	0.0	0.4
0.0	0.2	0.0	1.8	0.4	0.0	0.0	0.0	0.0	14.4	0.0	0.0
0.0	0.4	0.0	12.9	4.4	0.0	0.0	0.0	0.0	3.5	0.0	0.0
0.0	16.9	0.0	5.1	6.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
0.0	26.4	0.0	0.0	2.3	0.5	0.0	0.0	0.0	0.0	0.0	0.0
0.0	8.7	0.6	0.0	43.9	0.0	0.0	0.0	0.0	15.0	0.0	0.0
1.3	17.2	0.0	0.0	21.2	0.0	0.0	0.0	0.0	4.1	0.0	1.4
20.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	0.0	0.5
10.6	1.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0	33.7	0.1	0.0
0.0	1.2	0.5	0.0	0.0	0.0	0.0	0.0	0.0	18.1	1.4	0.6
3.7	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	7.3	0.7	0.0
16.2	-77.0	1.6	2.4	0.0	0.0	0.0	0.0	0.0	4.1	1.7	0.0
27.5	-77.0	10.3	-77.0	0.0	-77.0	0.0	0.0	-77.0	1.2	-77.0	0.0
Jan_2005	Feb_2005	Mar_2005	Apr_2005	May_2005	Jun_2005	Jul_2005	Aug_2005	Sep_2005	Oct_2005	Nov_2005	Dec_2005
0.0	0.0	0.0	4.7	0.6	0.0	0.0	0.0	0.0	0.0	0.1	20.9
0.0	0.0	0.1	13.9	0.1	0.0	0.0	0.0	0.0	0.0	0.7	42.0
0.0	0.0	0.0	11.6	0.0	0.0	0.0	0.0	0.0	0.0	42.5	0.7
0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.6
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
0.0	5.4	0.0	0.0	0.0	0.0	0.0	0.0	2.7	0.0	0.0	0.1

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

## ANEXO 8 – Necessidades Hídricas das Culturas

### ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	1.6	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	3.4	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.0	0.5	0.1	0.0
0.0	0.0	0.0	0.0	2.3	0.0	0.0	0.4	0.0	20.2	0.0	0.0
0.0	0.0	0.0	0.0	1.6	0.0	0.0	0.0	0.0	12.5	0.0	0.0
0.0	0.0	0.0	0.0	4.1	0.0	0.0	0.0	0.0	6.3	0.1	0.0
2.5	0.0	0.0	0.0	5.9	0.4	0.0	0.0	0.0	0.1	0.8	0.0
0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.4	1.8	0.0
0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0
0.0	0.0	0.0	0.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.5	0.0	0.0	0.3	0.0	0.0	5.9	0.1	0.0
0.0	0.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0	0.1	3.0	0.0
0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.2	33.5	0.0
0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	17.1	17.2	0.0
0.0	0.0	9.2	0.0	0.0	0.0	0.0	0.0	0.0	21.4	2.9	0.0
0.0	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26.9	0.4	0.0
0.0	8.2	3.2	6.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0
0.0	0.5	0.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	21.6	1.3	0.0	0.0	0.0	0.0	0.0	0.0	1.1	8.4
0.0	0.0	13.8	0.0	0.0	0.0	0.0	0.0	0.0	1.2	2.6	27.9
0.0	0.0	0.7	0.0	0.0	0.0	0.5	0.0	0.0	67.9	0.6	1.7
0.0	0.0	18.2	0.0	0.0	0.0	0.2	0.0	0.0	12.8	1.9	0.2
0.0	-77.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.9	0.1
0.0	-77.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	45.6	0.5	0.1
0.0	-77.0	0.0	-77.0	0.2	-77.0	0.0	0.0	-77.0	4.4	-77.0	0.5
Jan_2006	Feb_2006	Mar_2006	Apr_2006	May_2006	Jun_2006	Jul_2006	Aug_2006	Sep_2006	Oct_2006	Nov_2006	Dec_2006
0.4	1.0	0.0	0.0	0.0	0.3	0.0	0.0	2.1	0.0	0.0	0.0
0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.7	1.6	9.8
0.0	16.5	16.1	0.0	0.1	0.0	0.0	0.0	0.0	0.3	34.6	1.5
0.0	0.0	34.2	2.1	0.0	0.0	0.0	0.0	0.0	1.6	22.9	2.1
0.6	0.0	0.0	12.7	0.0	0.0	0.0	0.0	0.0	0.0	100.8	9.7
5.4	0.1	0.0	10.6	0.0	0.0	0.0	0.0	1.1	0.0	19.3	2.0
0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	9.8
0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	8.2
0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5
0.0	1.8	0.1	0.0	0.0	0.0	0.0	0.0	0.0	4.9	0.0	0.0
0.0	0.1	0.0	0.0	0.0	0.0	0.4	0.0	0.0	5.8	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.1	1.2	0.0	0.0	0.0	0.0	0.0
0.8	0.0	0.0	7.7	0.0	0.9	0.5	0.0	12.8	0.0	0.0	0.0
4.6	0.0	0.0	16.8	0.0	3.9	4.9	0.0	0.2	0.0	1.0	0.0
25.9	1.1	0.0	7.9	0.0	0.5	0.0	0.0	0.0	0.0	46.0	0.0
0.1	2.8	0.0	0.1	0.0	3.0	0.0	5.7	0.0	26.9	19.2	0.0
0.0	3.8	35.5	0.0	0.0	0.1	0.0	2.2	0.0	15.4	15.6	0.0
0.0	21.1	16.3	0.0	0.0	0.0	0.6	7.5	0.0	40.1	11.2	0.0

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.0	12.3	14.5	0.0	0.0	0.0	0.0	3.3	0.0	13.5	0.3	0.0
0.0	7.9	9.0	0.5	0.0	0.0	0.0	0.0	0.0	31.8	0.2	0.0
0.0	0.0	5.9	2.9	0.0	0.0	0.0	0.0	31.0	0.8	1.1	0.0
0.0	0.0	5.5	21.2	0.0	0.0	0.0	0.0	0.4	46.3	1.0	0.0
0.0	0.0	33.3	2.0	0.0	0.0	0.0	0.0	17.7	34.6	14.7	0.0
0.0	0.1	13.1	0.0	0.0	0.0	0.0	0.0	9.1	24.3	61.0	0.0
0.0	16.3	0.6	0.0	0.0	0.0	0.0	0.0	3.0	31.4	3.2	0.0
0.0	0.8	0.0	0.0	0.0	0.0	0.2	0.0	0.0	15.6	0.2	0.0
0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.1	8.3	0.0
1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	9.1	0.0
0.0	-77.0	0.2	0.0	0.1	0.0	0.0	0.0	1.0	0.0	1.1	2.6
0.0	-77.0	0.1	0.0	0.0	0.0	0.0	0.0	12.9	0.0	0.0	2.2
0.0	-77.0	0.0	-77.0	0.0	-77.0	0.0	0.0	-77.0	0.0	-77.0	0.1
Jan_2007	Feb_2007	Mar_2007	Apr_2007	May_2007	Jun_2007	Jul_2007	Aug_2007	Sep_2007	Oct_2007	Nov_2007	Dec_2007
0.1	0.0	0.0	0.0	31.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.1	0.0	0.0	8.8	8.4	0.0	0.0	0.0	0.0	4.8	0.0	0.1
0.2	0.6	0.0	6.6	1.9	0.0	0.0	0.0	0.0	3.5	0.0	0.0
0.0	0.4	5.4	0.2	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	1.4	4.7	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
0.1	11.5	8.8	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	24.8	0.0	1.5	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0
0.1	1.3	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
0.0	0.5	0.0	3.5	0.0	0.6	0.0	0.0	0.3	0.0	0.0	0.1
0.1	4.8	0.0	6.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0
0.0	10.3	0.0	3.6	0.5	0.0	0.0	0.0	3.1	0.0	0.0	0.1
0.0	2.3	0.0	0.2	0.5	0.5	0.0	0.0	0.4	0.0	0.0	0.1
0.0	6.1	0.0	0.0	0.0	23.5	0.0	0.0	0.2	0.0	0.0	0.1
0.2	0.2	0.0	0.0	0.0	1.1	0.1	0.6	0.1	0.0	0.0	0.0
1.1	8.7	0.0	0.0	0.0	20.6	0.6	0.0	1.7	0.5	0.0	0.0
0.9	1.8	0.0	0.6	0.0	24.6	0.0	0.0	0.1	0.0	0.0	0.0
0.4	0.0	0.0	0.0	0.0	0.3	0.0	0.0	20.7	0.0	0.0	9.4
0.0	9.7	0.0	0.6	0.0	6.6	0.0	0.0	0.0	0.0	60.5	18.6
0.0	4.9	0.0	3.1	0.6	0.0	0.0	0.0	3.2	0.0	34.6	1.0
0.0	0.9	0.0	0.9	0.0	0.0	0.0	0.0	1.3	0.0	0.6	0.4
1.4	5.1	0.0	0.0	15.1	0.0	0.0	0.0	0.0	0.0	2.6	0.0
0.5	0.1	0.0	0.0	1.1	0.0	2.5	0.0	0.0	0.0	0.1	0.0
0.1	0.1	0.0	0.2	1.3	0.0	0.0	0.0	0.0	0.7	0.0	0.0
1.9	4.7	0.2	5.8	0.1	0.0	0.0	0.3	0.0	1.1	0.0	1.6
0.1	2.1	7.1	1.1	1.3	0.0	0.0	0.8	0.0	0.0	0.0	0.2
0.0	0.0	0.0	0.1	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.4	1.7	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.1	-77.0	0.0	0.2	0.0	0.0	0.0	0.0	11.8	0.0	0.0	0.1
3.9	-77.0	2.6	1.4	0.1	0.0	0.0	0.0	62.4	0.0	0.0	0.1

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.4	-77.0	9.1	-77.0	0.1	-77.0	0.0	0.0	-77.0	0.0	-77.0	0.0
Jan_2008	Feb_2008	Mar_2008	Apr_2008	May_2008	Jun_2008	Jul_2008	Aug_2008	Sep_2008	Oct_2008	Nov_2008	Dec_2008
13.7	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2
7.2	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9
42.3	18.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	17.5
0.3	0.5	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.0	1.0	1.4
3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.8	0.0	0.0	2.8
0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	7.1
0.0	0.0	0.0	15.7	3.8	0.0	0.0	0.0	0.0	8.4	5.1	9.7
2.4	0.0	0.0	21.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
5.6	0.0	0.3	19.6	0.6	0.1	0.0	0.0	0.0	0.0	0.0	0.1
5.9	0.0	11.7	8.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7.2	0.0	0.3	0.3	1.6	0.0	0.7	0.1	0.0	4.0	0.6	2.5
0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.2	0.0	4.5	0.0	4.7
14.4	0.0	0.0	0.5	0.5	0.0	0.0	0.0	0.0	0.2	0.0	8.1
2.7	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	5.4
5.1	0.0	0.0	0.0	12.4	0.0	0.0	0.0	0.0	0.0	0.0	0.2
0.4	0.0	0.0	8.8	0.2	3.7	0.0	0.1	0.0	0.0	0.0	0.0
0.2	21.2	1.7	34.7	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0
0.1	66.5	2.2	12.8	1.9	0.0	0.0	0.0	0.0	0.1	0.0	0.0
0.0	1.0	6.0	25.8	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	2.0	0.3	22.1	1.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0
0.0	0.2	0.0	3.3	0.0	0.0	0.0	0.0	2.2	4.6	0.0	0.0
0.0	0.0	0.8	0.0	14.3	0.0	0.0	0.0	2.4	0.4	0.0	0.0
0.0	6.8	0.0	0.0	26.4	0.0	0.0	0.0	0.2	0.2	0.0	0.0
0.0	19.3	0.0	0.0	6.4	0.0	0.0	0.0	0.1	0.0	0.2	0.0
0.0	0.0	0.0	0.0	4.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.1	0.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.4	2.4	0.0	7.8	0.0	0.0	0.0	0.0	0.6	0.0	29.9
0.0	0.2	0.0	0.0	5.2	0.0	0.0	0.1	0.1	0.2	12.0	8.8
0.0	0.0	0.0	0.2	4.1	0.0	0.0	0.0	0.5	0.0	15.1	11.9
0.0	-77.0	0.9	0.1	0.5	0.0	0.0	0.0	0.0	7.6	1.2	0.4
0.0	-77.0	0.0	-77.0	0.3	-77.0	0.0	0.0	-77.0	13.1	-77.0	7.7
Jan_2009	Feb_2009	Mar_2009	Apr_2009	May_2009	Jun_2009	Jul_2009	Aug_2009	Sep_2009	Oct_2009	Nov_2009	Dec_2009
10.2	44.4	1.0	0.0	0.0	0.0	0.0	1.1	0.1	0.0	0.3	2.4
8.1	1.7	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.2
6.1	10.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
0.0	11.1	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0
0.0	6.9	6.5	0.0	0.0	4.6	0.0	0.0	0.0	1.6	0.2	4.8
0.0	2.9	0.9	0.0	0.0	6.2	0.0	0.0	0.0	6.1	1.6	11.1
0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.5	0.0	12.2
0.0	0.7	0.0	0.0	0.0	3.2	0.0	0.0	0.0	0.4	0.2	0.0
0.1	7.1	0.0	1.1	11.7	0.1	0.0	0.0	0.4	0.0	0.0	0.0
0.3	0.4	0.0	2.7	0.2	0.0	0.0	0.0	0.4	0.0	0.0	0.0

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.0	0.1	0.0	0.1	16.3	0.0	0.0	0.0	0.1	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.8	0.0	0.0	0.9	0.0	0.0	0.0	0.1	2.4	0.0	2.9	0.0
0.1	0.0	0.0	10.0	0.0	0.5	0.0	0.1	0.0	0.0	8.5	0.0
21.1	0.0	0.0	14.3	0.0	2.7	0.0	14.7	0.0	0.0	12.5	0.1
4.8	0.0	0.0	11.8	0.0	3.7	0.0	0.0	0.0	0.0	13.6	15.3
0.0	0.0	0.0	4.7	0.1	0.0	0.0	0.0	0.9	0.0	2.4	0.5
2.2	0.0	0.0	9.8	0.0	0.0	0.0	0.0	2.6	0.0	0.2	3.1
14.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0
4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.1	0.0	13.6
0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.1	13.2	17.9
9.7	0.0	0.0	0.0	0.0	0.0	1.5	0.0	0.0	2.0	0.1	16.3
14.5	0.0	0.0	0.0	5.1	0.0	0.8	0.0	0.0	0.0	0.0	25.7
2.6	0.0	0.0	0.0	19.9	0.0	0.0	0.0	0.0	0.0	0.0	9.5
17.0	0.0	0.0	0.0	0.3	0.5	0.0	0.0	0.0	0.0	6.6	24.3
5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	1.0
2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.6	12.4
10.5	0.7	0.0	0.0	0.0	29.6	0.0	0.0	0.0	0.0	2.0	40.6
10.1	-77.0	0.0	0.0	0.0	4.6	0.0	0.0	0.3	0.0	21.7	63.9
12.2	-77.0	0.0	1.7	0.0	0.0	0.0	0.0	4.3	0.0	0.3	16.0
10.7	-77.0	0.0	-77.0	0.0	-77.0	0.0	0.0	-77.0	0.0	-77.0	23.4
Jan_2010	Feb_2010	Mar_2010	Apr_2010	May_2010	Jun_2010	Jul_2010	Aug_2010	Sep_2010	Oct_2010	Nov_2010	Dec_2010
6.0	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	3.2
1.3	0.0	21.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.5
23.4	3.1	8.1	1.1	0.0	0.0	0.0	0.0	0.0	22.9	0.0	0.4
25.8	10.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.3	0.3
0.2	0.4	32.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	59.6
1.3	0.1	15.7	0.0	0.0	0.0	0.0	0.0	0.1	2.3	0.0	17.8
0.0	5.5	3.7	0.0	4.0	0.0	0.0	0.0	1.7	0.5	0.0	11.6
0.0	3.9	16.3	0.0	14.2	5.9	0.0	0.0	0.0	49.9	5.0	16.1
0.0	0.1	0.8	0.0	23.4	12.5	0.0	0.0	0.0	9.2	7.0	14.5
1.3	13.4	0.0	0.0	0.0	3.4	0.0	0.0	0.0	3.5	0.0	0.0
14.8	1.1	0.0	0.0	0.3	0.7	0.0	0.0	0.0	0.1	0.0	0.0
47.1	0.0	0.0	0.8	0.1	0.0	0.0	0.0	0.0	0.0	0.0	1.2
26.9	0.0	0.0	5.7	0.3	0.0	0.0	0.0	0.0	0.0	0.3	0.0
5.0	0.1	0.0	39.3	0.1	0.0	0.0	0.0	0.0	0.0	19.6	0.0
8.5	18.9	0.0	14.5	0.0	0.0	0.0	0.9	0.1	0.0	0.1	0.0
13.9	11.7	0.0	7.6	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0
0.7	9.7	0.0	17.8	0.0	0.0	0.0	0.0	6.0	0.0	24.5	0.0
3.7	0.1	0.2	41.6	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
0.7	0.1	8.4	0.7	0.0	0.0	0.0	0.0	0.0	0.0	18.7	0.1
2.2	5.9	5.8	0.0	0.0	0.0	0.0	0.0	0.8	0.0	5.8	49.3
0.0	36.9	0.2	3.2	0.0	0.0	0.0	0.0	0.0	0.0	2.2	38.1
0.0	29.1	0.0	15.2	0.0	0.0	0.0	0.0	0.0	0.0	0.2	8.9

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.0	24.5	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.8
0.0	3.7	8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
0.0	18.8	10.8	0.0	6.8	1.7	0.0	0.0	0.0	0.0	0.0	2.6
0.3	7.2	1.1	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0
0.2	35.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	11.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.4
0.0	-77.0	13.9	0.0	0.0	0.0	0.0	0.0	0.0	33.4	11.4	8.2
0.0	-77.0	0.2	0.0	0.0	0.4	0.0	0.0	0.0	15.7	13.8	36.6
0.0	-77.0	0.4	-77.0	0.0	-77.0	0.0	2.1	-77.0	16.4	-77.0	31.6
Jan_2011	Feb_2011	Mar_2011	Apr_2011	May_2011	Jun_2011	Jul_2011	Aug_2011	Sep_2011	Oct_2011	Nov_2011	Dec_2011
1.1	0.0	0.0	0.0	2.0	0.0	0.0	2.6	34.6	0.0	3.8	0.0
0.1	0.0	0.0	0.2	3.1	0.0	0.0	0.0	14.7	0.0	35.2	0.3
0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	20.5	0.0
4.6	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.2	0.0	3.5	0.0
8.7	0.0	4.0	0.0	0.0	23.0	0.0	0.0	0.0	0.0	0.2	0.0
31.9	0.0	0.2	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13.9	0.0	0.0	0.0	4.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0
16.2	0.0	11.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.4	0.1
3.7	0.0	8.6	0.0	0.0	1.2	0.0	0.0	0.0	0.0	47.5	0.3
9.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.2	12.8
0.7	0.0	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3	3.7
0.0	0.0	6.5	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.1	1.0
0.1	14.1	29.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	2.8
0.2	16.6	19.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.7	4.1
0.2	10.1	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.7	0.2
0.2	28.2	0.0	0.0	11.1	0.0	0.0	0.0	0.0	0.0	3.4	8.5
0.8	5.5	0.0	0.0	6.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0
0.1	3.5	0.0	8.6	10.9	0.0	0.0	0.0	0.0	0.0	12.9	0.0
0.0	26.8	0.0	27.9	0.1	0.0	0.0	0.0	0.0	0.0	5.9	0.0
0.0	1.1	0.0	29.4	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0
0.0	0.0	0.0	36.3	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0
0.0	0.0	0.1	2.0	0.0	0.0	0.0	0.0	0.0	0.2	13.0	0.0
0.0	0.0	0.0	4.3	8.0	0.0	0.0	0.0	0.0	39.8	0.0	0.0
0.0	0.0	2.3	0.2	0.0	0.0	0.0	0.0	0.0	30.7	0.0	0.0
0.0	0.0	9.7	0.2	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0
0.0	0.0	9.2	0.0	0.4	0.0	0.0	0.4	0.0	50.1	0.0	0.0
5.2	0.0	0.9	0.0	0.3	0.0	0.0	0.0	0.0	10.0	0.0	0.0
8.3	0.0	4.9	0.4	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.2	-77.0	0.2	12.9	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	-77.0	0.0	17.3	1.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0
0.0	-77.0	0.0	-77.0	0.0	-77.0	0.0	1.7	-77.0	0.3	-77.0	0.0
Jan_2012	Feb_2012	Mar_2012	Apr_2012	May_2012	Jun_2012	Jul_2012	Aug_2012	Sep_2012	Oct_2012	Nov_2012	Dec_2012
0.5	0.0	0.0	0.6	3.7	0.1	0.0	0.0	0.0	0.0	1.2	0.0
0.9	0.0	0.0	3.7	36.1	0.7	0.0	0.0	0.0	0.0	7.1	0.0

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

## ANEXO 8 – Necessidades Hídricas das Culturas

### ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.0	0.0	0.5	0.0	17.8	0.0	0.0	0.0	0.0	0.0	13.3	0.0
0.0	0.0	0.4	0.0	3.5	0.0	0.0	0.0	0.0	0.0	20.4	0.6
0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	1.7	12.7	0.0	0.0	0.0	0.0	0.0	0.0	15.0
0.0	0.0	0.0	0.7	28.9	0.3	0.0	0.0	0.1	0.0	32.3	11.4
0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	21.3	0.2
0.0	0.0	0.0	0.2	0.0	0.1	0.0	0.0	0.0	0.0	9.3	0.1
0.0	0.0	0.0	2.6	0.0	1.1	0.0	0.0	0.0	0.0	1.6	0.0
0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.0	1.6	0.8	0.0
0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7
0.0	0.0	0.0	1.6	0.0	0.0	0.0	0.0	0.0	0.4	0.0	3.8
0.3	0.0	0.0	16.3	0.0	0.0	0.0	0.2	0.0	0.9	0.0	49.6
1.5	0.0	0.0	0.0	0.0	0.0	0.0	12.9	0.0	0.0	11.3	1.9
0.1	0.0	0.5	0.3	0.0	0.0	0.0	0.0	0.0	0.0	16.9	2.1
0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	27.8	43.0	5.3
0.0	0.0	0.3	3.9	0.0	0.0	0.0	0.0	0.0	15.3	0.0	1.7
0.0	0.0	0.0	3.3	0.7	0.0	0.0	0.0	0.0	0.2	0.0	2.0
0.0	0.0	0.0	3.4	5.3	0.2	0.0	0.0	0.0	0.5	7.3	2.6
0.0	0.0	0.0	1.3	0.0	0.3	0.0	0.0	0.0	0.8	0.9	1.3
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	0.0	0.2
0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	9.0	0.1	0.0	0.0
0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	6.2	39.9	1.1
0.0	0.0	0.0	17.3	0.0	0.0	0.0	0.2	12.6	13.6	8.1	1.0
0.9	0.0	0.1	6.8	0.0	0.0	0.1	0.0	0.2	16.6	0.1	0.1
0.0	0.0	0.0	7.3	0.0	0.0	0.0	0.0	5.8	0.0	0.0	0.0
0.0	0.0	0.0	1.6	0.0	0.0	0.0	0.0	11.0	2.8	0.0	0.0
0.0	0.0	0.0	6.3	0.0	0.0	0.0	0.0	0.0	6.5	0.5	4.2
0.0	-77.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	12.9	0.5	0.1
0.0	-77.0	0.1	-77.0	0.0	-77.0	0.0	0.0	-77.0	0.0	-77.0	25.4
Jan_2013	Feb_2013	Mar_2013	Apr_2013	May_2013	Jun_2013	Jul_2013	Aug_2013	Sep_2013	Oct_2013	Nov_2013	Dec_2013
0.3	2.7	0.0	4.3	0.0	0.0	0.0	0.0	0.0	10.3	0.0	0.0
0.0	0.1	0.0	0.9	0.0	0.0	0.0	0.1	0.0	15.0	0.3	0.0
0.0	0.0	1.3	13.6	0.1	0.0	0.0	0.0	1.6	7.1	0.0	0.0
0.0	0.0	8.4	10.1	0.0	0.0	0.0	0.0	3.2	0.0	1.5	0.0
0.0	0.0	10.7	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.4	0.0
0.0	0.0	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	17.2	0.6	0.0	1.6	0.0	0.0	0.3	0.0	0.0	0.0
0.1	0.0	21.6	0.0	0.0	0.3	0.0	0.0	0.0	0.0	1.7	0.0
6.9	0.0	16.7	1.2	0.6	0.0	0.0	0.0	0.0	0.0	0.1	0.0
8.4	3.7	13.9	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.1	2.4	4.1	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
3.2	0.7	1.0	0.7	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1
0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1
0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

## ANEXO 8 – Necessidades Hídricas das Culturas

### ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.0	0.0	0.2	0.0	2.4	0.0	0.0	0.0	0.0	0.0	0.4	0.0
15.1	0.0	4.1	0.0	1.6	0.0	0.0	0.0	0.0	0.0	0.2	0.0
4.1	16.1	10.0	0.0	6.1	0.3	0.0	0.0	0.0	0.0	0.1	3.1
25.2	0.1	0.0	0.0	0.8	3.3	0.0	0.0	0.0	22.3	0.0	1.9
34.0	10.3	6.9	0.0	2.1	0.2	0.0	0.0	0.0	1.0	0.0	7.6
13.9	0.4	0.1	0.0	2.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
0.8	11.9	1.4	0.0	0.0	0.0	0.0	0.0	0.0	2.9	0.0	0.0
30.3	19.5	11.6	0.0	0.0	0.0	0.0	0.0	0.0	20.6	3.0	0.1
6.7	0.3	5.9	0.0	0.0	0.0	0.0	0.0	0.0	12.8	0.0	5.4
0.5	0.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0	52.9	0.0	39.1
12.4	0.0	11.1	0.0	0.0	0.0	0.0	0.0	0.0	9.7	0.0	13.4
0.0	0.0	15.5	4.6	0.1	0.0	0.0	0.0	0.2	1.4	0.0	1.4
11.6	4.1	4.2	0.0	0.0	0.0	0.0	0.0	40.3	0.1	0.0	6.3
0.0	7.3	2.1	0.8	0.0	0.0	1.1	0.0	17.2	3.2	0.0	1.0
0.0	-77.0	18.0	0.4	2.1	0.0	0.0	0.0	5.1	0.1	0.0	0.0
0.0	-77.0	0.1	0.0	0.0	0.0	0.0	0.0	77.5	0.0	0.0	1.5
0.0	-77.0	41.5	-77.0	0.0	-77.0	0.0	0.0	-77.0	0.0	-77.0	10.9
Jan_2014	Feb_2014	Mar_2014	Apr_2014	May_2014	Jun_2014	Jul_2014	Aug_2014	Sep_2014	Oct_2014	Nov_2014	Dec_2014
11.5	3.7	9.3	33.6	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.0
12.6	0.0	7.4	10.3	0.0	0.0	4.8	0.0	0.0	0.0	2.3	0.0
10.9	14.1	3.2	0.5	0.0	0.0	4.1	0.1	0.0	0.0	20.7	0.1
16.3	24.3	0.9	9.8	0.0	0.0	0.0	0.0	0.0	0.0	1.9	0.0
0.6	0.7	0.5	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
8.2	12.9	0.0	0.1	0.0	15.6	0.3	0.0	9.3	0.3	0.2	0.0
23.5	2.8	0.0	0.1	0.0	0.0	0.0	0.0	11.4	1.9	5.4	0.0
0.0	8.1	0.0	0.0	0.0	0.0	0.0	0.0	0.3	22.5	7.2	0.1
0.0	13.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.0	0.4	0.0
0.0	2.9	0.0	0.0	0.0	0.0	0.0	0.0	2.8	2.7	22.1	0.0
0.0	11.6	0.0	0.0	0.0	0.0	0.0	0.0	7.0	3.4	7.3	0.1
7.6	4.8	0.0	0.0	0.0	0.0	0.0	0.1	0.1	18.2	0.4	4.8
1.6	11.1	0.1	0.0	0.0	0.0	0.0	0.0	2.0	15.1	32.3	14.9
3.1	10.6	0.0	0.3	0.0	0.0	0.0	0.0	4.3	0.8	9.5	3.9
5.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	9.1	6.7	3.8	0.0
1.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	19.4	0.8	0.1	0.3
16.3	0.7	0.0	0.6	0.0	0.0	0.0	0.0	13.9	0.1	0.0	0.0
3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.7	0.1	5.6	0.0
3.3	0.1	0.0	0.0	0.5	0.0	4.9	0.0	5.1	0.0	39.5	0.2
0.2	2.1	0.3	2.7	15.4	0.0	0.1	0.0	5.7	0.0	2.6	0.3
7.5	0.0	0.9	0.3	16.4	1.4	0.0	0.0	19.5	0.0	0.0	0.2
0.8	0.6	2.0	0.1	5.6	0.3	0.0	0.0	7.1	0.0	0.7	0.0
0.0	3.3	0.0	3.4	0.4	3.6	0.0	0.0	5.7	0.0	1.6	0.0
0.0	2.0	2.9	2.6	0.0	0.5	0.0	0.0	0.6	0.0	0.0	0.0
0.0	1.2	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.1	0.0	0.0	1.9	0.0	0.0	0.0	0.0	0.0	0.0	9.7	0.0



Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.4	0.9	4.0	0.1	0.3	0.0	0.0	0.0	3.8	0.0	10.5	0.0
2.5	0.3	14.1	0.0	0.1	0.3	0.0	0.0	2.2	0.0	16.6	0.9
3.5	-77.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	4.2	0.0
0.1	-77.0	7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0
2.6	-77.0	17.5	-77.0	0.0	-77.0	0.0	0.0	-77.0	0.0	-77.0	0.0
Jan_2015	Feb_2015	Mar_2015	Apr_2015	May_2015	Jun_2015	Jul_2015	Aug_2015	Sep_2015	Oct_2015	Nov_2015	Dec_2015
0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0
0.0	9.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35.0	0.0
0.0	1.1	0.1	0.0	7.0	0.0	0.0	0.0	0.0	0.1	3.8	0.0
0.0	0.0	0.0	0.0	8.7	0.0	0.0	0.0	0.0	8.2	8.4	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	49.1	4.4	0.0
0.0	1.2	0.0	1.8	0.0	0.0	0.0	0.0	0.0	3.4	0.8	0.0
0.4	0.0	0.0	0.0	0.0	5.0	0.0	0.0	0.0	0.0	0.0	0.5
0.1	0.0	0.0	1.0	1.5	0.2	0.0	0.0	0.0	0.0	0.0	0.1
0.0	0.0	0.0	7.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	7.9	0.0	0.0	0.0	0.0	0.0	22.0	0.0	0.0
0.0	1.2	0.0	0.1	0.0	4.1	0.0	0.0	0.0	16.8	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	69.8	0.0	0.0
0.1	3.3	0.0	0.0	0.0	0.9	0.0	0.0	2.6	1.8	0.0	8.9
0.2	7.5	0.0	0.3	0.0	8.0	0.0	0.0	0.1	0.0	0.0	38.7
17.9	0.7	0.0	4.7	0.0	3.6	0.0	0.0	11.5	0.0	0.0	0.0
9.7	0.0	0.0	1.2	0.0	0.0	0.0	0.0	15.6	0.0	0.0	0.0
12.9	0.0	5.6	0.0	0.0	0.0	0.3	0.0	0.6	39.7	0.0	0.0
11.5	0.0	4.0	1.2	0.0	0.0	0.1	0.0	0.0	18.7	0.0	0.0
0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	3.8	0.0	0.0
2.8	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	3.2
0.3	2.2	0.1	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.1
0.1	0.9	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
0.0	0.4	2.5	0.0	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.1
0.0	0.0	0.8	9.9	0.0	0.0	0.0	0.0	0.0	5.4	0.0	0.5
0.0	0.0	0.0	19.5	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0
0.0	0.0	0.0	21.8	0.0	0.0	0.0	0.0	0.0	19.5	0.0	0.0
0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	5.3	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	1.6	0.0	28.3
1.9	-77.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	2.0	0.0	0.2
6.7	-77.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	11.3
15.1	-77.0	0.0	-77.0	0.0	-77.0	0.0	1.8	-77.0	4.8	-77.0	0.0
Jan_2016	Feb_2016	Mar_2016	Apr_2016	May_2016	Jun_2016	Jul_2016	Aug_2016	Sep_2016	Oct_2016	Nov_2016	Dec_2016
22.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1
0.2	0.0	0.0	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7.9	0.0	0.0	14.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	45.0
15.5	0.0	0.5	14.8	0.0	0.0	0.7	0.0	0.0	0.0	15.4	0.5
10.0	0.0	0.6	0.0	7.6	0.0	0.0	0.0	0.0	0.0	24.2	0.0
9.5	7.4	0.0	0.0	9.3	0.0	0.7	0.0	0.0	0.0	0.0	0.0

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

## ANEXO 8 – Necessidades Hídricas das Culturas

### ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

12.4	0.7	2.4	0.0	44.4	0.0	0.5	0.0	0.0	0.0	0.0	0.0
21.7	1.0	0.0	0.0	20.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.3	7.0	0.9	0.2	6.5	0.0	0.0	0.0	0.0	0.0	3.2	0.0
20.7	21.0	0.0	3.7	28.9	0.0	0.0	0.0	0.0	0.1	0.0	0.0
11.0	4.0	0.0	3.8	14.8	0.0	0.0	0.0	0.0	10.6	0.0	0.0
0.4	29.2	0.0	13.7	3.9	0.0	0.0	0.0	0.0	23.7	2.4	0.0
0.0	19.4	0.0	3.3	0.5	0.0	0.0	0.0	12.8	1.4	0.1	0.1
0.9	18.1	0.0	13.3	0.0	0.0	0.0	0.0	1.6	0.0	0.0	19.7
0.0	3.2	5.3	9.9	0.0	1.3	0.0	0.0	0.3	0.0	0.0	9.6
0.0	0.0	0.1	19.0	0.0	0.4	0.0	0.0	0.0	0.7	0.0	1.7
0.0	5.9	0.0	0.7	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0
0.3	0.0	9.6	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0
7.0	0.0	7.2	33.2	0.0	0.0	0.0	0.0	0.0	0.1	8.1	0.0
5.9	0.0	9.5	16.7	0.0	0.0	0.0	0.0	0.0	0.0	37.8	0.0
5.5	0.0	1.1	5.0	0.0	0.0	0.0	0.0	0.0	0.6	11.6	0.0
1.2	0.0	1.2	0.2	0.2	0.0	0.0	0.0	0.0	35.4	3.4	0.0
0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	7.3	1.1	0.2
0.0	6.1	0.0	0.0	0.3	0.0	0.0	0.0	0.0	11.7	16.2	0.0
18.0	0.0	0.0	0.0	0.1	0.0	0.0	0.8	0.0	4.2	44.2	0.0
0.3	29.2	9.4	0.0	0.0	0.0	0.0	1.1	0.2	0.0	16.8	0.0
0.2	3.5	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.5	0.0
4.8	0.0	1.1	0.0	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.2	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	-77.0	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	-77.0	0.5	-77.0	0.0	-77.0	0.0	0.0	-77.0	0.0	-77.0	0.0
Jan_2017	Feb_2017	Mar_2017	Apr_2017	May_2017	Jun_2017	Jul_2017	Aug_2017	Sep_2017	Oct_2017	Nov_2017	Dec_2017
0.0	8.1	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9.5	16.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.0	0.0
20.6	9.6	14.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31.7	0.0
8.6	13.1	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.5	0.0
0.1	2.3	2.7	0.0	17.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.4	0.0	0.0	0.0	13.6	0.0	0.0	0.0	0.0	0.0
0.0	1.4	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	3.0	0.0	0.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.1
0.0	13.0	0.0	0.0	15.8	0.0	0.0	0.0	0.0	0.0	0.0	26.8
0.0	2.6	0.0	0.0	24.2	0.0	0.0	0.0	0.0	0.0	0.0	15.1
0.0	38.6	0.0	0.0	13.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	4.6	0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.1
0.0	6.0	0.2	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	2.5
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.1	0.5	0.0	0.0	0.0	4.0	0.0	0.0
0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.3	0.0	0.0

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.0	0.0	0.0	0.0	0.0	2.2	0.0	0.0	0.0	0.4	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.1	0.0	0.1
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.1
0.0	0.0	9.5	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.9	0.0
0.0	0.0	3.0	0.0	1.7	0.1	0.0	0.0	0.0	0.0	6.3	0.3
0.0	0.0	26.1	0.0	0.5	0.4	0.0	0.0	0.0	0.0	0.1	8.1
27.3	0.0	36.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.2
7.9	1.2	7.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	10.3
1.7	0.6	0.3	0.0	1.0	3.3	0.0	1.0	0.0	0.0	14.4	2.9
7.9	-77.0	0.0	3.5	0.6	0.0	0.0	6.4	0.0	0.0	0.1	2.1
0.5	-77.0	0.0	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.5	-77.0	1.3	-77.0	0.0	-77.0	0.1	0.0	-77.0	0.0	-77.0	3.6
Jan_2018	Feb_2018	Mar_2018	Apr_2018	May_2018	Jun_2018	Jul_2018	Aug_2018	Sep_2018	Oct_2018	Nov_2018	Dec_2018
0.1	0.0	30.5	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.0
1.4	0.0	34.6	4.3	0.0	0.0	0.4	0.0	0.0	0.0	0.5	0.0
0.2	0.1	21.6	8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.6	0.1	12.3	4.5	0.0	0.9	0.0	0.0	0.0	0.0	29.6	0.0
16.8	0.4	17.4	0.0	0.0	0.4	0.0	0.0	4.3	0.0	3.9	0.0
0.0	0.0	3.6	11.2	0.2	0.2	0.0	0.0	0.1	0.0	1.6	0.0
0.5	0.0	5.7	4.9	1.6	4.8	0.0	0.0	3.3	0.0	6.2	0.0
0.0	0.0	5.9	11.6	0.0	10.3	0.0	0.0	0.0	0.0	8.4	0.0
15.3	2.7	76.0	3.1	0.0	2.7	0.0	0.0	0.0	0.0	0.7	0.0
6.8	0.0	14.5	20.9	0.0	1.7	0.0	0.0	0.0	0.0	11.5	0.0
0.5	0.1	25.9	0.0	0.0	0.0	0.1	0.0	0.0	2.3	10.8	0.0
0.0	0.2	3.0	23.9	0.0	0.0	0.0	0.0	0.0	0.0	0.1	3.7
12.9	0.4	2.6	1.5	0.0	0.0	0.0	0.0	0.0	3.4	0.0	4.7
1.2	0.7	28.7	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0
0.0	0.6	10.7	7.6	0.0	0.0	0.0	0.0	0.1	13.3	1.1	2.2
0.0	0.0	5.6	0.0	0.0	0.0	0.0	0.0	0.0	5.1	0.7	10.1
0.1	0.0	29.8	0.0	1.1	0.0	0.0	0.0	1.3	0.9	0.1	0.1
0.0	0.0	0.3	0.0	1.0	0.0	0.0	0.0	0.0	1.9	18.8	11.6
0.0	0.0	11.5	0.0	0.4	0.0	0.0	0.0	0.0	1.4	0.2	1.1
0.0	0.0	0.3	0.0	7.7	0.0	0.0	0.2	0.0	10.5	4.6	0.7
0.0	0.0	0.0	13.6	0.0	16.4	0.0	2.1	0.0	11.4	6.5	0.2
0.0	0.0	0.0	0.5	0.0	5.0	0.0	0.0	0.0	0.0	1.9	0.2
0.0	0.0	10.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0
0.1	0.0	3.1	0.0	39.4	0.0	0.0	0.0	0.0	0.0	12.1	0.1
12.6	0.0	2.4	0.0	2.3	0.0	0.0	0.0	0.0	0.0	20.3	0.0
0.0	2.3	0.0	0.0	0.4	0.0	0.0	0.0	0.1	0.3	0.0	0.0
0.0	31.1	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.4
0.0	60.0	0.0	3.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	-77.0	3.4	7.8	0.3	0.3	0.0	0.0	0.0	3.0	23.9	0.0
0.0	-77.0	6.2	2.1	0.0	2.9	0.0	0.0	0.0	16.9	0.2	0.0

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.0	-77.0	1.7	-77.0	0.0	-77.0	0.0	0.0	-77.0	4.1	-77.0	0.0
Jan_2019	Feb_2019	Mar_2019	Apr_2019	May_2019	Jun_2019	Jul_2019	Aug_2019	Sep_2019	Oct_2019	Nov_2019	Dec_2019
0.0	24.1	0.0	3.7	0.0	0.0	0.0	0.0	0.0	0.0	18.7	15.1
0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.6	0.0
0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	0.0
0.5	0.0	1.9	4.9	0.0	0.5	0.0	0.0	0.0	0.0	8.5	1.7
0.0	0.0	6.3	13.9	0.0	0.0	0.0	0.0	0.0	0.0	2.2	0.0
0.0	0.0	31.8	20.4	0.0	6.7	0.0	0.0	0.0	0.0	6.0	0.0
0.0	0.0	9.7	8.3	3.1	0.0	0.0	0.6	0.0	0.0	0.4	0.0
0.0	0.0	0.0	2.6	5.0	0.0	0.0	0.3	0.0	0.0	0.1	0.5
0.0	0.0	0.0	9.2	7.5	0.0	0.0	2.8	0.0	0.0	5.0	0.3
0.0	5.8	0.0	0.1	3.2	0.0	0.0	1.1	0.0	0.0	0.3	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	1.6
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	9.6
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	2.3	2.4
0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1	22.4	10.1	0.8
0.0	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.4
0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	42.1
0.2	0.0	0.0	21.7	0.0	0.0	0.0	0.0	0.1	21.4	11.6	0.2
1.6	9.2	0.0	2.2	0.0	2.9	0.0	0.0	0.0	0.1	0.0	19.4
10.6	0.0	0.0	6.5	0.0	0.2	0.0	0.0	0.0	15.6	1.5	47.4
0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	22.3	62.6
0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	16.0	0.2	6.8	15.7
0.6	0.0	0.0	5.2	0.0	0.0	0.0	0.0	0.2	0.0	40.0	0.1
0.0	0.0	0.0	12.4	0.0	0.0	0.7	0.0	0.0	0.2	2.4	0.2
0.0	0.0	0.0	34.6	0.0	2.1	0.0	0.0	0.2	0.0	5.5	0.1
0.0	0.0	0.0	5.6	0.0	0.0	0.0	1.0	0.0	0.0	4.8	0.0
0.0	0.0	0.0	0.0	0.0	0.7	0.4	34.6	0.0	0.0	26.2	0.0
0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.0	0.0	0.0	0.6	0.0
0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	2.0	0.0
1.8	-77.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	2.6	0.0
12.1	-77.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.0	4.0	0.0
28.5	-77.0	0.4	-77.0	0.0	-77.0	0.0	0.0	-77.0	3.7	-77.0	0.0
Jan_2020	Feb_2020	Mar_2020	Apr_2020	May_2020	Jun_2020	Jul_2020	Aug_2020	Sep_2020	Oct_2020	Nov_2020	Dec_2020
0.0	1.9	16.1	13.1	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0
0.0	0.0	10.7	0.2	0.0	0.0	0.0	0.0	0.0	7.2	0.0	0.0
0.0	0.1	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	1.7
0.0	0.1	1.1	0.9	0.1	0.0	0.0	0.0	0.0	0.6	0.8	10.5
0.0	0.0	3.5	53.3	0.0	0.0	0.0	0.0	0.0	0.0	18.9	0.1
0.0	0.0	0.2	15.5	0.0	0.0	0.0	0.1	0.0	0.0	23.9	1.9
0.0	0.0	0.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	11.3	3.7
0.0	0.6	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	16.4	0.8
0.0	0.1	0.0	13.9	6.8	0.0	0.0	0.0	0.0	0.0	0.7	0.9
0.0	0.0	0.0	0.0	4.8	0.0	0.0	0.0	0.0	0.0	0.0	12.6

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

### ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.0	0.0	0.0	0.1	19.5	0.0	0.5	0.0	0.0	0.0	0.1	7.3
0.0	0.3	0.0	0.2	1.0	1.4	0.0	0.0	0.0	0.0	0.0	0.4
0.0	0.4	0.0	2.1	23.1	0.1	0.0	0.0	0.0	0.0	0.1	2.3
6.7	0.0	0.0	3.8	6.4	0.0	0.0	0.0	0.0	0.0	0.6	11.6
14.8	0.0	0.0	11.4	9.5	0.0	0.0	0.0	0.0	0.0	0.2	0.4
8.9	0.0	0.6	29.1	0.0	0.3	0.0	0.0	1.6	0.0	0.1	2.2
0.8	2.5	0.0	6.5	0.0	0.0	0.0	0.1	5.2	0.0	0.2	0.0
25.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.4	0.0	0.0	0.4
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.1	24.4	0.0	5.0
0.0	0.0	38.5	15.3	0.0	0.0	0.0	0.2	3.8	51.9	0.0	0.0
0.0	0.0	9.8	0.2	0.0	0.0	0.5	0.1	0.0	2.9	0.0	1.2
3.4	0.0	0.1	0.0	0.0	0.0	0.0	0.0	4.2	4.5	0.0	0.1
24.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0	2.1	0.4	0.0	1.1
1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0
0.7	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	11.8	31.1	0.0
0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.2	4.6	0.0
6.7	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.3
1.8	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	5.5	6.3	3.8
2.2	1.8	0.0	4.4	0.0	0.0	0.0	0.0	0.0	0.0	1.2	3.0
4.6	-77.0	3.4	0.8	0.1	0.0	0.0	0.0	0.0	0.0	0.1	3.1
12.2	-77.0	4.8	-77.0	10.6	-77.0	0.0	0.0	-77.0	0.0	-77.0	4.2

#### 2.1.11 FRATEL

Tabela 11. Precipitações diárias na região de cálculo de Fratel (mm)

Jan_2003	Fev_2003	Mar_2003	Abr_2003	Mai_2003	Jun_2003	Jul_2003	Ago_2003	Set_2003	Out_2003	Nov_2003	Dez_2003
8.6	0.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	20.4	0.0	1.3
5.1	0.0	0.2	0.0	0.0	0.1	0.0	0.0	0.0	34.3	0.0	0.0
1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.7	0.0	4.3
0.7	0.0	0.1	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.2
7.5	0.0	0.6	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	23.3
0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.9
13.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	9.1
7.6	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.1	0.0	1.0	22.1
4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	39.0	18.2
0.0	0.0	0.0	5.7	0.0	0.0	0.0	4.4	0.0	0.0	6.6	0.0
0.0	1.6	0.0	0.4	0.0	0.0	0.0	0.0	0.0	11.0	0.2	0.0
0.1	0.1	0.0	10.4	0.0	0.0	0.0	1.1	0.0	0.0	0.6	0.0
0.0	0.0	0.2	12.6	0.0	0.0	0.0	0.7	0.0	0.0	0.1	0.0
0.0	0.0	0.0	11.8	0.2	0.0	1.1	0.0	0.0	0.4	0.2	0.1
0.1	0.0	0.0	0.6	0.0	0.0	3.6	0.0	0.0	2.1	35.2	0.0
0.0	0.1	0.0	0.3	0.0	0.0	0.0	0.3	0.0	0.2	0.0	0.0
0.0	8.4	2.6	0.0	0.0	0.0	0.0	0.2	0.0	0.4	0.0	8.0

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

25.0	24.4	1.0	1.4	0.0	0.0	0.0	0.0	0.0	19.5	0.0	10.0
1.6	10.5	0.0	0.7	0.0	0.0	0.0	0.0	0.0	5.2	0.0	0.1
20.7	7.3	0.0	1.1	0.0	0.0	0.0	0.0	0.0	4.7	0.0	0.1
1.9	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	8.4	0.0
8.4	18.6	0.3	0.5	0.0	0.0	0.0	0.0	0.0	0.0	20.6	0.0
0.0	0.7	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0
0.0	21.1	2.4	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.3	0.0
0.0	5.9	17.8	18.5	0.0	0.0	0.0	0.0	0.0	32.2	0.2	0.0
0.0	13.3	8.1	1.7	0.0	0.0	0.0	0.0	0.0	10.7	6.1	0.0
0.0	0.8	7.5	0.0	0.0	0.0	0.0	2.7	0.4	32.7	1.1	1.4
0.0	0.0	1.8	3.6	0.0	0.0	0.0	6.1	0.0	4.6	0.0	4.6
0.0	-77.0	15.3	1.2	0.0	2.6	0.0	0.0	2.8	2.5	1.1	0.3
0.0	-77.0	1.2	0.4	0.0	0.7	0.0	0.0	42.4	5.2	5.3	0.2
0.0	-77.0	0.0	-77.0	0.0	-77.0	0.0	6.8	-77.0	34.7	-77.0	0.1
Jan_2004	Feb_2004	Mar_2004	Apr_2004	May_2004	Jun_2004	Jul_2004	Aug_2004	Sep_2004	Oct_2004	Nov_2004	Dec_2004
0.1	6.9	0.0	12.2	4.6	0.0	0.0	0.0	1.1	0.0	0.8	22.8
0.0	1.6	0.0	3.2	0.4	0.0	0.0	0.0	2.3	0.0	10.7	0.1
0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	8.8	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.0	0.1	0.0
0.0	0.0	3.8	0.0	2.7	0.0	0.0	0.0	0.0	0.0	0.1	0.0
0.0	0.0	0.9	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.9	0.0	0.0	0.0	0.0	0.0	0.0	3.9	0.0	6.4	0.0	0.0
0.2	0.0	0.0	0.0	4.1	0.1	0.0	0.1	0.0	2.0	0.0	0.0
0.0	0.0	0.3	0.0	2.3	0.0	0.0	0.0	0.0	0.2	0.0	0.1
0.0	0.0	4.4	0.0	0.4	0.0	0.0	0.2	0.0	2.9	0.0	0.0
0.0	0.0	18.2	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
0.1	0.0	3.6	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	5.7
0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
0.1	0.0	0.0	0.0	0.0	0.0	0.0	1.9	0.0	0.1	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	2.4	0.0	0.0	0.0	1.8	0.0	30.7	0.0	0.0
0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	30.4	0.0	0.1
0.0	0.4	0.0	1.1	0.2	0.0	0.0	0.0	0.0	14.7	0.0	0.0
0.0	0.7	0.0	11.9	2.4	0.0	0.0	0.0	0.0	4.5	0.0	0.0
0.0	15.8	0.0	2.9	3.5	0.0	0.0	0.0	0.0	0.1	0.0	0.0
0.0	21.9	0.0	0.0	5.5	0.3	0.0	0.0	0.0	0.0	0.0	0.0
0.0	10.7	0.4	0.0	29.5	0.0	0.0	0.0	0.0	12.7	0.0	0.0
0.8	16.8	0.0	0.0	12.3	0.0	0.0	0.0	0.0	4.7	0.0	0.5
12.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1	0.0	0.2
10.6	0.5	0.4	0.0	0.0	0.0	0.0	0.0	0.0	40.4	0.1	0.0
0.0	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	21.6	1.7	0.0
2.4	0.1	0.4	0.0	0.0	0.0	0.0	0.0	0.0	5.1	0.7	0.0

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

15.0	-77.0	1.1	1.6	0.0	0.0	0.0	0.0	0.0	2.5	0.7	0.0
30.2	-77.0	8.7	-77.0	0.0	-77.0	0.0	0.0	-77.0	0.5	-77.0	0.0
Jan_2005	Feb_2005	Mar_2005	Apr_2005	May_2005	Jun_2005	Jul_2005	Aug_2005	Sep_2005	Oct_2005	Nov_2005	Dec_2005
0.0	0.0	0.0	4.2	0.5	0.0	0.0	0.0	0.0	0.0	0.1	19.4
0.0	0.0	0.2	11.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	32.5
0.0	0.0	0.0	9.0	0.0	0.0	0.0	0.0	0.0	0.0	39.6	0.5
0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.4
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
0.0	3.2	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.1
0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	3.7	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	0.6	0.2	0.8	0.0
0.0	0.0	0.0	0.0	1.6	0.0	0.0	0.1	0.0	20.8	0.0	0.0
0.0	0.0	0.0	0.0	2.9	0.0	0.0	0.0	0.0	12.3	0.0	0.0
0.0	0.0	0.0	0.0	8.1	0.0	0.0	0.0	0.0	5.9	0.0	0.0
1.6	0.0	0.1	0.0	3.9	0.2	0.0	0.0	0.0	0.1	1.4	0.0
0.0	0.0	0.2	0.0	0.0	0.1	0.0	0.0	0.0	0.2	1.9	0.0
0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0
0.0	0.0	0.0	0.0	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	4.5	0.0	0.0
0.0	0.0	0.0	2.3	0.0	0.0	0.0	0.0	0.0	0.1	6.3	0.0
0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	2.2	31.1	0.0
0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	14.3	17.5	0.0
0.0	0.0	9.9	0.0	0.0	0.0	0.0	0.0	0.0	16.7	3.0	0.0
0.0	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.1	0.3	0.0
0.0	8.3	2.4	4.7	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0
0.0	0.3	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	17.2	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.7	6.5
0.0	0.0	12.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	30.7
0.0	0.1	0.5	0.0	0.0	0.0	2.7	0.0	0.0	52.5	0.5	1.6
0.0	0.0	15.3	0.0	0.0	0.0	1.7	0.0	0.0	17.9	1.3	0.1
0.0	-77.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	8.4	0.5	0.0
0.0	-77.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	41.2	0.0	0.1
0.0	-77.0	0.0	-77.0	0.3	-77.0	0.0	0.0	-77.0	7.8	-77.0	0.3
Jan_2006	Feb_2006	Mar_2006	Apr_2006	May_2006	Jun_2006	Jul_2006	Aug_2006	Sep_2006	Oct_2006	Nov_2006	Dec_2006
0.3	0.8	0.0	0.0	0.0	0.6	0.0	0.0	1.2	0.0	0.0	0.0
0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	3.0	9.0
0.0	14.4	14.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.9	0.9
0.0	0.0	30.6	1.2	0.0	0.0	0.0	0.0	0.0	1.1	21.5	0.9
0.4	0.0	0.0	11.6	0.0	0.0	0.0	0.0	0.0	0.0	108.9	6.2
3.6	0.0	0.0	10.9	0.0	0.0	0.3	0.0	0.9	0.0	20.9	0.7
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	10.1
0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	7.6
0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.0	1.6	0.0	0.0	0.1	0.0	0.0	0.0	0.0	4.8	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.4	0.2	0.0	0.0	7.4	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.8	2.3	0.0	0.0	0.0	0.0	0.0
0.4	0.0	0.0	5.3	0.0	0.4	0.7	0.0	11.1	0.0	0.0	0.0
4.3	0.0	0.0	14.9	0.0	7.1	4.7	0.0	1.7	0.0	7.0	0.0
24.1	0.7	0.0	5.4	0.0	0.0	0.0	0.0	0.0	0.0	41.7	0.0
0.1	2.1	0.0	0.0	0.0	12.2	0.0	4.5	0.0	20.0	21.4	0.0
0.0	2.8	32.6	0.0	0.0	0.4	0.0	1.8	0.0	12.7	13.5	0.0
0.0	19.2	16.3	0.0	0.0	0.1	0.6	9.6	0.0	31.2	9.4	0.0
0.0	10.6	10.7	0.0	0.0	0.0	0.3	1.9	0.0	10.3	0.1	0.0
0.0	5.1	8.0	0.8	0.0	0.0	0.2	0.0	0.0	33.3	0.1	0.0
0.0	0.0	3.6	2.6	0.0	0.0	0.0	0.0	28.1	0.5	0.5	0.0
0.0	0.0	9.2	14.2	0.0	0.0	0.0	0.0	0.4	47.7	0.6	0.0
0.0	0.0	32.0	2.5	0.0	0.0	0.0	0.0	17.1	40.2	12.6	0.0
0.0	0.0	13.8	0.0	0.0	0.0	0.0	0.0	6.4	22.2	25.2	0.0
0.0	15.9	0.7	0.0	0.0	0.0	0.0	0.0	2.3	33.8	2.1	0.0
0.0	2.7	0.0	0.0	0.0	0.0	0.1	0.0	0.0	14.7	0.3	0.0
0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	0.0
1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	9.6	0.0
0.0	-77.0	0.1	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.1	1.6
0.1	-77.0	0.0	0.0	0.0	0.0	0.0	0.0	10.1	0.0	0.0	2.8
0.0	-77.0	0.0	-77.0	0.0	-77.0	0.0	0.0	-77.0	0.0	-77.0	0.1
Jan_2007	Feb_2007	Mar_2007	Apr_2007	May_2007	Jun_2007	Jul_2007	Aug_2007	Sep_2007	Oct_2007	Nov_2007	Dec_2007
0.1	0.0	0.0	0.0	28.4	0.0	0.0	0.0	0.0	0.3	0.0	0.1
0.1	0.0	0.0	7.9	9.2	0.0	0.0	0.0	0.0	6.6	0.0	0.1
0.2	0.9	0.0	5.6	1.6	0.0	0.0	0.0	0.0	3.6	0.0	0.0
0.1	0.5	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	1.7	3.5	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
0.0	9.9	5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	25.5	0.0	1.6	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
0.1	1.6	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
0.0	0.1	0.0	2.4	0.0	1.3	0.0	0.0	0.4	0.0	0.0	0.1
0.0	5.3	0.0	5.1	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.0
0.0	8.7	0.0	3.4	0.5	0.0	0.0	0.0	2.3	0.0	0.0	0.0
0.0	2.3	0.0	1.3	0.4	0.1	0.0	0.0	0.5	0.0	0.0	0.1
0.0	4.7	0.0	0.0	0.0	22.0	0.0	0.0	1.2	0.0	0.0	0.1
0.3	0.0	0.0	0.0	0.0	1.9	0.0	1.0	0.0	0.0	0.0	0.0
0.7	7.0	0.0	0.0	0.0	15.9	0.5	0.0	4.6	1.1	0.0	0.0
0.5	2.1	0.0	0.5	0.0	18.6	0.0	0.0	0.0	0.4	0.0	0.0
0.3	0.0	0.0	0.0	0.0	3.0	0.0	0.0	12.0	0.0	0.0	8.3
0.0	7.4	0.0	0.3	0.0	7.4	0.0	0.0	0.0	0.0	52.5	15.5
0.0	3.0	0.0	6.5	0.3	0.0	0.0	0.0	2.8	0.0	34.6	0.7
0.0	0.7	0.0	2.7	0.0	0.0	0.0	0.0	1.9	0.0	1.4	0.3



Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

### ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

1.6	5.4	0.0	0.0	10.6	0.0	0.0	0.0	0.0	0.0	2.4	0.0
0.5	0.2	0.0	0.0	3.8	0.0	1.5	0.0	0.0	0.0	0.0	0.0
0.0	0.1	0.0	0.0	2.3	0.0	0.0	0.0	0.0	0.1	0.0	0.0
1.5	2.7	0.0	5.2	0.4	0.0	0.0	0.5	0.0	0.9	0.0	2.4
0.0	1.2	7.7	1.4	1.0	0.0	0.0	1.2	0.0	0.0	0.0	0.2
0.0	0.0	0.0	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.0	1.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.1	-77.0	0.0	0.1	0.0	0.0	0.0	0.0	9.4	0.0	0.0	0.0
3.2	-77.0	2.1	0.9	0.0	0.0	0.0	0.0	74.1	0.0	0.0	0.0
0.3	-77.0	8.1	-77.0	0.0	-77.0	0.0	0.0	-77.0	0.0	-77.0	0.0
Jan_2008	Feb_2008	Mar_2008	Apr_2008	May_2008	Jun_2008	Jul_2008	Aug_2008	Sep_2008	Oct_2008	Nov_2008	Dec_2008
11.6	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.6
7.2	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
39.0	16.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	12.2
0.2	0.4	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.8	1.2
3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.9	0.0	0.0	2.1
0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	5.5
0.0	0.0	0.0	14.5	3.6	0.0	0.0	0.0	0.0	9.0	5.2	12.6
2.0	0.0	0.0	20.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
4.8	0.0	0.2	18.2	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.2
6.1	0.0	9.1	8.7	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.4	0.0	0.0	1.1	1.3	0.0	0.9	0.1	0.0	3.9	1.1	1.6
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	4.5	0.0	3.1
13.3	0.0	0.0	0.3	0.3	0.0	0.0	0.0	0.0	0.2	0.0	9.0
2.3	0.0	0.0	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	4.1
5.1	0.0	0.0	0.0	11.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.4	0.0	0.0	7.8	0.2	4.1	0.0	0.1	0.0	0.0	0.0	0.0
0.1	18.5	1.5	32.3	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0
0.1	55.5	2.4	10.3	1.5	0.0	0.0	0.0	0.0	0.6	0.0	0.0
0.0	1.0	4.9	25.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	1.6	1.0	19.0	0.5	0.0	0.0	0.0	0.4	0.0	0.0	0.0
0.0	0.1	0.0	2.8	0.0	0.0	0.0	0.0	5.9	3.8	0.0	0.0
0.0	0.0	1.3	0.0	12.1	0.0	0.0	0.0	1.4	0.5	0.0	0.0
0.0	6.6	0.0	0.0	18.2	0.0	0.0	0.0	0.5	0.5	0.0	0.0
0.0	17.2	0.0	0.0	5.8	0.0	0.0	0.0	0.0	0.0	0.2	0.0
0.0	0.1	0.0	0.0	4.2	0.0	0.1	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.3	2.5	0.0	6.1	0.0	0.0	0.0	0.0	1.3	0.0	26.6
0.0	0.1	0.0	0.0	4.3	0.0	0.0	0.0	0.3	0.5	11.7	7.0
0.0	0.0	0.0	0.1	5.0	0.0	0.0	0.0	0.8	0.0	12.8	8.3
0.0	-77.0	0.7	0.1	0.2	0.0	0.0	0.0	0.0	7.2	1.0	0.2
0.0	-77.0	0.1	-77.0	1.1	-77.0	0.0	0.0	-77.0	15.5	-77.0	8.4
Jan_2009	Feb_2009	Mar_2009	Apr_2009	May_2009	Jun_2009	Jul_2009	Aug_2009	Sep_2009	Oct_2009	Nov_2009	Dec_2009
8.3	45.4	1.1	0.0	0.0	0.0	0.0	1.1	0.5	0.0	0.3	2.8

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

## ANEXO 8 – Necessidades Hídricas das Culturas

### ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

8.0	0.6	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.1
1.8	10.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
0.0	12.0	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.1
0.0	6.3	4.0	0.0	0.0	4.8	0.0	0.0	0.0	0.9	0.0	3.3
0.0	1.6	0.3	0.0	0.0	7.0	0.0	0.0	0.0	4.3	0.5	8.7
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.3	0.0	12.7
0.0	0.4	0.0	0.0	0.0	3.1	0.0	0.0	0.0	0.9	0.1	0.0
0.1	6.8	0.0	0.7	6.6	0.0	0.0	0.0	1.0	0.0	0.0	0.0
0.2	0.4	0.0	2.1	0.1	0.0	0.0	0.0	0.2	0.0	0.0	0.0
0.0	0.1	0.0	0.0	12.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7.8	0.0	0.0	0.6	0.0	0.0	0.0	1.0	1.4	0.0	1.6	0.0
0.1	0.0	0.0	8.5	0.0	0.9	0.0	0.5	0.0	0.0	8.2	0.0
22.0	0.0	0.0	11.0	0.0	1.4	0.0	8.5	0.0	0.0	9.8	0.2
3.1	0.0	0.0	11.1	0.0	3.2	0.0	0.0	0.0	0.0	13.1	11.8
0.0	0.0	0.0	4.8	0.1	0.0	0.0	0.0	0.6	0.0	5.6	0.3
1.5	0.0	0.0	8.7	0.0	0.0	0.0	0.0	4.1	0.0	0.1	2.9
7.2	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0
5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.4	0.0	12.8
0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	29.8	11.2	19.4
6.1	0.0	0.0	0.0	0.0	0.0	1.6	0.0	0.0	1.8	0.1	15.0
3.7	0.0	0.0	0.0	3.5	0.0	0.8	0.0	0.0	0.0	0.0	20.7
0.8	0.0	0.0	0.0	13.3	0.0	0.0	0.0	0.0	0.0	0.0	8.4
14.5	0.0	0.0	0.0	0.2	0.3	0.0	0.0	0.0	0.0	5.6	22.5
6.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	1.0
0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.3	9.3
7.0	0.9	0.0	0.0	0.0	18.3	0.0	0.0	0.0	0.0	1.6	35.9
7.5	-77.0	0.0	0.0	0.0	2.6	0.0	0.0	0.5	0.0	18.8	53.5
12.1	-77.0	0.0	1.7	0.0	0.0	0.0	0.0	2.2	0.0	0.1	19.0
10.8	-77.0	0.0	-77.0	0.0	-77.0	0.0	0.0	-77.0	0.0	-77.0	17.8
Jan_2010	Feb_2010	Mar_2010	Apr_2010	May_2010	Jun_2010	Jul_2010	Aug_2010	Sep_2010	Oct_2010	Nov_2010	Dec_2010
4.1	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3
1.2	0.0	22.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.7
25.6	3.2	9.2	1.1	0.0	0.0	0.4	0.0	0.0	23.4	0.0	0.7
25.0	10.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.2
0.2	0.4	31.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	45.3
1.5	0.1	13.0	0.0	0.0	0.0	0.0	0.0	0.1	1.3	0.0	21.6
0.0	4.4	5.0	0.0	5.1	0.0	0.0	0.0	1.1	0.4	0.0	12.1
0.0	5.2	11.6	0.0	16.7	5.5	0.0	0.0	0.0	48.7	3.3	21.6
0.0	0.1	0.2	0.0	18.0	12.3	0.0	0.0	0.0	7.0	4.6	14.9
1.2	11.4	0.0	0.0	0.0	3.4	0.0	0.0	0.0	3.2	0.0	0.1
9.4	0.8	0.0	0.0	1.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0
39.9	0.0	0.0	0.4	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.5
21.9	0.0	0.0	6.7	0.7	0.0	0.0	0.0	0.0	0.0	0.2	0.0

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

## ANEXO 8 – Necessidades Hídricas das Culturas

### ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

4.1	0.0	0.0	29.5	0.0	0.0	0.0	0.0	0.0	0.0	17.0	0.0
6.0	19.8	0.0	10.3	0.0	0.0	0.0	0.5	0.1	0.0	0.0	0.0
11.2	12.9	0.0	5.9	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0
0.4	8.3	0.0	19.0	0.0	0.0	0.0	0.0	5.1	0.0	21.0	0.0
3.1	0.2	0.0	31.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
1.0	0.0	7.6	0.5	0.0	0.0	0.0	0.0	0.0	0.0	15.8	0.1
1.5	5.4	3.8	0.0	0.0	0.0	0.0	0.0	1.7	0.0	5.2	41.2
0.0	38.0	0.5	2.7	0.0	0.0	0.0	0.0	0.0	0.0	1.4	33.3
0.0	29.4	0.0	10.4	0.0	0.0	0.0	0.0	0.0	0.0	0.1	12.2
0.0	20.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	2.4
0.0	3.3	6.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0
0.0	18.1	9.6	0.0	4.2	5.2	0.0	0.0	0.0	0.0	0.0	2.0
0.8	5.5	0.9	0.0	0.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0
0.0	30.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	11.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
0.0	-77.0	11.6	0.0	0.0	0.0	0.0	0.0	0.0	31.3	11.0	8.5
0.0	-77.0	0.2	0.0	0.0	1.1	0.0	0.0	0.0	15.6	11.0	30.7
0.0	-77.0	0.3	-77.0	0.0	-77.0	0.0	2.0	-77.0	14.1	-77.0	26.6
Jan_2011	Feb_2011	Mar_2011	Apr_2011	May_2011	Jun_2011	Jul_2011	Aug_2011	Sep_2011	Oct_2011	Nov_2011	Dec_2011
0.9	0.0	0.0	0.0	1.7	0.0	0.0	2.7	32.3	0.0	4.6	0.0
0.1	0.0	0.0	0.1	1.8	0.0	0.0	0.0	8.7	0.0	37.3	0.8
0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.9	0.0
3.7	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.3	0.0	4.3	0.0
8.2	0.0	4.1	0.0	0.0	13.8	0.0	0.0	0.0	0.0	0.0	0.0
34.8	0.0	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11.5	0.0	0.0	0.0	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13.4	0.0	8.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.0	0.2
2.9	0.0	8.4	0.0	0.0	0.9	0.0	0.0	0.0	0.0	52.3	0.3
8.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.9	11.9
1.0	0.0	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	2.9
0.0	0.0	6.3	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	1.2
0.1	13.6	22.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	2.4
0.2	13.0	20.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.0	3.3
0.2	8.5	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.3	0.1
0.1	22.1	0.0	0.0	11.8	0.0	0.0	0.0	0.0	0.0	2.9	5.7
0.7	6.7	0.0	0.0	8.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	2.5	0.0	5.0	12.4	0.0	0.0	0.0	0.0	0.0	8.0	0.0
0.1	28.2	0.0	21.7	0.0	0.0	0.0	0.0	0.0	0.0	10.3	0.0
0.0	0.6	0.0	23.7	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0
0.0	0.0	0.0	39.0	0.0	0.0	0.0	3.6	0.0	0.0	0.0	0.0
0.0	0.0	0.0	2.5	0.0	0.0	0.0	0.2	0.0	0.4	11.1	0.0
0.0	0.0	0.0	3.8	4.8	0.0	0.0	0.0	0.0	31.5	0.0	0.0
0.0	0.0	2.7	0.1	0.0	0.0	0.0	0.0	0.0	37.2	0.0	0.0
0.0	0.0	8.0	0.1	0.0	0.0	0.0	0.0	0.0	1.8	0.0	0.0

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.0	0.0	8.1	0.0	0.3	0.0	0.0	0.0	0.0	45.8	0.0	0.0
3.1	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	0.0	0.0
7.7	0.0	3.9	0.9	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.1	-77.0	0.3	17.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	-77.0	0.0	14.4	4.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
0.0	-77.0	0.0	-77.0	0.0	-77.0	0.0	0.6	-77.0	0.0	-77.0	0.0
Jan_2012	Feb_2012	Mar_2012	Apr_2012	May_2012	Jun_2012	Jul_2012	Aug_2012	Sep_2012	Oct_2012	Nov_2012	Dec_2012
0.2	0.0	0.0	1.2	4.7	0.0	0.0	0.0	0.0	0.0	0.8	0.0
0.7	0.0	0.0	2.6	23.3	0.4	0.0	0.0	0.0	0.0	6.2	0.0
0.0	0.0	0.3	0.0	22.5	0.0	0.0	0.0	0.0	0.0	13.2	0.0
0.0	0.0	0.4	0.0	3.8	0.0	0.0	0.0	0.0	0.0	20.4	0.3
0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	2.2	7.0	0.1	0.0	0.0	0.0	0.0	0.0	14.6
0.0	0.0	0.0	0.4	25.2	0.5	0.0	0.0	0.9	0.0	28.9	10.6
0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.0	23.7	0.1
0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	5.6	0.0
0.0	0.0	0.0	1.9	0.0	0.7	0.0	0.0	0.0	0.0	1.2	0.0
0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	2.6	0.4	0.0
0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.3	0.0	3.8
0.2	0.0	0.0	13.4	0.0	0.0	0.0	0.2	0.0	0.5	0.0	45.5
3.4	0.0	0.0	0.0	0.0	0.0	0.0	11.5	0.0	0.0	10.8	1.9
0.1	0.0	0.7	0.2	0.0	0.0	0.0	0.1	0.0	0.0	19.7	2.2
0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	29.0	48.6	4.2
0.0	0.0	0.2	2.3	0.0	0.0	0.0	0.0	0.0	15.9	0.0	1.2
0.0	0.0	0.0	2.2	1.5	0.0	0.0	0.0	0.0	0.1	0.0	1.4
0.0	0.0	0.0	2.1	4.1	0.1	0.0	0.0	0.0	0.4	5.2	2.3
0.0	0.0	0.0	0.7	0.0	0.2	0.0	0.0	0.0	0.5	1.5	1.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.2	0.3	0.1
0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	8.3	0.1	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	12.1	32.9	0.7
0.0	0.0	0.0	13.7	0.0	0.0	0.0	0.4	10.4	20.5	7.2	1.0
0.6	0.0	0.2	6.5	0.0	0.0	0.3	0.0	0.5	14.9	0.0	0.0
0.0	0.0	0.0	6.6	0.0	0.0	0.0	0.0	5.7	0.0	0.0	0.0
0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	12.5	1.6	0.0	0.0
0.0	0.0	0.0	6.0	0.0	0.0	0.0	0.0	0.1	5.2	0.4	4.1
0.0	-77.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	12.5	0.6	0.0
0.0	-77.0	0.2	-77.0	0.0	-77.0	0.0	0.0	-77.0	0.0	-77.0	19.5
Jan_2013	Feb_2013	Mar_2013	Apr_2013	May_2013	Jun_2013	Jul_2013	Aug_2013	Sep_2013	Oct_2013	Nov_2013	Dec_2013
0.5	2.0	0.0	4.1	0.0	0.0	0.0	0.0	0.0	9.1	0.0	0.0
0.0	0.2	0.0	0.7	0.1	0.0	0.0	0.0	0.0	12.4	0.1	0.0
0.0	0.0	1.3	13.4	0.1	0.0	0.0	0.0	0.6	6.6	0.0	0.0
0.0	0.0	8.3	11.4	0.0	0.0	0.0	0.0	1.2	0.0	0.5	0.0
0.0	0.0	10.1	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

## ANEXO 8 – Necessidades Hídricas das Culturas

### ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.0	0.0	7.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	19.3	0.2	0.0	3.3	0.0	0.0	0.4	0.0	0.0	0.0
0.0	0.0	22.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	1.1	0.0
6.6	0.0	17.9	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7.5	2.1	13.6	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.3	1.9	4.2	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.7	0.1	0.7	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9
0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0
0.2	0.0	0.1	0.0	2.4	0.0	0.0	0.0	0.0	0.0	0.5	0.0
12.6	0.0	4.2	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.2	0.0
2.7	14.3	10.3	0.0	7.2	1.0	0.0	0.0	0.0	0.0	0.1	2.1
18.2	0.2	0.0	0.0	0.6	3.3	0.0	0.0	0.0	11.6	0.0	1.4
30.1	12.1	7.2	0.0	2.0	0.0	0.0	0.0	0.0	1.0	0.0	10.4
11.9	0.3	0.0	0.0	1.6	0.0	0.0	0.0	0.0	0.1	0.0	0.0
0.5	13.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0	2.2	0.0	0.0
25.4	18.2	11.9	0.0	0.0	0.0	0.0	0.0	0.0	20.4	2.3	0.1
5.1	0.3	6.1	0.0	0.0	0.0	0.0	0.0	0.0	16.7	0.0	6.4
0.3	0.0	2.7	0.0	0.0	0.0	0.0	0.0	0.0	56.6	0.0	47.8
11.8	0.0	6.9	0.0	0.0	0.0	0.0	0.0	0.0	10.1	0.0	14.9
0.1	0.0	15.4	6.4	0.0	0.0	0.0	0.0	0.3	0.7	0.0	0.9
10.1	4.0	4.0	0.0	0.0	0.0	0.0	0.0	48.5	0.1	0.0	2.6
0.0	9.1	1.3	0.1	0.0	0.0	1.1	0.0	18.1	1.2	0.0	0.5
0.0	-77.0	18.1	0.6	0.6	0.0	0.0	0.0	5.6	0.0	0.0	0.0
0.0	-77.0	0.0	0.0	0.0	0.0	0.0	0.0	59.4	0.0	0.0	1.2
0.0	-77.0	42.3	-77.0	0.0	-77.0	0.0	0.0	-77.0	0.0	-77.0	9.7
Jan_2014	Feb_2014	Mar_2014	Apr_2014	May_2014	Jun_2014	Jul_2014	Aug_2014	Sep_2014	Oct_2014	Nov_2014	Dec_2014
11.4	2.6	5.4	33.5	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0
10.7	0.0	3.2	13.1	0.0	0.0	6.4	0.0	0.0	0.0	0.1	0.0
10.5	13.8	0.3	0.3	0.0	0.0	8.6	0.0	0.0	0.0	18.4	0.1
17.3	26.5	0.6	7.8	0.0	0.0	0.1	0.0	0.0	0.0	0.8	0.0
0.7	0.4	0.4	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.9	13.2	0.0	0.1	0.0	15.0	0.3	0.0	4.1	0.0	0.1	0.0
23.8	4.2	0.0	0.1	0.0	0.0	0.0	0.0	7.7	2.1	2.9	0.0
0.0	9.9	0.0	0.0	0.0	0.0	0.0	0.0	0.1	24.5	6.0	0.0
0.0	22.6	0.0	0.0	0.0	0.0	0.0	0.0	0.1	15.0	0.2	0.0
0.0	5.6	0.0	0.0	0.0	0.0	0.0	0.0	2.7	3.0	21.3	0.0
0.0	16.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1	4.1	7.3	0.0
7.6	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.1	13.2	0.2	6.0
0.7	8.2	0.1	0.0	0.0	0.0	0.0	0.0	0.1	14.2	33.9	14.9
1.6	11.5	0.0	0.4	0.0	0.0	0.0	0.0	0.7	0.2	9.6	4.4
5.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0	8.5	6.5	3.3	0.0
1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.5	0.8	0.1	0.2
12.5	0.5	0.0	0.8	0.0	0.0	0.0	0.0	12.6	0.0	0.0	0.0

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	0.0	5.4	0.0
3.1	0.0	0.0	0.0	0.5	0.0	4.9	0.0	5.4	0.0	36.6	0.2
0.1	3.2	0.0	3.4	12.5	0.0	0.1	0.0	6.4	0.0	2.2	0.3
7.2	0.0	0.4	0.6	15.1	1.7	0.0	0.0	25.1	0.0	0.0	0.1
0.6	0.5	2.7	0.0	3.5	0.1	0.0	0.0	5.5	0.0	0.5	0.0
0.0	2.4	0.0	2.6	0.1	2.7	0.0	0.0	7.6	0.0	0.6	0.0
0.0	1.5	1.8	2.6	0.0	0.3	0.0	0.0	0.7	0.0	0.1	0.0
0.0	1.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	7.9	0.0
0.3	0.6	3.0	0.0	0.0	0.0	0.0	0.0	5.1	0.0	9.8	0.0
1.8	0.1	18.3	0.0	0.0	0.0	0.0	0.0	3.2	0.0	17.2	0.5
3.3	-77.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0	5.6	0.0
0.0	-77.0	8.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0
1.1	-77.0	15.4	-77.0	0.0	-77.0	0.0	0.0	-77.0	0.0	-77.0	0.0
Jan_2015	Feb_2015	Mar_2015	Apr_2015	May_2015	Jun_2015	Jul_2015	Aug_2015	Sep_2015	Oct_2015	Nov_2015	Dec_2015
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0
0.0	8.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	32.0	0.0
0.0	1.0	0.1	0.0	6.0	0.0	0.0	0.0	0.0	0.1	3.3	0.0
0.0	0.0	0.0	0.0	5.9	0.0	0.0	0.0	0.0	7.9	8.5	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	41.0	2.7	0.0
0.0	1.1	0.0	1.4	0.0	0.0	0.0	0.0	0.0	2.1	0.7	0.0
0.3	0.0	0.0	0.0	0.0	2.8	0.0	0.0	0.0	0.0	0.0	0.3
0.1	0.0	0.0	2.1	1.3	1.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	9.3	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	10.1	0.0	0.0	0.0	0.0	0.0	17.7	0.0	0.0
0.0	0.8	0.0	0.1	0.0	3.6	0.0	0.0	0.0	15.3	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	46.0	0.0	0.0
0.0	2.1	0.0	0.0	0.0	1.2	0.0	0.0	2.1	1.1	0.1	6.9
0.2	6.2	0.0	0.8	0.0	11.4	0.0	0.0	0.1	0.0	0.0	36.0
16.9	0.7	0.0	5.0	0.0	2.6	0.0	0.0	9.0	0.0	0.0	0.0
6.2	0.0	0.0	0.7	0.0	0.0	0.0	0.0	14.1	0.0	0.0	0.0
11.3	0.0	6.4	0.0	0.0	0.0	2.4	0.0	0.4	29.0	0.0	0.0
10.6	0.0	4.6	0.8	0.0	0.0	0.7	0.0	0.0	21.4	0.0	0.0
0.1	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	6.0	0.0	0.0
2.6	0.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	5.1
0.3	1.7	0.2	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.1
0.0	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
0.0	0.4	2.1	0.0	0.0	0.0	0.0	1.5	0.0	0.0	0.0	0.1
0.0	0.0	2.0	7.6	0.0	0.0	0.0	0.0	0.0	5.7	0.0	0.4
0.0	0.0	0.0	13.8	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0
0.0	0.0	0.0	23.4	0.0	0.0	0.0	0.0	0.0	25.7	0.0	0.0
0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	4.8	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.0	25.8
1.1	-77.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	1.3	0.0	0.2

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

5.5	-77.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	10.0
8.9	-77.0	0.0	-77.0	0.0	-77.0	0.0	1.5	-77.0	6.0	-77.0	0.1
Jan_2016	Feb_2016	Mar_2016	Apr_2016	May_2016	Jun_2016	Jul_2016	Aug_2016	Sep_2016	Oct_2016	Nov_2016	Dec_2016
18.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5
0.1	0.0	0.0	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.9	0.0	0.0	11.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	33.4
13.2	0.0	0.6	13.7	0.0	0.0	0.1	0.0	0.0	0.0	17.7	0.1
7.3	0.0	0.4	0.0	13.4	0.0	0.0	0.0	0.0	0.0	19.5	0.0
7.2	6.1	0.0	0.0	9.3	0.0	5.1	0.0	0.0	0.0	0.0	0.0
10.3	0.4	1.9	0.0	37.2	0.0	1.6	0.0	0.0	0.0	0.0	0.0
22.5	0.7	0.0	0.0	19.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.0	5.7	0.5	0.2	5.7	0.0	0.0	0.0	0.0	0.0	2.2	0.0
18.8	16.0	0.0	4.0	25.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10.2	3.2	0.0	4.4	14.9	0.0	0.0	0.0	0.0	9.6	0.0	0.0
0.2	21.3	0.0	14.4	4.1	0.0	0.0	0.0	0.0	18.1	2.0	0.0
0.0	15.4	0.0	4.7	0.5	0.0	0.0	0.0	13.7	1.3	0.1	0.1
1.8	12.7	0.0	9.2	0.0	0.0	0.0	0.0	1.0	0.0	0.0	16.4
0.0	1.8	4.5	8.7	0.0	1.2	0.0	0.0	0.2	0.0	0.0	10.5
0.0	0.0	0.1	18.9	0.0	0.4	0.0	0.0	0.0	0.6	0.0	1.7
0.1	5.0	0.0	4.5	0.0	0.0	0.0	0.0	0.0	2.4	0.0	0.0
0.4	0.0	10.6	0.2	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0
6.4	0.0	6.5	35.6	0.0	0.0	0.0	0.0	0.0	0.0	5.5	0.0
6.2	0.0	10.7	15.6	0.0	0.0	0.0	0.0	0.0	0.0	34.9	0.0
5.7	0.0	1.3	4.7	0.0	0.0	0.0	0.0	0.0	0.4	11.9	0.0
1.3	0.0	0.6	0.4	0.3	0.0	0.0	0.0	0.0	39.8	2.0	0.0
0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	7.7	0.6	0.1
0.0	5.4	0.0	0.0	0.9	0.0	0.0	0.0	0.0	15.4	13.7	0.0
12.8	0.0	0.0	0.0	0.1	0.0	0.0	0.4	0.0	5.6	45.3	0.0
0.3	24.2	7.8	0.0	0.0	0.0	0.0	0.6	0.1	0.0	20.7	0.0
0.2	1.9	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	1.0	0.0
4.1	0.0	0.7	0.0	7.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.1	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	-77.0	3.8	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0
0.0	-77.0	0.8	-77.0	0.0	-77.0	0.0	0.0	-77.0	0.0	-77.0	0.0
Jan_2017	Feb_2017	Mar_2017	Apr_2017	May_2017	Jun_2017	Jul_2017	Aug_2017	Sep_2017	Oct_2017	Nov_2017	Dec_2017
0.0	6.8	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
6.1	14.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.2	0.0
17.3	8.1	12.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26.5	0.0
5.0	10.6	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.8	0.0
0.1	2.0	1.1	0.0	14.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.1	0.0	0.0	0.0	7.9	0.0	0.0	0.0	0.0	0.0
0.0	1.1	0.0	0.0	0.0	0.0	1.4	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	1.9	0.0	0.0	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.1

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

### ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.0	17.6	0.0	0.0	17.5	0.0	0.0	0.0	0.0	0.0	0.0	20.6
0.0	1.5	0.0	0.0	19.5	0.0	0.0	0.0	0.0	0.0	0.0	12.5
0.0	36.2	0.0	0.0	13.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	3.4	0.0	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	6.2	0.3	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	1.0
0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	4.3	0.0	0.0	0.0	2.9	0.0	0.0
0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.5	0.0	0.0
0.0	0.0	0.0	0.0	0.0	1.4	0.0	0.0	0.0	0.2	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.9	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0
0.0	0.0	7.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.9	0.1
0.0	0.0	2.1	0.0	0.5	0.2	0.0	0.0	0.0	0.0	5.5	0.4
0.0	0.0	21.6	0.0	1.6	0.3	0.0	0.0	0.0	0.0	0.0	5.1
25.3	0.0	34.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.1
6.0	0.8	6.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	6.7
1.5	0.4	0.2	0.0	0.6	2.2	0.0	1.7	0.0	0.0	12.5	1.5
5.5	-77.0	0.0	2.7	0.3	0.0	0.0	3.2	0.0	0.0	0.0	0.6
0.5	-77.0	0.0	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.1	-77.0	1.0	-77.0	0.0	-77.0	0.1	0.0	-77.0	0.0	-77.0	3.0
Jan_2018	Feb_2018	Mar_2018	Apr_2018	May_2018	Jun_2018	Jul_2018	Aug_2018	Sep_2018	Oct_2018	Nov_2018	Dec_2018
0.0	0.0	24.6	0.0	0.0	0.0	1.9	0.0	0.0	0.0	0.0	0.0
0.8	0.0	32.5	3.6	0.0	0.0	0.5	0.0	0.0	0.0	0.2	0.0
0.1	0.1	23.5	9.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.4	0.1	10.5	3.1	0.0	1.0	0.0	0.4	0.0	0.0	26.8	0.0
15.9	0.3	15.9	0.0	0.0	0.2	0.0	0.0	2.5	0.0	1.4	0.0
0.0	0.0	3.0	9.0	0.1	0.1	0.0	0.0	0.0	0.0	1.2	0.0
0.9	0.0	5.4	3.8	2.6	4.0	0.0	0.0	2.3	0.0	5.8	0.0
0.1	0.0	7.2	9.0	0.0	8.3	0.0	0.0	0.0	0.0	8.5	0.0
14.2	1.9	70.7	2.8	0.0	2.6	0.0	0.0	0.0	0.0	0.6	0.0
5.8	0.0	12.9	15.6	0.0	1.4	0.0	0.0	0.0	0.0	11.4	0.0
0.3	0.1	20.5	0.0	0.0	0.0	0.1	0.0	0.0	2.8	25.8	0.0
0.0	0.4	2.6	20.5	0.0	0.0	0.0	0.0	0.0	0.0	0.1	2.9
13.2	0.2	2.5	1.4	0.0	0.0	0.0	0.0	0.0	6.2	0.0	8.2
0.8	0.5	30.7	0.0	0.0	0.0	0.0	0.0	0.1	0.4	0.0	0.0
0.0	0.4	10.0	7.8	0.0	0.0	0.0	0.0	0.2	13.1	1.1	1.7
0.0	0.0	5.5	0.0	0.0	0.0	0.0	0.0	0.0	3.3	0.4	8.5
0.1	0.0	26.9	0.0	0.5	0.0	0.0	0.0	7.3	2.0	0.1	0.0
0.0	0.0	0.5	0.0	0.9	0.0	0.0	0.0	0.0	5.3	15.8	10.9
0.0	0.0	9.9	0.0	0.8	0.0	0.0	0.0	0.0	1.6	0.8	0.9
0.0	0.0	0.0	0.0	10.0	0.0	0.0	0.4	0.0	9.0	3.5	0.5
0.0	0.0	0.0	10.9	0.1	7.1	0.0	2.3	0.0	7.7	7.2	0.1



Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.0	0.0	0.0	0.5	0.0	1.8	0.0	0.0	0.0	0.0	3.2	0.1
0.0	0.0	8.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0
0.0	0.0	2.0	0.0	30.2	0.0	0.0	0.0	0.0	0.0	8.6	0.2
10.9	0.0	2.6	0.0	2.1	0.0	0.0	0.0	0.0	0.0	18.2	0.0
0.0	1.7	0.0	0.0	0.1	0.0	0.0	0.0	0.0	1.4	0.0	0.0
0.0	27.9	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.3
0.0	57.8	0.0	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	-77.0	2.6	5.3	1.7	0.5	0.0	0.0	0.0	2.4	22.4	0.0
0.0	-77.0	7.0	1.2	0.0	1.9	0.0	0.0	0.0	15.2	0.2	0.0
0.0	-77.0	1.0	-77.0	0.0	-77.0	0.0	0.0	-77.0	2.7	-77.0	0.0
Jan_2019	Feb_2019	Mar_2019	Apr_2019	May_2019	Jun_2019	Jul_2019	Aug_2019	Sep_2019	Oct_2019	Nov_2019	Dec_2019
0.0	17.4	0.0	3.7	0.0	0.0	0.0	0.0	0.0	0.0	10.3	12.3
0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.5	0.1
0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	0.0
0.3	0.0	1.7	4.2	0.0	0.3	0.0	0.0	0.0	0.0	5.8	0.9
0.0	0.0	5.3	9.9	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0
0.0	0.0	26.8	16.4	0.0	5.8	0.0	0.0	0.0	0.0	4.4	0.0
0.0	0.0	7.8	6.5	3.1	0.0	0.0	0.5	0.0	0.0	1.4	0.0
0.0	0.0	0.1	3.0	4.5	0.0	0.0	0.1	0.0	0.0	0.1	0.8
0.0	0.0	0.0	6.6	7.7	0.0	0.0	2.8	0.0	0.0	3.8	0.3
0.0	4.1	0.0	0.0	2.8	0.0	0.0	0.8	0.0	0.0	0.2	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.1	1.4
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	6.3
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	2.0	1.8
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	16.8	7.1	0.6
0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.9
0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	54.3
0.8	0.0	0.0	15.1	0.0	0.0	0.0	0.0	0.0	15.4	9.7	0.5
1.1	7.3	0.0	4.2	0.0	2.4	0.0	0.0	0.0	0.4	0.0	17.1
9.6	0.0	0.0	7.9	0.0	0.3	0.0	0.0	0.0	15.9	0.8	57.6
0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.5	23.1	52.7
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.3	0.4	5.9	12.3
0.4	0.0	0.0	3.8	0.0	0.0	0.5	0.0	0.2	0.0	33.4	0.1
0.0	0.0	0.0	8.4	0.0	0.0	0.7	0.0	0.0	1.2	1.5	0.2
0.0	0.0	0.0	34.1	0.0	2.8	0.0	0.0	0.2	0.0	4.3	0.1
0.0	0.0	0.0	5.0	0.0	0.1	0.0	0.7	0.0	0.0	4.7	0.0
0.0	0.0	0.0	0.0	0.0	0.4	0.2	25.8	0.0	0.0	21.7	0.0
0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.0	0.0	0.0	0.4	0.0
0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	1.6	0.0
1.8	-77.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	1.1	1.6	0.0
9.1	-77.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.1	3.9	0.0
23.7	-77.0	0.2	-77.0	0.0	-77.0	0.0	0.0	-77.0	2.2	-77.0	0.0
Jan_2020	Feb_2020	Mar_2020	Apr_2020	May_2020	Jun_2020	Jul_2020	Aug_2020	Sep_2020	Oct_2020	Nov_2020	Dec_2020
0.0	1.7	12.7	12.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

### ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.0	0.1	9.5	0.6	0.0	0.0	0.0	0.0	0.0	5.4	0.0	0.0
0.0	0.1	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	1.0
0.0	0.2	0.6	0.8	0.0	0.0	0.0	0.0	0.0	0.5	1.1	7.5
0.0	0.0	2.7	41.6	0.0	0.0	0.0	0.0	0.0	0.0	22.2	0.0
0.0	0.0	0.3	15.8	0.0	0.0	0.0	0.0	0.0	0.0	20.8	1.2
0.0	0.0	0.0	5.8	0.0	0.0	0.0	0.0	0.0	0.0	7.7	3.1
0.0	0.5	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	11.7	0.8
0.0	0.0	0.0	12.7	5.7	0.0	0.0	0.0	0.0	0.0	2.5	0.6
0.0	0.0	0.0	0.1	6.6	0.0	0.0	0.0	0.0	0.0	0.0	9.0
0.0	0.0	0.0	0.3	18.1	0.0	0.0	0.0	0.0	0.0	0.1	6.4
0.0	0.3	0.0	0.0	2.1	2.1	0.0	0.0	0.0	0.0	0.0	0.7
0.0	0.3	0.0	1.7	17.3	0.0	0.0	0.0	0.0	0.0	1.2	2.3
5.2	0.0	0.0	2.0	4.5	0.0	0.0	0.0	0.0	0.0	2.7	10.4
12.3	0.0	0.0	12.0	10.6	0.0	0.0	0.0	0.0	0.0	0.4	0.4
6.7	0.0	1.2	24.0	0.0	0.2	0.0	0.0	1.0	0.0	0.1	3.9
0.6	1.7	0.1	6.3	0.0	0.0	0.0	0.1	4.5	0.0	0.1	0.0
21.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.3	0.0	0.0	0.5
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.4	23.1	0.0	9.3
0.0	0.0	38.3	11.5	0.0	0.0	0.0	0.1	3.4	72.6	0.0	0.1
0.0	0.0	8.3	0.2	0.0	0.0	0.6	0.3	0.0	5.4	0.0	0.9
2.8	0.0	0.2	0.0	0.0	0.0	0.0	0.0	2.6	4.3	0.0	0.3
22.8	0.0	1.0	0.0	0.0	0.0	0.0	0.0	2.1	1.3	0.0	0.8
1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.6	0.0	0.0
1.3	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	11.1	30.4	0.0
0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.4	6.1	0.0
5.3	0.0	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.2	0.1	0.2
1.8	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	3.6	5.1	2.7
1.8	1.7	0.0	4.1	0.0	0.0	0.0	0.0	0.0	0.0	2.5	1.9
3.5	-77.0	3.0	0.8	0.2	0.0	0.0	0.0	0.0	0.0	0.0	2.1
9.8	-77.0	4.9	-77.0	15.8	-77.0	0.0	0.0	-77.0	0.0	-77.0	3.1

#### 2.1.12 Lis

Tabela 12. Precipitações diárias na região de cálculo de Lis (mm)

Jan_2003	Fev_2003	Mar_2003	Abr_2003	Mai_2003	Jun_2003	Jul_2003	Ago_2003	Set_2003	Out_2003	Nov_2003	Dez_2003
13.2	0.0	5.8	0.0	0.9	0.7	0.1	0.0	0.1	10.4	1.1	11.8
27.7	0.0	2.2	0.0	0.1	0.0	0.0	0.0	0.0	69.1	0.0	0.5
3.4	0.3	1.8	0.0	0.0	2.0	0.0	0.0	0.0	34.6	0.0	6.8
4.1	4.1	0.1	0.0	0.9	5.9	0.0	0.0	0.0	0.1	0.0	0.2
16.0	0.0	0.7	0.0	0.2	0.0	0.0	0.0	0.0	0.2	0.0	13.7
2.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.1
9.8	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.6	12.4
8.9	0.0	0.1	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.6	13.1

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

## ANEXO 8 – Necessidades Hídricas das Culturas

### ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

10.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.6	12.8
0.0	0.0	0.0	8.8	0.0	0.0	0.0	0.0	0.0	5.9	3.7	0.0
0.1	3.7	0.0	1.1	0.0	0.0	0.0	0.0	0.0	17.7	0.1	0.1
0.0	0.0	0.0	9.4	0.0	0.0	0.7	0.0	0.0	0.0	2.5	0.0
0.0	0.1	0.0	20.5	0.1	0.0	0.8	0.0	0.0	0.0	0.0	0.1
0.0	0.0	0.1	9.9	0.0	0.0	2.3	0.0	0.0	0.0	0.8	0.0
0.0	0.0	0.0	2.8	0.0	0.0	10.3	0.0	0.0	0.0	40.0	0.0
0.0	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.5	0.0
0.0	4.7	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	8.8
15.1	31.0	0.1	7.1	0.0	0.0	0.0	0.0	0.0	9.4	0.0	8.2
1.8	8.1	0.1	1.4	0.0	0.0	0.0	0.0	0.0	13.3	0.0	0.1
11.1	2.5	0.0	9.4	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.0
2.4	6.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	35.3	0.0
8.2	11.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.6	15.5	0.0
0.0	0.0	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.5	0.1
0.1	6.1	4.4	0.0	0.0	0.1	0.0	0.0	0.0	0.3	0.0	0.0
0.0	12.2	16.4	25.6	0.0	0.0	0.0	0.0	0.0	19.6	0.0	0.0
0.0	8.1	11.8	0.1	0.0	0.0	0.0	0.0	0.0	10.9	17.3	0.0
0.0	3.3	12.3	0.0	0.0	0.0	1.4	2.7	0.0	32.6	1.5	0.8
0.0	0.0	0.6	1.2	0.0	0.0	0.0	1.1	0.0	0.9	0.2	5.7
0.0	-77.0	15.1	4.9	0.0	0.1	0.0	1.8	0.0	0.7	2.6	0.9
0.0	-77.0	0.3	5.4	1.5	0.2	0.0	6.2	57.9	19.5	19.0	2.8
0.0	-77.0	0.0	-77.0	0.0	-77.0	0.0	5.0	-77.0	54.6	-77.0	2.3
Jan_2004	Feb_2004	Mar_2004	Apr_2004	May_2004	Jun_2004	Jul_2004	Aug_2004	Sep_2004	Oct_2004	Nov_2004	Dec_2004
1.1	0.6	0.0	10.2	6.7	0.0	0.0	0.0	0.0	0.0	9.7	22.6
0.0	0.7	0.0	4.9	0.0	0.0	0.0	0.0	7.4	0.0	15.8	0.5
0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	14.1	0.0	3.8	0.0
0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0	13.8	0.0	0.1	0.1
0.0	0.0	4.7	0.0	11.1	0.1	0.0	0.0	1.8	0.1	0.0	0.0
0.0	0.0	2.4	0.0	5.7	0.0	0.0	0.0	0.1	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.2	0.0	0.1	0.0	0.3	0.0	0.0	0.2
7.6	0.0	0.0	0.0	0.0	0.0	0.1	22.8	1.4	13.7	0.0	0.0
1.5	0.1	0.6	0.0	8.3	0.0	0.0	0.0	0.1	3.2	0.0	0.0
0.2	0.0	2.5	0.0	1.8	0.0	0.8	0.8	0.1	12.5	0.0	0.0
0.3	0.0	1.2	0.0	0.0	0.0	0.0	3.6	0.0	3.7	0.0	0.0
0.1	0.0	16.7	0.0	0.4	0.0	0.0	0.3	0.0	0.1	0.0	0.0
0.9	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0	10.8
5.5	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.7	0.2	0.0	0.0
1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.1
0.1	0.0	0.0	0.0	0.0	0.0	0.0	13.1	0.0	0.5	0.0	0.0
0.8	0.0	0.0	0.4	0.0	0.0	0.0	1.6	0.0	0.8	0.0	0.0
0.0	0.0	0.0	8.5	0.0	0.0	0.0	14.7	0.0	28.2	0.0	0.1
0.0	0.0	0.0	1.4	0.0	0.0	0.0	2.7	0.0	38.2	0.1	0.0
0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.1	9.3	0.0	0.0

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.0	0.7	0.0	13.2	4.4	0.0	0.0	0.0	0.0	3.6	0.0	0.0
0.0	8.6	0.0	1.3	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	1.5	0.0	0.0	1.1	6.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	7.4	0.1	0.0	14.3	0.0	0.0	0.0	0.0	27.4	0.0	0.0
3.4	18.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	0.0	5.0
34.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.5	0.0	3.4
12.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	47.4	0.3	0.0
0.0	1.8	2.2	0.0	0.0	0.0	0.0	0.0	0.0	6.5	1.7	4.0
7.3	3.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	12.4	1.1	0.0
9.6	-77.0	3.2	5.7	0.0	0.0	0.0	0.0	0.0	17.8	11.0	0.0
37.7	-77.0	7.4	-77.0	0.0	-77.0	0.0	0.0	-77.0	8.6	-77.0	0.0
Jan_2005	Feb_2005	Mar_2005	Apr_2005	May_2005	Jun_2005	Jul_2005	Aug_2005	Sep_2005	Oct_2005	Nov_2005	Dec_2005
0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.1	22.7
0.1	0.0	0.0	13.6	0.0	0.0	0.0	0.0	0.0	0.0	1.8	41.8
0.1	0.0	0.0	4.4	0.0	0.0	0.0	0.0	0.0	0.0	15.0	1.3
0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.2
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	8.4	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	11.2	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9	2.5	2.8	0.1	0.1
0.0	0.0	0.0	0.0	2.9	0.0	0.0	4.6	0.1	29.6	0.0	0.0
0.0	0.0	0.0	0.0	3.2	0.0	0.0	0.0	0.0	21.1	0.0	0.0
0.3	0.1	0.0	0.0	4.5	0.0	0.0	0.0	0.0	15.4	1.3	0.0
1.6	0.0	0.0	0.1	6.8	0.3	0.0	0.0	0.0	0.2	1.2	0.0
0.1	0.0	2.8	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
0.2	0.0	0.0	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.1	0.0	0.0	1.0	8.7	0.0	0.0	0.0	0.0	0.0	0.1	0.0
0.0	0.0	0.0	5.4	0.0	0.0	0.0	0.0	0.0	1.2	0.1	0.0
0.1	0.0	0.0	6.8	0.0	0.0	0.0	0.0	0.0	0.1	5.7	0.0
0.0	0.0	0.0	2.9	0.0	0.0	0.0	0.0	0.0	0.7	14.3	0.0
0.2	0.0	5.0	0.2	0.0	0.0	0.0	0.0	0.0	9.1	23.7	0.0
0.1	0.0	6.3	0.0	0.7	0.0	0.0	0.0	0.0	3.4	6.9	0.0
0.0	9.4	0.3	0.4	0.0	0.0	0.0	0.0	0.0	10.6	1.6	0.0
0.0	18.7	9.7	2.9	0.0	0.0	0.0	0.0	0.0	0.2	0.1	0.0
0.0	9.4	0.0	1.5	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0
0.0	0.0	39.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.8	5.4
0.0	1.2	18.2	0.1	0.0	0.0	4.7	0.0	0.1	0.0	7.3	16.5
0.0	0.0	1.4	0.0	0.0	0.0	9.3	0.0	0.0	16.0	4.6	2.1
0.0	0.0	22.9	0.0	0.0	0.0	2.1	0.0	0.1	4.2	0.6	0.4
0.0	-77.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	10.1	0.2	0.3
0.0	-77.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23.2	0.0	0.2
0.0	-77.0	0.0	-77.0	0.0	-77.0	0.0	0.0	-77.0	6.7	-77.0	6.4
Jan_2006	Feb_2006	Mar_2006	Apr_2006	May_2006	Jun_2006	Jul_2006	Aug_2006	Sep_2006	Oct_2006	Nov_2006	Dec_2006

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

## ANEXO 8 – Necessidades Hídricas das Culturas

### ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.6	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.2
0.0	7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.5	5.1	8.9
0.0	5.7	5.5	0.0	0.0	0.0	0.0	0.2	0.0	3.5	15.0	1.8
0.0	0.1	29.3	1.1	0.0	0.0	0.0	0.1	0.0	6.0	34.1	3.5
4.0	0.0	0.1	9.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.4
10.0	0.0	0.0	8.2	0.0	0.0	0.0	0.0	0.0	0.0	12.6	1.9
0.1	0.0	0.0	2.6	0.0	0.0	0.0	0.0	0.0	0.0	3.1	6.2
0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.4
0.0	0.0	1.7	2.2	0.0	0.1	0.0	0.0	0.1	0.0	0.0	5.2
0.0	0.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0	5.6	0.0	0.0
0.0	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	3.6	0.0	0.0
0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.4	0.0	0.0	0.0	0.0	2.2	0.0	0.0	8.5	0.0	0.0	0.0
0.8	0.0	0.0	11.1	0.0	35.1	0.0	0.0	0.7	0.0	0.0	0.1
18.5	0.0	0.0	31.6	0.0	5.3	0.0	0.0	3.7	0.0	28.1	0.0
0.1	1.9	0.0	2.2	0.0	8.0	0.0	18.4	0.0	21.7	9.0	0.0
0.1	9.2	25.2	0.7	0.0	0.6	0.0	2.0	0.0	8.0	13.1	0.0
0.0	16.5	16.7	0.0	0.0	0.0	0.9	14.1	0.0	19.1	0.5	0.1
0.0	17.4	6.8	0.6	0.0	0.0	0.3	0.1	0.0	14.3	0.1	0.1
0.2	5.4	5.3	3.2	0.0	0.0	0.0	0.0	0.0	8.1	0.3	0.1
0.2	1.4	3.2	8.1	0.4	0.0	0.0	0.0	36.1	1.9	1.0	0.1
0.0	0.0	3.0	12.9	2.4	0.0	0.0	0.0	3.2	17.9	1.0	0.1
0.0	0.0	31.1	0.1	0.1	0.0	0.0	0.0	13.8	2.5	14.5	0.0
0.0	2.3	7.5	0.0	0.0	0.0	0.0	0.0	15.4	27.3	61.9	0.1
0.0	8.5	0.0	0.0	0.0	0.0	0.0	0.0	4.6	31.9	1.2	0.0
0.0	3.6	0.8	0.0	0.0	0.0	0.0	0.0	0.1	22.1	0.3	0.0
0.0	0.0	2.8	0.0	0.2	0.0	0.0	0.0	0.1	0.2	19.4	0.0
4.0	0.0	2.3	0.0	0.0	0.0	0.0	0.0	2.1	0.0	8.6	0.0
1.2	-77.0	0.1	0.0	0.0	0.0	0.0	0.0	1.8	0.0	4.3	4.4
0.6	-77.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	0.0	0.0	0.9
0.0	-77.0	0.1	-77.0	0.0	-77.0	0.0	0.0	-77.0	0.0	-77.0	0.0
Jan_2007	Feb_2007	Mar_2007	Apr_2007	May_2007	Jun_2007	Jul_2007	Aug_2007	Sep_2007	Oct_2007	Nov_2007	Dec_2007
0.1	0.0	3.0	0.1	38.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0
0.2	0.0	0.0	8.0	14.4	0.0	0.0	0.0	0.0	1.6	0.0	0.1
0.2	0.0	0.0	3.5	0.2	0.0	0.2	0.0	0.0	4.8	0.0	0.0
0.2	0.2	8.3	0.0	0.4	0.0	0.4	0.0	0.0	2.4	0.0	0.3
0.2	0.0	0.1	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.3
0.1	0.0	10.5	1.6	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.1
0.4	8.5	5.4	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
0.0	27.4	0.6	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.1	1.4	0.0	15.5	0.0	12.8	0.0	0.0	0.0	0.0	0.0	3.0
0.0	2.4	0.0	9.0	0.0	25.6	0.0	0.0	0.0	0.0	0.0	0.0
0.0	5.4	0.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	12.7	0.0	0.1	0.0	0.4	0.0	0.0	10.5	0.0	0.0	0.0

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.0	3.0	0.0	0.0	1.7	0.7	0.0	0.0	0.0	0.0	0.0	0.1
0.0	9.2	0.0	0.0	2.5	27.5	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.3	0.0	0.1	0.0	0.0	7.9	6.0	0.2	0.0	0.0	0.0
2.4	14.0	0.6	0.2	0.0	23.6	3.5	0.0	0.4	1.2	0.0	0.0
0.6	1.4	0.0	0.1	0.0	5.1	0.0	0.0	0.1	0.0	0.0	0.0
0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.8	0.0	0.0	1.4
0.0	16.5	0.4	0.0	0.0	6.4	0.0	0.0	0.0	0.0	66.9	36.3
0.1	4.6	0.0	14.2	2.7	4.8	0.0	0.0	6.7	0.0	12.3	1.2
0.1	2.0	0.0	0.2	0.0	0.0	0.0	0.0	4.3	0.0	0.8	0.0
5.0	4.9	0.0	0.0	7.5	0.0	0.0	0.0	0.0	0.0	3.0	0.0
0.6	0.6	0.0	0.0	5.0	0.0	8.4	0.0	0.0	0.0	0.9	0.0
1.6	0.6	0.1	0.7	5.0	0.1	0.1	0.0	0.0	0.8	0.0	3.5
3.6	9.4	0.5	3.7	4.8	0.0	0.0	0.0	0.0	0.1	0.0	7.0
1.5	0.1	1.6	0.0	0.1	0.0	0.0	1.8	0.0	0.0	0.0	0.0
0.0	0.0	0.1	0.0	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.9	5.9	0.2	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.2	-77.0	0.0	0.4	0.1	0.0	0.0	0.0	11.7	0.0	0.0	0.0
3.1	-77.0	8.5	4.7	1.4	0.0	0.0	0.0	8.6	0.1	0.0	0.1
0.7	-77.0	3.6	-77.0	0.0	-77.0	0.0	0.0	-77.0	0.0	-77.0	0.0
Jan_2008	Feb_2008	Mar_2008	Apr_2008	May_2008	Jun_2008	Jul_2008	Aug_2008	Sep_2008	Oct_2008	Nov_2008	Dec_2008
9.8	1.7	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.3	6.8
12.7	4.4	0.1	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.1	0.0
35.3	14.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.4
11.8	1.2	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.0	1.5	0.2
5.2	0.0	0.0	0.0	0.0	0.3	0.0	0.0	21.0	0.0	0.0	1.3
0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.5	3.8
0.2	0.0	0.0	20.6	0.4	0.0	0.0	0.0	0.0	9.0	6.1	8.0
0.0	0.0	0.0	11.0	0.9	0.0	0.0	0.0	0.0	0.2	0.0	1.6
2.9	0.0	0.8	19.9	6.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0
3.7	0.0	16.5	3.3	0.4	0.0	0.0	0.0	0.1	0.0	0.0	0.0
13.8	0.0	0.2	0.0	0.0	0.0	0.6	0.2	0.3	4.3	0.2	1.5
1.2	0.0	0.1	0.0	2.2	0.5	0.0	0.0	0.0	1.1	1.5	1.5
12.0	0.0	0.0	6.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	10.3
7.2	0.0	0.0	0.2	4.0	0.0	0.0	0.0	0.0	0.0	0.0	10.3
6.5	0.0	0.8	0.0	2.1	1.7	0.0	0.0	0.0	0.1	0.0	0.6
5.3	0.0	0.0	17.9	0.1	11.8	0.0	0.0	0.0	0.2	0.0	0.0
0.8	10.4	3.3	33.6	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.0
0.1	18.1	6.5	14.6	5.9	0.0	0.0	0.0	0.0	0.2	0.0	0.0
0.1	1.9	3.5	17.9	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.1
0.1	0.1	0.0	17.3	0.7	0.0	0.0	0.0	0.1	0.0	0.0	0.0
0.0	0.0	0.0	3.3	0.1	0.0	0.0	0.0	0.0	1.2	0.0	0.0
0.0	2.6	0.0	0.0	13.1	0.0	0.0	0.0	12.5	0.0	0.0	0.0
0.1	5.1	0.0	0.7	6.2	0.0	0.0	0.0	13.4	0.0	0.0	0.0
0.0	8.2	0.0	0.1	11.0	0.0	0.0	0.0	0.1	0.0	1.5	0.0

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.0	0.0	0.0	0.0	3.7	0.0	3.3	0.0	0.0	0.0	0.0	0.0
0.0	0.0	2.0	0.0	7.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.2	4.0	0.0	12.2	0.0	0.1	0.0	0.0	1.3	0.0	26.7
0.0	2.7	0.0	0.0	3.4	0.0	0.0	0.0	0.0	0.0	26.5	0.6
0.0	0.0	0.0	0.6	2.8	0.0	0.0	0.0	0.0	0.0	15.3	2.8
0.0	-77.0	3.4	0.3	4.6	0.0	0.0	0.0	0.0	8.7	8.7	3.5
0.1	-77.0	0.0	-77.0	0.1	-77.0	0.0	0.0	-77.0	8.6	-77.0	14.4
Jan_2009	Feb_2009	Mar_2009	Apr_2009	May_2009	Jun_2009	Jul_2009	Aug_2009	Sep_2009	Oct_2009	Nov_2009	Dec_2009
14.2	19.7	1.9	0.0	0.1	0.0	0.0	2.2	0.0	0.0	4.6	9.8
8.5	0.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	8.6
2.7	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	1.3
0.0	12.0	10.1	0.0	0.0	0.0	0.0	0.0	0.2	0.0	4.9	0.0
0.0	9.6	5.7	0.0	0.0	10.8	0.5	0.0	0.0	15.1	1.0	0.9
0.0	7.1	3.7	0.0	0.0	14.7	0.0	0.0	0.0	15.3	7.9	13.3
0.0	0.2	0.0	0.0	0.0	0.1	0.0	0.0	0.0	15.5	0.3	5.3
0.0	2.3	0.0	1.5	0.0	4.7	0.0	0.0	0.0	1.7	2.4	0.0
0.0	10.3	0.0	2.9	6.8	0.1	0.0	0.0	0.0	0.2	0.9	0.0
0.0	0.5	0.0	2.4	0.6	0.0	0.0	0.0	0.0	0.2	0.3	0.0
0.0	0.1	0.0	0.7	10.9	0.0	0.0	0.0	0.1	0.0	0.0	0.0
0.0	0.2	0.0	0.0	1.1	0.1	0.0	0.0	0.0	0.0	1.9	0.0
11.8	0.0	0.0	2.6	0.7	0.0	0.2	0.0	0.6	0.0	0.1	0.0
0.3	0.0	0.0	13.3	0.4	1.2	0.0	0.0	0.1	0.0	9.6	0.0
19.8	0.0	0.0	17.3	0.0	1.7	0.0	0.0	0.0	0.0	34.4	0.0
10.0	0.0	0.0	21.6	1.6	1.0	0.0	0.0	0.0	0.0	36.7	8.3
0.1	0.0	0.0	6.8	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.3
7.3	0.0	0.0	13.3	0.0	0.0	0.0	0.0	8.1	0.0	0.2	3.1
3.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0
9.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	34.9	0.0	12.2
0.3	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1	30.5	17.0	3.2
7.3	0.0	0.0	0.0	0.0	0.0	8.8	0.0	0.0	4.0	0.0	5.9
2.6	0.0	0.0	0.0	3.1	0.0	5.1	0.0	0.0	0.0	0.2	22.3
0.4	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.0	9.4
12.4	0.0	0.0	2.2	1.9	2.1	0.0	0.0	0.0	0.0	4.1	6.6
8.7	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0
6.5	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	2.0	13.7
27.4	0.2	0.0	0.9	0.0	41.2	0.0	0.0	2.7	0.0	2.4	13.0
6.5	-77.0	0.0	1.3	0.0	4.4	0.0	0.0	0.0	0.0	25.2	13.7
19.5	-77.0	0.0	4.8	0.0	0.0	0.0	0.0	0.4	0.0	2.6	15.6
9.6	-77.0	0.0	-77.0	0.0	-77.0	0.0	0.0	-77.0	0.1	-77.0	16.7
Jan_2010	Feb_2010	Mar_2010	Apr_2010	May_2010	Jun_2010	Jul_2010	Aug_2010	Sep_2010	Oct_2010	Nov_2010	Dec_2010
9.5	0.2	3.7	0.2	0.4	0.0	0.0	0.0	0.0	0.0	2.3	2.1
1.2	0.0	6.2	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	11.2
11.0	1.2	2.3	4.2	0.0	0.0	0.0	0.0	0.0	24.4	0.1	0.1
15.1	7.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	1.8	0.0	0.8

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

## ANEXO 8 – Necessidades Hídricas das Culturas

### ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.2	1.2	22.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	43.5
4.1	0.0	5.2	0.0	0.0	0.0	0.0	0.0	2.2	19.8	0.0	14.4
0.1	5.1	3.7	0.1	5.0	0.0	0.0	0.0	3.9	1.2	0.5	8.2
0.0	10.9	24.3	0.1	6.7	7.6	0.0	0.6	0.0	51.9	10.2	10.6
0.0	1.3	0.1	0.0	7.3	12.0	0.0	0.0	0.2	32.2	12.6	2.4
10.7	12.4	0.0	0.0	1.2	22.1	0.0	0.0	0.0	1.0	1.4	0.0
4.0	0.4	0.0	0.0	1.6	1.5	0.0	0.0	0.0	0.3	0.0	0.0
31.3	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
15.3	0.0	0.0	6.6	0.1	0.0	0.0	0.0	0.0	0.0	1.7	0.1
11.5	2.4	0.0	12.0	0.4	0.0	0.2	0.0	0.0	0.0	18.5	0.2
5.2	10.7	0.0	14.1	0.0	0.0	0.0	0.0	0.0	0.0	2.6	0.0
8.1	12.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0	0.1	3.6	0.0
0.7	12.3	0.0	10.8	0.0	0.0	0.0	0.0	0.0	0.0	16.4	0.0
0.6	0.0	0.1	15.7	0.0	0.0	0.0	0.1	0.0	0.0	0.8	0.0
1.6	0.1	11.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.3	0.2
1.7	3.5	14.3	8.0	0.0	0.0	0.0	0.0	0.0	0.0	6.9	15.2
0.0	18.7	1.8	10.6	0.0	0.0	0.3	0.0	0.0	0.0	3.7	24.5
0.0	17.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.9	7.2
0.2	6.2	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.2	1.0
0.7	0.5	13.4	0.1	0.0	0.0	0.0	0.5	0.0	1.0	0.0	0.0
0.3	24.0	8.3	0.0	9.6	0.0	0.0	0.0	0.0	0.2	0.2	5.4
0.0	5.4	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	26.2	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.2
0.0	8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3
0.6	-77.0	5.8	0.0	0.0	0.0	0.0	0.0	0.0	25.6	4.6	11.0
0.0	-77.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	31.2	9.2	20.5
0.0	-77.0	0.9	-77.0	0.0	-77.0	0.0	0.2	-77.0	27.7	-77.0	11.7
Jan_2011	Feb_2011	Mar_2011	Apr_2011	May_2011	Jun_2011	Jul_2011	Aug_2011	Sep_2011	Oct_2011	Nov_2011	Dec_2011
3.6	0.0	0.0	0.0	12.2	0.0	0.0	0.0	27.8	0.0	0.9	0.0
0.3	0.0	0.0	1.2	0.0	0.0	0.0	0.0	13.9	0.0	21.0	5.3
0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.4	0.0
1.8	0.0	0.0	0.0	0.1	0.0	0.1	0.0	1.7	0.0	5.7	0.1
5.2	0.0	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.7	0.4
36.9	0.0	0.6	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.1	0.8
4.0	0.0	0.0	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.1
11.7	0.0	2.5	0.0	0.0	0.3	0.0	0.0	0.0	0.0	6.8	0.0
0.2	5.9	1.2	0.0	0.0	0.7	0.3	0.0	0.0	0.0	11.7	0.0
6.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	17.1
0.4	3.0	2.7	0.1	0.0	0.0	0.0	0.0	0.1	0.0	24.1	5.1
0.0	0.3	6.3	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	1.4
0.2	13.9	19.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.7	4.5
0.1	15.0	20.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.1	6.4
0.0	7.0	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.3	1.0
0.2	19.9	0.1	0.0	28.1	0.0	0.1	0.0	0.0	0.0	4.7	8.5



Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

5.6	5.3	0.0	0.0	5.9	0.0	0.7	0.0	0.0	0.0	0.0	0.0
0.2	9.2	0.0	14.1	7.6	0.0	0.5	0.0	0.0	0.0	8.9	0.0
0.0	20.0	0.0	15.4	3.2	0.0	1.0	0.0	0.0	0.0	5.1	0.0
0.0	3.9	0.0	6.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.2	0.0	14.4	0.0	0.0	0.2	10.8	0.0	0.0	1.4	0.0
0.0	0.0	0.0	8.2	0.0	0.0	0.1	0.2	0.0	0.0	22.1	0.1
0.0	0.2	0.0	5.1	0.0	0.0	0.0	0.2	0.0	34.0	0.0	0.2
0.0	0.0	4.9	1.2	0.0	0.0	0.2	0.0	0.0	10.6	0.0	0.3
0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0
0.0	0.0	7.0	0.0	0.7	0.0	0.0	2.0	0.0	24.4	0.0	0.0
5.9	0.0	7.9	0.0	0.0	0.0	0.0	0.0	0.0	10.5	0.0	0.0
11.0	0.0	8.8	4.4	3.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0
2.3	-77.0	0.1	24.6	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.1	-77.0	0.0	21.3	0.5	0.0	0.0	0.2	0.0	0.0	0.0	0.0
0.0	-77.0	0.0	-77.0	0.0	-77.0	0.0	14.0	-77.0	2.3	-77.0	0.0
Jan_2012	Feb_2012	Mar_2012	Apr_2012	May_2012	Jun_2012	Jul_2012	Aug_2012	Sep_2012	Oct_2012	Nov_2012	Dec_2012
2.9	4.3	0.0	0.5	1.2	0.0	0.0	0.0	0.0	0.0	0.1	0.0
2.6	0.2	0.0	0.9	5.2	0.0	0.0	0.0	0.0	0.0	3.5	0.1
0.1	0.0	5.9	0.0	10.9	0.3	0.0	0.0	0.0	0.0	10.0	0.6
0.1	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.5	2.0
0.1	0.0	0.0	0.9	2.0	0.1	0.0	0.0	0.0	0.0	0.1	0.0
0.1	0.0	0.0	6.7	1.3	1.4	0.0	0.0	0.0	0.0	0.1	18.1
0.0	0.0	0.1	0.0	24.1	2.4	0.8	0.0	3.1	0.0	16.7	1.7
0.0	0.0	0.1	0.0	0.9	0.1	0.0	0.0	0.0	0.0	8.8	0.3
0.0	0.0	0.1	0.0	0.1	1.3	0.0	0.0	0.0	1.8	0.4	0.0
0.0	0.0	0.0	3.4	0.0	2.7	0.0	0.0	0.0	0.2	10.4	0.0
0.0	0.0	0.0	1.5	0.0	2.7	0.0	0.0	0.1	4.0	1.3	0.0
0.0	0.0	0.0	2.4	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	5.7	0.0	0.0	0.1	0.0	0.0	0.0	0.0	1.1
3.0	0.0	0.0	14.2	0.0	0.3	0.0	0.7	0.0	0.0	0.0	39.8
7.6	0.0	0.0	0.2	0.0	0.0	0.0	18.8	0.0	0.0	9.5	1.6
0.5	0.0	0.0	0.0	0.0	0.2	0.0	9.4	0.0	0.0	9.9	6.7
0.0	0.0	1.5	1.1	0.0	0.4	0.0	0.0	0.0	26.3	18.0	2.6
0.0	0.0	1.3	7.1	2.9	0.0	0.0	0.0	0.0	20.7	0.0	0.7
0.0	0.0	0.0	4.6	2.3	0.0	0.0	0.0	0.0	1.9	0.1	2.1
0.0	0.0	0.0	9.3	18.0	0.9	0.0	0.0	0.0	0.0	8.1	1.8
0.1	0.0	0.0	3.7	0.0	0.3	0.0	0.1	0.0	0.2	0.6	6.6
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	0.0	0.2
0.2	0.0	0.0	1.4	0.0	0.0	0.0	0.0	6.9	0.0	0.0	0.1
0.0	0.0	0.5	11.5	0.0	0.0	0.0	0.9	14.3	6.4	21.5	2.1
0.0	0.0	0.0	21.6	0.0	0.0	0.0	0.1	21.7	44.8	14.9	3.0
0.7	0.0	0.0	5.5	0.0	0.0	0.0	0.0	0.1	7.5	0.3	0.3
0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.1
0.0	0.0	0.0	5.3	0.0	0.0	0.0	0.0	10.0	0.0	0.1	0.0

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.0	0.0	0.0	5.8	0.0	0.0	0.0	0.0	0.1	3.1	2.0	5.5
0.0	-77.0	0.0	0.3	0.0	0.4	0.0	0.0	0.0	7.0	4.4	1.0
0.0	-77.0	0.0	-77.0	0.0	-77.0	0.0	0.0	-77.0	0.1	-77.0	0.6
Jan_2013	Feb_2013	Mar_2013	Apr_2013	May_2013	Jun_2013	Jul_2013	Aug_2013	Sep_2013	Oct_2013	Nov_2013	Dec_2013
0.2	3.7	0.0	9.8	0.0	0.0	0.0	0.0	0.0	35.7	0.0	0.0
0.2	0.0	0.0	2.3	0.0	0.0	0.3	0.4	0.0	5.2	0.8	0.0
0.0	0.0	0.6	9.3	0.0	0.0	0.0	0.0	0.0	8.9	0.1	0.0
0.0	0.0	14.2	0.6	0.0	0.0	0.0	0.0	1.0	0.1	6.3	0.0
0.0	0.0	17.3	0.0	0.0	0.0	0.0	0.0	7.5	0.3	1.5	0.0
0.0	0.4	10.3	0.0	0.1	0.2	0.0	0.0	1.2	0.0	0.0	0.0
0.0	0.0	8.1	2.4	0.1	2.4	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	10.7	0.0	0.2	0.8	0.0	0.0	0.0	0.0	3.8	0.0
13.7	0.0	8.0	0.0	4.0	0.7	0.0	0.0	0.0	0.0	0.3	0.0
8.1	10.1	15.2	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.0
5.1	7.5	5.3	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.2	0.0
8.0	4.2	2.6	0.0	0.0	0.0	0.4	0.1	0.0	0.0	0.0	0.1
3.1	0.8	0.3	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.1	2.8
0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
0.0	0.0	1.0	0.0	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23.7	0.0	4.0	0.1	6.4	0.8	0.0	0.1	0.0	0.0	0.1	0.0
8.8	9.9	10.0	0.0	8.4	7.9	0.0	0.0	0.0	0.1	0.0	6.0
30.1	0.2	0.1	0.0	1.2	5.2	0.2	0.0	0.0	57.0	0.0	3.6
33.4	6.6	2.2	0.0	1.8	1.2	0.0	0.1	0.0	0.4	0.0	4.6
18.4	1.0	0.5	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.2	18.8	9.3	0.0	0.0	0.0	0.0	0.0	0.0	6.5	0.1	0.0
19.3	9.6	5.1	0.0	0.0	0.0	0.0	0.0	0.0	21.8	5.9	0.1
13.2	0.3	6.5	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	2.2
19.8	0.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0	49.8	0.0	13.3
26.3	0.0	28.6	0.0	0.0	0.0	0.0	0.0	2.8	5.9	0.0	10.8
1.1	0.0	15.9	0.0	0.0	0.0	0.0	0.0	0.3	0.2	0.0	2.5
15.4	0.6	1.0	0.0	0.0	0.0	0.0	0.0	14.9	0.0	0.0	18.1
7.7	0.7	7.6	5.3	0.9	0.0	0.3	0.0	19.2	8.2	0.0	2.5
0.0	-77.0	15.2	0.3	6.3	0.0	0.0	0.0	5.3	2.3	0.0	0.4
0.0	-77.0	0.4	0.0	0.0	0.0	0.0	0.0	20.5	0.0	0.0	2.3
0.0	-77.0	23.6	-77.0	0.3	-77.0	0.0	0.0	-77.0	0.0	-77.0	20.2
Jan_2014	Feb_2014	Mar_2014	Apr_2014	May_2014	Jun_2014	Jul_2014	Aug_2014	Sep_2014	Oct_2014	Nov_2014	Dec_2014
13.9	8.9	10.3	28.1	0.0	0.0	0.6	0.0	0.0	0.0	0.6	0.0
20.2	0.1	9.3	5.2	0.0	0.0	3.3	1.9	0.0	0.0	15.6	0.0
12.1	17.3	3.8	1.1	0.0	0.0	0.1	0.1	0.0	0.0	30.6	0.0
11.3	29.1	1.8	12.0	0.0	0.0	0.0	0.0	0.0	0.1	6.6	0.0
0.0	2.0	1.4	12.8	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0
11.3	17.2	0.0	0.1	0.0	7.7	2.6	0.0	24.7	1.9	0.6	0.0
18.9	3.2	0.0	0.1	0.0	1.0	0.0	0.0	29.4	1.4	11.8	0.0
0.0	17.1	0.0	0.0	0.0	0.1	0.0	0.0	1.0	28.6	14.2	0.1

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

## ANEXO 8 – Necessidades Hídricas das Culturas

### ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.0	26.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.3	0.1
0.0	4.8	0.0	0.0	0.0	0.0	0.0	0.0	4.9	0.0	30.7	0.0
0.1	36.6	0.0	0.1	0.0	0.0	0.0	0.0	17.6	1.2	10.9	0.1
8.1	6.2	0.0	0.0	0.0	0.0	0.0	0.5	0.2	51.5	1.2	3.3
4.3	19.6	0.0	0.0	0.0	0.0	0.0	0.0	13.5	21.3	22.5	21.4
7.4	16.1	0.0	0.0	0.0	0.0	0.0	0.0	26.8	4.3	12.8	2.7
5.5	0.7	0.0	0.0	0.0	0.0	0.0	0.0	9.9	13.2	4.9	0.0
1.1	0.0	0.0	0.0	0.8	0.0	0.0	0.0	15.9	1.2	0.2	5.0
28.7	1.5	0.0	0.1	0.0	0.0	0.0	0.0	27.0	0.8	0.0	0.0
7.1	0.3	0.0	0.1	0.0	0.0	0.1	0.0	8.6	1.0	5.4	0.1
4.8	0.0	0.0	0.0	0.1	0.0	5.4	0.0	9.6	0.0	48.5	0.1
0.6	3.1	0.9	4.2	25.1	0.0	0.7	0.0	4.0	0.0	2.6	0.1
10.2	0.4	7.3	0.0	21.3	0.3	0.0	0.0	2.7	0.0	0.0	0.0
2.0	0.0	0.2	0.4	15.3	11.6	0.0	0.0	9.1	0.0	1.4	0.0
0.0	7.7	0.0	6.2	1.2	3.1	0.0	0.0	9.2	0.0	7.4	0.0
0.0	4.9	4.7	3.9	0.2	0.1	0.0	0.0	0.2	0.0	0.1	0.0
0.2	2.6	7.8	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.3	0.0
1.6	0.7	4.5	8.9	0.0	0.0	0.0	0.0	0.0	0.0	12.6	0.0
3.3	1.0	4.2	0.1	1.4	0.0	0.0	0.0	3.7	0.0	16.0	0.1
6.1	0.5	5.2	0.0	0.6	1.7	0.0	0.0	0.2	0.0	8.9	5.0
13.2	-77.0	0.0	0.0	1.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0
1.7	-77.0	11.3	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0
3.8	-77.0	32.2	-77.0	0.0	-77.0	0.0	0.0	-77.0	0.0	-77.0	0.0
<b>Jan_2015</b>	<b>Feb_2015</b>	<b>Mar_2015</b>	<b>Apr_2015</b>	<b>May_2015</b>	<b>Jun_2015</b>	<b>Jul_2015</b>	<b>Aug_2015</b>	<b>Sep_2015</b>	<b>Oct_2015</b>	<b>Nov_2015</b>	<b>Dec_2015</b>
0.0	1.1	0.4	0.0	2.8	0.0	0.0	0.0	0.0	0.0	4.1	0.0
0.0	12.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.8	0.0
0.0	4.0	0.0	0.0	6.5	0.0	0.0	0.0	0.0	3.6	10.9	0.0
0.0	0.2	0.0	0.0	32.3	0.0	0.0	0.0	0.0	7.2	17.0	0.0
0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	19.2	3.8	0.0
0.0	0.9	0.0	0.1	0.0	0.0	0.0	0.0	0.0	5.9	0.8	0.0
0.0	0.0	0.0	3.0	0.0	0.4	0.0	0.0	0.0	0.2	0.0	1.0
0.0	0.0	0.0	1.8	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
0.0	0.0	0.0	1.5	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.1
0.0	0.0	0.0	2.3	0.1	0.0	0.0	0.0	0.1	12.6	0.0	0.0
0.0	5.3	0.0	0.1	0.0	2.8	0.0	0.0	0.0	10.2	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	24.2	0.1	0.0
1.0	2.8	0.0	0.1	0.0	3.9	0.0	0.0	10.3	12.1	0.1	5.8
0.1	13.8	0.0	0.0	0.0	3.8	0.0	0.0	0.9	0.0	0.0	11.6
19.3	1.2	0.0	5.7	0.0	0.0	0.0	0.0	22.1	0.0	0.0	5.8
13.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.4	0.0	0.0	0.0
17.7	0.0	8.5	0.0	0.0	0.0	0.2	0.0	0.7	9.5	0.3	0.0
11.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.2	6.8	0.1	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	12.8
6.2	5.3	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

4.6	2.7	0.7	0.0	0.0	0.0	0.1	0.0	0.0	0.0	2.6	0.2
3.1	0.5	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	0.0
0.3	4.2	0.8	0.0	0.0	0.0	0.0	2.1	0.0	0.0	0.2	0.0
0.0	2.1	0.9	7.1	0.0	0.0	0.0	0.1	0.0	7.3	0.0	3.0
0.0	0.0	0.0	16.8	0.0	0.0	0.0	0.0	0.0	2.8	0.0	0.0
0.0	0.0	0.4	12.7	0.0	0.0	0.0	0.0	0.1	9.3	0.1	0.0
0.0	0.2	0.0	6.4	0.0	0.0	0.0	0.0	0.1	7.5	0.1	0.0
0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	0.0	34.2
9.1	-77.0	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.4	0.0	21.6
23.8	-77.0	0.0	0.0	0.0	0.0	0.9	0.0	0.1	0.1	0.0	8.9
21.4	-77.0	0.0	-77.0	0.0	-77.0	0.0	0.3	-77.0	5.8	-77.0	0.3
Jan_2016	Feb_2016	Mar_2016	Apr_2016	May_2016	Jun_2016	Jul_2016	Aug_2016	Sep_2016	Oct_2016	Nov_2016	Dec_2016
20.7	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2
0.5	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
21.9	0.0	0.0	12.1	0.0	0.1	0.0	0.1	0.0	0.0	0.0	41.2
42.2	0.0	5.3	16.8	0.0	0.1	0.0	0.1	0.0	0.0	0.3	0.3
11.2	0.0	1.5	0.0	32.1	0.0	0.7	0.0	0.0	0.0	11.5	0.0
15.8	17.6	1.3	0.0	12.6	0.0	1.3	0.0	0.0	0.0	5.8	0.0
16.9	3.8	6.5	0.0	15.3	0.0	1.0	0.0	0.0	0.0	0.0	0.0
20.0	1.5	0.0	0.0	18.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10.5	13.4	3.5	0.4	20.9	0.0	0.0	0.0	0.0	0.0	11.2	0.0
43.9	31.2	0.0	15.2	22.1	0.7	0.0	0.0	0.0	0.0	0.0	0.0
16.1	18.2	0.0	3.3	16.1	0.0	0.0	0.0	0.0	11.9	1.1	0.0
2.1	62.6	0.0	5.5	4.3	0.1	0.0	0.0	0.0	5.9	2.2	0.0
0.0	48.7	0.0	2.1	2.8	0.2	0.0	0.0	1.1	2.7	0.1	0.0
19.2	17.8	0.0	43.6	0.5	0.3	0.0	0.0	2.2	0.0	0.1	12.2
0.0	13.4	4.5	20.4	0.0	10.4	0.0	0.0	0.8	0.3	0.0	17.7
0.0	0.0	0.0	8.8	0.0	4.6	0.0	0.0	0.0	0.8	0.0	7.0
0.9	6.4	0.0	4.0	0.0	0.0	0.0	0.0	0.0	8.8	0.0	0.2
1.9	0.5	10.2	0.1	0.0	0.0	0.0	0.0	0.0	4.4	0.0	0.0
14.0	0.0	19.9	9.8	0.0	0.0	0.0	1.5	0.0	0.0	7.0	0.0
3.8	0.0	28.8	1.7	0.1	0.0	0.0	0.2	0.0	0.0	47.5	0.0
11.2	0.0	14.5	2.9	0.0	0.0	0.0	0.1	0.0	0.6	16.6	0.0
2.0	0.0	0.2	0.0	4.2	0.0	0.0	0.0	0.1	8.6	0.3	0.0
0.0	0.0	0.1	0.0	3.1	0.0	0.0	0.0	0.0	3.0	0.2	0.3
0.1	9.6	0.0	0.0	2.0	0.1	0.0	0.0	0.0	3.8	23.7	0.2
19.6	0.6	0.0	0.0	0.9	0.0	0.0	0.0	0.8	0.5	22.2	0.1
0.3	34.2	11.2	0.0	0.0	0.0	0.0	7.1	0.0	0.3	4.3	0.0
0.0	16.3	0.3	0.0	0.3	0.0	0.0	0.0	0.0	0.0	2.4	0.0
9.0	0.9	3.3	0.0	11.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	2.2	0.0	0.0	0.1	0.0	0.0	0.0	0.0
0.0	-77.0	12.9	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	-77.0	6.5	-77.0	0.0	-77.0	0.0	0.0	-77.0	0.0	-77.0	0.0
Jan_2017	Feb_2017	Mar_2017	Apr_2017	May_2017	Jun_2017	Jul_2017	Aug_2017	Sep_2017	Oct_2017	Nov_2017	Dec_2017

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

## ANEXO 8 – Necessidades Hídricas das Culturas

### ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

2.5	4.5	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.9	12.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23.8	0.0
20.2	6.1	25.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.1	0.0
0.2	8.0	3.7	0.0	0.0	0.0	0.0	0.1	0.6	0.0	18.3	0.0
0.3	3.2	7.6	0.0	19.0	0.6	0.0	0.1	0.0	0.0	0.0	0.0
0.0	0.0	3.8	0.0	0.0	0.4	0.7	0.0	0.0	0.0	0.0	0.0
0.0	11.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.1	0.1	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	2.3
0.0	13.4	0.0	0.0	1.0	0.0	0.1	0.0	0.1	0.0	0.0	2.7
0.0	3.9	0.0	0.0	18.9	0.0	0.0	0.0	0.0	0.0	0.0	28.8
0.0	0.2	0.0	0.0	14.4	0.0	0.0	0.0	0.0	0.0	0.0	10.3
0.2	20.6	0.0	0.0	8.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	9.6	0.0	0.0	2.5	0.0	0.0	0.0	0.1	0.1	0.4	1.9
0.0	9.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.6
0.0	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.8
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.2	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.3	0.0	0.0
0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	1.5	5.1	0.0	0.0
0.0	0.2	0.0	1.4	0.0	0.0	0.2	0.0	0.0	2.3	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	6.4	0.0	0.0
0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0
0.0	0.0	13.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0
0.0	0.0	8.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.9	0.0
0.0	0.0	12.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.5
8.7	0.1	9.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.1
17.4	0.0	23.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	16.5
10.9	3.4	3.3	0.0	0.0	0.0	0.0	3.1	0.0	0.0	2.3	14.6
0.6	0.8	0.1	0.0	4.9	0.0	0.0	3.6	0.0	0.0	9.2	14.2
16.6	-77.0	0.0	0.7	0.1	0.0	0.0	1.3	0.0	0.0	0.1	7.3
0.0	-77.0	0.5	10.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
5.8	-77.0	0.4	-77.0	0.0	-77.0	0.6	0.0	-77.0	0.0	-77.0	7.1
<b>Jan_2018</b>	<b>Feb_2018</b>	<b>Mar_2018</b>	<b>Apr_2018</b>	<b>May_2018</b>	<b>Jun_2018</b>	<b>Jul_2018</b>	<b>Aug_2018</b>	<b>Sep_2018</b>	<b>Oct_2018</b>	<b>Nov_2018</b>	<b>Dec_2018</b>
0.1	0.0	36.0	0.0	3.1	0.0	1.3	0.0	0.0	0.0	1.8	0.1
0.5	0.0	14.6	4.4	0.1	0.0	0.1	0.0	0.0	0.0	1.7	0.0
2.9	2.1	10.0	18.4	0.1	0.7	0.0	0.0	0.2	0.0	0.0	0.0
1.2	1.2	9.6	6.4	0.0	4.4	0.1	0.0	0.0	0.0	14.7	0.0
15.5	0.0	17.4	0.1	0.0	4.6	0.0	0.0	0.0	0.0	14.0	0.0
1.3	0.0	4.3	24.6	0.0	1.4	0.0	0.0	0.0	0.0	6.0	0.0
0.2	0.0	3.3	9.4	0.1	8.6	0.0	0.0	0.3	0.0	6.4	0.2
0.2	0.0	5.9	18.4	0.0	4.3	0.0	0.0	0.0	0.0	5.8	0.1
12.7	3.7	43.5	5.1	0.2	4.3	0.0	0.1	0.0	0.0	1.3	0.1
12.4	3.2	6.3	25.4	0.0	7.2	0.0	0.0	0.0	0.0	19.0	0.0
1.4	2.7	22.3	3.5	0.0	0.3	0.0	0.0	0.0	1.9	48.4	0.0
0.0	0.1	4.9	18.0	0.4	1.0	0.0	0.0	0.0	0.0	0.2	3.8

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

18.1	4.2	0.4	9.1	0.0	0.0	0.1	0.2	0.0	5.4	0.3	16.9
4.9	3.8	31.9	0.1	0.0	0.0	0.0	0.0	0.0	2.5	0.0	0.0
0.1	2.1	22.9	6.2	0.0	0.0	1.2	0.0	0.0	13.6	0.0	0.9
0.2	0.1	8.3	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	7.8
0.3	0.0	18.2	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.1
0.2	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	19.0	12.6
0.0	0.0	10.6	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.6	2.7
0.3	0.0	0.5	0.0	0.0	13.0	0.0	0.0	0.0	2.3	10.0	0.8
0.7	0.0	0.0	0.0	0.0	18.6	0.0	0.0	0.0	7.3	11.0	0.2
0.0	0.0	0.0	0.0	0.0	4.8	0.0	0.0	0.0	0.0	0.1	0.0
0.0	0.0	17.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	0.1
0.3	0.0	8.8	0.0	28.3	0.0	0.0	0.0	0.0	0.0	13.3	0.0
16.8	0.0	2.3	0.0	0.1	0.0	0.0	0.0	0.0	0.0	19.0	0.0
8.4	0.2	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0
0.0	18.5	0.0	0.0	0.0	0.0	0.0	0.1	0.0	1.2	0.0	2.8
0.0	49.3	0.1	9.8	0.0	7.0	0.0	0.1	0.0	0.0	0.0	0.0
0.0	-77.0	6.5	11.7	0.0	2.2	0.0	0.0	0.0	5.6	23.4	0.0
0.0	-77.0	15.9	5.8	2.5	2.1	0.0	0.0	0.0	19.8	0.1	0.0
0.0	-77.0	0.7	-77.0	0.3	-77.0	0.0	0.0	-77.0	15.3	-77.0	0.0
Jan_2019	Feb_2019	Mar_2019	Apr_2019	May_2019	Jun_2019	Jul_2019	Aug_2019	Sep_2019	Oct_2019	Nov_2019	Dec_2019
0.0	16.9	0.0	2.3	0.0	0.0	0.0	0.0	0.0	0.0	2.2	8.8
0.0	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.3	0.0
0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	5.6	0.0
0.0	0.0	4.2	9.7	0.0	2.4	0.0	0.0	0.0	0.2	13.3	0.0
0.0	0.0	5.1	14.8	0.0	0.1	0.0	0.0	0.0	0.0	5.2	0.0
0.0	0.0	35.2	22.9	0.0	9.5	0.0	0.0	0.0	0.0	14.8	0.0
0.0	0.0	10.8	11.3	6.0	0.1	0.0	1.8	0.0	0.1	4.3	0.0
0.0	0.0	0.0	1.0	5.2	0.0	0.0	1.5	0.0	0.0	0.9	2.1
0.0	0.0	0.0	10.6	8.2	0.0	0.0	4.9	0.0	0.0	7.8	0.0
0.0	8.1	0.0	0.1	6.7	0.0	0.0	0.2	0.0	0.0	3.6	0.1
0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	4.9
0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	19.5
0.0	0.0	0.4	1.8	0.0	0.0	0.0	0.0	0.0	1.2	5.0	7.8
0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.4	39.7	21.0	0.8
0.0	0.0	0.0	3.9	0.0	0.0	0.0	0.0	0.0	0.0	1.4	7.8
1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	34.0
0.0	3.5	0.0	30.9	0.0	0.0	0.0	0.0	0.0	19.3	19.1	0.4
3.6	19.2	0.0	5.1	0.0	1.5	0.0	0.1	0.0	0.2	0.2	30.5
15.8	0.0	0.0	9.9	0.0	4.1	0.0	0.0	0.0	11.7	2.7	60.5
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	19.4	48.6
0.2	0.0	0.0	0.0	0.1	0.0	0.0	0.0	27.9	0.2	8.4	16.2
3.3	0.0	0.0	8.6	0.0	0.0	0.0	0.0	3.2	0.0	40.6	0.3
7.3	0.0	0.0	12.6	0.0	2.3	1.5	0.0	0.0	0.1	3.1	0.1
1.5	0.0	0.1	25.0	0.0	1.6	0.0	0.0	2.5	0.1	6.8	0.0

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.1	0.0	0.0	11.0	0.0	2.0	0.2	0.0	0.0	0.0	5.4	0.3
0.0	0.0	0.0	0.5	0.0	0.2	0.0	0.0	0.1	0.0	22.5	0.2
0.4	0.0	0.0	0.0	0.0	0.0	4.1	0.0	0.1	0.0	1.0	0.0
1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	1.4	0.8	0.0
3.0	-77.0	0.0	0.0	0.0	0.0	0.3	0.0	0.1	0.1	2.1	0.0
21.0	-77.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	12.2	9.8	0.0
24.1	-77.0	1.4	-77.0	0.0	-77.0	0.0	0.0	-77.0	9.7	-77.0	0.0
Jan_2020	Feb_2020	Mar_2020	Apr_2020	May_2020	Jun_2020	Jul_2020	Aug_2020	Sep_2020	Oct_2020	Nov_2020	Dec_2020
0.0	4.0	18.6	17.1	2.1	0.0	0.2	0.0	0.0	2.0	0.0	0.0
0.0	0.1	8.9	0.5	0.0	0.0	0.0	0.0	0.0	15.2	0.0	0.0
0.0	0.0	3.2	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	2.5
0.1	0.2	1.2	0.0	0.7	0.1	0.0	0.0	0.0	2.6	0.2	18.5
0.0	0.0	6.6	27.2	1.1	0.0	0.0	0.0	0.0	0.7	14.7	2.3
0.0	0.0	1.5	5.6	0.0	0.0	0.0	0.0	0.0	0.5	20.2	3.0
0.0	0.0	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	8.6	3.2
0.0	3.3	0.2	0.3	0.0	0.0	0.0	0.0	0.0	0.1	19.1	3.3
0.4	0.4	0.0	7.6	3.5	0.0	0.0	0.0	0.0	0.1	5.6	4.4
0.0	0.2	0.0	0.6	13.1	0.0	0.0	0.2	0.0	0.0	0.2	30.8
0.0	0.0	0.0	0.0	13.0	0.6	7.0	0.0	0.0	0.0	0.0	16.6
0.0	0.2	0.0	0.0	6.4	2.6	0.0	0.2	0.0	0.0	0.0	2.3
0.0	0.2	0.0	1.4	24.9	1.9	0.0	0.0	0.0	0.0	0.0	2.3
2.9	0.1	0.1	6.2	2.6	0.0	0.0	0.0	0.0	0.0	1.9	10.8
17.1	0.0	1.0	7.2	3.1	0.0	0.0	0.0	0.0	0.0	0.4	2.7
10.9	0.2	0.4	8.1	0.1	0.7	0.0	0.0	0.0	0.0	0.1	9.5
1.9	4.2	0.0	2.8	0.0	0.0	0.0	0.0	6.9	0.0	0.1	0.0
23.4	0.0	0.0	0.0	0.0	0.0	0.0	0.8	26.1	0.0	0.1	6.9
0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.2	42.3	0.0	5.8
0.0	0.0	19.1	18.6	0.0	0.0	0.0	13.2	3.4	39.4	0.0	0.0
0.0	0.0	0.0	0.1	0.0	0.0	3.4	0.1	0.0	13.8	0.0	0.0
0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.6	0.0	0.0
6.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.4	3.8	0.0	3.0
0.0	0.0	0.1	0.0	0.0	0.1	0.0	0.0	0.1	0.7	0.1	0.1
0.0	1.1	0.0	0.2	0.0	0.0	0.0	0.0	0.0	23.9	28.4	0.0
0.1	0.0	0.0	0.5	0.3	0.0	0.0	0.0	0.2	0.8	10.5	0.0
4.4	0.0	0.0	0.2	0.0	0.3	0.0	0.0	2.4	0.7	0.0	0.8
3.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1	3.5	9.4	8.6
0.7	5.1	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	2.7	5.9
3.9	-77.0	5.3	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1
14.6	-77.0	3.4	-77.0	0.0	-77.0	0.0	0.0	-77.0	0.0	-77.0	8.6

## 2.1.13 CEDILHO

Tabela 13. Precipitações diárias na região de cálculo de Cedilho (mm)

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

Jan_2003	Fev_2003	Mar_2003	Abr_2003	Mai_2003	Jun_2003	Jul_2003	Ago_2003	Set_2003	Out_2003	Nov_2003	Dez_2003
10.2	0.0	5.1	0.0	0.0	0.0	0.1	0.0	0.0	18.8	0.0	0.3
5.9	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	29.9	0.0	0.0
1.3	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	6.2	0.0	4.7
0.8	0.0	0.1	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.3
8.1	0.0	0.3	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	22.7
0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.3
12.4	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	8.7
7.3	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	1.3	23.9
4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	37.1	16.9
0.0	0.0	0.0	5.3	0.0	0.0	0.0	7.9	0.0	0.0	2.4	0.0
0.0	1.2	0.0	0.3	0.0	0.0	0.0	0.0	0.0	5.3	0.2	0.0
0.0	0.1	0.0	12.1	0.0	0.0	0.0	1.4	0.0	0.0	0.4	0.0
0.0	0.0	0.0	12.8	0.0	0.0	0.0	1.1	0.0	0.0	0.1	0.0
0.0	0.0	0.0	14.7	0.2	0.0	1.2	0.0	0.0	0.7	0.0	0.1
0.0	0.0	0.0	0.7	0.0	0.0	3.3	0.0	0.0	2.8	34.5	0.0
0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0
0.0	9.5	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	8.5
25.7	25.3	1.1	2.3	0.0	0.0	0.0	0.0	0.0	16.2	0.0	9.6
2.5	11.1	0.0	0.8	0.0	0.0	0.0	0.0	0.0	4.8	0.0	0.1
23.4	7.4	0.0	1.5	0.0	0.0	0.0	0.0	0.0	7.4	0.0	0.1
2.3	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	7.3	0.0
9.1	18.3	0.4	0.7	0.0	0.0	0.0	0.0	0.0	0.0	22.1	0.0
0.7	0.8	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0
0.0	20.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0
0.0	4.9	18.9	18.1	0.0	0.0	0.0	0.0	0.0	34.5	0.0	0.0
0.0	14.1	7.3	2.2	0.0	0.0	0.0	0.0	0.0	10.4	6.7	0.0
0.0	0.8	8.2	0.0	0.0	0.0	0.0	2.9	0.1	32.3	0.3	0.3
0.0	0.0	2.0	3.8	0.0	0.0	0.0	5.8	0.0	4.2	0.0	3.7
0.0	-77.0	11.1	1.2	0.0	2.5	0.0	0.0	0.9	2.3	1.2	0.1
0.0	-77.0	1.6	0.7	0.0	0.9	0.0	0.0	19.1	4.2	6.1	0.0
0.0	-77.0	0.0	-77.0	0.0	-77.0	0.0	1.7	-77.0	32.8	-77.0	0.2
Jan_2004	Feb_2004	Mar_2004	Apr_2004	May_2004	Jun_2004	Jul_2004	Aug_2004	Sep_2004	Oct_2004	Nov_2004	Dec_2004
0.1	9.3	0.0	8.9	4.0	0.0	0.0	0.0	1.9	0.0	0.6	23.8
0.0	0.5	0.0	2.5	0.5	0.0	0.0	0.0	4.0	0.0	9.9	0.1
0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0	1.3	0.0	9.8	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	0.0	0.1	0.0
0.0	0.0	3.2	0.0	2.2	0.0	0.0	0.0	0.0	0.0	0.1	0.0
0.0	0.0	0.9	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.8	0.0	0.0	0.0	0.0	0.0	0.0	6.1	0.0	9.7	0.0	0.0
0.5	0.0	0.0	0.0	3.8	0.1	0.0	0.2	0.0	3.6	0.0	0.0
0.0	0.0	0.3	0.0	3.3	0.0	0.0	0.0	0.0	0.4	0.0	0.1
0.0	0.0	7.0	0.0	0.6	0.0	0.0	0.3	0.0	0.7	0.0	0.0



Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.0	0.0	20.4	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0
0.1	0.0	6.5	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	5.3
0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
0.1	0.0	0.0	0.0	0.0	0.0	0.0	2.9	0.0	0.1	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0
0.0	0.0	0.0	1.5	0.0	0.0	0.0	3.0	0.0	26.5	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.6	0.0	0.1
0.0	0.5	0.0	0.4	0.1	0.0	0.0	0.0	0.0	15.1	0.0	0.0
0.0	1.0	0.0	11.2	0.6	0.0	0.0	0.0	0.0	5.6	0.0	0.0
0.0	14.0	0.0	0.6	0.9	0.0	0.0	0.0	0.0	0.2	0.0	0.0
0.0	16.6	0.0	0.0	8.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0
0.0	11.2	0.2	0.0	12.6	0.0	0.0	0.0	0.0	11.6	0.0	0.0
0.4	16.2	0.0	0.0	2.4	0.0	0.0	0.0	0.0	5.6	0.0	0.0
6.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1	0.0	0.0
10.5	0.2	0.5	0.0	0.0	0.0	0.0	0.0	0.0	46.3	0.0	0.0
0.1	0.1	0.8	0.1	0.0	0.0	0.0	0.0	0.0	23.6	2.4	0.0
1.5	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	4.4	0.7	0.0
12.9	-77.0	0.6	0.7	0.0	0.0	0.0	0.0	0.0	1.5	0.1	0.0
32.1	-77.0	6.9	-77.0	0.0	-77.0	0.0	0.0	-77.0	0.6	-77.0	0.0
Jan_2005	Feb_2005	Mar_2005	Apr_2005	May_2005	Jun_2005	Jul_2005	Aug_2005	Sep_2005	Oct_2005	Nov_2005	Dec_2005
0.0	0.0	0.0	3.6	0.5	0.0	0.0	0.0	0.0	0.0	0.2	17.6
0.0	0.0	0.2	9.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.3
0.0	0.0	0.0	5.8	0.0	0.0	0.0	0.0	0.0	0.0	34.1	0.3
0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.4
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	1.8	0.0	0.0	0.2
0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	0.0	0.0	3.9	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	0.4	0.2	1.4	0.0
0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.2	0.0	22.2	0.0	0.0
0.0	0.0	0.0	0.0	4.2	0.0	0.0	0.0	0.0	13.4	0.0	0.0
0.0	0.0	0.0	0.0	11.7	0.0	0.0	0.0	0.0	8.9	0.0	0.0
0.9	0.0	0.1	0.0	2.0	0.0	0.0	0.0	0.0	0.1	1.9	0.0
0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0
0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0
0.0	0.0	0.0	0.0	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	3.4	0.0	0.0
0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.1	9.1	0.0
0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	3.9	28.2	0.0
0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	11.0	17.6	0.0
0.0	0.0	10.4	0.0	0.0	0.0	0.0	0.0	0.0	11.5	3.2	0.0
0.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.7	0.2	0.0
0.0	8.5	1.5	3.4	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.0	0.2	0.1	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	12.8	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.4	4.6
0.0	0.0	12.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	29.3
0.0	0.1	0.5	0.0	0.0	0.0	4.8	0.0	0.0	38.2	0.3	1.7
0.0	0.0	12.5	0.0	0.0	0.0	3.0	0.0	0.0	22.1	0.6	0.1
0.0	-77.0	2.7	0.0	0.0	0.0	0.0	0.0	0.0	14.1	0.1	0.0
0.0	-77.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	36.1	0.0	0.1
0.0	-77.0	0.0	-77.0	0.4	-77.0	0.0	0.0	-77.0	11.3	-77.0	0.1
Jan_2006	Feb_2006	Mar_2006	Apr_2006	May_2006	Jun_2006	Jul_2006	Aug_2006	Sep_2006	Oct_2006	Nov_2006	Dec_2006
0.2	0.6	0.0	0.0	0.0	0.9	0.0	0.0	0.2	0.0	0.0	0.0
0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	4.6	8.6
0.0	12.1	11.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.0	1.4
0.0	0.0	27.6	0.2	0.0	0.0	0.0	0.0	0.0	0.6	21.2	1.4
0.3	0.0	0.0	10.6	0.0	0.0	0.0	0.0	0.0	0.0	111.8	4.4
2.0	0.0	0.0	11.6	0.0	0.0	0.5	0.0	0.7	0.0	20.2	0.2
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	11.1
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	6.4
0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
0.0	1.3	0.0	0.0	0.1	0.0	0.0	0.0	0.0	4.5	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	9.6	0.0	0.0
0.0	0.0	0.0	0.0	0.0	1.3	3.1	0.0	0.0	0.0	0.0	0.0
0.1	0.0	0.0	2.6	0.0	0.6	0.7	0.0	9.3	0.0	0.0	0.0
4.2	0.0	0.0	12.9	0.0	11.5	4.6	0.0	3.0	0.0	12.6	0.0
21.0	0.1	0.0	2.8	0.0	0.0	0.0	0.0	0.0	0.0	35.7	0.0
0.1	1.4	0.0	0.0	0.0	21.1	0.0	2.9	0.0	13.3	22.7	0.0
0.0	2.2	28.7	0.0	0.0	0.7	0.0	1.4	0.0	8.4	11.1	0.0
0.0	17.1	16.0	0.0	0.0	0.1	0.6	10.8	0.0	19.2	6.8	0.0
0.0	8.8	6.6	0.0	0.0	0.0	0.5	0.4	0.0	6.1	0.0	0.0
0.0	2.5	7.1	1.0	0.0	0.0	0.3	0.0	0.0	32.6	0.0	0.0
0.0	0.0	1.2	2.3	0.0	0.0	0.0	0.0	25.0	0.2	0.3	0.0
0.0	0.0	12.4	7.7	0.0	0.0	0.0	0.0	0.5	53.5	0.3	0.0
0.0	0.0	30.1	2.8	0.0	0.0	0.0	0.0	16.4	41.6	12.0	0.0
0.0	0.0	14.1	0.0	0.0	0.0	0.0	0.0	3.2	23.9	14.7	0.0
0.0	14.7	0.9	0.0	0.0	0.0	0.0	0.0	1.4	26.9	2.3	0.0
0.0	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.1	0.7	0.0
0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	0.0
1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	10.8	0.0
0.0	-77.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	0.0	0.0	0.5
0.1	-77.0	0.0	0.0	0.0	0.0	0.0	0.0	6.7	0.0	0.0	3.5
0.0	-77.0	0.0	-77.0	0.0	-77.0	0.0	0.0	-77.0	0.1	-77.0	0.1
Jan_2007	Feb_2007	Mar_2007	Apr_2007	May_2007	Jun_2007	Jul_2007	Aug_2007	Sep_2007	Oct_2007	Nov_2007	Dec_2007
0.0	0.0	0.0	0.0	25.2	0.0	0.0	0.0	0.0	1.3	0.0	0.1
0.1	0.0	0.0	6.9	10.6	0.0	0.0	0.0	0.0	9.0	0.0	0.0
0.2	1.2	0.0	4.7	1.2	0.0	0.0	0.0	0.0	4.0	0.0	0.0

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

## ANEXO 8 – Necessidades Hídricas das Culturas

### ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.1	0.6	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	1.9	2.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	8.4	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	27.1	0.0	1.5	0.0	1.8	0.0	0.0	0.0	0.0	0.0	0.0
0.1	1.5	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
0.0	0.1	0.0	1.9	0.0	2.0	0.0	0.0	0.6	0.0	0.0	0.1
0.0	6.0	0.0	5.0	0.0	0.0	0.0	0.0	1.2	0.0	0.0	0.0
0.0	9.1	0.0	2.9	0.4	0.0	0.0	0.0	1.6	0.0	0.0	0.0
0.0	2.9	0.0	2.3	0.4	0.0	0.0	0.0	0.8	0.0	0.0	0.0
0.0	5.5	0.0	0.0	0.0	19.9	0.0	0.0	5.4	0.0	0.0	0.0
0.5	0.0	0.0	0.0	0.0	2.5	0.0	1.3	0.0	0.0	0.0	0.0
0.2	7.6	0.0	0.0	0.0	11.8	0.3	0.0	5.4	1.6	0.0	0.0
0.1	1.3	0.0	0.3	0.0	11.4	0.0	0.0	0.0	0.7	0.0	0.0
0.1	0.0	0.0	0.0	0.0	5.4	0.0	0.0	2.3	0.0	0.0	7.2
0.1	6.6	0.0	0.1	0.0	7.7	0.0	0.0	0.0	0.0	45.9	11.7
0.0	2.7	0.0	10.9	0.2	0.1	0.0	0.0	2.7	0.0	33.8	0.6
0.0	0.6	0.0	4.7	0.0	0.0	0.0	0.0	2.4	0.0	2.0	0.2
1.8	6.6	0.0	0.0	4.7	0.0	0.0	0.0	0.0	0.0	2.1	0.0
0.3	0.3	0.0	0.0	6.5	0.0	0.3	0.0	0.0	0.0	0.0	0.0
0.0	0.2	0.0	0.0	3.3	0.0	0.0	0.0	0.0	0.3	0.0	0.0
1.1	1.0	0.0	4.8	0.7	0.0	0.0	0.7	0.0	0.6	0.0	3.6
0.0	0.3	7.6	1.7	0.6	0.0	0.0	1.7	0.0	0.0	0.0	0.4
0.0	0.0	0.0	1.1	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.8	1.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.0	-77.0	0.0	0.0	0.0	0.0	0.0	0.0	6.9	0.0	0.0	0.0
3.7	-77.0	1.6	0.8	0.0	0.0	0.0	0.0	83.7	0.0	0.0	0.0
0.3	-77.0	6.6	-77.0	0.0	-77.0	0.0	0.0	-77.0	0.0	-77.0	0.0
Jan_2008	Feb_2008	Mar_2008	Apr_2008	May_2008	Jun_2008	Jul_2008	Aug_2008	Sep_2008	Oct_2008	Nov_2008	Dec_2008
9.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2
7.5	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35.7	14.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	6.5
0.1	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.6	1.1
2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.4	0.0	0.0	1.5
0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	4.0
0.0	0.0	0.0	13.1	3.3	0.0	0.0	0.0	0.0	9.2	4.9	15.3
1.4	0.0	0.0	18.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
4.1	0.0	0.2	16.3	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.3
6.1	0.0	6.9	9.6	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.6	0.0	0.0	1.9	0.9	0.0	1.0	0.0	0.0	3.6	1.3	0.9
0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	4.6	0.0	1.7
12.1	0.0	0.0	0.3	0.1	0.0	0.0	0.0	0.0	0.2	0.0	10.6
1.8	0.0	0.0	0.0	2.4	0.0	0.0	0.0	0.0	0.0	0.0	2.9
4.9	0.0	0.0	0.0	10.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

## ANEXO 8 – Necessidades Hídricas das Culturas

### ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.3	0.0	0.0	6.9	0.2	4.3	0.0	0.1	0.0	0.0	0.0	0.0
0.1	14.9	1.7	29.8	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0
0.1	44.4	2.5	8.7	1.4	0.0	0.0	0.0	0.0	1.0	0.0	0.0
0.0	1.1	3.9	23.8	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	1.2	1.6	15.0	0.7	0.0	0.0	0.0	0.3	0.0	0.0	0.0
0.0	0.1	0.0	2.0	0.0	0.0	0.0	0.0	9.1	2.7	0.0	0.0
0.0	0.0	1.8	0.0	10.0	0.0	0.0	0.0	0.4	0.4	0.0	0.0
0.0	6.3	0.0	0.0	9.4	0.0	0.0	0.0	0.7	0.7	0.0	0.0
0.0	14.0	0.0	0.0	5.1	0.0	0.0	0.0	0.0	0.0	0.2	0.0
0.0	0.1	0.0	0.0	4.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.2	2.7	0.0	4.7	0.0	0.0	0.0	0.0	2.0	0.0	21.9
0.0	0.1	0.0	0.0	3.3	0.0	0.0	0.0	0.4	0.7	11.6	5.0
0.0	0.0	0.0	0.1	5.7	0.0	0.0	0.0	1.1	0.0	10.3	4.6
0.0	-77.0	0.6	0.0	0.2	0.0	0.0	0.0	0.0	6.5	0.6	0.0
0.0	-77.0	0.1	-77.0	1.9	-77.0	0.0	0.0	-77.0	16.5	-77.0	8.5
Jan_2009	Feb_2009	Mar_2009	Apr_2009	May_2009	Jun_2009	Jul_2009	Aug_2009	Sep_2009	Oct_2009	Nov_2009	Dec_2009
7.2	45.7	1.2	0.0	0.0	0.0	0.0	1.0	0.9	0.0	0.2	2.9
7.7	0.9	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.1
1.3	10.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
0.0	12.4	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.1
0.0	5.5	1.5	0.0	0.0	5.2	0.0	0.0	0.0	0.2	0.0	1.9
0.0	0.3	0.1	0.0	0.0	7.6	0.0	0.0	0.0	2.4	0.3	5.9
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	0.0	12.3
0.0	0.3	0.0	0.0	0.0	3.0	0.0	0.0	0.0	1.4	0.0	0.0
0.1	6.7	0.0	0.3	2.1	0.0	0.0	0.0	1.5	0.0	0.0	0.0
0.1	0.4	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
0.0	0.0	0.0	0.0	9.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
6.5	0.0	0.0	0.3	0.0	0.0	0.0	1.8	0.3	0.0	0.3	0.0
0.1	0.0	0.0	7.0	0.0	1.3	0.0	0.9	0.0	0.0	8.8	0.0
22.7	0.0	0.0	6.9	0.0	0.3	0.0	1.7	0.0	0.0	7.0	0.7
1.7	0.0	0.0	11.8	0.0	2.7	0.0	0.0	0.0	0.0	13.2	12.1
0.0	0.0	0.0	5.6	0.2	0.0	0.0	0.0	0.2	0.0	8.6	0.2
2.0	0.0	0.0	7.5	0.0	0.0	0.0	0.0	5.5	0.0	0.0	2.6
7.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
5.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.7	0.1	11.7
3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31.4	9.0	21.0
8.8	0.0	0.0	0.0	0.0	0.0	2.1	0.0	0.0	1.7	0.1	14.0
3.1	0.0	0.0	0.0	1.7	0.0	0.8	0.0	0.0	0.0	0.0	16.7
0.6	0.0	0.0	0.0	5.6	0.0	0.0	0.0	0.0	0.0	0.0	7.5
12.4	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	4.8	20.4
6.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	1.2
0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.2	6.2

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

3.9	1.2	0.0	0.0	0.0	7.7	0.0	0.0	0.0	0.0	1.2	33.4
4.9	-77.0	0.0	0.0	0.0	0.5	0.0	0.0	0.6	0.0	16.0	42.0
12.4	-77.0	0.0	1.6	0.0	0.0	0.0	0.0	0.5	0.0	0.0	21.7
10.6	-77.0	0.0	-77.0	0.0	-77.0	0.0	0.0	-77.0	0.0	-77.0	12.9
Jan_2010	Feb_2010	Mar_2010	Apr_2010	May_2010	Jun_2010	Jul_2010	Aug_2010	Sep_2010	Oct_2010	Nov_2010	Dec_2010
2.4	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3
1.1	0.0	23.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.6
27.3	3.3	9.6	1.1	0.0	0.0	0.7	0.0	0.0	23.7	0.0	1.1
23.4	9.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.1
0.1	0.5	29.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	44.0
1.9	0.0	10.3	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.0	27.5
0.0	3.1	6.3	0.0	5.7	0.0	0.0	0.0	0.5	0.3	0.0	15.5
0.0	6.5	6.8	0.0	18.4	5.0	0.0	0.0	0.0	45.4	1.9	22.7
0.0	0.0	0.2	0.0	12.0	11.7	0.0	0.0	0.0	4.6	2.1	13.6
1.7	9.6	0.0	0.0	0.0	3.2	0.0	0.0	0.0	2.7	0.0	0.1
4.3	0.5	0.0	0.0	1.8	0.7	0.0	0.0	0.0	0.1	0.0	0.0
32.9	0.0	0.0	0.1	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.1
16.9	0.0	0.0	7.8	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1
3.4	0.1	0.0	19.2	0.0	0.0	0.0	0.0	0.0	0.0	14.7	0.0
3.5	19.4	0.0	6.5	0.0	0.0	0.0	0.1	0.2	0.0	0.0	0.0
8.3	13.5	0.0	4.8	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0
0.3	6.8	0.0	19.6	0.0	0.0	0.0	0.0	3.7	0.0	16.8	0.0
2.4	0.3	0.0	19.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6
1.2	0.0	6.6	0.2	0.0	0.0	0.0	0.0	0.0	0.0	12.0	0.1
0.9	4.9	1.8	0.0	0.0	0.0	0.0	0.0	2.4	0.0	4.6	36.8
0.0	37.3	0.6	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.8	28.8
0.0	27.9	0.0	4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.6
0.0	15.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	2.7
0.1	2.7	5.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0
0.0	17.9	8.0	0.0	1.2	8.0	0.0	0.0	0.0	0.0	0.0	1.8
1.3	3.5	0.6	0.0	0.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0
0.0	25.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	10.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
0.0	-77.0	8.6	0.0	0.0	0.0	0.0	0.0	0.0	27.8	10.2	8.6
0.0	-77.0	0.3	0.0	0.0	1.6	0.0	0.0	0.0	15.4	8.4	26.3
0.0	-77.0	0.2	-77.0	0.0	-77.0	0.0	2.2	-77.0	11.4	-77.0	20.8
Jan_2011	Feb_2011	Mar_2011	Apr_2011	May_2011	Jun_2011	Jul_2011	Aug_2011	Sep_2011	Oct_2011	Nov_2011	Dec_2011
0.6	0.0	0.0	0.0	1.6	0.0	0.0	2.9	29.2	0.0	6.4	0.1
0.1	0.0	0.0	0.0	0.4	0.0	0.0	0.0	2.1	0.0	35.5	1.3
0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.8	0.0
2.7	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.5	0.0	4.9	0.0
7.6	0.0	4.3	0.0	0.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0
38.2	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.1	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

## ANEXO 8 – Necessidades Hídricas das Culturas

### ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

10.3	0.0	6.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.3	0.2
1.8	0.0	7.7	0.0	0.0	0.6	0.0	0.0	0.0	0.0	55.3	0.2
7.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.5	10.8
1.3	0.0	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	2.1
0.0	0.0	6.2	0.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0	1.3
0.1	12.8	15.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.8
0.1	9.5	20.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.0	2.5
0.3	7.3	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9	0.0
0.1	16.5	0.0	0.0	11.3	0.0	0.0	0.0	0.0	0.0	2.0	3.0
0.6	8.3	0.0	0.0	10.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	2.2	0.0	1.3	13.9	0.0	0.0	0.0	0.0	0.0	3.3	0.0
0.2	32.1	0.0	15.6	0.0	0.0	0.0	0.0	0.0	0.0	14.8	0.0
0.0	0.6	0.0	16.7	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0
0.0	0.0	0.0	38.7	0.0	0.0	0.0	6.2	0.0	0.0	0.0	0.0
0.0	0.0	0.0	2.8	0.0	0.0	0.0	0.3	0.0	0.6	9.1	0.0
0.0	0.0	0.0	3.0	1.2	0.0	0.0	0.0	0.0	21.8	0.0	0.0
0.0	0.0	3.1	0.0	0.0	0.0	0.0	0.0	0.0	40.4	0.0	0.0
0.0	0.0	5.9	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.0	0.0
0.0	0.0	6.9	0.0	0.4	0.0	0.0	0.0	0.0	38.6	0.0	0.0
1.6	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	5.7	0.0	0.0
6.7	0.0	2.9	1.3	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	-77.0	0.3	21.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	-77.0	0.0	10.4	6.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	-77.0	0.0	-77.0	0.0	-77.0	0.0	0.7	-77.0	0.0	-77.0	0.0
Jan_2012	Feb_2012	Mar_2012	Apr_2012	May_2012	Jun_2012	Jul_2012	Aug_2012	Sep_2012	Oct_2012	Nov_2012	Dec_2012
0.0	0.0	0.0	1.7	5.7	0.0	0.0	0.0	0.0	0.0	0.4	0.0
0.5	0.0	0.0	1.7	12.2	0.1	0.0	0.0	0.0	0.0	5.2	0.0
0.0	0.0	0.2	0.0	26.2	0.0	0.0	0.0	0.0	0.0	12.6	0.0
0.0	0.0	0.3	0.0	4.2	0.0	0.0	0.0	0.0	0.0	19.9	0.2
0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	2.5	1.4	0.1	0.0	0.0	0.0	0.0	0.0	15.2
0.0	0.0	0.0	0.1	21.2	0.6	0.0	0.0	1.7	0.0	25.1	9.3
0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	26.2	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	0.0
0.0	0.0	0.0	1.3	0.0	0.2	0.0	0.0	0.0	0.0	0.8	0.0
0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	3.8	0.1	0.0
0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4
0.1	0.0	0.0	10.3	0.0	0.0	0.0	0.1	0.0	0.1	0.0	39.9
5.2	0.0	0.0	0.0	0.0	0.0	0.0	9.6	0.0	0.0	10.4	1.8
0.1	0.0	0.9	0.1	0.0	0.0	0.0	0.1	0.0	0.0	22.0	2.2
0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	29.5	51.3	3.1
0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	16.7	0.0	0.6
0.0	0.0	0.0	1.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.9

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.0	0.0	0.0	0.7	2.6	0.0	0.0	0.0	0.0	0.2	2.9	2.1
0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1	2.0	0.5
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6	0.5	0.1
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.1	0.1	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	17.6	24.8	0.3
0.0	0.0	0.0	10.2	0.0	0.0	0.0	0.6	8.1	27.7	6.3	1.7
0.3	0.0	0.3	6.0	0.0	0.0	0.5	0.0	0.8	12.1	0.0	0.0
0.0	0.0	0.0	5.8	0.0	0.0	0.0	0.0	5.6	0.0	0.0	0.0
0.0	0.0	0.0	2.6	0.0	0.0	0.0	0.0	14.1	0.3	0.0	0.0
0.0	0.0	0.0	5.6	0.0	0.0	0.0	0.0	0.1	4.0	0.2	3.9
0.0	-77.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	11.5	0.6	0.0
0.0	-77.0	0.3	-77.0	0.0	-77.0	0.0	0.0	-77.0	0.0	-77.0	13.1
Jan_2013	Feb_2013	Mar_2013	Apr_2013	May_2013	Jun_2013	Jul_2013	Aug_2013	Sep_2013	Oct_2013	Nov_2013	Dec_2013
0.6	1.3	0.0	5.2	0.0	0.0	0.0	0.0	0.0	8.1	0.0	0.0
0.0	0.3	0.0	1.5	0.1	0.0	0.0	0.0	0.0	9.8	0.0	0.0
0.0	0.0	1.2	12.6	0.1	0.0	0.0	0.0	0.0	5.8	0.0	0.0
0.0	0.0	9.9	10.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	10.7	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0
0.0	0.0	9.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.1	0.0	21.6	0.1	0.0	5.2	0.0	0.0	0.5	0.0	0.0	0.0
0.0	0.0	22.4	0.1	0.0	0.4	0.0	0.0	0.0	0.0	0.6	0.0
6.1	0.0	17.4	1.4	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
6.3	1.1	15.1	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.4	1.5	4.6	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.1	0.0	0.7	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2
0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0
0.3	0.0	0.0	0.0	2.9	0.0	0.0	0.0	0.0	0.0	0.5	0.0
10.1	0.0	4.0	0.0	1.9	0.0	0.0	0.0	0.0	0.0	0.2	0.0
1.5	11.9	10.8	0.0	8.3	1.5	0.0	0.0	0.0	0.0	0.2	1.5
11.8	0.3	0.0	0.0	0.5	3.7	0.0	0.0	0.0	2.4	0.0	1.1
26.3	12.9	7.7	0.0	1.6	0.0	0.0	0.0	0.0	0.9	0.0	11.4
9.8	0.3	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0
0.2	14.3	0.0	0.0	0.3	0.0	0.0	0.0	0.0	1.6	0.0	0.0
20.4	16.2	11.5	0.0	0.2	0.0	0.0	0.0	0.0	20.2	1.4	0.2
3.3	0.2	6.6	0.0	0.0	0.0	0.0	0.0	0.0	21.0	0.0	5.5
0.2	0.0	2.3	0.0	0.0	0.0	0.0	0.0	0.0	56.2	0.0	47.5
10.4	0.0	8.4	0.0	0.0	0.0	0.0	0.0	0.0	10.7	0.0	13.7
0.1	0.0	16.4	7.3	0.0	0.0	0.0	0.0	0.3	0.2	0.0	0.7
7.9	4.6	3.7	0.0	0.0	0.0	0.0	0.0	55.0	0.1	0.0	0.5
0.0	9.5	1.5	0.0	0.1	0.0	1.0	0.0	19.2	0.0	0.0	0.2
0.0	-77.0	19.0	1.5	0.2	0.0	0.0	0.0	6.3	0.0	0.0	0.0
0.0	-77.0	0.0	0.0	0.0	0.0	0.0	0.0	41.6	0.0	0.0	1.0
0.0	-77.0	40.2	-77.0	0.0	-77.0	0.0	0.0	-77.0	0.0	-77.0	9.5

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

Jan_2014	Feb_2014	Mar_2014	Apr_2014	May_2014	Jun_2014	Jul_2014	Aug_2014	Sep_2014	Oct_2014	Nov_2014	Dec_2014
13.8	2.0	4.4	37.4	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0
9.3	0.0	1.8	13.2	0.0	0.0	5.7	0.0	0.0	0.0	0.0	0.0
10.0	13.3	0.0	1.0	0.0	0.0	9.9	0.0	0.0	0.0	17.4	0.4
19.5	29.1	0.4	7.3	0.0	0.0	0.1	0.0	0.0	0.0	0.3	0.0
0.7	0.3	0.4	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.0	11.9	0.0	0.1	0.0	13.3	0.6	0.0	0.8	0.0	0.2	0.0
23.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	6.6	2.5	3.2	0.0
0.0	10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.2	5.8	0.0
0.0	27.7	0.0	0.0	0.0	0.0	0.0	0.0	0.3	18.9	0.1	0.0
0.0	5.9	0.0	0.0	0.0	0.0	0.0	0.0	4.5	3.0	22.7	0.0
0.0	21.6	0.0	0.0	0.0	0.0	0.0	0.0	1.7	4.9	8.8	0.0
8.3	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.1	15.3	0.2	6.7
0.4	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.7	31.3	15.7
0.8	10.9	0.0	0.4	0.0	0.0	0.0	0.0	0.4	0.2	10.7	4.7
5.4	1.8	0.0	0.0	0.0	0.0	0.0	0.0	6.7	7.9	3.4	0.0
1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.0	0.9	0.1	0.1
12.0	0.4	0.0	0.9	0.0	0.0	0.0	0.0	12.9	0.0	0.0	0.0
1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	0.0	5.2	0.0
2.7	0.0	0.0	0.0	0.4	0.0	5.1	0.0	7.4	0.0	31.7	0.2
0.0	4.2	0.0	4.1	12.5	0.0	0.0	0.0	6.7	0.0	1.5	0.2
7.1	0.0	0.3	1.6	15.1	2.2	0.0	0.0	27.5	0.0	0.0	0.0
0.1	0.4	3.0	0.0	3.7	0.0	0.0	0.0	5.7	0.0	0.4	0.0
0.0	2.3	0.0	2.4	0.0	3.6	0.0	0.0	14.9	0.0	0.3	0.0
0.0	1.6	1.6	3.0	0.0	0.1	0.0	0.0	0.8	0.0	0.6	0.0
0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	5.8	0.0
0.1	0.5	2.3	0.0	0.0	0.0	0.0	0.0	7.5	0.0	10.4	0.0
1.6	0.1	20.3	0.0	0.1	0.0	0.0	0.0	4.4	0.0	16.2	0.1
3.7	-77.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0	6.1	0.0
0.0	-77.0	8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0
0.1	-77.0	13.1	-77.0	0.0	-77.0	0.0	0.0	-77.0	0.0	-77.0	0.0
Jan_2015	Feb_2015	Mar_2015	Apr_2015	May_2015	Jun_2015	Jul_2015	Aug_2015	Sep_2015	Oct_2015	Nov_2015	Dec_2015
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.0
0.0	6.7	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.8	0.0
0.0	0.9	0.1	0.0	5.3	0.0	0.0	0.0	0.0	0.1	2.8	0.0
0.0	0.0	0.0	0.0	3.1	0.0	0.0	0.0	0.0	7.2	8.3	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	29.9	1.2	0.0
0.1	0.9	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.7	0.5	0.0
0.2	0.0	0.0	0.1	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.1
0.1	0.0	0.0	3.3	1.0	1.8	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	11.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	11.7	0.0	0.0	0.0	0.0	0.0	12.5	0.0	0.0
0.0	0.6	0.0	0.1	0.0	2.9	0.0	0.0	0.0	12.6	0.0	0.0



Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

## ANEXO 8 – Necessidades Hídricas das Culturas

### ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23.4	0.0	0.0
0.0	0.7	0.0	0.0	0.0	1.4	0.0	0.0	1.5	0.3	0.2	4.8
0.2	4.6	0.0	1.3	0.0	14.2	0.0	0.0	0.1	0.0	0.0	31.8
15.4	1.0	0.0	4.8	0.0	1.6	0.0	0.0	6.1	0.0	0.0	0.0
2.9	0.0	0.0	0.2	0.0	0.0	0.0	0.0	12.2	0.0	0.0	0.0
10.0	0.0	6.8	0.0	0.0	0.0	4.2	0.0	0.1	18.0	0.0	0.0
9.4	0.0	4.9	0.3	0.0	0.0	1.3	0.0	0.0	23.8	0.0	0.0
0.1	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	7.6	0.0	0.0
2.2	0.2	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	6.7
0.3	1.2	0.3	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.1
0.0	0.1	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
0.0	0.5	1.5	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.1
0.0	0.0	2.9	5.2	0.0	0.0	0.0	0.0	0.0	6.0	0.0	0.3
0.0	0.0	0.0	8.4	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.0
0.0	0.0	0.0	23.8	0.0	0.0	0.0	0.0	0.0	31.4	0.0	0.1
0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	4.3	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	22.9
0.4	-77.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.6	0.0	0.2
4.7	-77.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	8.6
3.2	-77.0	0.0	-77.0	0.0	-77.0	0.0	1.1	-77.0	7.2	-77.0	0.1
Jan_2016	Feb_2016	Mar_2016	Apr_2016	May_2016	Jun_2016	Jul_2016	Aug_2016	Sep_2016	Oct_2016	Nov_2016	Dec_2016
13.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8
0.0	0.0	0.0	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.4	0.0	0.0	8.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.4
10.3	0.0	0.7	12.5	0.0	0.0	0.0	0.0	0.0	0.0	19.4	0.2
4.5	0.0	0.1	0.0	19.3	0.0	0.0	0.0	0.0	0.0	13.6	0.0
4.7	4.9	0.0	0.0	9.0	0.0	9.0	0.0	0.0	0.0	0.0	0.0
7.4	0.1	1.5	0.0	30.3	0.0	2.5	0.0	0.0	0.0	0.0	0.0
23.0	0.5	0.0	0.0	19.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.0	4.1	0.1	0.2	5.3	0.0	0.0	0.0	0.0	0.0	1.1	0.0
16.1	10.8	0.0	4.4	21.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9.8	2.3	0.0	5.1	14.1	0.0	0.0	0.0	0.0	8.6	0.0	0.0
0.0	13.1	0.0	14.4	5.0	0.0	0.0	0.0	0.0	12.0	1.8	0.1
0.0	10.9	0.0	5.7	0.7	0.0	0.0	0.0	12.9	1.2	0.1	0.1
2.8	7.8	0.0	5.6	0.0	0.0	0.0	0.0	0.2	0.0	0.0	13.6
0.0	0.4	3.6	8.0	0.0	1.2	0.0	0.0	0.1	0.0	0.0	11.2
0.0	0.0	0.1	18.1	0.0	0.3	0.0	0.0	0.0	0.3	0.0	1.7
0.1	4.0	0.0	7.8	0.0	0.0	0.0	0.0	0.0	3.0	0.0	0.0
0.5	0.0	11.9	0.3	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0
5.9	0.0	5.4	37.5	0.0	0.0	0.0	0.0	0.0	0.0	2.7	0.0
6.2	0.0	11.6	13.1	0.0	0.0	0.0	0.0	0.0	0.0	31.4	0.0
5.8	0.0	1.7	4.3	0.0	0.0	0.0	0.0	0.0	0.1	11.8	0.0
1.3	0.0	0.2	0.6	0.3	0.0	0.0	0.0	0.0	41.8	0.4	0.0
0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	8.0	0.1	0.0

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.1	4.7	0.0	0.0	1.5	0.0	0.0	0.0	0.0	19.0	11.4	0.0
8.4	0.0	0.0	0.0	0.1	0.0	0.0	0.7	0.0	6.7	46.3	0.0
0.3	18.9	6.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0	24.3	0.0
0.2	0.4	0.0	0.0	1.6	0.0	0.0	0.0	0.0	0.0	1.3	0.0
3.4	0.0	0.2	0.0	11.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	-77.0	3.9	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0
0.0	-77.0	1.3	-77.0	0.0	-77.0	0.0	0.0	-77.0	0.0	-77.0	0.0
Jan_2017	Feb_2017	Mar_2017	Apr_2017	May_2017	Jun_2017	Jul_2017	Aug_2017	Sep_2017	Oct_2017	Nov_2017	Dec_2017
0.1	5.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.6	11.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0	0.0
13.4	6.4	11.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23.7	0.0
1.5	7.6	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	0.0
0.1	2.0	0.2	0.0	10.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.1	0.0	0.0	0.0	0.0	1.5	0.0	0.0	0.0	0.0	0.0
0.0	0.7	0.0	0.0	0.0	0.0	2.5	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	1.1	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	21.1	0.0	0.0	18.5	0.0	0.0	0.0	0.0	0.0	0.0	18.8
0.0	1.3	0.0	0.0	14.0	0.0	0.0	0.0	0.0	0.0	0.0	14.7
0.0	33.7	0.0	0.0	12.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	2.1	0.0	0.0	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	6.6	0.5	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.3
0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9
0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	7.7	0.0	0.0	0.0	2.7	0.0	0.0
0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.6	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0
0.0	0.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.7	0.0
0.0	0.0	1.4	0.0	0.2	0.2	0.0	0.0	0.0	0.0	5.3	0.0
0.0	0.0	16.7	0.0	2.5	0.2	0.0	0.0	0.0	0.0	0.0	3.8
22.8	0.0	32.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0
4.5	0.3	5.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	2.0
1.2	0.1	0.2	0.0	0.2	1.4	0.0	1.9	0.0	0.0	13.8	1.0
2.9	-77.0	0.0	1.9	0.1	0.0	0.0	3.6	0.0	0.0	0.1	0.3
0.5	-77.0	0.0	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.8	-77.0	0.6	-77.0	0.0	-77.0	0.1	0.0	-77.0	0.0	-77.0	2.3
Jan_2018	Feb_2018	Mar_2018	Apr_2018	May_2018	Jun_2018	Jul_2018	Aug_2018	Sep_2018	Oct_2018	Nov_2018	Dec_2018
0.0	0.0	18.9	0.0	0.0	0.0	3.0	0.0	0.0	0.0	0.1	0.0
0.2	0.0	28.4	2.7	0.0	0.0	0.7	0.0	0.0	0.0	0.1	0.0
0.1	0.2	24.8	11.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

## ANEXO 8 – Necessidades Hídricas das Culturas

### ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.3	0.1	8.6	1.9	0.0	1.1	0.0	0.7	0.0	0.0	22.8	0.0
14.7	0.1	14.2	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.1	0.1
0.0	0.0	2.7	7.4	0.1	0.0	0.0	0.0	0.0	0.0	1.2	0.0
1.2	0.0	5.1	2.8	3.5	3.0	0.0	0.0	1.1	0.0	6.0	0.0
0.1	0.0	8.0	6.2	0.0	5.9	0.0	0.0	0.0	0.0	8.8	0.1
13.3	1.2	64.5	2.7	0.0	2.3	0.0	0.0	0.0	0.0	0.8	0.0
4.7	0.0	11.1	10.4	0.0	1.1	0.0	0.0	0.0	0.0	10.7	0.0
0.2	0.1	15.2	0.0	0.0	0.0	0.1	0.0	0.0	3.1	40.4	0.0
0.0	0.5	2.0	17.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	1.9
13.6	0.0	2.4	1.3	0.0	0.0	0.0	0.0	0.0	9.8	0.0	11.8
0.6	0.3	34.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0
0.0	0.1	10.7	7.6	0.0	0.0	0.0	0.0	0.2	12.0	1.0	1.0
0.0	0.0	6.2	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.1	6.6
0.1	0.0	23.4	0.0	0.1	0.0	0.0	0.0	12.4	3.2	0.1	0.0
0.0	0.0	0.7	0.0	1.2	0.0	0.0	0.0	0.0	8.4	12.7	10.1
0.0	0.0	8.7	0.0	0.3	0.0	0.0	0.0	0.0	1.6	1.3	0.7
0.0	0.0	0.0	0.0	7.4	0.0	0.0	0.6	0.0	7.3	2.3	0.3
0.0	0.0	0.0	8.5	0.2	1.1	0.0	2.2	0.0	3.9	7.5	0.1
0.0	0.0	0.0	0.6	0.0	0.2	0.0	0.0	0.0	0.0	3.2	0.0
0.0	0.0	7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0
0.0	0.0	1.0	0.0	20.4	0.0	0.0	0.0	0.0	0.0	6.5	0.2
8.8	0.0	2.9	0.0	2.6	0.0	0.0	0.0	0.0	0.0	15.9	0.0
0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.9	0.0	0.0
0.0	23.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.2
0.0	54.0	0.0	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
0.0	-77.0	1.9	3.2	2.5	0.7	0.0	0.0	0.0	1.8	20.3	0.0
0.0	-77.0	7.9	0.3	0.0	0.8	0.0	0.0	0.0	12.8	0.2	0.0
0.0	-77.0	0.4	-77.0	0.0	-77.0	0.0	0.0	-77.0	1.7	-77.0	0.0
<b>Jan_2019</b>	<b>Feb_2019</b>	<b>Mar_2019</b>	<b>Apr_2019</b>	<b>May_2019</b>	<b>Jun_2019</b>	<b>Jul_2019</b>	<b>Aug_2019</b>	<b>Sep_2019</b>	<b>Oct_2019</b>	<b>Nov_2019</b>	<b>Dec_2019</b>
0.0	10.0	0.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	9.4
0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.7	0.1
0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0
0.1	0.0	1.4	3.4	0.0	0.1	0.0	0.0	0.0	0.0	3.2	0.2
0.0	0.0	4.1	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0
0.0	0.0	22.6	11.9	0.0	4.7	0.0	0.0	0.0	0.0	2.6	0.0
0.0	0.0	6.1	4.4	3.0	0.0	0.0	0.4	0.0	0.0	2.3	0.0
0.0	0.0	0.2	3.3	3.9	0.0	0.0	0.0	0.0	0.0	0.1	1.2
0.0	0.0	0.0	3.8	7.3	0.0	0.0	2.8	0.0	0.0	2.4	0.2
0.0	2.0	0.0	0.0	2.2	0.0	0.0	0.5	0.0	0.0	0.1	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.1	1.2
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	3.3
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	1.6	1.2
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	12.0	4.3	0.4
0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.7

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	65.6
1.3	0.0	0.0	8.3	0.0	0.0	0.0	0.0	0.0	9.6	7.8	0.8
0.7	6.5	0.0	6.1	0.0	1.8	0.0	0.0	0.0	0.6	0.0	13.9
8.5	0.0	0.0	5.7	0.0	0.4	0.0	0.0	0.0	15.2	0.2	67.0
0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.7	23.3	41.8
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.0	0.5	4.9	8.5
0.1	0.0	0.0	4.0	0.0	0.0	0.9	0.0	0.1	0.0	26.3	0.0
0.0	0.0	0.0	5.7	0.0	0.0	0.7	0.0	0.0	2.2	0.6	0.1
0.0	0.0	0.0	31.7	0.0	3.6	0.0	0.0	0.2	0.0	3.0	0.1
0.0	0.0	0.0	4.2	0.0	0.1	0.0	0.4	0.0	0.0	4.4	0.0
0.0	0.0	0.0	0.0	0.0	0.1	0.0	15.8	0.0	0.0	16.8	0.0
0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.0	0.0	0.0	0.1	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	1.1	0.0
1.7	-77.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	1.0	0.7	0.0
5.8	-77.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.7	3.8	0.0
18.0	-77.0	0.0	-77.0	0.0	-77.0	0.0	0.0	-77.0	0.8	-77.0	0.0
Jan_2020	Feb_2020	Mar_2020	Apr_2020	May_2020	Jun_2020	Jul_2020	Aug_2020	Sep_2020	Oct_2020	Nov_2020	Dec_2020
0.0	1.5	8.7	10.7	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.1	0.1	7.6	1.0	0.0	0.0	0.0	0.0	0.0	3.8	0.0	0.0
0.0	0.1	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2
0.0	0.2	0.2	0.7	0.0	0.0	0.0	0.0	0.0	0.5	1.4	4.8
0.0	0.0	1.9	29.2	0.0	0.0	0.0	0.0	0.0	0.0	26.4	0.0
0.0	0.0	0.3	15.4	0.0	0.0	0.0	0.0	0.0	0.0	18.1	0.5
0.0	0.0	0.0	7.2	0.0	0.0	0.0	0.0	0.0	0.0	4.0	2.5
0.0	0.5	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	7.8	0.8
0.0	0.0	0.0	11.3	4.3	0.0	0.0	0.0	0.0	0.0	4.3	0.3
0.0	0.0	0.0	0.2	8.1	0.0	0.0	0.0	0.0	0.0	0.1	5.4
0.0	0.0	0.0	0.4	16.4	0.0	0.1	0.0	0.0	0.0	0.1	5.3
0.0	0.3	0.0	0.0	3.0	3.1	0.0	0.0	0.0	0.0	0.0	1.0
0.0	0.3	0.0	1.2	11.1	0.0	0.0	0.0	0.0	0.0	2.1	2.2
3.4	0.1	0.0	1.2	2.9	0.0	0.0	0.0	0.0	0.0	4.6	8.5
9.4	0.0	0.0	12.7	11.1	0.0	0.0	0.0	0.0	0.0	0.5	0.4
4.8	0.1	1.7	19.0	0.0	0.1	0.0	0.0	0.2	0.0	0.1	6.4
0.4	0.9	0.1	6.5	0.0	0.0	0.0	0.1	4.5	0.0	0.1	0.1
16.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	13.3	0.0	0.0	0.7
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3	23.6	0.1	13.7
0.0	0.0	36.8	9.0	0.0	0.0	0.0	0.1	2.7	91.5	0.0	0.1
0.0	0.0	6.5	0.3	0.0	0.0	0.7	0.4	0.0	8.0	0.0	0.5
2.2	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.8	4.3	0.0	0.4
20.5	0.0	0.8	0.0	0.0	0.0	0.0	0.0	2.6	2.2	0.0	0.6
2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.4	0.0	0.0
1.9	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	10.1	30.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	7.6	0.0
3.6	0.0	0.0	2.6	0.0	0.0	0.0	0.0	0.0	0.3	0.1	0.0

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

## ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

1.7	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	1.6	4.3	1.7
1.2	1.4	0.0	3.4	0.0	0.0	0.0	0.0	0.0	0.1	3.8	1.1
2.1	-77.0	2.5	0.7	0.2	0.0	0.0	0.0	0.0	0.0	0.0	1.0
6.8	-77.0	5.2	-77.0	19.9	-77.0	0.0	0.0	-77.0	0.0	-77.0	2.0

## 2.2 EVAPOTRANSPIRAÇÃO DE REFERÊNCIA

### 2.2.1 ESTUÁRIO

Tabela 14. Evapotranspiração de referência diária na região de cálculo de Estuário (mm)

Jan_2003	Fev_2003	Mar_2003	Abr_2003	Mai_2003	Jun_2003	Jul_2003	Ago_2003	Set_2003	Out_2003	Nov_2003	Dez_2003
0.0	1.8	0.2	2.5	3.9	3.7	4.7	6.2	3.7	1.4	1.8	0.7
0.2	1.2	0.9	2.8	4.1	4.7	3.9	4.6	4.1	2.5	0.9	1.3
0.9	1.5	1.7	4.3	4.6	3.2	4.5	4.9	3.4	1.9	0.7	0.5
0.7	1.0	2.1	4.3	3.4	4.5	5.4	5.2	3.3	3.3	0.6	1.1
0.4	1.9	1.8	3.9	3.4	5.4	5.2	5.5	4.1	3.4	0.9	0.3
1.0	1.4	2.4	4.2	5.0	5.8	5.5	6.1	4.3	3.8	2.0	0.6
0.8	0.9	1.3	4.1	4.5	5.5	5.6	6.0	4.2	3.8	1.1	0.9
0.9	1.6	2.5	3.8	4.5	5.9	5.6	4.6	2.5	3.3	1.1	0.1
1.2	1.3	2.4	3.0	4.6	5.5	6.0	4.4	4.5	3.4	0.2	0.8
1.6	0.9	2.6	1.4	5.0	5.2	5.8	4.8	5.1	2.4	1.2	1.2
1.3	0.4	2.6	2.3	4.6	5.8	4.4	5.3	5.8	0.1	1.2	0.9
1.3	0.7	1.5	1.6	5.0	6.5	2.5	5.5	6.2	1.7	0.5	0.8
1.3	1.5	2.4	1.5	5.1	5.3	2.1	5.5	5.2	1.9	0.6	1.0
1.1	1.8	2.7	0.9	5.6	5.3	2.8	5.4	4.8	2.2	0.2	0.9
1.0	2.1	2.7	2.0	5.2	2.7	4.8	4.2	4.0	0.8	0.9	0.7
0.8	1.9	1.8	3.2	3.9	3.2	4.6	3.9	4.0	1.5	2.7	0.5
0.3	1.2	0.6	2.6	4.7	5.1	5.6	3.9	4.2	2.1	2.2	0.4
0.2	0.4	2.5	1.7	4.2	6.3	5.3	5.0	4.2	0.8	2.1	0.9
1.2	0.8	2.2	3.3	4.9	7.3	5.3	5.1	3.6	2.0	1.5	0.4
0.5	1.3	3.6	2.9	5.9	6.2	5.5	5.1	2.6	1.8	1.1	0.2
1.4	0.5	3.5	3.2	6.4	5.6	5.0	4.2	2.9	1.8	0.4	0.7
1.0	1.2	2.6	2.2	6.8	3.6	5.5	4.0	3.1	2.4	0.4	1.3
1.5	1.3	2.0	2.9	6.5	4.1	5.4	4.1	4.1	2.4	0.8	1.3
1.6	0.9	1.1	2.3	5.4	5.0	5.2	3.6	3.2	1.3	0.9	1.3
1.7	0.9	2.1	0.7	5.7	5.4	5.2	4.5	3.3	0.2	1.6	0.7
1.7	1.2	1.1	3.9	6.0	5.7	5.0	4.6	3.3	1.6	0.5	0.6
1.9	1.6	1.5	3.0	6.6	5.5	5.0	2.5	1.9	0.8	1.1	0.4
2.1	1.6	2.0	2.5	6.1	5.3	6.1	2.3	2.7	1.7	0.5	1.1
2.3	-77.0	0.7	1.9	3.9	2.0	5.9	3.7	1.8	1.8	0.7	0.7
2.3	-77.0	2.5	4.0	1.1	4.3	6.2	3.7	0.5	1.1	0.5	1.1
2.5	-77.0	2.8	-77.0	4.9	-77.0	6.0	2.8	-77.0	1.6	-77.0	0.3

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

Jan_2004	Fev_2004	Mar_2004	Abr_2004	Mai_2004	Jun_2004	Jul_2004	Ago_2004	Set_2004	Out_2004	Nov_2004	Dez_2004
0.2	0.2	0.7	2.5	4.1	5.8	6.5	5.0	2.7	3.4	1.9	0.9
1.6	1.1	2.5	2.4	3.6	5.7	7.3	5.0	1.3	3.4	0.6	0.2
1.3	1.4	2.4	2.7	4.2	5.3	7.1	3.7	3.0	3.5	0.8	1.2
1.0	1.5	2.5	3.7	3.9	5.1	6.4	5.3	3.1	3.4	1.2	1.2
1.0	1.5	1.2	3.9	1.9	4.8	5.9	5.5	3.0	3.0	1.9	1.3
0.8	1.3	1.1	4.0	3.2	5.1	5.5	5.8	3.5	2.7	2.3	1.3
0.2	0.6	1.6	3.6	3.3	5.3	5.1	5.3	3.6	3.2	1.4	1.0
0.0	0.9	2.5	3.3	4.7	5.6	5.6	1.8	2.7	2.6	2.0	0.9
0.4	0.5	2.0	5.0	2.1	5.8	6.0	2.9	3.7	2.5	1.8	0.9
0.4	1.2	1.7	4.7	3.5	5.8	4.3	4.3	3.1	2.3	2.5	0.9
0.9	1.7	1.1	4.0	4.2	6.1	6.4	3.0	4.0	2.0	2.5	0.8
0.5	1.8	0.7	4.0	4.6	5.9	6.5	5.2	4.8	2.8	2.4	0.8
0.4	1.2	3.0	4.1	5.2	5.7	6.9	5.5	3.9	2.9	2.1	0.6
0.6	1.6	3.2	4.9	5.6	7.2	6.5	5.7	3.7	1.8	2.2	1.0
0.0	1.6	3.1	4.1	5.3	7.7	5.8	4.9	4.8	1.8	1.7	1.3
1.1	1.5	3.0	2.6	5.7	6.2	5.2	3.3	4.9	1.6	1.5	1.1
0.3	0.6	2.1	3.5	5.5	7.0	5.6	4.1	4.5	1.5	1.3	1.3
1.9	1.5	2.9	1.8	5.6	6.0	5.7	3.7	4.3	0.4	1.2	1.4
1.8	2.7	3.4	2.7	5.9	4.7	5.1	4.6	4.3	0.6	1.1	0.8
1.4	2.2	3.3	2.4	4.7	5.3	5.4	4.7	3.8	1.7	1.3	1.8
1.0	2.3	3.2	0.8	2.2	4.6	5.4	5.3	3.9	1.6	0.8	1.8
1.1	1.1	4.3	3.9	4.5	4.1	4.9	4.2	3.4	2.4	1.2	2.1
0.5	0.3	3.7	4.7	4.0	3.7	5.1	4.9	4.2	2.2	1.3	1.7
1.4	1.6	1.7	5.0	2.9	3.3	5.6	5.7	3.3	0.5	1.2	1.2
0.6	1.0	4.3	5.1	3.2	6.1	7.2	5.6	3.5	1.0	1.1	1.2
0.7	2.2	2.0	5.1	4.7	6.4	7.0	5.1	4.4	1.2	1.1	1.4
0.5	1.9	1.1	4.7	5.2	6.9	6.0	4.9	4.1	1.7	0.3	1.7
1.7	1.7	2.1	3.7	4.4	7.0	5.6	5.1	3.4	1.3	0.3	0.7
0.3	2.1	2.7	4.7	4.2	6.6	5.7	5.0	3.9	1.4	0.2	1.7
0.6	-77.0	2.1	3.2	4.9	6.6	5.4	4.8	3.5	1.5	0.8	1.3
0.1	-77.0	2.5	-77.0	5.8	-77.0	5.6	4.4	-77.0	1.2	-77.0	1.2
Jan_2005	Fev_2005	Mar_2005	Abr_2005	Mai_2005	Jun_2005	Jul_2005	Ago_2005	Set_2005	Out_2005	Nov_2005	Dez_2005
0.6	1.6	2.8	3.3	3.3	6.7	6.5	6.0	5.0	4.5	1.0	0.6
1.2	1.6	2.2	0.8	3.8	5.9	6.3	6.8	5.0	4.2	1.3	0.9
1.2	1.7	1.7	2.6	3.7	5.9	6.1	7.3	4.7	5.0	0.4	0.7
1.0	1.6	3.9	2.1	4.7	6.2	6.2	7.7	4.7	4.3	2.2	0.5
1.0	0.5	2.8	3.2	5.6	6.7	6.6	5.3	4.5	3.9	2.2	0.7
1.0	1.1	2.6	3.0	6.5	6.6	6.5	5.5	2.6	3.5	1.9	1.3
1.0	1.3	3.1	3.8	4.6	6.3	6.1	4.9	3.7	3.1	1.8	1.3
0.7	1.7	3.1	4.4	4.3	5.4	5.9	4.7	4.3	2.5	1.0	1.1
0.9	2.0	2.5	5.1	3.7	5.8	6.0	2.4	2.1	0.2	2.3	1.3
0.8	2.2	1.5	4.7	3.8	5.1	5.5	3.9	3.4	1.5	2.4	2.0
1.0	2.1	2.4	4.5	2.1	4.5	5.5	4.8	3.3	1.6	1.8	1.5

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

1.0	1.7	1.4	4.7	3.8	2.7	5.9	5.6	4.5	1.8	0.7	1.3
0.3	1.9	1.8	3.8	4.4	3.7	5.5	5.9	5.3	2.8	1.5	1.3
0.8	3.2	2.2	2.6	4.7	4.7	5.6	5.8	5.2	1.9	1.8	1.4
0.4	2.2	2.6	3.8	4.8	5.8	6.0	5.1	3.9	1.5	1.1	1.3
1.4	2.9	2.6	3.7	3.6	6.7	5.6	5.0	3.7	1.7	1.0	1.1
1.6	2.7	3.6	1.3	5.1	6.2	5.0	4.6	4.7	0.9	0.2	0.9
1.0	2.6	3.2	3.9	5.2	5.2	5.9	5.6	5.6	2.4	0.7	0.9
2.3	2.4	1.5	3.2	5.2	5.6	6.3	4.3	4.4	2.0	0.7	1.2
1.7	2.3	1.6	2.9	5.0	5.7	6.5	6.0	4.1	1.8	0.2	1.2
1.7	2.3	0.4	3.6	4.1	5.7	5.7	6.8	4.0	0.8	0.5	1.3
1.3	1.7	3.1	2.9	5.0	6.0	5.6	6.5	3.8	1.5	0.7	1.6
1.1	2.0	2.1	1.7	5.5	4.5	5.7	5.4	3.8	1.8	1.6	0.7
0.9	2.1	2.3	3.7	5.9	2.1	3.1	5.3	4.0	2.1	1.8	0.7
2.0	2.6	1.9	3.6	5.6	5.1	4.5	4.7	3.5	1.7	1.0	0.0
1.7	1.3	2.9	4.5	5.5	4.7	3.5	4.9	3.9	2.3	1.0	0.5
2.4	1.2	2.3	4.8	2.9	4.7	3.9	4.9	4.0	0.5	0.8	1.0
1.7	3.3	0.8	4.8	4.0	5.0	4.8	5.0	3.5	1.2	0.6	0.7
1.3	-77.0	2.3	4.6	4.5	4.8	5.2	4.6	3.5	1.1	1.2	0.8
1.9	-77.0	3.0	3.9	4.8	4.7	6.0	4.3	4.2	0.5	1.2	0.5
1.9	-77.0	4.4	-77.0	4.8	-77.0	5.9	4.5	-77.0	1.3	-77.0	0.5
Jan_2006	Fev_2006	Mar_2006	Abr_2006	Mai_2006	Jun_2006	Jul_2006	Ago_2006	Set_2006	Out_2006	Nov_2006	Dez_2006
0.9	1.2	2.5	2.7	4.6	3.5	4.3	5.1	4.1	2.7	1.3	0.8
1.6	0.9	1.4	2.9	4.0	5.9	3.6	5.9	4.9	1.6	0.1	0.4
1.3	0.8	1.0	3.3	4.4	7.4	3.9	4.8	5.1	2.7	0.7	0.8
1.2	1.2	1.5	3.3	4.1	6.5	4.1	6.0	5.1	2.3	0.4	0.6
0.7	1.6	2.5	1.8	4.2	6.0	5.3	6.0	4.6	3.2	1.2	0.5
0.8	1.6	1.6	2.1	4.7	4.5	6.2	7.1	4.2	2.1	0.4	1.0
1.0	1.7	0.6	1.3	4.4	5.4	6.5	5.9	4.0	2.7	1.3	0.5
1.0	1.4	1.8	3.4	4.1	5.2	6.3	5.1	4.2	3.0	1.6	1.7
1.0	0.8	1.6	3.0	5.2	4.9	6.4	7.5	4.8	2.7	1.6	1.2
1.1	1.2	2.4	3.3	5.4	4.7	4.9	5.7	4.2	1.0	2.0	1.6
1.1	1.7	1.8	4.1	4.8	5.5	2.7	5.6	2.7	2.4	2.0	1.5
1.0	1.7	2.9	3.9	4.6	5.2	6.4	5.5	4.4	3.7	1.7	1.2
0.8	1.6	3.1	3.4	4.9	1.8	5.9	4.8	1.8	3.4	1.5	1.3
1.3	2.1	3.1	0.8	4.2	1.6	6.2	4.5	3.6	2.7	0.8	1.2
0.3	1.5	2.0	2.9	4.0	2.1	6.6	4.4	3.3	1.6	0.2	1.1
0.9	1.7	1.2	3.0	4.7	3.0	6.7	2.8	4.2	0.7	1.5	1.0
0.5	1.8	0.9	3.5	4.2	2.3	5.8	4.4	3.6	2.1	1.0	0.9
0.9	1.7	1.3	3.3	5.5	4.8	3.0	4.4	4.0	2.2	1.1	1.2
1.4	1.7	2.3	4.1	5.2	5.4	5.1	4.3	3.9	0.9	0.9	1.4
1.3	1.5	2.0	1.9	4.8	5.4	5.7	6.0	3.7	1.2	1.2	1.4
1.2	2.1	1.8	3.4	3.7	5.9	5.8	6.3	2.2	1.5	0.9	1.4
0.8	2.6	1.2	1.6	5.0	6.0	5.7	6.0	3.0	0.4	0.8	1.1
1.2	1.2	0.5	3.9	5.2	5.6	6.0	5.5	2.8	1.7	0.8	1.2

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.4	1.6	2.1	4.3	5.8	4.1	5.9	5.7	1.9	0.4	0.5	1.2
1.4	0.2	1.4	4.3	6.1	3.2	5.8	5.6	2.5	1.3	1.2	0.9
1.7	2.1	2.6	4.3	6.2	4.1	5.8	5.7	3.4	0.8	0.7	1.0
1.7	2.2	2.7	4.4	6.4	5.0	5.8	5.8	2.9	2.5	0.5	0.8
1.9	2.4	3.3	5.1	5.6	5.2	6.0	5.5	2.3	2.9	1.3	0.9
0.4	-77.0	1.2	5.3	5.4	5.4	5.8	5.9	1.5	1.8	1.4	0.2
1.5	-77.0	2.3	4.8	4.0	5.2	5.6	5.7	1.8	1.5	0.9	0.2
1.3	-77.0	1.9	-77.0	3.1	-77.0	5.9	5.0	-77.0	1.1	-77.0	0.8
Jan_2007	Fev_2007	Mar_2007	Abr_2007	Mai_2007	Jun_2007	Jul_2007	Ago_2007	Set_2007	Out_2007	Nov_2007	Dez_2007
0.8	1.0	1.6	3.1	2.6	5.2	5.3	4.6	5.9	2.7	2.9	0.6
1.0	1.4	1.5	1.4	2.0	6.5	5.6	6.0	5.4	1.1	2.9	1.0
1.0	1.1	1.3	2.1	3.1	5.8	2.9	6.2	4.9	1.9	2.6	0.5
0.9	1.2	0.8	3.0	3.2	6.3	6.2	5.8	4.4	2.3	2.4	0.2
1.0	1.0	1.9	4.1	4.8	6.4	7.5	4.3	4.9	2.3	2.4	0.0
0.8	0.9	0.9	3.8	5.7	5.5	6.7	4.7	4.2	2.6	2.5	0.8
0.8	0.3	2.7	3.2	5.1	4.9	6.0	5.8	4.1	2.9	2.4	0.9
0.4	1.3	2.9	1.9	5.6	4.3	5.8	6.1	2.7	3.3	1.8	1.1
0.6	2.1	2.8	3.4	5.8	5.0	6.6	6.2	2.2	3.9	2.1	0.8
0.2	1.0	3.7	2.9	4.7	3.8	6.9	5.5	3.3	4.2	1.9	1.4
1.2	0.5	3.7	2.5	4.2	4.5	6.6	4.6	3.7	3.9	1.8	1.2
1.1	1.5	1.7	3.0	3.9	4.5	6.7	5.1	3.2	3.2	1.7	1.2
0.9	0.5	2.9	4.0	4.3	3.6	6.1	4.6	3.6	3.3	2.1	1.2
0.5	2.2	3.3	4.0	4.7	2.1	5.8	4.8	3.8	2.9	1.9	1.3
0.5	0.5	3.3	4.1	5.3	3.4	2.8	3.7	3.6	2.1	2.1	1.2
0.4	0.9	3.2	5.0	5.5	0.8	3.0	5.6	3.1	2.9	1.9	1.0
0.9	1.8	3.6	5.6	6.7	3.3	5.3	6.0	1.9	3.2	1.5	0.8
1.0	1.9	3.4	5.2	6.5	3.8	5.8	5.4	3.7	3.0	1.5	0.5
1.2	0.7	2.6	3.6	4.7	2.5	5.4	5.6	3.0	3.5	0.3	0.4
1.1	2.0	3.8	1.6	2.6	4.9	5.8	6.0	3.3	3.2	0.4	0.7
1.4	1.8	4.1	4.7	3.6	4.9	5.7	5.7	2.4	2.7	1.3	1.1
1.1	1.6	3.7	5.1	1.4	5.7	5.3	6.3	3.8	2.4	1.5	1.3
1.0	1.3	3.5	4.7	3.5	5.8	4.3	6.5	3.8	1.6	1.3	1.2
1.4	1.8	3.2	2.2	3.1	4.5	5.8	6.9	4.4	1.3	2.2	1.2
1.5	0.9	1.9	3.1	1.6	4.6	5.8	2.1	4.1	2.4	2.2	0.5
1.9	2.3	2.5	4.1	3.8	5.8	5.8	4.6	3.7	2.4	1.6	1.7
2.1	2.2	2.8	3.8	2.7	5.8	6.6	5.0	4.0	3.2	1.6	1.4
0.5	0.3	3.1	4.1	4.9	5.8	7.0	3.2	3.6	2.9	1.4	1.0
0.3	-77.0	3.7	3.8	5.0	5.8	6.6	3.7	1.9	2.7	1.2	0.4
0.5	-77.0	3.2	3.7	3.7	5.5	7.0	4.7	1.0	3.1	1.3	0.8
1.3	-77.0	2.9	-77.0	4.2	-77.0	5.3	6.5	-77.0	3.3	-77.0	0.9
Jan_2008	Fev_2008	Mar_2008	Abr_2008	Mai_2008	Jun_2008	Jul_2008	Ago_2008	Set_2008	Out_2008	Nov_2008	Dez_2008
0.2	0.4	2.4	4.1	4.2	3.7	5.7	5.6	4.2	3.1	1.5	0.6
0.9	1.2	2.1	4.5	4.3	3.7	4.9	6.2	3.5	3.7	1.5	1.4
1.0	0.9	2.2	4.6	4.0	4.7	5.5	5.9	3.0	4.4	1.6	0.4



Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.8	1.2	4.1	4.5	3.4	4.9	5.3	6.1	2.7	3.6	1.1	0.3
0.1	0.4	3.7	2.4	3.7	4.2	5.4	5.7	2.8	3.5	1.0	0.3
0.3	1.8	3.2	3.5	4.0	5.5	5.6	4.8	3.3	3.0	1.2	0.3
0.5	1.9	2.9	2.1	3.5	6.0	5.9	5.6	4.2	1.0	1.4	0.6
0.2	1.9	1.9	1.3	3.9	6.4	5.4	5.6	4.0	2.9	1.1	0.8
0.3	2.0	2.5	2.1	3.3	6.4	5.7	5.8	3.7	4.0	1.5	1.9
1.3	2.0	0.8	2.2	3.5	6.2	5.4	5.1	4.1	4.3	1.4	1.7
1.1	1.6	1.9	3.0	2.1	6.3	2.9	2.8	3.5	2.1	1.2	0.5
1.1	2.0	2.6	3.1	3.2	7.1	5.6	4.7	5.0	1.1	2.0	1.1
0.3	2.3	2.5	3.0	3.3	6.6	5.9	6.1	4.7	1.9	1.8	0.3
1.0	2.2	2.0	3.7	2.9	6.0	6.0	5.3	4.5	2.6	1.6	1.2
0.5	1.9	3.2	3.3	1.1	3.3	6.0	5.8	4.1	2.5	1.8	1.5
1.1	1.6	2.0	2.7	3.2	3.8	6.0	2.6	3.2	1.8	1.8	1.2
0.4	0.5	1.6	1.9	4.0	5.2	6.4	4.5	2.4	2.0	1.7	0.7
0.6	0.1	2.5	3.0	3.6	5.3	5.8	4.3	2.3	2.0	1.5	0.5
1.3	0.6	0.6	2.6	3.6	6.0	5.4	5.2	3.2	2.5	2.2	1.0
1.4	1.1	3.4	2.7	2.2	5.9	3.0	4.8	2.6	2.5	2.0	1.2
1.3	1.3	3.7	3.7	3.1	5.9	5.1	3.4	2.6	2.0	1.9	1.3
1.5	1.8	2.2	3.2	1.8	6.0	5.3	4.6	2.8	3.3	1.6	1.1
1.3	0.7	3.4	2.5	1.7	5.6	5.5	5.1	3.1	3.3	1.8	0.7
1.2	1.3	2.6	4.4	3.2	5.9	4.8	4.9	2.3	2.7	1.0	0.8
1.1	2.1	1.9	5.1	3.6	6.3	2.9	4.8	3.7	3.0	1.5	1.0
1.4	2.3	2.4	4.9	2.9	6.1	4.6	4.7	3.8	3.2	2.2	1.0
1.5	1.6	2.4	5.0	3.0	6.2	5.1	4.6	3.0	2.2	1.8	0.0
1.4	1.6	2.3	3.7	3.1	6.1	5.5	4.2	2.8	3.2	0.7	0.1
1.4	2.2	3.0	3.1	3.4	5.4	5.8	3.9	3.4	2.5	0.8	0.2
1.4	-77.0	2.7	4.3	2.9	6.1	5.1	3.6	3.5	0.8	0.7	0.8
1.7	-77.0	3.0	-77.0	3.9	-77.0	4.3	4.1	-77.0	1.3	-77.0	0.3
Jan_2009	Fev_2009	Mar_2009	Abr_2009	Mai_2009	Jun_2009	Jul_2009	Ago_2009	Set_2009	Out_2009	Nov_2009	Dez_2009
0.0	0.7	1.1	3.7	5.2	5.1	5.1	2.9	4.1	2.7	0.8	0.2
0.0	1.0	1.5	3.5	6.3	4.4	5.9	5.4	4.9	2.8	2.1	0.8
0.6	0.5	2.5	3.6	6.5	4.5	4.9	5.7	4.8	2.9	1.1	1.1
0.7	1.4	1.6	3.5	5.8	4.8	5.7	5.3	4.8	2.5	2.2	0.3
0.1	1.0	2.4	3.5	5.9	1.9	3.8	5.1	5.2	1.4	1.8	0.4
1.3	1.6	1.5	2.4	5.4	3.9	5.2	5.4	4.9	1.5	1.0	0.6
0.9	1.3	2.7	3.4	4.7	3.9	6.0	5.2	4.9	2.4	2.0	0.9
1.2	0.7	2.4	3.5	3.1	3.7	6.0	5.2	4.9	2.4	1.1	0.6
0.9	0.6	2.8	3.2	2.0	4.3	5.9	5.3	4.6	2.2	1.9	0.1
1.0	1.5	3.0	3.2	1.7	4.4	5.6	5.4	3.0	3.3	1.3	0.6
1.2	2.0	3.4	3.0	3.0	6.0	5.7	6.4	3.2	3.4	1.0	1.1
1.1	1.9	3.5	3.2	3.6	6.5	5.6	5.8	2.2	3.9	1.2	0.8
0.8	2.1	3.4	1.4	3.3	5.8	5.7	5.8	2.9	4.2	1.1	1.3
0.5	1.8	3.6	1.6	4.1	2.8	5.1	5.6	3.8	3.6	0.7	1.8
0.3	1.8	3.2	2.1	4.8	3.6	5.6	5.1	4.3	3.2	0.8	1.1

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.9	2.0	3.3	3.0	4.0	4.7	5.6	5.5	4.2	4.3	0.6	0.3
1.0	2.0	4.5	0.9	4.5	6.7	6.0	5.6	3.9	3.6	1.2	0.8
0.1	2.0	4.0	1.1	5.0	5.0	7.0	5.6	2.7	2.6	0.5	0.1
0.6	1.7	3.2	3.8	5.1	6.3	6.0	5.5	3.0	2.2	1.1	1.5
0.9	1.7	3.2	3.8	4.6	6.8	5.5	5.2	4.1	1.8	0.9	0.9
1.0	2.1	3.1	4.4	4.6	6.4	4.8	5.9	4.1	0.9	0.3	0.7
0.1	2.4	1.9	4.9	4.2	5.3	2.7	5.9	4.4	2.1	1.0	0.9
0.5	2.4	2.7	4.9	3.0	5.2	4.9	5.2	4.7	0.9	1.1	0.9
1.4	2.2	3.6	4.2	3.6	4.8	5.5	3.7	4.7	1.8	1.0	0.8
1.6	2.1	4.3	3.3	3.2	4.4	6.0	4.9	4.0	1.4	0.0	0.0
1.5	2.3	4.3	3.9	5.7	4.9	5.8	4.8	3.3	1.6	0.7	1.2
0.9	2.2	3.8	2.9	6.8	4.7	5.7	4.9	2.9	1.6	0.4	0.3
0.2	0.5	4.1	2.9	7.1	2.0	5.6	5.1	3.5	2.2	0.4	0.2
0.5	-77.0	3.9	1.3	6.8	3.3	5.6	5.0	3.2	1.6	1.1	0.4
0.4	-77.0	4.0	2.6	6.4	4.7	5.8	5.3	3.1	1.2	1.3	1.2
1.5	-77.0	3.4	-77.0	5.8	-77.0	5.5	5.0	-77.0	1.6	-77.0	1.2
Jan_2010	Fev_2010	Mar_2010	Abr_2010	Mai_2010	Jun_2010	Jul_2010	Ago_2010	Set_2010	Out_2010	Nov_2010	Dez_2010
1.3	1.4	1.8	2.7	3.6	6.0	5.8	4.9	4.5	3.2	2.1	0.8
0.3	1.7	1.1	2.0	4.4	2.9	4.7	5.5	4.7	2.8	2.2	1.3
0.1	0.5	0.3	1.8	5.2	5.3	5.4	6.3	4.4	1.4	2.0	1.2
0.2	0.5	1.5	3.8	5.3	5.3	7.1	7.0	4.3	2.7	2.3	0.3
0.9	1.6	0.0	4.1	4.8	5.4	7.6	6.5	4.4	2.5	2.2	0.4
0.6	1.0	1.0	2.8	4.3	5.6	6.7	6.2	3.9	1.1	1.7	0.4
1.7	0.4	1.4	4.1	2.0	5.2	5.0	6.3	2.5	1.8	1.6	0.7
1.7	1.1	0.1	4.3	0.5	1.9	5.2	2.4	3.9	0.4	1.1	0.2
1.1	1.3	2.4	4.8	2.7	3.0	5.7	5.5	4.5	1.7	1.9	0.5
0.4	0.2	2.2	5.0	4.1	3.6	6.4	5.5	4.4	1.8	1.7	0.4
0.2	1.6	2.2	4.7	3.5	3.8	5.9	6.4	4.7	2.2	1.1	0.9
0.1	0.8	2.8	4.0	3.3	2.3	5.6	5.1	4.2	1.8	0.9	-0.1
0.2	1.8	2.7	1.9	3.7	5.3	4.2	5.7	4.2	2.3	1.0	0.6
1.2	0.8	3.1	1.0	2.9	5.5	5.5	6.1	4.0	1.9	1.5	0.2
0.1	0.1	2.9	2.5	3.8	6.3	5.7	5.4	1.2	1.5	1.3	1.8
0.5	0.2	2.4	1.8	4.9	6.1	5.1	4.8	3.5	2.3	1.1	1.8
0.3	1.2	2.3	2.8	5.6	5.8	6.2	3.5	3.7	2.8	1.7	1.0
0.4	0.3	1.8	2.0	6.3	4.8	5.8	4.0	3.0	3.0	0.8	0.6
0.9	2.0	1.4	2.1	6.7	5.2	5.5	4.8	4.0	3.0	0.3	0.4
0.9	1.4	1.5	3.8	7.2	5.5	5.3	5.1	3.5	2.4	1.5	0.0
0.6	1.2	2.6	3.1	6.4	6.0	5.6	4.9	3.5	2.0	1.2	0.5
0.3	1.5	2.5	2.4	5.7	6.0	5.7	4.8	3.0	1.4	0.7	0.4
0.7	1.5	2.6	2.5	4.5	5.5	6.2	2.0	1.7	2.4	-0.1	1.6
1.3	1.5	2.2	2.7	4.7	5.1	6.7	5.1	3.1	2.3	0.4	0.7
1.3	1.1	2.2	4.6	2.0	4.8	6.9	5.4	3.7	2.0	0.6	0.1
1.8	0.7	2.6	4.9	2.9	5.2	7.9	4.8	4.1	2.7	1.0	1.1
2.3	0.9	2.8	5.0	4.1	5.2	6.5	5.0	3.7	1.6	1.6	0.3

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

### ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

2.0	0.6	3.2	4.7	4.2	5.4	6.1	5.4	3.3	1.7	1.0	0.7
1.0	-77.0	1.8	4.1	3.8	5.9	6.0	5.4	2.9	0.7	0.1	1.1
0.9	-77.0	2.6	3.8	5.6	5.8	5.3	5.6	3.6	0.3	0.9	0.3
0.7	-77.0	2.1	-77.0	5.8	-77.0	4.4	4.4	-77.0	2.3	-77.0	0.7
Jan_2011	Fev_2011	Mar_2011	Abr_2011	Mai_2011	Jun_2011	Jul_2011	Ago_2011	Set_2011	Out_2011	Nov_2011	Dez_2011
0.5	1.7	3.0	4.3	2.7	6.2	3.3	1.1	2.5	4.0	1.1	0.8
0.1	1.8	2.6	1.8	3.5	7.2	5.3	3.5	2.5	4.0	1.0	1.6
0.1	1.7	2.8	2.8	3.8	6.1	2.4	5.2	3.2	3.6	1.7	1.8
0.1	1.7	2.2	4.1	2.8	5.0	5.7	5.5	4.2	4.2	0.7	0.3
0.1	1.6	1.6	4.8	4.4	5.6	5.5	5.5	4.9	4.1	1.8	0.8
0.4	1.6	1.9	4.8	3.5	2.7	5.7	3.1	5.0	4.7	2.4	0.8
1.2	1.4	1.6	4.4	4.1	3.7	5.7	5.5	5.3	4.2	1.9	1.1
0.5	0.8	0.6	4.9	3.9	4.1	5.2	6.4	4.4	4.9	0.1	0.0
0.8	1.4	1.8	3.2	5.3	2.7	4.5	6.5	4.1	4.5	0.1	0.1
0.2	1.6	2.4	4.3	5.4	5.0	5.7	6.1	2.4	4.0	0.8	0.0
0.6	1.2	1.1	4.9	5.1	5.6	4.8	5.5	3.7	3.6	0.8	0.9
0.7	1.4	1.7	5.2	5.3	5.7	4.4	5.0	4.5	3.6	2.1	0.7
0.1	0.7	1.5	5.3	5.4	4.5	6.3	5.3	4.6	3.8	1.8	0.8
0.1	0.4	1.0	5.4	5.4	5.8	6.3	4.8	4.3	3.2	1.4	0.9
0.2	1.3	2.4	4.9	6.8	5.5	6.0	4.8	3.9	2.7	1.4	0.9
0.6	1.5	2.5	4.6	4.8	5.7	5.1	4.2	3.7	2.0	1.2	1.0
0.7	2.1	2.2	4.6	3.6	5.4	5.6	5.1	4.0	2.9	1.6	0.8
0.7	0.6	3.1	2.9	1.7	5.9	5.4	4.8	4.7	3.1	0.7	1.5
0.9	0.2	3.6	2.2	4.7	6.2	5.6	4.3	5.2	3.0	0.6	1.1
1.3	1.4	4.0	2.9	5.5	6.1	6.3	2.7	5.1	3.2	1.1	1.0
2.2	1.8	3.5	2.6	5.2	5.9	5.9	3.7	4.2	3.1	0.9	1.2
2.6	1.7	2.6	1.3	5.2	6.2	5.9	2.5	2.8	2.0	0.8	0.5
2.2	2.4	3.6	2.5	5.7	6.1	5.7	4.5	3.4	1.5	1.3	1.1
1.1	2.4	2.4	4.5	6.1	6.7	6.1	4.9	2.2	2.0	1.6	1.8
1.7	2.5	2.1	5.1	4.2	6.5	6.3	4.0	3.4	1.8	2.1	1.7
2.1	2.4	1.8	5.0	1.7	5.7	6.0	5.1	3.5	0.7	1.6	1.4
0.5	3.0	2.3	4.6	5.0	4.8	6.5	5.4	3.3	1.9	1.4	1.2
1.0	3.0	0.9	4.3	3.0	5.7	5.6	4.9	3.5	2.8	1.0	1.3
1.0	-77.0	2.7	2.5	3.8	6.2	4.5	4.4	4.0	2.3	0.4	1.5
1.3	-77.0	3.0	1.0	3.0	6.2	4.7	3.2	3.3	2.3	0.7	1.3
1.9	-77.0	3.7	-77.0	5.2	-77.0	5.1	2.1	-77.0	1.2	-77.0	1.2
Jan_2012	Fev_2012	Mar_2012	Abr_2012	Mai_2012	Jun_2012	Jul_2012	Ago_2012	Set_2012	Out_2012	Nov_2012	Dez_2012
0.4	1.1	1.2	1.7	3.0	5.5	6.2	5.6	6.8	3.1	1.1	1.4
0.9	1.9	1.6	1.8	2.1	2.8	6.2	6.0	6.9	3.2	0.6	1.2
0.9	2.3	1.5	1.7	2.7	5.0	5.7	5.8	6.0	3.2	0.4	0.8
1.6	2.3	1.8	2.6	3.2	5.3	4.6	5.6	6.2	3.2	0.4	0.4
1.3	1.7	2.7	3.0	3.5	5.4	5.4	4.9	5.4	2.8	0.8	0.5
1.4	2.1	2.4	2.4	4.2	2.5	5.8	5.5	4.8	2.3	2.0	-0.1
1.6	2.3	3.2	3.4	0.2	4.8	4.2	5.9	3.8	2.9	0.5	0.5

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

1.6	2.3	2.7	4.1	3.0	4.8	5.9	5.8	4.0	2.7	1.1	0.4
1.4	2.1	3.9	3.8	4.7	4.5	5.9	5.7	3.6	1.2	0.6	0.7
1.3	1.8	3.1	1.6	5.4	4.4	4.9	5.3	3.8	2.1	1.0	0.9
1.1	1.9	3.0	1.6	2.5	4.5	5.8	5.5	4.0	2.1	1.9	0.7
0.7	2.8	3.0	2.8	3.5	4.6	6.1	5.2	4.8	2.7	2.1	0.4
0.8	2.7	3.3	2.2	3.6	6.0	5.5	4.8	5.1	2.7	1.7	0.8
1.1	2.2	3.5	2.5	5.7	4.1	6.1	3.7	5.4	2.0	1.3	0.3
0.6	2.5	1.5	3.6	5.6	4.1	6.7	3.6	5.0	2.7	0.5	0.4
1.3	2.2	1.6	4.5	5.8	3.9	7.2	5.1	3.6	1.8	0.3	0.2
1.6	2.4	1.4	2.5	4.0	4.2	7.6	5.2	3.2	0.5	1.0	0.0
1.4	2.2	2.5	1.7	4.2	4.7	7.7	4.8	3.9	0.0	1.9	0.3
1.4	1.9	3.8	2.2	3.4	5.7	6.6	4.8	4.0	1.1	1.0	0.0
0.9	2.2	4.2	1.7	2.9	4.4	6.2	5.2	3.7	2.0	0.5	0.9
1.5	2.1	3.5	2.1	3.7	5.6	6.4	5.3	3.4	0.8	1.2	0.8
1.2	2.2	3.5	2.4	4.8	6.3	6.7	5.1	3.6	1.1	1.1	0.2
0.8	2.7	3.9	2.1	5.5	6.5	5.5	5.0	2.8	1.8	0.6	0.3
1.3	2.7	1.7	3.0	5.4	7.3	5.4	4.6	3.1	1.5	0.1	0.7
1.0	2.3	3.7	1.0	4.8	5.6	5.3	4.7	1.9	0.8	0.0	1.0
0.6	2.1	4.0	1.4	4.5	5.7	5.0	5.0	2.7	1.5	0.6	0.9
2.1	2.0	4.9	2.8	4.4	5.7	4.5	3.6	2.5	2.0	1.2	0.8
1.8	1.5	5.5	2.2	5.5	5.4	3.8	3.9	1.4	2.8	1.3	0.9
1.7	1.9	4.1	2.4	4.9	5.1	5.7	4.9	3.4	1.2	1.6	0.7
1.6	-77.0	1.2	3.6	5.5	4.7	5.7	5.4	3.4	1.8	0.4	0.6
1.3	-77.0	1.7	-77.0	5.1	-77.0	5.5	6.6	-77.0	0.4	-77.0	0.2
Jan_2013	Fev_2013	Mar_2013	Abr_2013	Mai_2013	Jun_2013	Jul_2013	Ago_2013	Set_2013	Out_2013	Nov_2013	Dez_2013
0.8	0.9	2.2	2.7	2.5	6.2	6.1	5.7	4.7	0.4	1.5	1.9
0.9	1.8	1.7	3.1	4.4	6.8	5.0	5.5	4.8	1.1	0.9	1.5
1.3	1.9	1.3	1.8	4.5	6.8	6.2	5.6	4.9	2.7	1.5	1.5
1.3	1.6	0.3	1.5	5.1	5.7	6.9	5.8	4.8	2.5	1.2	1.5
1.1	1.7	1.1	3.6	5.5	4.8	6.8	4.7	4.0	2.7	0.8	1.3
0.3	1.8	1.1	3.8	3.3	2.6	7.2	4.8	4.1	3.3	0.7	1.4
0.1	2.1	1.2	2.6	3.0	3.0	7.1	5.2	4.2	3.6	0.9	1.3
0.8	2.0	0.9	2.8	2.5	1.7	6.5	6.0	4.7	3.4	1.7	0.9
0.3	1.8	2.1	1.1	3.8	1.0	6.8	6.9	5.1	3.5	1.7	1.1
0.4	0.6	2.0	1.1	4.9	2.2	6.5	6.5	4.1	3.5	1.5	1.3
0.6	1.5	1.6	2.2	5.1	3.5	3.6	5.8	4.4	2.9	1.9	0.8
0.9	1.0	1.6	3.1	5.4	5.4	1.4	5.0	5.3	1.4	1.8	0.5
1.1	1.8	2.7	3.6	5.5	5.4	1.1	5.2	5.1	2.5	2.1	0.4
1.1	2.0	3.0	4.0	4.7	6.0	2.6	5.4	4.2	1.4	2.5	1.3
0.4	1.6	2.3	2.9	4.3	5.8	4.3	5.0	4.0	2.1	2.0	1.2
0.4	0.7	1.2	4.2	2.7	5.1	5.1	5.1	3.9	2.0	1.8	1.0
0.3	0.1	1.2	4.3	3.2	4.5	5.0	5.4	3.9	1.9	1.5	0.1
0.3	0.8	2.6	4.4	3.7	3.7	4.3	5.4	4.1	0.7	1.5	0.2
1.4	1.5	0.5	4.6	2.8	3.5	5.2	6.3	3.8	1.7	1.7	0.9

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.4	1.3	2.5	5.3	4.1	5.7	5.5	5.7	4.4	1.5	1.5	1.4
1.1	1.5	2.3	4.8	4.9	4.7	5.2	4.7	4.4	1.3	0.5	1.0
1.4	1.0	2.6	4.6	4.7	6.3	5.1	4.7	4.0	1.5	-0.1	0.8
0.9	2.0	1.2	5.1	4.8	6.8	5.7	5.4	3.2	0.5	0.5	0.1
0.3	2.4	2.8	4.7	5.2	7.6	5.5	5.3	3.1	0.4	1.9	0.3
0.5	2.2	0.8	5.1	5.2	7.6	3.9	5.2	1.3	0.7	1.8	0.7
0.8	2.6	0.6	4.1	4.9	6.4	4.4	4.8	2.4	1.4	1.8	0.8
0.3	1.8	1.4	4.6	3.4	6.2	5.0	4.5	1.5	2.1	1.7	0.3
1.2	1.9	1.4	4.8	4.4	6.3	4.5	4.4	1.4	0.5	1.8	1.2
1.2	-77.0	0.4	3.0	3.1	6.7	5.2	4.6	0.7	2.6	1.7	0.8
1.0	-77.0	2.8	2.8	5.2	7.3	6.2	5.1	0.3	2.5	1.3	0.4
1.2	-77.0	0.1	-77.0	5.6	-77.0	6.0	5.5	-77.0	2.2	-77.0	0.1
Jan_2014	Fev_2014	Mar_2014	Abr_2014	Mai_2014	Jun_2014	Jul_2014	Ago_2014	Set_2014	Out_2014	Nov_2014	Dez_2014
0.1	1.5	0.2	0.5	5.0	6.3	4.0	4.5	4.9	3.7	1.2	1.4
0.2	1.2	0.6	2.5	5.9	5.0	4.2	2.9	4.5	3.7	1.4	0.8
0.1	1.6	2.4	2.6	6.7	5.1	5.5	4.4	2.6	3.3	0.8	1.0
0.5	0.4	1.5	0.9	6.0	5.0	5.1	5.4	4.0	2.5	1.2	1.0
1.0	0.8	2.2	1.2	5.3	4.5	5.1	5.4	4.2	2.6	1.5	0.9
0.3	0.5	2.1	2.9	4.7	1.3	2.6	5.4	2.1	2.2	0.8	1.1
0.1	1.3	2.7	3.8	4.7	4.7	5.5	4.5	3.6	1.0	1.0	1.0
0.4	0.9	3.6	4.2	4.8	4.4	5.7	3.4	2.7	1.3	0.8	1.1
1.4	0.5	1.8	2.1	5.1	4.5	6.5	4.7	3.7	0.5	1.1	1.0
0.9	1.8	3.9	3.6	5.0	5.1	7.2	4.5	0.6	2.3	0.0	0.9
0.7	0.1	3.9	2.4	5.6	6.0	7.1	5.1	2.8	0.9	1.0	0.7
0.2	0.0	3.2	2.4	5.7	6.3	6.5	4.9	2.7	0.6	1.3	0.1
1.2	0.8	2.7	2.6	5.9	6.5	5.6	5.7	2.8	0.2	0.2	0.1
0.6	0.8	3.1	1.7	6.5	6.7	5.7	5.6	3.2	1.7	1.0	0.7
0.1	1.4	3.2	2.9	6.1	7.2	5.8	5.6	2.4	1.1	0.7	1.3
0.9	1.6	3.3	2.5	5.2	6.2	6.1	5.8	2.3	1.7	0.7	0.6
0.2	0.5	2.9	3.9	5.8	3.2	5.4	5.6	3.0	1.5	0.4	0.7
0.9	1.4	3.0	3.1	5.0	3.6	3.8	5.1	2.4	1.6	0.4	1.0
1.3	1.3	2.8	3.0	3.1	5.1	3.4	4.7	2.9	2.4	-0.2	0.5
0.9	0.5	2.3	1.3	2.1	5.0	4.5	4.9	2.7	2.9	0.0	0.4
0.0	1.5	0.8	3.3	3.0	4.3	5.8	4.7	3.1	2.5	0.9	0.8
1.2	1.0	2.3	3.2	3.7	2.6	5.6	4.8	0.9	2.2	0.3	0.8
1.8	1.9	2.1	2.8	3.3	1.9	5.2	4.7	2.4	3.3	0.0	0.5
1.2	1.8	1.5	3.1	4.3	3.7	4.7	5.0	2.8	2.1	1.0	0.7
0.7	1.4	1.7	3.9	4.1	4.1	3.7	4.9	3.3	2.3	0.4	0.9
0.2	1.9	3.2	1.6	4.5	5.2	4.7	4.1	3.1	2.0	0.0	0.9
1.2	0.5	1.2	4.4	3.4	5.6	4.8	5.0	1.3	1.4	0.3	0.2
0.6	1.8	2.2	4.3	2.8	4.2	4.8	4.8	2.5	1.0	0.3	0.3
1.3	-77.0	2.2	4.7	2.5	5.5	5.5	5.1	2.9	2.1	1.3	1.4
1.1	-77.0	1.3	4.8	4.5	5.5	5.2	4.7	2.6	2.2	0.7	1.5
0.6	-77.0	0.7	-77.0	5.8	-77.0	1.8	4.6	-77.0	1.6	-77.0	1.2

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

Jan_2015	Fev_2015	Mar_2015	Abr_2015	Mai_2015	Jun_2015	Jul_2015	Ago_2015	Set_2015	Out_2015	Nov_2015	Dez_2015
0.9	1.1	1.0	4.7	3.2	4.8	2.7	5.7	4.0	3.2	0.1	0.5
1.0	0.6	0.7	4.5	3.5	5.6	5.3	5.8	4.2	2.8	0.3	0.6
1.1	0.7	1.7	3.0	0.8	5.7	5.8	4.5	3.8	2.2	0.9	1.1
0.9	1.9	2.8	4.1	1.7	5.6	5.2	5.7	4.1	1.3	1.1	0.9
0.7	1.8	3.8	3.9	3.4	5.7	6.1	5.5	3.1	1.2	0.3	1.1
0.6	1.0	3.2	1.4	3.7	5.9	5.9	5.5	4.1	2.0	1.5	0.3
0.2	1.5	3.2	2.5	4.2	4.7	6.1	5.5	4.6	2.9	1.7	0.1
0.7	1.8	3.2	0.7	4.0	5.7	5.7	5.9	4.0	2.9	1.7	0.6
1.4	2.0	2.8	1.7	4.6	5.7	5.3	5.3	3.7	2.1	1.7	0.7
1.1	0.3	2.5	1.7	5.2	4.0	5.2	5.8	4.2	0.3	1.7	0.7
1.0	1.3	2.5	3.7	5.3	2.7	5.9	5.0	3.8	1.1	1.5	0.5
0.9	1.3	2.1	3.6	4.6	3.0	5.5	3.5	3.6	1.2	1.3	1.0
0.7	1.1	3.1	4.5	4.4	2.9	5.4	4.9	2.1	1.8	1.2	0.3
0.5	0.6	3.3	2.7	4.8	1.8	5.5	4.8	2.8	2.7	1.4	0.2
0.2	0.8	3.0	1.7	5.6	4.2	5.5	4.5	1.3	2.5	1.3	1.8
0.8	1.3	2.7	2.8	6.3	5.5	6.0	2.8	2.5	1.5	1.0	1.0
0.5	3.2	0.4	3.4	7.0	6.6	3.9	4.5	3.1	1.4	1.2	1.0
0.2	2.7	1.5	2.8	5.1	7.1	5.3	4.9	4.1	1.0	1.3	1.0
2.1	2.3	2.6	3.2	5.3	6.7	5.0	5.1	4.5	0.9	1.1	1.0
0.6	1.0	2.4	3.7	5.4	6.7	5.7	5.5	4.3	2.2	1.1	0.7
0.7	2.0	1.8	3.0	6.3	5.1	5.6	5.2	3.9	2.8	1.6	0.6
0.5	1.3	1.8	4.0	6.7	5.0	6.4	3.8	3.8	2.5	1.0	0.1
0.6	1.0	2.8	3.8	6.6	4.0	6.2	3.8	3.7	1.0	1.6	0.1
1.3	1.4	3.0	1.5	6.0	5.4	4.3	3.6	3.4	0.2	1.2	0.3
1.3	1.2	3.7	1.4	5.5	5.8	6.0	4.7	3.2	0.2	1.2	0.7
1.4	1.1	2.0	2.6	6.3	6.3	6.1	4.3	3.3	1.3	1.6	0.8
1.3	2.4	3.0	3.2	6.7	6.7	6.1	3.4	3.4	1.4	1.4	1.1
1.4	0.8	3.1	3.6	6.1	7.2	6.1	4.7	3.2	1.6	1.4	0.3
0.2	-77.0	3.1	2.8	5.9	6.2	5.5	4.5	2.2	1.4	1.5	0.6
0.1	-77.0	3.6	4.1	5.7	4.5	4.4	4.2	3.1	1.1	1.4	0.2
1.3	-77.0	3.9	-77.0	5.3	-77.0	4.3	3.6	-77.0	1.6	-77.0	0.6
Jan_2016	Fev_2016	Mar_2016	Abr_2016	Mai_2016	Jun_2016	Jul_2016	Ago_2016	Set_2016	Out_2016	Nov_2016	Dez_2016
0.2	1.4	2.4	3.2	5.5	6.0	4.9	5.5	4.5	3.7	1.7	0.3
0.6	1.4	2.0	1.9	5.9	4.7	6.1	5.6	4.6	3.2	1.2	0.2
0.1	1.6	2.7	1.7	6.2	4.8	6.2	5.8	4.7	3.0	1.6	0.0
0.4	2.1	1.2	1.0	4.2	3.9	3.6	4.8	4.9	3.1	0.5	0.6
0.8	1.5	1.9	3.5	0.4	4.8	5.1	6.1	5.5	3.3	0.6	1.3
0.3	0.7	1.8	3.7	1.2	4.7	4.7	6.4	5.1	3.2	1.5	1.1
0.3	1.5	2.3	3.8	0.3	5.9	4.0	7.1	4.2	2.9	1.8	0.6
0.2	1.1	2.9	3.5	2.3	6.3	6.3	6.3	4.8	3.3	1.5	0.9
0.7	0.8	1.0	1.8	2.1	5.5	6.5	5.6	4.6	2.8	0.9	1.4
0.9	0.3	3.1	2.8	3.1	5.0	6.1	5.9	4.4	2.1	1.5	0.7
1.3	0.9	3.1	2.9	1.7	5.7	6.0	6.2	4.3	1.7	0.7	1.0

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

### ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.7	0.1	2.8	2.8	2.3	5.7	6.3	6.4	4.0	1.2	0.8	0.9
1.1	0.2	2.9	2.8	2.6	2.8	6.7	6.4	3.7	1.7	1.6	0.4
0.2	1.8	2.3	0.8	1.9	4.2	7.1	5.7	3.5	2.6	2.2	1.1
1.5	2.5	1.1	1.3	4.2	3.9	7.8	5.0	2.7	2.0	2.5	0.4
1.5	2.5	1.7	2.6	4.3	4.5	7.0	4.9	4.0	1.3	1.9	0.9
0.5	0.8	2.4	3.5	4.6	4.8	6.6	4.1	4.4	0.8	1.4	1.5
1.1	2.0	0.7	2.6	4.7	5.9	6.0	5.2	4.6	2.2	0.3	1.9
0.7	2.6	1.8	2.8	5.0	6.6	5.4	2.8	4.4	2.1	1.3	1.3
0.8	2.7	1.5	2.6	5.4	6.4	5.8	5.5	3.6	1.8	0.1	1.0
-0.1	2.0	1.6	2.0	3.4	6.3	5.9	5.5	3.7	0.5	1.2	0.9
0.1	2.1	2.8	2.6	5.1	5.7	5.5	5.5	3.3	1.0	0.9	0.8
1.0	1.2	2.5	3.0	4.1	4.8	6.8	5.4	3.8	1.4	1.5	0.8
1.5	1.1	3.3	4.0	2.5	5.2	7.1	4.9	3.3	0.8	1.1	0.9
0.2	1.5	2.7	4.6	3.7	5.4	6.6	4.7	3.5	1.1	0.8	1.2
1.1	0.8	0.6	4.1	4.3	5.9	6.1	4.8	4.0	2.0	0.5	1.0
0.9	1.2	3.0	3.5	2.9	6.6	5.3	4.9	4.4	1.9	1.1	0.9
1.0	2.4	1.8	4.1	3.3	6.3	5.7	5.1	4.7	2.2	1.0	1.0
1.5	2.7	2.7	3.7	4.1	5.9	5.6	5.0	4.2	2.0	0.8	1.2
1.2	-77.0	2.1	4.8	4.5	5.5	4.4	4.4	3.7	2.3	0.5	1.1
0.9	-77.0	3.1	-77.0	5.4	-77.0	5.4	4.2	-77.0	2.1	-77.0	1.0
Jan_2017	Fev_2017	Mar_2017	Abr_2017	Mai_2017	Jun_2017	Jul_2017	Ago_2017	Set_2017	Out_2017	Nov_2017	Dez_2017
0.5	1.2	0.6	3.4	4.4	5.3	6.7	5.5	5.4	4.1	1.2	1.3
0.3	1.2	1.6	3.8	5.0	5.5	7.2	5.8	5.9	4.3	0.7	1.4
0.4	0.8	1.1	4.0	5.2	5.3	7.3	6.0	5.0	3.7	1.1	1.4
0.3	0.4	1.7	4.3	3.4	5.6	5.7	6.0	3.9	3.3	1.3	1.6
0.1	2.0	0.6	4.6	3.4	5.6	2.9	5.5	4.6	3.1	2.5	1.4
0.6	1.5	1.3	5.1	4.1	5.0	4.1	5.7	4.7	3.7	2.2	1.0
1.0	1.0	2.8	4.5	5.1	6.6	5.1	4.9	5.2	4.0	2.0	0.9
1.1	1.9	2.9	4.4	5.0	5.2	2.3	5.8	4.9	3.2	2.5	0.0
1.1	1.0	3.5	4.4	3.1	5.4	5.1	5.8	3.9	2.7	2.6	0.7
0.9	0.5	3.3	4.2	1.8	6.1	5.4	6.5	4.6	2.7	1.9	0.5
1.4	0.3	2.5	4.6	2.9	6.1	6.3	6.7	4.4	3.1	1.6	1.1
0.3	0.8	3.0	4.3	2.9	6.1	6.4	6.5	4.6	3.3	1.7	1.1
1.5	1.6	3.8	3.8	3.4	6.0	6.1	5.4	4.4	2.1	1.9	0.6
1.7	1.3	1.9	3.9	3.9	5.7	6.3	5.2	4.0	2.1	2.0	0.3
1.4	1.4	3.7	4.0	4.3	6.3	6.0	5.2	4.7	4.3	1.7	0.4
1.2	2.3	2.8	4.4	5.1	6.3	5.6	5.7	4.5	1.8	1.5	1.5
1.2	2.1	2.7	4.1	5.2	7.3	5.3	5.7	4.0	2.2	1.4	1.2
2.0	1.2	3.7	3.7	5.0	6.3	3.8	5.7	3.2	1.3	1.4	1.2
1.5	2.2	3.0	4.7	5.4	6.3	4.0	5.9	3.7	1.0	1.6	1.1
0.9	2.9	2.8	4.7	6.0	6.2	5.0	5.9	3.6	0.9	1.7	1.2
1.2	2.5	2.3	4.6	5.0	4.0	5.7	5.0	3.1	2.5	1.4	1.1
1.1	2.4	2.2	4.0	4.9	5.8	5.6	4.6	3.7	3.0	0.8	1.0
1.7	1.6	1.6	4.4	5.8	6.0	5.9	4.6	3.3	2.7	1.1	0.9

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

### ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

1.2	2.0	1.5	4.1	5.7	3.8	5.8	4.7	3.6	2.8	1.0	0.6
0.7	0.9	2.4	2.9	5.7	2.9	6.3	4.9	3.7	2.3	0.1	0.4
0.0	1.0	0.4	3.0	2.6	3.6	6.5	4.9	4.0	2.5	1.2	0.5
1.3	1.2	2.1	5.0	2.6	4.6	5.8	4.1	3.6	3.4	1.3	0.7
0.8	1.2	2.7	5.1	3.1	4.3	6.0	2.6	3.5	3.4	0.3	0.5
0.6	-77.0	3.4	3.7	3.1	4.6	5.4	2.8	3.7	3.2	1.5	0.5
0.7	-77.0	3.0	3.3	5.3	4.8	5.6	4.0	3.5	3.1	1.7	0.3
0.0	-77.0	3.4	-77.0	5.3	-77.0	3.3	4.8	-77.0	2.4	-77.0	0.7
Jan_2018	Fev_2018	Mar_2018	Abr_2018	Mai_2018	Jun_2018	Jul_2018	Ago_2018	Set_2018	Out_2018	Nov_2018	Dez_2018
0.7	1.6	1.5	2.9	4.0	3.9	3.6	5.6	4.9	3.6	1.4	0.7
0.4	2.2	1.1	1.6	1.7	4.1	2.4	5.6	4.0	4.6	0.9	0.5
0.2	1.0	0.5	2.5	4.0	3.0	3.9	5.9	2.7	4.4	0.7	0.8
0.4	1.7	0.9	2.8	5.0	2.2	4.2	6.2	2.4	3.4	0.6	0.9
0.1	2.0	2.0	3.0	4.9	3.6	4.5	6.5	2.9	3.4	1.5	0.9
1.2	2.3	1.1	0.4	4.6	2.4	5.5	5.5	1.8	3.6	1.0	1.1
1.4	2.0	0.7	2.0	4.1	1.0	5.5	4.8	3.2	3.4	1.5	0.5
1.1	1.9	0.6	1.6	4.0	3.5	5.5	5.2	2.5	3.6	1.0	1.2
0.0	0.5	0.3	2.3	2.5	3.1	4.8	5.5	3.9	3.6	1.1	0.9
0.7	2.0	2.3	1.3	4.7	1.6	3.9	5.6	4.7	2.0	0.2	1.2
0.8	0.3	2.4	2.6	4.3	3.4	3.8	5.4	4.9	2.5	0.0	0.1
0.5	2.0	2.1	1.5	4.1	2.8	2.9	5.1	4.5	2.5	1.1	0.6
0.8	1.4	1.8	1.9	4.5	5.1	3.8	5.0	4.3	2.7	1.5	1.3
0.8	1.3	0.5	2.7	4.1	5.3	3.4	5.0	3.8	2.7	1.4	0.7
1.1	0.6	1.8	1.0	5.5	4.9	3.9	4.4	3.5	1.1	1.2	0.5
0.2	1.4	2.1	3.1	5.9	5.8	5.0	4.4	3.9	1.9	1.4	1.1
1.5	0.6	0.5	3.8	5.5	6.2	5.5	4.4	3.8	1.9	0.5	0.7
1.5	2.5	1.7	4.3	3.6	6.2	4.6	5.1	3.9	1.8	0.3	0.1
1.6	2.0	1.3	3.8	4.2	5.7	4.6	6.0	4.0	1.8	0.7	0.5
1.2	2.3	2.7	2.3	3.5	3.7	5.2	5.4	4.0	2.3	1.0	0.8
0.5	2.7	3.2	1.0	3.8	3.5	5.6	4.8	4.1	1.3	1.2	0.7
1.2	2.7	2.9	1.5	2.4	4.4	5.3	4.6	3.9	2.2	0.5	0.8
1.1	2.4	0.8	4.0	3.8	5.3	5.0	4.8	4.5	1.9	1.1	0.8
0.5	2.4	2.4	4.5	2.0	4.7	4.0	5.0	4.3	2.3	0.7	0.5
0.9	2.2	3.0	4.1	3.8	4.5	1.8	5.3	4.1	1.6	0.4	0.8
1.3	0.6	3.4	4.2	3.3	5.1	5.1	4.9	3.9	1.6	1.3	0.5
1.8	0.7	3.5	2.7	4.0	4.7	4.9	2.2	4.2	2.7	0.9	0.2
2.4	0.9	2.6	2.3	3.2	3.6	4.7	1.4	4.3	2.6	0.8	1.1
2.3	-77.0	2.4	3.0	1.8	2.3	5.2	4.4	3.4	2.1	0.0	1.3
2.1	-77.0	2.2	2.9	2.3	3.8	4.8	4.5	3.2	1.0	0.9	1.4
1.9	-77.0	3.0	-77.0	3.9	-77.0	5.1	4.8	-77.0	0.3	-77.0	1.1
Jan_2019	Fev_2019	Mar_2019	Abr_2019	Mai_2019	Jun_2019	Jul_2019	Ago_2019	Set_2019	Out_2019	Nov_2019	Dez_2019
1.0	1.6	2.0	2.8	4.4	7.0	5.2	5.4	4.8	2.9	1.2	0.9
0.9	1.6	2.5	3.0	5.0	6.6	4.0	5.3	4.8	3.2	1.0	2.0
0.5	1.7	2.0	2.8	5.1	5.2	4.4	5.3	5.0	3.2	1.4	1.7



Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.7	1.3	2.0	2.6	5.2	3.4	3.2	5.3	5.3	2.6	1.2	0.9
1.0	1.5	0.7	2.2	4.4	4.6	4.7	5.4	5.2	3.4	1.6	1.5
0.9	1.5	1.8	2.4	3.3	2.7	4.6	4.3	6.4	3.5	0.9	1.4
1.2	1.3	1.0	0.8	1.0	4.6	4.3	3.0	5.7	3.9	1.9	0.8
1.2	1.1	2.6	2.5	0.9	5.0	4.2	2.3	4.9	3.4	1.7	0.1
1.1	1.3	2.7	2.9	0.9	5.0	4.8	3.1	3.9	3.8	0.7	0.9
1.4	0.6	2.6	2.6	2.8	5.3	5.7	4.3	4.7	3.4	1.1	0.8
1.6	1.8	3.0	3.1	5.3	5.4	6.7	4.8	5.2	2.1	1.1	1.0
1.4	1.9	2.6	3.7	7.2	5.9	3.3	5.6	6.2	2.1	1.0	0.5
1.2	1.9	3.4	1.8	7.4	5.1	4.3	5.7	5.6	2.3	1.0	0.7
1.0	2.2	3.3	1.8	6.2	3.5	4.0	5.7	4.7	1.9	1.2	0.7
0.3	1.5	3.2	2.6	5.7	4.5	4.7	6.1	3.8	2.3	1.4	0.4
0.1	2.2	3.0	3.4	3.9	5.2	3.0	5.4	3.2	1.9	1.6	0.1
1.4	1.2	1.8	0.7	3.9	4.3	3.5	5.2	3.3	0.8	0.5	1.1
0.8	0.4	3.4	2.5	3.6	3.0	5.8	3.8	3.4	1.2	1.6	0.4
0.2	2.0	3.6	1.7	4.2	3.5	5.4	5.0	2.6	1.0	0.1	0.2
1.6	1.6	3.9	4.1	3.9	3.2	5.6	5.6	1.7	2.3	0.8	0.2
1.6	1.8	3.3	4.6	4.2	5.5	5.8	5.5	0.9	1.9	1.0	0.7
0.8	2.2	3.8	3.0	5.0	5.2	5.2	5.6	2.2	2.5	1.1	0.5
1.2	2.1	4.3	2.6	4.6	1.3	5.4	5.5	2.9	1.7	1.3	0.3
1.5	2.4	4.0	1.8	5.6	2.1	5.6	5.6	1.4	2.0	0.5	1.0
1.5	2.5	4.3	3.3	6.4	3.8	4.2	3.6	3.4	2.3	1.0	1.0
1.5	2.4	4.9	3.8	6.4	3.2	5.2	3.9	3.6	2.0	0.1	0.6
1.3	1.6	4.5	4.7	5.3	5.0	2.7	4.5	3.5	1.0	0.8	1.1
0.8	1.9	3.9	4.7	6.3	5.6	5.4	4.6	3.4	0.4	0.6	1.2
0.7	-77.0	3.7	5.0	7.6	5.7	5.3	4.8	3.3	1.1	0.3	1.2
0.2	-77.0	2.8	4.4	7.9	5.6	5.9	4.8	2.9	0.1	0.2	1.0
0.5	-77.0	3.1	-77.0	6.7	-77.0	5.3	4.7	-77.0	0.6	-77.0	0.4
Jan_2020	Fev_2020	Mar_2020	Abr_2020	Mai_2020	Jun_2020	Jul_2020	Ago_2020	Set_2020	Out_2020	Nov_2020	Dez_2020
0.6	0.2	0.5	0.8	3.4	3.2	5.5	5.8	5.0	2.2	1.0	1.4
0.2	1.5	2.3	3.2	4.3	3.6	5.8	5.5	5.2	2.0	0.5	1.3
0.9	1.8	1.3	3.4	5.1	5.1	6.0	4.3	5.7	2.7	2.4	1.4
1.1	1.0	2.1	1.6	3.2	4.2	6.5	5.7	5.5	2.3	1.5	0.6
1.1	1.6	2.2	0.9	3.8	5.1	6.4	5.7	5.1	2.2	1.0	1.1
0.9	1.5	2.8	0.2	3.9	4.4	6.4	5.6	5.1	2.8	0.2	0.4
0.9	1.2	2.9	2.0	4.7	3.3	5.5	5.3	5.2	3.2	1.2	0.7
1.0	0.8	2.2	1.1	2.3	5.3	5.2	5.4	5.6	2.8	0.7	0.9
0.4	1.2	2.8	0.8	2.4	5.5	4.7	5.2	4.4	2.9	1.4	0.4
1.3	0.6	2.9	3.0	2.5	5.2	5.9	4.4	4.6	3.2	1.1	0.2
1.3	1.0	3.1	3.2	2.8	2.6	5.6	3.0	4.4	3.8	1.1	0.3
1.1	0.2	2.8	3.3	2.5	2.7	5.7	3.6	3.9	4.2	1.7	0.6
0.7	0.5	2.7	1.7	0.8	4.3	6.2	5.4	3.8	2.9	0.7	0.3
0.4	1.5	2.9	2.1	1.8	4.7	6.7	5.3	3.7	3.0	0.5	0.5
0.7	1.7	2.7	2.5	3.1	4.2	6.6	4.4	3.6	3.1	0.9	1.1

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

### ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.8	0.7	3.1	2.1	4.6	4.2	7.7	4.4	2.9	2.7	1.0	0.6
0.8	1.5	3.0	3.3	5.2	4.7	6.4	4.0	2.6	2.3	0.7	1.0
1.1	2.5	3.8	3.4	5.3	5.5	5.1	4.0	1.4	2.3	0.9	0.6
2.5	2.1	2.5	3.2	5.1	5.5	4.5	4.4	2.6	0.4	2.2	0.5
2.8	1.8	0.2	1.5	5.0	5.6	4.3	1.8	2.8	0.2	2.0	0.8
2.0	2.3	2.2	2.6	4.9	5.6	4.9	4.3	3.4	1.8	2.1	0.4
0.7	2.5	2.4	3.2	5.0	6.2	5.4	5.6	2.3	1.7	1.6	1.0
0.5	2.7	2.8	3.1	5.8	5.7	5.5	5.6	2.1	1.9	1.4	0.4
0.2	2.4	2.9	3.5	5.4	5.3	6.0	5.4	1.6	1.5	1.1	1.2
0.8	1.3	3.1	3.2	5.5	5.2	5.9	5.6	3.4	0.7	0.4	1.4
0.9	2.2	2.9	2.5	5.3	5.0	5.5	5.3	3.8	2.1	1.0	1.7
0.4	2.2	3.2	2.6	6.2	4.2	5.4	5.0	3.5	1.2	1.0	1.0
0.6	1.9	3.5	2.8	6.0	5.8	5.3	4.7	3.1	1.2	0.2	0.9
0.6	1.4	2.6	1.9	5.7	5.9	5.4	5.3	3.5	2.1	0.3	0.9
0.3	-77.0	0.6	3.6	4.9	5.6	5.3	5.6	3.2	2.1	0.5	0.7
0.1	-77.0	1.3	-77.0	4.9	-77.0	5.7	5.7	-77.0	1.7	-77.0	0.7

#### 2.2.2 SADO

Tabela 15. Evapotranspiração de referência diária na região de cálculo de Sado (mm)

Jan_2003	Fev_2003	Mar_2003	Abr_2003	Mai_2003	Jun_2003	Jul_2003	Ago_2003	Set_2003	Out_2003	Nov_2003	Dez_2003
-0.1	1.7	0.2	2.5	3.8	4.2	4.5	6.4	3.3	1.0	1.8	0.8
0.0	1.5	1.0	3.0	4.3	4.3	3.0	4.4	4.3	2.8	0.8	1.2
0.7	1.6	1.7	4.4	4.9	1.7	4.5	5.0	3.4	2.3	0.6	0.3
0.5	1.6	2.5	3.9	3.7	3.8	5.9	5.4	3.6	3.5	0.6	1.1
0.3	1.9	1.8	3.5	2.9	5.8	5.7	5.8	4.4	3.7	0.7	0.3
0.9	1.4	2.5	3.9	4.8	6.5	5.9	6.1	4.7	3.7	1.7	0.7
0.8	0.8	1.1	4.4	4.4	6.3	6.1	5.9	4.5	4.0	0.9	0.7
0.9	1.2	2.6	3.7	4.7	6.5	6.3	4.9	3.4	3.6	0.9	0.5
1.1	1.5	2.4	2.8	4.8	5.8	6.6	4.3	4.8	3.2	0.0	0.6
1.7	1.0	2.6	1.4	5.3	5.6	6.4	4.9	6.0	2.5	0.9	1.2
1.4	0.5	2.6	1.7	4.9	6.3	5.2	5.6	6.5	0.1	1.4	0.9
1.1	0.8	1.5	1.4	5.5	7.4	3.0	5.3	6.3	1.9	0.8	0.8
1.1	1.6	2.4	1.1	5.3	5.2	2.4	5.7	4.9	2.0	0.5	1.1
0.9	1.9	2.5	0.7	6.0	5.5	3.3	6.2	4.6	2.3	0.3	0.8
0.8	1.9	2.7	2.0	5.8	3.3	5.0	4.8	3.9	1.0	0.8	0.7
0.8	1.8	1.8	3.2	4.8	3.8	4.9	4.0	4.4	1.8	2.4	0.3
0.2	1.4	0.4	3.1	5.0	5.6	6.0	3.2	4.6	1.9	2.5	0.2
0.5	0.4	2.4	1.7	4.7	7.0	5.8	5.1	4.2	0.3	2.1	0.7
1.1	0.6	2.2	3.1	5.1	7.2	5.7	5.4	3.6	1.6	1.4	0.4
0.2	1.5	3.3	2.0	6.5	6.3	6.0	5.4	3.2	1.6	1.0	0.1
1.1	0.6	3.6	3.5	7.1	5.7	5.7	4.7	3.0	1.6	0.3	0.8
0.7	0.9	2.3	2.7	7.4	4.9	6.0	4.4	3.1	2.4	0.6	1.3

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

1.3	1.1	1.9	2.3	6.6	4.1	5.9	4.4	4.1	2.4	0.6	1.3
1.5	0.4	1.0	2.3	5.7	5.1	5.9	4.2	3.2	1.3	0.4	1.3
1.8	0.6	2.0	0.8	5.9	5.5	5.8	4.7	3.4	0.4	1.5	0.7
2.2	0.7	1.3	3.6	6.7	5.7	5.6	5.1	3.3	1.6	0.4	0.4
2.2	1.5	1.9	3.2	7.0	6.0	5.2	1.8	2.4	0.7	1.0	0.3
2.0	1.3	2.6	1.8	6.3	5.7	6.6	2.5	2.7	1.3	0.4	1.1
2.1	-77.0	0.5	1.6	3.9	1.5	7.2	4.1	2.1	1.9	0.4	0.7
2.1	-77.0	2.7	3.5	1.5	3.6	7.3	3.3	0.0	1.1	0.5	1.1
2.1	-77.0	2.7	-77.0	5.6	-77.0	6.8	3.0	-77.0	1.6	-77.0	0.2
Jan_2004	Fev_2004	Mar_2004	Abr_2004	Mai_2004	Jun_2004	Jul_2004	Ago_2004	Set_2004	Out_2004	Nov_2004	Dez_2004
0.3	0.0	0.9	2.4	3.5	6.0	6.6	4.5	2.8	3.3	1.9	0.6
1.6	1.2	2.4	2.3	3.0	5.8	7.5	4.5	1.3	3.7	0.6	0.3
1.3	1.3	2.4	3.2	3.5	5.3	7.3	3.6	2.9	3.8	0.7	1.2
1.1	1.4	2.3	3.6	4.1	5.1	6.6	5.7	3.4	3.4	1.1	1.4
0.8	1.4	1.3	4.0	1.5	5.0	6.4	5.8	3.3	3.1	1.7	1.3
0.7	1.2	0.9	4.0	2.3	4.9	5.8	6.0	3.3	2.6	2.0	1.2
0.1	0.8	1.7	3.6	2.7	5.3	4.6	5.3	3.8	3.0	1.3	0.9
0.0	1.2	2.4	3.1	4.7	5.8	5.6	1.6	3.3	2.2	1.8	0.9
0.4	0.5	2.0	4.7	1.6	5.6	6.2	2.2	3.4	2.3	1.7	0.7
0.5	0.8	2.1	4.4	2.9	5.9	4.1	4.0	3.4	2.3	2.4	0.8
1.0	1.6	1.2	3.9	3.1	6.3	6.5	2.7	4.3	1.8	2.3	0.5
0.4	1.8	0.2	3.9	3.9	6.1	7.0	5.2	4.9	2.9	2.3	0.6
0.2	1.4	2.7	4.1	5.3	5.9	7.6	5.2	3.7	2.9	2.3	0.3
0.5	1.2	3.1	4.7	5.9	6.7	6.1	5.9	3.4	1.7	2.2	1.0
-0.1	1.2	3.4	4.4	5.3	7.3	5.0	4.8	4.7	1.6	1.2	1.2
1.1	1.3	2.8	2.4	5.0	5.8	5.1	2.8	5.2	1.2	1.2	1.1
0.3	0.5	2.0	2.9	5.0	6.6	5.9	4.1	4.7	1.1	1.2	1.1
1.8	1.0	2.9	1.4	5.4	6.4	5.9	2.7	4.3	0.3	1.2	1.3
1.8	2.3	3.3	2.7	5.5	4.9	5.5	4.2	4.3	0.1	1.1	0.7
1.1	1.7	3.2	2.4	4.3	5.7	5.5	4.6	3.8	1.1	1.4	1.6
1.1	2.0	3.1	0.8	1.6	4.9	5.2	5.6	4.2	1.7	1.0	1.6
1.0	1.0	3.9	3.8	3.8	4.2	5.2	4.1	3.1	1.9	1.4	1.8
0.6	0.0	3.4	4.7	3.3	3.8	5.3	5.2	3.7	2.0	1.5	1.5
1.4	1.5	1.7	5.1	2.7	4.4	6.3	5.7	3.3	0.4	1.5	0.9
0.4	0.7	3.7	5.3	2.6	6.3	8.2	6.0	3.3	0.9	1.2	1.3
0.6	2.1	2.1	5.1	4.6	6.7	7.7	5.4	3.8	1.4	1.0	1.2
0.4	1.9	0.6	4.4	5.1	7.2	6.3	4.9	3.5	1.2	0.3	1.5
1.5	1.5	1.2	3.7	4.3	7.3	6.0	5.2	3.0	1.2	0.1	0.6
0.0	2.0	1.9	4.6	4.5	7.0	5.8	5.0	3.8	1.1	0.0	1.5
0.5	-77.0	1.6	3.0	4.8	6.5	5.6	4.8	3.6	1.3	0.5	1.3
0.0	-77.0	2.3	-77.0	6.0	-77.0	5.7	4.2	-77.0	1.3	-77.0	1.0
Jan_2005	Fev_2005	Mar_2005	Abr_2005	Mai_2005	Jun_2005	Jul_2005	Ago_2005	Set_2005	Out_2005	Nov_2005	Dez_2005
0.5	1.4	2.3	3.0	2.7	6.5	6.7	6.1	4.9	4.8	0.7	0.9
1.3	1.5	2.1	0.7	3.7	6.0	6.4	7.2	5.1	4.4	1.4	0.8

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

1.1	1.5	1.6	1.8	3.7	6.0	6.4	8.0	4.6	4.6	0.1	0.7
0.8	1.5	3.5	2.0	4.5	6.3	6.3	7.8	4.7	4.0	2.1	0.5
1.0	0.9	2.9	3.4	5.8	7.1	7.0	4.9	4.4	3.8	2.4	0.5
0.9	1.0	2.8	2.8	6.3	6.8	7.1	5.4	2.6	3.6	1.9	1.6
0.8	1.0	2.8	3.4	4.4	5.9	6.3	4.9	3.7	3.1	1.7	1.6
0.8	1.7	2.3	3.9	4.6	5.4	5.5	4.7	4.4	2.7	1.1	1.3
0.8	1.9	1.9	4.8	3.3	5.8	6.0	2.8	2.1	0.2	2.2	1.5
0.6	2.0	1.2	4.6	3.8	5.3	5.6	3.6	3.3	1.6	2.4	1.7
0.8	2.1	2.2	4.7	2.1	5.1	5.4	4.8	3.3	1.5	1.9	1.4
0.9	1.8	1.6	5.0	3.6	2.7	5.9	5.6	4.5	1.4	0.7	1.3
0.5	1.9	2.2	3.9	3.8	3.6	5.5	5.8	5.4	2.9	1.1	1.3
0.3	3.1	2.4	2.3	4.2	4.1	5.6	5.4	5.1	1.8	1.6	1.2
0.0	2.3	2.5	3.9	4.6	5.9	6.1	4.8	3.2	1.9	0.9	1.1
1.2	2.6	2.5	3.5	3.5	7.3	5.9	4.9	3.1	1.5	1.0	0.9
1.5	2.6	3.2	1.2	5.2	6.6	5.2	4.4	4.5	0.7	0.2	0.8
1.2	2.5	2.6	3.4	4.9	5.1	6.3	5.7	5.3	1.9	0.4	0.8
2.0	2.3	1.4	2.8	5.7	4.9	6.7	3.9	4.5	1.6	0.3	0.9
1.8	2.2	1.7	2.5	5.4	5.8	6.2	6.4	4.3	1.6	0.1	1.1
1.6	2.4	0.2	3.7	4.0	5.5	5.8	7.5	3.9	0.3	0.2	1.1
1.2	1.6	3.0	2.9	5.1	5.4	5.6	6.9	3.8	1.2	0.6	1.2
0.8	1.4	1.2	1.9	5.8	4.3	5.9	6.1	3.9	1.7	1.4	0.3
0.7	1.8	2.2	3.5	6.3	2.4	3.6	5.7	4.0	2.0	2.1	0.4
1.8	2.6	1.8	3.9	5.3	5.2	4.3	5.1	3.7	1.7	1.3	-0.1
1.3	1.0	2.5	4.6	5.3	4.1	3.7	5.3	4.3	2.3	1.1	0.5
1.9	0.8	2.3	5.0	2.7	5.1	3.5	5.1	4.3	0.3	0.8	0.8
1.5	2.8	0.7	4.7	4.3	4.5	4.3	5.1	3.8	1.3	0.7	0.6
1.1	-77.0	2.4	4.7	3.8	4.8	5.4	4.8	3.6	1.2	1.2	0.7
1.6	-77.0	3.0	4.1	4.3	5.0	6.2	4.4	4.1	0.6	1.3	0.5
1.7	-77.0	3.8	-77.0	3.6	-77.0	6.1	4.8	-77.0	0.8	-77.0	0.5
Jan_2006	Fev_2006	Mar_2006	Abr_2006	Mai_2006	Jun_2006	Jul_2006	Ago_2006	Set_2006	Out_2006	Nov_2006	Dez_2006
1.0	1.2	2.6	2.7	4.3	3.8	4.5	5.6	4.6	2.7	1.6	0.7
1.6	0.9	1.6	2.7	3.9	5.7	3.7	5.9	5.1	1.4	0.1	0.4
1.4	0.7	0.9	2.8	3.8	7.7	4.3	5.7	5.7	2.7	0.9	0.8
1.1	1.2	1.1	2.3	3.3	6.4	4.0	5.8	5.2	2.3	0.5	0.5
0.6	1.8	2.5	1.6	3.5	5.6	5.3	5.4	4.3	3.3	1.2	0.3
0.7	1.5	1.7	2.0	4.5	4.3	6.4	6.0	3.8	2.4	0.4	0.8
0.8	1.5	0.8	0.9	4.2	5.5	6.9	5.4	4.1	2.8	1.2	0.3
1.0	1.3	1.6	3.5	3.7	5.2	6.5	4.6	4.5	2.9	1.5	1.6
1.0	0.5	1.5	2.9	4.9	5.0	6.8	6.4	5.2	2.6	1.4	1.2
1.0	1.3	2.4	2.9	5.1	5.1	5.0	5.5	4.2	0.8	1.7	1.5
1.1	1.8	2.2	3.8	4.7	5.7	3.4	4.7	2.6	1.9	1.7	1.4
0.8	1.9	3.0	3.8	4.4	5.4	7.0	5.2	4.4	3.6	1.7	1.1
0.8	1.6	3.1	3.8	5.0	1.8	6.0	4.9	1.8	3.0	1.4	1.3
1.0	2.1	3.2	0.7	4.2	1.4	6.3	4.6	3.5	2.4	1.1	1.0

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

## ANEXO 8 – Necessidades Hídricas das Culturas

### ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.0	1.5	2.0	2.9	4.1	2.2	6.8	4.6	3.8	1.9	0.2	1.0
1.0	1.3	1.4	2.6	4.9	3.2	6.7	3.3	4.5	0.5	1.3	0.9
0.6	1.8	0.5	3.3	4.2	2.4	5.8	4.3	4.0	2.2	0.8	0.7
0.5	1.4	1.4	3.5	5.3	4.8	2.8	4.2	4.2	1.7	1.1	1.0
1.4	1.8	2.1	3.8	5.0	5.6	5.4	3.9	3.9	0.8	1.1	1.3
1.4	1.5	1.5	2.3	4.9	5.4	5.8	6.4	3.8	0.9	1.1	1.3
1.2	2.1	1.3	2.8	4.1	6.2	5.8	7.0	1.8	1.4	0.8	1.3
0.8	2.5	1.2	1.4	4.7	6.4	6.0	5.1	3.2	0.6	0.7	1.1
1.1	0.9	0.4	3.2	5.1	6.0	6.1	5.3	2.6	1.5	0.6	1.1
0.2	1.6	1.7	4.3	5.7	4.3	5.9	5.9	2.0	0.3	0.2	1.1
1.0	0.1	1.9	4.2	6.6	3.5	6.1	5.9	2.7	0.9	1.0	0.8
1.4	2.1	2.7	4.0	5.8	4.3	5.9	6.1	3.5	0.7	0.7	0.9
0.9	2.2	2.7	4.4	5.5	4.7	6.0	6.1	2.8	2.4	0.5	0.5
1.8	1.8	2.7	4.9	5.2	5.3	6.1	5.8	2.3	2.7	1.3	0.9
0.1	-77.0	1.3	5.2	4.9	5.3	6.3	6.5	1.3	1.5	1.4	0.4
1.4	-77.0	1.9	4.6	3.1	5.3	5.9	6.5	1.6	1.3	0.9	0.0
1.2	-77.0	2.5	-77.0	2.8	-77.0	6.1	5.4	-77.0	1.5	-77.0	0.8
Jan_2007	Fev_2007	Mar_2007	Abr_2007	Mai_2007	Jun_2007	Jul_2007	Ago_2007	Set_2007	Out_2007	Nov_2007	Dez_2007
1.0	1.0	1.7	2.5	2.8	4.9	5.0	4.6	5.2	2.3	2.3	0.5
1.0	1.7	1.2	1.4	2.2	6.5	4.8	5.9	4.2	1.2	2.7	1.1
1.0	1.0	1.8	2.3	2.9	6.2	4.0	5.9	3.8	1.4	2.1	0.6
1.0	1.1	0.7	2.8	2.6	6.7	6.2	5.2	3.3	2.2	2.0	0.3
1.1	1.1	2.0	3.7	4.5	6.2	7.3	4.5	4.5	2.0	2.0	0.2
0.9	1.0	1.0	3.4	5.4	4.3	6.5	4.5	3.9	2.4	2.3	0.6
0.7	0.9	2.7	2.6	5.0	4.6	6.0	5.6	3.9	2.8	2.1	1.1
0.3	1.3	2.7	1.5	5.5	4.2	6.0	5.8	2.4	3.3	1.8	1.2
0.6	2.1	2.8	2.9	5.2	4.3	6.4	5.7	2.1	3.7	2.4	0.5
0.8	1.0	4.0	2.6	4.1	3.9	6.8	5.0	3.1	3.9	1.6	1.5
1.2	0.5	3.8	2.3	3.7	4.5	6.8	4.3	3.4	3.6	1.5	1.2
1.1	1.3	1.8	2.8	3.6	4.5	6.9	5.0	3.1	2.5	2.0	1.1
0.9	0.1	2.9	3.7	4.2	3.5	6.0	4.5	3.5	2.7	2.2	1.0
0.6	2.2	3.4	3.7	4.3	2.4	5.5	4.7	3.6	2.2	1.9	1.0
0.4	0.3	3.1	4.1	5.0	2.3	2.5	3.7	3.4	1.8	1.9	1.1
0.5	1.0	3.5	4.6	5.5	0.5	2.5	5.5	2.6	2.7	1.2	0.9
0.9	1.8	3.4	5.0	6.5	3.3	5.5	6.1	1.6	3.3	0.8	0.7
1.1	1.9	3.4	4.5	6.4	3.9	5.7	5.6	3.5	3.2	1.4	0.2
1.4	0.2	2.1	2.7	5.0	1.8	5.1	5.6	3.1	3.3	0.1	0.3
1.1	2.0	3.5	1.3	3.1	4.5	5.6	6.1	3.1	3.1	0.3	0.3
1.6	1.9	3.7	4.3	3.3	4.6	5.8	5.7	1.9	2.5	0.6	0.8
1.0	1.7	3.4	4.8	1.5	5.5	5.2	6.2	3.8	2.3	1.3	1.1
1.1	1.3	3.4	4.3	2.5	5.8	3.6	6.4	3.4	1.6	1.3	1.0
1.4	1.7	2.8	2.0	3.0	5.1	5.8	6.6	4.5	1.4	2.0	1.1
1.5	0.7	1.8	2.5	1.7	4.3	5.9	1.1	4.1	2.6	2.1	0.4
1.8	2.4	2.0	3.8	3.7	5.5	5.8	4.4	3.3	2.5	1.8	1.4

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

2.1	2.4	2.8	3.1	2.5	5.5	6.5	4.6	3.6	2.7	1.4	1.1
0.9	0.3	2.8	3.7	4.7	5.7	7.3	3.5	3.2	2.7	1.2	0.9
0.2	-77.0	3.4	3.6	4.9	5.8	6.7	3.3	1.7	2.6	1.3	0.8
0.7	-77.0	2.9	3.2	3.8	5.6	6.7	4.5	0.4	3.0	1.2	1.0
1.3	-77.0	2.5	-77.0	3.9	-77.0	4.9	6.0	-77.0	2.7	-77.0	1.0
Jan_2008	Fev_2008	Mar_2008	Abr_2008	Mai_2008	Jun_2008	Jul_2008	Ago_2008	Set_2008	Out_2008	Nov_2008	Dez_2008
0.2	0.5	2.6	4.0	4.5	3.6	5.4	5.2	4.0	2.8	1.3	0.4
0.5	1.0	2.3	4.5	4.1	3.5	4.7	5.9	3.5	3.4	1.5	1.4
0.7	0.6	2.3	4.6	4.0	4.6	5.1	5.3	3.0	4.2	1.7	0.3
0.9	0.9	3.9	4.3	3.6	5.0	5.1	5.4	2.0	3.8	1.4	0.3
0.0	0.3	3.4	2.7	3.8	4.3	5.1	5.4	2.8	3.3	1.2	0.2
0.2	1.7	3.1	3.3	4.0	5.4	5.2	4.9	2.6	2.9	1.4	0.1
0.5	1.8	3.1	2.0	3.5	6.0	5.7	5.7	3.7	0.7	1.0	0.4
0.1	1.8	2.1	0.7	3.1	6.5	5.4	5.8	3.6	2.8	1.3	0.7
0.0	1.8	2.3	1.5	2.6	6.0	5.4	5.9	3.1	3.9	1.5	1.5
1.2	1.9	0.6	2.0	3.3	5.9	5.3	4.8	3.7	4.0	1.3	1.5
0.6	1.2	2.1	2.9	2.1	6.1	3.7	3.3	3.1	1.5	1.2	0.5
1.0	1.8	2.5	3.1	3.6	6.6	5.1	3.9	4.7	1.5	2.1	0.8
0.0	1.8	2.8	2.6	3.0	6.5	5.7	6.1	4.7	1.8	1.8	0.1
1.0	1.9	2.1	3.8	2.7	5.8	5.6	5.2	4.7	2.6	1.6	0.8
0.4	1.7	3.0	3.0	1.2	3.9	5.0	5.8	4.0	2.6	1.4	1.3
1.0	1.5	1.8	2.7	3.1	3.6	4.7	2.6	2.9	2.2	1.5	1.2
0.3	0.2	1.3	1.5	4.3	4.8	5.7	4.3	2.3	1.9	1.7	0.8
0.8	-0.1	1.5	2.9	3.6	5.3	5.8	3.6	2.3	2.2	1.4	0.8
1.3	0.7	1.3	2.4	3.8	6.1	5.1	4.9	3.1	2.4	2.0	0.9
1.2	1.3	2.6	3.0	2.6	6.1	3.0	4.7	2.3	2.0	1.8	1.1
1.5	1.5	3.5	3.6	2.8	6.1	4.1	2.7	2.5	1.9	2.0	1.0
1.7	1.8	1.9	3.3	1.0	5.9	4.6	4.5	2.5	2.2	1.8	0.8
1.5	0.4	3.3	3.3	0.8	5.3	5.0	4.8	2.6	3.0	1.9	0.5
1.3	1.3	2.8	4.4	3.1	5.6	4.7	4.8	2.1	2.7	0.9	0.6
0.9	2.0	1.7	4.5	3.0	5.9	3.0	4.5	3.4	3.4	1.4	0.8
1.3	2.7	2.3	4.2	2.8	5.8	4.8	4.4	3.7	3.4	2.0	0.9
1.4	1.7	2.2	4.2	2.6	6.1	4.9	4.1	2.7	2.4	1.8	-0.2
1.4	1.7	2.1	3.0	2.9	5.6	5.4	3.9	1.7	2.5	0.4	0.0
1.5	2.6	3.0	3.5	3.3	5.3	5.4	3.6	3.3	2.2	0.5	0.1
1.5	-77.0	2.3	4.5	2.5	6.0	4.8	2.8	3.7	0.7	0.6	0.6
1.8	-77.0	3.0	-77.0	3.2	-77.0	3.8	3.6	-77.0	1.2	-77.0	0.3
Jan_2009	Fev_2009	Mar_2009	Abr_2009	Mai_2009	Jun_2009	Jul_2009	Ago_2009	Set_2009	Out_2009	Nov_2009	Dez_2009
-0.1	0.4	1.2	3.3	4.9	5.3	5.0	3.2	3.7	2.5	0.8	0.1
-0.1	0.8	1.1	3.3	5.8	4.7	6.0	5.2	4.5	2.6	2.0	0.6
0.5	0.2	1.8	3.4	5.5	4.1	5.4	5.7	4.6	2.9	1.0	1.0
0.6	0.9	1.3	3.4	5.5	4.1	5.5	5.4	4.6	2.7	1.9	0.3
0.0	0.8	2.2	3.4	5.6	2.2	3.9	5.0	4.8	1.3	1.4	0.2
1.0	1.3	1.3	2.4	4.7	3.7	5.4	5.1	4.7	1.3	1.0	0.2

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.7	1.3	2.6	3.2	4.8	3.4	5.9	5.1	4.3	1.5	1.9	0.5
1.1	0.6	2.0	3.4	3.3	3.0	5.8	4.8	4.3	1.7	0.7	0.5
0.8	0.5	2.6	3.1	2.4	3.7	5.8	5.1	4.4	2.1	1.7	0.1
0.9	1.5	2.8	2.9	2.2	4.7	5.8	5.4	3.4	3.2	1.1	0.5
1.1	2.0	3.2	2.4	3.2	6.0	5.7	6.7	3.5	3.5	1.1	0.9
1.0	1.9	3.2	3.2	3.9	6.5	5.7	5.3	2.0	4.0	1.2	0.6
0.6	1.9	3.2	1.3	2.8	5.7	5.6	4.7	2.7	4.0	0.9	1.0
0.4	1.8	3.9	1.7	4.5	3.1	5.0	5.0	3.6	3.2	0.6	1.5
-0.1	2.1	3.2	2.1	4.8	3.2	5.7	4.4	4.0	3.2	0.9	0.8
0.8	2.0	3.0	2.9	4.4	4.3	5.6	5.3	4.3	3.6	0.3	0.4
0.9	1.9	3.6	0.7	4.4	6.5	5.8	5.4	3.5	3.1	1.0	0.9
0.2	1.9	3.2	1.0	5.0	5.2	7.1	5.4	2.2	2.6	0.6	-0.1
0.5	1.7	2.8	3.6	5.1	5.5	6.1	5.3	3.0	2.2	1.2	1.2
0.7	1.7	3.1	3.5	4.9	6.4	5.5	5.2	4.0	1.2	0.9	0.7
0.9	2.0	3.1	4.4	4.1	6.3	5.2	5.7	4.1	0.5	0.1	0.6
0.0	2.4	2.4	5.0	4.5	5.3	2.7	6.1	4.5	2.2	0.9	0.6
0.2	2.2	2.3	4.8	3.1	5.4	4.8	5.1	4.2	0.9	1.2	0.6
0.9	2.1	2.8	4.2	3.7	4.5	5.5	3.9	4.5	2.1	1.2	0.4
1.2	2.1	3.6	3.3	2.9	4.2	6.1	4.7	3.7	1.4	0.0	-0.1
1.4	1.8	3.8	3.7	5.6	4.4	6.0	4.6	2.8	1.8	0.4	1.0
0.7	1.8	3.6	3.1	6.9	4.2	5.7	4.9	2.9	1.8	0.3	0.1
0.1	0.3	3.5	2.8	6.5	1.7	5.6	4.9	3.8	1.9	0.6	-0.1
0.5	-77.0	3.6	1.1	6.7	3.5	5.7	4.7	2.5	1.5	0.8	0.1
0.3	-77.0	3.5	2.2	6.3	5.3	6.0	4.8	2.9	1.0	1.2	0.9
1.5	-77.0	3.5	-77.0	5.3	-77.0	5.6	4.2	-77.0	1.9	-77.0	0.8
Jan_2010	Fev_2010	Mar_2010	Abr_2010	Mai_2010	Jun_2010	Jul_2010	Ago_2010	Set_2010	Out_2010	Nov_2010	Dez_2010
1.3	1.5	1.5	2.5	2.8	5.8	5.8	4.6	4.0	3.2	2.0	0.7
0.0	1.4	0.8	1.8	4.0	3.1	4.5	5.2	4.4	2.4	2.2	1.1
-0.1	0.2	0.3	1.6	5.0	5.1	5.1	5.8	4.2	0.4	2.1	1.1
0.1	0.3	1.2	3.5	4.8	4.9	7.1	7.1	4.2	2.3	2.0	0.1
0.8	1.3	0.0	3.9	4.5	4.9	7.5	6.2	4.3	2.3	2.0	0.1
0.2	1.3	1.5	2.5	4.0	5.3	6.2	5.3	3.9	1.6	1.7	0.0
1.4	0.4	1.1	3.7	2.3	4.9	4.6	5.4	2.3	1.9	1.5	0.3
1.4	1.2	0.0	3.8	0.3	1.4	4.4	2.6	3.6	0.2	0.9	0.0
0.9	1.1	2.1	4.5	2.4	3.0	5.7	5.6	4.5	1.5	1.4	0.6
0.0	0.2	2.1	4.1	3.8	3.0	6.4	5.0	4.2	1.9	1.5	0.1
-0.1	1.7	1.8	4.0	3.6	3.0	5.9	6.6	4.6	2.4	0.8	0.8
-0.1	0.2	2.6	3.4	2.9	1.8	5.4	5.4	3.9	1.7	0.8	-0.1
0.0	1.6	2.6	1.5	3.3	4.8	4.2	5.5	4.0	2.4	0.7	0.9
0.9	0.4	2.7	1.0	2.4	5.3	5.2	5.9	3.8	2.1	1.3	0.6
0.0	-0.1	2.5	2.7	3.5	5.8	5.5	5.2	1.2	1.1	1.3	1.4
0.1	0.2	2.3	1.8	4.6	5.8	4.9	4.6	3.1	2.3	1.1	1.3
0.0	1.0	2.1	2.2	5.5	5.4	5.9	3.8	3.4	2.7	1.6	0.4
0.1	0.0	1.3	2.3	6.1	4.7	5.7	3.9	2.5	2.8	0.8	0.1

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.7	1.7	0.7	2.9	6.3	4.9	5.5	4.6	3.8	2.8	0.3	0.2
0.8	1.4	1.1	3.6	6.4	5.2	5.1	5.1	3.0	2.3	1.4	-0.1
0.5	1.0	2.3	3.1	5.5	5.5	5.3	4.7	3.1	2.0	1.3	0.0
0.2	1.4	2.4	2.3	5.1	5.7	5.4	4.8	2.7	1.4	0.8	0.3
0.5	1.0	2.4	2.5	4.2	5.5	6.0	2.2	1.3	2.4	-0.1	1.2
1.2	0.7	1.6	2.6	4.2	5.0	7.0	5.0	3.0	2.3	0.0	0.5
1.4	0.7	1.7	4.3	2.5	4.4	7.2	5.4	3.4	1.7	0.7	-0.1
1.5	0.6	1.9	4.6	2.9	5.1	6.9	4.6	3.8	2.5	0.4	0.9
1.9	0.6	2.5	4.5	3.3	5.3	5.7	4.7	3.2	1.7	1.0	0.1
1.6	0.3	2.9	4.2	3.8	5.4	5.6	5.2	3.0	1.7	0.9	0.5
1.1	-77.0	1.1	3.6	4.1	5.4	5.1	5.1	2.9	0.4	-0.1	0.4
0.8	-77.0	2.4	3.4	5.3	5.5	4.9	5.3	3.2	0.1	0.7	0.1
0.7	-77.0	2.4	-77.0	5.7	-77.0	4.1	3.9	-77.0	1.8	-77.0	0.5
Jan_2011	Fev_2011	Mar_2011	Abr_2011	Mai_2011	Jun_2011	Jul_2011	Ago_2011	Set_2011	Out_2011	Nov_2011	Dez_2011
0.3	1.7	3.0	3.6	2.3	5.9	3.1	0.9	2.1	3.4	0.7	0.8
0.3	2.0	2.6	1.7	2.4	6.7	5.5	2.8	2.4	3.3	0.7	1.4
0.2	1.8	2.7	2.0	4.1	6.1	2.4	5.0	3.2	3.1	1.4	1.6
0.0	1.8	1.8	3.8	3.4	5.5	5.7	5.5	3.8	4.4	0.6	0.3
-0.2	1.6	1.6	4.4	4.5	4.5	5.8	5.4	4.7	3.6	1.6	0.8
-0.1	1.7	1.4	3.9	3.6	2.4	5.9	2.9	5.3	4.6	2.1	0.8
0.6	1.1	1.5	3.9	3.7	3.5	5.8	5.7	5.6	4.0	1.6	0.9
0.0	0.9	0.4	4.3	3.7	3.8	5.5	6.3	4.3	4.5	0.1	0.0
0.6	1.1	1.3	2.9	5.2	1.9	4.7	6.9	4.0	4.0	0.0	0.5
0.2	1.5	2.1	4.0	5.4	4.7	5.5	5.7	2.8	3.3	0.6	0.0
0.5	1.3	0.8	4.7	5.1	5.7	5.3	5.0	3.7	2.9	0.5	0.8
0.6	1.6	1.5	4.7	5.3	5.9	4.7	5.1	4.6	2.9	1.0	0.6
0.2	0.4	1.3	4.9	5.3	4.5	6.2	5.3	4.6	2.9	1.3	0.6
0.1	0.2	0.6	5.3	5.0	5.8	6.4	4.9	4.0	2.6	0.9	0.7
0.1	1.1	2.6	4.4	5.9	5.5	6.3	4.7	3.8	2.2	1.2	0.8
0.7	1.0	2.3	3.9	4.3	5.7	5.5	4.6	3.6	2.2	1.1	0.5
0.8	1.9	1.9	3.9	4.2	5.4	5.6	5.0	3.9	2.7	1.4	0.8
0.6	0.5	3.0	2.6	1.5	5.8	5.4	4.5	4.8	3.0	0.7	1.2
0.9	0.0	3.3	3.3	4.1	6.1	5.7	4.3	5.6	2.7	0.3	0.8
1.0	1.3	3.7	2.7	5.5	6.2	6.4	2.2	5.1	2.9	1.1	1.0
1.7	1.5	3.0	2.5	5.1	6.2	6.0	3.6	3.9	2.4	0.6	1.2
1.8	1.7	2.1	1.3	5.2	6.1	6.0	1.6	3.2	1.9	0.5	1.0
1.6	2.4	2.6	2.5	5.4	6.1	5.6	4.4	3.4	1.4	1.0	0.8
0.4	2.5	2.1	4.0	6.0	6.9	6.1	4.7	1.9	1.7	1.5	1.5
1.1	2.6	2.0	4.8	4.0	6.2	6.5	3.5	3.5	1.7	1.6	1.3
1.8	2.3	1.4	4.7	1.3	5.3	6.3	4.9	3.6	0.5	1.3	0.9
0.4	2.7	1.6	4.6	5.1	5.0	6.4	5.3	2.8	1.8	1.2	0.9
0.8	2.7	0.7	4.2	3.1	5.7	5.3	4.6	2.9	2.5	1.1	1.1
1.0	-77.0	2.4	2.6	4.5	5.9	4.3	4.3	3.4	2.4	0.5	1.4
1.3	-77.0	2.9	1.0	4.2	6.3	5.1	3.1	2.7	2.2	0.8	1.1



Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

1.8	-77.0	3.3	-77.0	5.2	-77.0	5.4	2.4	-77.0	1.1	-77.0	0.8
Jan_2012	Fev_2012	Mar_2012	Abr_2012	Mai_2012	Jun_2012	Jul_2012	Ago_2012	Set_2012	Out_2012	Nov_2012	Dez_2012
0.3	1.0	1.4	1.5	2.7	5.9	6.1	5.6	6.2	3.0	1.2	1.3
0.8	1.9	1.6	1.2	1.9	3.2	6.3	5.9	6.5	3.2	0.2	1.3
1.0	1.9	1.8	1.3	2.4	5.0	5.9	5.8	6.1	3.2	0.3	1.1
1.5	2.1	2.1	1.7	2.6	5.4	5.7	5.7	6.0	3.2	0.2	0.4
1.2	1.8	2.8	2.4	3.1	5.7	5.8	4.8	4.8	2.7	0.9	0.4
1.4	2.0	2.4	1.7	3.8	2.7	5.9	5.5	4.5	2.5	2.1	-0.2
1.4	2.0	3.0	3.2	0.4	5.0	4.1	6.0	3.5	3.0	0.1	0.6
1.2	2.2	2.9	4.0	2.9	4.5	5.9	5.6	3.6	2.8	1.1	0.7
1.0	1.8	3.8	4.2	4.9	4.8	5.9	5.4	3.1	1.5	0.9	0.7
0.8	1.8	2.8	1.6	5.1	4.7	4.8	5.1	3.4	2.4	0.9	0.9
1.0	1.9	2.7	1.6	2.3	4.3	5.7	5.7	3.9	2.2	2.0	0.7
0.4	2.4	2.7	2.7	3.6	4.5	6.1	5.4	4.7	2.5	2.1	0.4
0.5	2.4	3.3	2.4	3.5	5.9	5.8	4.7	5.1	2.7	1.7	0.7
0.9	1.9	3.1	2.6	5.8	3.9	6.2	3.9	5.2	1.7	1.4	0.1
0.4	2.3	1.0	3.4	5.5	5.4	6.7	2.4	4.3	2.8	0.5	0.5
1.2	2.1	1.3	4.4	5.8	4.3	7.7	4.9	3.2	2.0	0.1	0.4
1.6	2.1	1.0	2.4	3.6	4.7	7.2	5.0	3.0	0.3	0.7	0.3
1.4	2.1	2.4	1.6	3.9	4.9	6.6	4.7	3.9	-0.1	1.9	0.2
1.3	2.1	3.7	2.0	3.0	5.6	6.9	4.7	3.8	1.5	1.0	0.1
0.8	2.3	3.9	2.2	2.7	5.1	6.4	5.0	3.5	2.0	0.4	0.9
1.5	2.2	3.4	2.1	3.0	6.1	6.7	5.4	3.3	0.5	1.3	0.8
1.3	2.4	3.2	2.4	5.2	6.2	6.8	4.9	3.6	1.1	1.3	0.5
0.9	2.5	3.1	2.2	5.7	6.3	5.6	5.0	2.1	1.7	0.6	0.9
1.1	2.4	1.1	2.7	5.1	6.7	5.3	4.6	2.8	1.1	0.0	1.0
0.8	2.1	3.2	1.0	4.7	5.0	5.4	4.3	1.7	0.4	0.0	1.0
0.7	2.1	3.4	1.0	4.1	5.1	4.8	4.7	2.6	1.6	0.3	0.9
1.7	1.9	4.2	1.7	4.5	6.0	4.3	2.9	1.7	2.2	1.1	0.8
1.6	1.6	4.5	2.6	5.4	5.5	2.9	3.4	1.4	2.5	1.0	0.9
1.6	2.0	3.2	2.0	4.9	5.0	5.7	4.7	3.0	1.1	1.3	0.5
1.4	-77.0	0.8	2.8	5.7	4.9	5.7	5.1	3.5	1.6	0.5	0.7
1.3	-77.0	1.7	-77.0	3.5	-77.0	5.3	5.4	-77.0	0.8	-77.0	0.0
Jan_2013	Fev_2013	Mar_2013	Abr_2013	Mai_2013	Jun_2013	Jul_2013	Ago_2013	Set_2013	Out_2013	Nov_2013	Dez_2013
0.8	0.7	2.1	3.0	1.8	6.2	6.1	5.5	4.3	0.4	1.6	1.7
0.8	1.9	1.5	3.2	3.6	6.7	5.4	5.5	4.3	1.3	1.0	1.4
1.2	1.7	1.0	1.3	3.7	6.5	6.2	5.6	4.5	2.9	1.4	1.2
1.2	1.7	0.2	2.4	4.7	4.9	6.4	5.9	4.8	2.7	1.5	1.2
0.9	1.6	1.4	3.2	5.2	4.9	6.4	4.8	3.8	2.6	0.8	1.2
0.2	1.8	1.0	3.6	3.3	2.7	6.7	4.7	4.0	3.3	0.7	1.2
0.0	2.0	0.7	2.7	3.0	3.0	6.8	5.4	3.9	3.7	0.9	1.1
0.8	1.8	0.9	2.8	2.5	1.6	6.2	6.2	4.6	3.4	1.6	1.0
0.3	1.8	1.9	1.0	4.5	1.0	6.3	6.9	4.9	3.5	1.8	0.9
0.2	0.6	2.1	1.2	4.8	2.0	6.2	6.2	4.0	3.3	1.5	1.2

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.9	1.6	1.4	1.9	5.0	4.1	4.1	5.3	4.3	2.9	2.0	0.4
0.8	1.2	1.5	2.6	5.2	5.3	1.3	5.1	4.8	0.8	1.8	0.3
1.0	1.9	2.6	3.6	5.2	5.6	1.4	4.8	4.8	2.5	2.2	0.6
1.4	1.9	2.6	3.7	4.7	6.2	4.5	4.9	3.8	1.8	2.3	1.2
0.4	1.9	2.3	2.1	4.4	6.0	4.7	4.6	4.0	1.8	2.0	1.3
0.2	0.8	1.5	4.2	2.4	5.4	4.9	5.2	3.8	2.1	1.8	0.9
0.4	0.0	1.0	4.3	2.8	4.4	5.4	5.5	3.8	2.0	1.6	0.1
0.2	0.6	2.5	4.1	3.4	3.7	4.6	5.4	4.1	1.0	1.5	0.2
1.2	1.2	0.4	4.3	2.6	3.8	5.2	6.3	3.7	2.0	1.6	0.8
0.1	1.0	2.3	4.6	3.9	5.7	5.5	5.3	4.3	1.8	1.5	1.3
0.9	1.4	2.6	4.4	4.8	5.0	5.3	4.5	4.1	1.3	0.4	1.0
1.1	0.9	2.1	4.2	4.9	6.5	5.2	4.7	3.9	1.2	-0.1	0.7
0.9	1.9	0.9	4.6	4.8	6.9	5.8	5.4	3.2	0.7	0.2	0.2
0.2	2.3	2.4	4.3	5.1	7.5	5.7	5.3	2.8	0.3	1.7	0.2
0.2	2.2	0.9	4.6	5.2	6.7	4.2	5.0	1.6	0.4	1.8	0.6
0.4	2.4	0.5	4.0	4.9	5.9	4.3	4.5	1.7	1.2	1.6	0.8
0.1	1.4	1.2	4.3	3.5	5.7	5.0	4.4	1.2	2.0	1.5	0.4
1.3	1.5	1.5	4.4	4.8	5.7	4.0	3.8	1.8	0.7	1.5	1.0
1.3	-77.0	0.0	2.6	3.4	6.2	5.3	4.1	0.6	2.8	1.5	0.7
1.2	-77.0	2.6	2.9	5.3	6.7	6.5	4.7	0.8	2.6	1.3	0.5
1.5	-77.0	0.0	-77.0	5.7	-77.0	5.9	5.2	-77.0	2.2	-77.0	0.1
Jan_2014	Fev_2014	Mar_2014	Abr_2014	Mai_2014	Jun_2014	Jul_2014	Ago_2014	Set_2014	Out_2014	Nov_2014	Dez_2014
0.1	1.3	0.2	0.6	4.7	6.2	3.8	4.8	4.5	1.5	1.8	1.7
0.2	1.2	0.5	2.5	5.3	5.2	4.5	3.5	3.9	3.9	1.6	0.9
0.0	1.5	2.4	2.5	5.9	5.4	5.4	3.9	2.7	3.6	1.1	1.0
0.3	0.4	1.4	0.5	5.2	5.3	5.3	5.4	4.1	2.7	1.5	1.2
1.1	0.7	2.1	1.1	4.7	4.9	5.3	5.5	4.1	2.7	1.8	1.3
0.3	0.4	2.2	2.9	4.4	1.4	2.3	5.5	2.0	2.1	1.1	1.4
0.1	1.3	2.5	3.7	4.4	5.0	5.5	4.8	3.8	1.1	1.2	1.3
0.4	0.8	3.5	4.2	4.5	4.3	5.9	3.8	2.5	1.3	1.0	1.2
1.4	0.4	1.7	2.1	4.9	4.5	6.5	4.8	3.4	0.6	1.3	1.2
0.8	1.6	3.9	3.5	4.8	5.0	7.0	4.9	0.9	2.3	0.1	1.2
0.7	0.2	3.9	2.0	5.2	6.0	7.0	5.1	3.1	0.7	1.3	0.9
-0.1	0.0	3.0	2.3	5.3	6.4	6.6	5.4	2.8	0.5	1.6	0.4
1.0	0.8	2.6	2.6	5.4	6.5	5.9	5.8	2.8	0.2	0.1	0.1
0.6	0.7	3.1	1.7	5.8	7.0	5.8	5.6	3.0	2.1	1.2	0.9
0.1	1.3	3.1	2.7	5.3	6.9	5.9	5.8	3.3	1.4	1.0	1.4
0.8	1.4	3.2	2.4	5.1	6.0	5.9	5.7	2.3	2.0	1.0	0.9
0.2	0.3	2.8	3.9	4.7	3.3	5.4	5.4	2.9	2.7	0.6	0.8
0.9	1.7	3.0	3.7	4.6	3.6	4.2	4.8	2.7	2.3	0.5	1.1
1.1	0.9	2.7	3.0	3.1	4.9	3.5	4.6	3.0	3.0	-0.1	0.6
0.9	0.4	2.3	1.4	2.0	5.2	4.0	4.8	3.1	3.1	0.1	0.4
0.0	1.3	0.6	2.9	2.8	4.9	5.8	4.8	3.3	2.8	1.2	1.1
1.2	1.1	2.1	3.2	3.2	3.1	5.8	4.8	1.3	2.6	0.5	1.1

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

1.7	2.0	1.9	2.5	3.2	2.4	5.4	4.8	2.1	3.6	0.0	0.8
1.3	1.5	1.5	2.9	4.4	3.6	5.1	5.0	2.8	2.4	1.3	0.9
0.6	1.2	1.6	3.9	3.8	4.1	3.6	5.1	3.2	2.5	0.4	1.2
0.2	1.6	3.1	1.1	4.5	5.3	4.8	4.4	2.8	2.5	0.0	1.3
1.3	0.4	1.1	4.4	3.5	5.6	5.1	5.1	1.2	1.7	0.6	0.4
0.5	1.9	2.1	4.3	2.8	4.3	4.6	5.0	2.5	1.1	0.3	0.5
1.2	-77.0	1.8	4.4	2.7	5.7	5.1	5.1	3.0	2.5	1.6	1.5
1.0	-77.0	1.2	4.5	4.6	5.6	4.7	4.7	1.9	2.6	0.6	1.6
0.5	-77.0	0.7	-77.0	5.7	-77.0	1.8	4.4	-77.0	2.1	-77.0	1.4
Jan_2015	Fev_2015	Mar_2015	Abr_2015	Mai_2015	Jun_2015	Jul_2015	Ago_2015	Set_2015	Out_2015	Nov_2015	Dez_2015
1.3	1.3	1.8	5.1	3.7	5.4	3.3	5.8	4.2	3.8	0.1	0.5
1.3	0.9	0.7	4.4	4.1	6.1	6.1	6.4	4.6	3.2	0.3	0.8
1.3	0.8	1.7	2.7	0.9	6.3	6.3	4.5	3.4	2.2	1.0	1.3
1.3	2.1	3.1	4.0	1.8	6.4	6.0	6.3	4.2	1.3	1.0	1.3
1.2	2.0	4.0	3.9	3.8	6.1	6.2	6.0	3.1	0.8	0.1	1.2
0.9	1.4	3.5	0.9	4.1	6.3	6.4	6.0	4.7	2.5	2.2	0.7
0.3	1.7	3.4	2.8	4.8	4.5	6.6	5.7	4.9	3.2	2.2	0.1
1.1	2.1	3.8	0.6	4.7	6.2	6.2	5.9	4.2	3.3	2.2	0.7
1.3	2.2	3.4	2.5	5.1	5.7	5.9	4.7	4.5	2.6	2.1	0.6
1.2	0.2	2.9	2.5	5.6	4.1	5.5	6.2	5.0	0.4	2.1	0.6
1.4	1.6	3.0	4.0	5.5	3.1	6.5	5.5	4.5	0.9	1.9	0.7
1.3	1.8	2.6	4.0	4.8	2.9	6.1	3.7	4.2	1.4	1.7	1.1
0.8	1.5	3.5	4.5	5.0	2.7	6.2	5.1	2.4	1.8	1.8	0.3
0.7	0.8	3.4	2.4	5.4	2.2	6.0	5.3	2.8	2.8	1.8	0.0
0.2	1.0	3.6	2.5	6.1	4.7	6.1	5.3	1.3	2.9	1.6	1.6
0.9	1.7	3.1	2.3	6.8	6.0	6.6	2.7	2.5	1.8	1.5	1.1
0.7	3.3	0.2	3.3	6.6	7.2	4.7	5.1	3.0	1.4	1.7	1.4
0.1	2.9	1.6	3.3	5.9	7.2	5.9	5.3	4.6	1.3	1.7	1.2
2.2	2.6	2.6	3.1	5.8	6.9	5.7	5.6	5.4	0.8	1.4	1.4
0.7	1.3	2.2	4.1	5.7	6.4	6.6	6.0	5.0	2.3	1.5	0.4
0.9	2.5	1.5	3.1	6.5	5.6	6.0	5.6	5.0	2.9	1.7	1.0
0.8	1.7	1.6	4.1	6.8	5.5	7.0	4.6	4.3	2.8	1.1	0.0
1.0	1.2	3.0	4.2	6.8	4.6	6.8	4.3	4.3	1.0	1.7	0.0
1.6	1.7	2.8	1.1	5.9	5.8	4.8	4.1	3.9	0.3	1.4	0.7
1.9	1.8	3.9	1.5	4.9	6.4	6.5	5.3	3.7	0.3	1.5	0.9
1.8	1.5	2.8	3.3	6.3	7.0	6.6	4.6	3.9	1.6	2.0	1.1
1.8	2.9	3.5	3.4	6.9	7.4	6.2	4.0	4.2	1.2	1.6	1.1
1.8	1.3	3.6	3.6	6.0	7.7	6.2	5.3	3.2	1.6	1.5	0.3
0.6	-77.0	3.8	3.4	6.3	6.3	5.8	5.1	2.6	2.2	1.7	1.0
0.2	-77.0	4.2	4.4	6.3	4.3	4.3	4.8	3.7	1.1	1.4	0.1
1.6	-77.0	4.2	-77.0	5.9	-77.0	4.4	3.6	-77.0	1.5	-77.0	0.6
Jan_2016	Fev_2016	Mar_2016	Abr_2016	Mai_2016	Jun_2016	Jul_2016	Ago_2016	Set_2016	Out_2016	Nov_2016	Dez_2016
0.0	1.8	2.8	3.7	6.0	6.8	5.7	6.3	4.8	4.0	2.1	0.3
0.6	1.5	2.3	2.3	6.3	4.9	6.8	6.3	4.8	3.8	1.6	0.2

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.1	1.6	2.9	2.0	6.4	5.3	7.2	6.6	5.0	3.6	2.0	0.0
0.5	2.2	0.9	1.1	4.2	4.2	4.9	5.7	5.4	3.8	0.1	0.6
0.8	1.5	2.0	3.7	0.4	5.5	5.3	6.9	6.6	3.9	0.8	1.5
0.2	0.7	2.1	4.0	1.7	5.7	4.5	7.3	5.0	3.5	1.7	1.3
0.3	1.6	2.6	4.2	0.2	6.7	3.7	7.6	4.5	3.1	2.0	0.6
0.1	0.9	3.0	3.8	2.8	7.1	7.0	6.8	5.3	3.7	1.8	0.8
0.7	1.0	1.1	1.8	2.5	6.3	7.5	5.7	5.2	3.0	1.0	1.3
0.8	0.1	3.3	2.6	3.1	5.6	7.0	6.3	5.0	2.5	1.9	1.0
1.4	1.0	3.2	2.8	1.9	6.5	6.7	6.3	4.7	1.8	0.7	1.2
1.0	0.2	3.1	3.1	2.0	6.5	7.0	6.9	4.3	1.1	0.8	1.2
1.3	0.2	3.2	3.9	2.4	3.8	7.5	6.8	3.6	1.9	1.8	0.6
0.1	1.5	2.4	1.7	2.5	5.1	8.0	6.4	3.3	2.9	2.3	1.3
1.7	2.2	1.1	1.8	4.7	3.9	8.6	5.4	3.0	2.6	2.4	0.4
1.6	2.6	1.9	2.4	5.0	5.0	7.4	5.4	4.5	1.7	2.1	1.1
0.4	1.0	2.6	3.1	5.2	5.4	6.7	4.4	5.2	1.2	1.6	1.6
1.4	2.2	0.7	3.4	5.2	6.5	6.4	5.8	5.5	1.8	0.5	1.9
1.0	2.6	2.0	2.7	5.6	7.4	5.9	3.5	5.0	2.2	1.4	1.5
1.2	2.9	1.6	2.8	6.2	7.5	6.7	6.2	4.1	1.4	0.2	1.2
0.0	2.0	1.6	2.2	3.9	7.1	6.7	6.2	4.0	0.5	1.5	1.2
0.3	2.1	2.7	3.0	5.6	6.3	6.4	6.0	3.7	1.3	1.3	1.0
1.3	1.5	2.5	3.0	4.4	5.6	7.8	5.9	4.3	1.4	1.6	1.3
1.6	1.1	3.5	4.7	2.6	6.2	7.6	5.7	3.8	1.1	1.2	1.3
0.1	1.5	3.0	5.1	3.0	6.3	6.7	5.4	3.9	1.4	0.8	1.3
1.1	0.6	0.6	4.6	5.0	6.4	6.8	5.4	4.2	2.1	0.4	1.1
1.2	1.5	2.9	4.2	3.4	7.3	5.9	5.4	5.3	1.9	1.1	1.1
1.1	2.6	1.7	4.4	3.4	7.1	6.3	5.9	5.0	2.4	1.2	1.1
1.8	2.9	3.2	3.9	4.8	6.8	6.1	5.9	4.3	2.0	0.9	1.2
1.6	-77.0	2.2	5.1	5.0	6.4	4.5	4.9	4.1	2.3	0.4	1.1
1.3	-77.0	3.1	-77.0	6.2	-77.0	6.1	4.7	-77.0	2.3	-77.0	1.0
Jan_2017	Fev_2017	Mar_2017	Abr_2017	Mai_2017	Jun_2017	Jul_2017	Ago_2017	Set_2017	Out_2017	Nov_2017	Dez_2017
0.6	1.5	0.8	3.8	4.8	6.0	7.2	6.4	5.9	4.7	1.2	1.6
0.3	1.3	2.3	4.3	5.6	6.1	8.2	6.6	6.7	5.2	0.9	1.6
0.2	1.2	1.3	4.5	5.4	5.5	7.5	7.0	5.6	4.1	1.8	1.4
0.4	0.6	1.8	4.9	3.7	6.2	6.0	7.2	4.1	3.6	1.7	1.6
0.2	2.1	1.2	5.1	3.1	6.2	3.0	6.5	5.2	3.9	2.7	1.3
0.9	1.8	1.8	5.1	4.6	5.5	4.2	6.5	5.3	4.3	2.6	1.0
1.2	1.0	3.3	4.8	5.5	7.4	5.9	5.8	6.2	4.6	2.6	1.2
1.2	2.2	3.5	4.7	5.5	5.7	3.6	6.4	5.9	3.3	2.7	0.1
1.5	1.2	3.6	4.4	3.4	6.0	5.6	6.4	4.4	2.6	2.9	1.1
1.3	0.6	3.5	4.2	1.8	6.9	6.3	7.6	5.2	2.8	2.5	0.6
1.7	0.2	2.8	4.9	3.2	6.8	7.3	7.8	5.2	3.1	2.1	1.3
0.8	0.7	3.4	4.7	2.7	6.7	7.3	7.3	5.3	3.3	2.1	1.4
1.9	1.9	4.0	4.2	3.8	6.4	7.4	5.0	5.1	2.7	2.4	1.0
1.9	2.1	1.6	4.2	4.7	5.7	7.3	5.5	4.5	2.2	2.1	0.4

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

1.7	1.7	3.5	4.4	4.6	6.7	6.3	5.7	5.1	4.0	1.8	0.6
1.5	2.4	2.8	4.8	5.6	7.1	5.5	6.5	5.0	2.0	1.8	1.7
1.6	2.2	2.8	4.9	5.7	7.9	5.5	6.5	4.4	2.6	1.8	1.5
2.0	1.4	4.2	4.1	5.7	7.0	5.6	6.6	3.6	1.5	1.7	1.4
1.6	2.4	3.6	4.9	5.9	6.8	4.1	6.7	4.2	1.1	1.7	1.3
1.2	3.2	2.9	4.8	6.4	6.7	5.6	6.4	4.0	1.2	1.8	1.1
1.5	2.4	2.6	4.5	4.5	4.7	6.5	5.4	3.9	2.6	1.6	1.2
1.4	2.4	2.3	4.1	4.3	6.2	6.4	4.9	4.1	3.2	1.1	1.3
1.9	1.8	1.9	4.9	6.2	6.8	6.7	5.3	3.9	3.0	1.2	1.1
1.5	1.9	1.7	4.5	6.2	4.3	6.8	5.0	4.0	2.7	1.2	0.3
1.1	1.0	2.7	3.2	6.2	3.6	7.1	5.5	4.5	2.5	0.0	0.6
0.0	1.0	0.3	3.1	2.8	4.4	7.3	5.5	4.5	2.7	1.3	0.6
1.5	1.5	1.9	5.3	3.1	5.7	7.0	4.7	4.0	3.6	1.2	1.1
1.2	1.4	3.0	4.1	4.0	4.7	7.0	3.8	3.8	3.7	0.1	0.6
0.6	-77.0	3.9	3.7	3.0	5.0	6.4	3.0	3.9	3.1	1.7	0.7
1.0	-77.0	3.3	3.2	5.7	5.8	6.5	4.2	3.8	3.2	2.0	0.4
0.1	-77.0	3.9	-77.0	5.9	-77.0	4.3	5.4	-77.0	2.3	-77.0	0.8
Jan_2018	Fev_2018	Mar_2018	Abr_2018	Mai_2018	Jun_2018	Jul_2018	Ago_2018	Set_2018	Out_2018	Nov_2018	Dez_2018
0.8	1.6	1.6	2.6	4.0	4.1	4.2	6.1	4.9	3.9	1.0	0.9
0.5	1.9	1.0	1.4	1.6	4.2	2.9	6.1	4.2	4.5	1.5	0.6
0.2	1.4	0.3	2.8	3.8	2.9	5.0	6.2	3.2	3.7	1.0	0.9
0.7	1.7	1.1	3.1	5.2	2.4	4.4	6.8	2.7	3.4	0.3	1.0
0.1	2.1	2.0	3.3	4.6	3.2	4.7	7.3	2.8	3.7	1.8	1.1
1.2	2.3	0.9	0.5	4.0	2.8	6.2	6.3	3.1	4.0	1.2	1.3
1.3	2.0	0.7	1.7	4.3	1.3	6.2	5.8	3.7	3.4	1.1	0.3
1.2	1.8	0.4	2.0	3.3	3.7	6.0	5.8	3.3	3.4	0.9	1.3
0.0	0.6	0.2	2.3	2.2	2.8	5.0	5.9	3.8	3.1	0.7	1.2
0.6	1.5	2.3	2.0	3.9	1.7	3.7	6.1	5.1	1.7	0.4	1.2
0.7	0.5	1.9	2.8	4.1	3.3	5.5	5.8	5.0	2.4	0.1	0.2
0.6	2.2	2.1	1.9	4.5	3.1	2.0	5.9	4.4	2.5	1.3	0.6
1.1	1.3	1.9	1.9	4.7	5.7	4.3	5.7	3.8	2.8	1.6	1.3
1.1	1.1	0.4	2.7	4.5	5.9	4.3	5.3	3.8	2.6	1.5	0.6
1.3	0.8	2.0	0.7	5.7	5.8	4.1	4.5	3.5	1.0	1.4	0.2
0.3	1.1	2.3	3.5	5.8	6.4	5.4	4.8	4.0	2.0	1.4	1.1
1.8	0.6	0.5	4.1	4.9	6.9	6.0	4.7	3.8	2.2	0.5	1.0
1.7	2.6	1.6	4.2	3.4	6.2	5.4	5.7	4.2	1.8	0.5	0.0
1.8	2.4	1.4	4.1	4.5	5.0	5.3	6.4	4.4	1.4	0.8	0.5
1.4	2.7	2.8	2.2	4.0	3.7	5.9	5.4	4.5	2.0	1.1	0.8
0.6	2.9	3.4	1.0	4.3	4.3	6.2	4.7	4.5	1.3	1.0	1.0
1.4	2.7	3.0	1.6	3.0	5.0	6.0	4.6	4.6	1.9	0.4	0.9
1.1	2.2	0.9	4.1	3.8	5.6	5.6	5.3	5.4	1.9	0.9	0.8
0.9	2.1	2.6	4.5	3.3	5.2	4.2	5.4	4.7	2.2	0.8	0.4
1.1	2.2	3.0	4.3	3.1	4.9	1.9	6.2	4.1	1.6	0.4	0.8
1.6	0.5	3.5	4.4	3.1	5.4	5.5	5.4	4.1	1.4	1.3	0.6

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

2.0	0.6	3.7	3.1	3.8	5.2	5.3	2.6	4.3	2.7	1.0	0.4
2.2	0.9	3.1	2.4	3.6	4.6	5.1	1.5	4.7	2.6	1.1	1.1
2.1	-77.0	2.6	3.0	1.4	3.0	5.5	4.7	3.5	2.1	0.1	1.2
1.8	-77.0	2.4	3.1	1.6	3.8	5.1	5.1	3.3	1.0	0.5	1.4
1.9	-77.0	2.8	-77.0	3.8	-77.0	5.4	5.3	-77.0	0.1	-77.0	1.1
Jan_2019	Fev_2019	Mar_2019	Abr_2019	Mai_2019	Jun_2019	Jul_2019	Ago_2019	Set_2019	Out_2019	Nov_2019	Dez_2019
1.1	1.7	2.2	2.5	4.7	7.0	5.8	5.9	5.0	3.5	1.3	0.8
1.1	1.7	2.8	3.1	5.3	6.6	5.1	5.7	5.0	3.5	1.2	1.4
0.2	1.7	2.1	3.4	5.2	5.9	5.1	5.8	5.2	3.0	1.3	1.2
0.9	1.3	1.9	3.0	5.4	3.5	3.7	5.7	5.4	2.6	1.4	0.6
1.0	1.6	0.6	2.4	4.6	4.2	5.5	5.8	5.1	3.4	1.9	1.2
0.9	1.5	1.5	2.8	3.4	3.3	5.1	5.0	6.3	3.8	1.4	1.1
1.1	1.5	1.0	0.8	2.2	4.6	4.7	3.2	5.7	4.0	2.1	0.7
1.0	1.1	2.6	2.4	1.4	5.3	4.3	3.6	4.7	4.0	1.8	0.0
1.3	1.5	2.9	3.3	1.3	5.4	4.8	2.8	4.1	4.2	0.7	0.5
1.3	1.5	2.7	2.5	2.7	5.8	6.0	4.9	5.0	3.5	1.2	0.8
1.3	2.1	3.2	3.2	5.8	6.2	6.6	5.3	5.5	2.0	1.2	0.8
1.5	2.0	2.9	3.9	7.1	6.5	3.0	6.1	5.9	2.1	1.3	0.3
1.1	1.9	3.5	2.4	7.3	5.6	4.6	6.2	5.3	2.4	1.5	0.6
0.9	2.2	3.6	2.7	6.2	4.1	5.1	6.5	4.0	1.5	1.2	0.4
0.2	1.5	3.5	2.3	6.0	5.1	5.4	6.6	3.8	2.0	1.7	0.4
0.2	1.8	3.1	3.7	4.5	5.7	4.4	6.1	3.6	1.6	1.7	0.0
1.4	1.5	2.1	0.6	4.3	4.5	4.2	5.5	3.7	0.7	1.4	0.9
0.8	0.3	3.5	2.4	3.5	2.6	5.6	5.3	3.7	1.4	1.7	0.3
0.9	2.0	3.9	2.1	4.0	3.7	6.1	5.5	2.9	0.7	0.1	0.2
1.9	1.5	3.7	4.1	4.4	4.6	6.5	5.9	2.0	1.6	0.6	0.2
1.5	1.8	2.7	4.4	4.2	6.1	6.4	5.8	0.9	2.0	0.7	0.5
0.7	2.0	3.6	3.6	5.5	5.6	5.9	5.4	2.4	2.5	0.8	0.6
1.0	2.1	4.0	2.8	5.0	1.7	5.8	5.5	3.1	1.5	1.2	0.8
1.7	2.3	3.4	1.7	6.0	2.9	6.1	5.5	1.5	1.6	0.5	1.0
1.7	2.4	4.2	3.5	6.9	4.7	4.8	3.5	3.8	2.3	1.0	1.0
1.4	2.1	4.4	3.8	7.3	3.6	5.0	4.0	3.9	2.0	0.0	0.3
1.3	1.6	4.0	5.0	6.0	4.7	3.2	4.8	4.0	1.1	0.8	1.0
0.9	2.1	3.8	5.3	6.8	6.1	5.7	4.8	3.7	0.1	0.2	1.0
0.6	-77.0	3.7	5.4	8.0	6.1	5.6	5.1	3.7	0.5	0.4	1.0
0.4	-77.0	2.6	4.8	7.5	6.2	6.5	5.3	3.3	0.2	0.1	0.9
0.6	-77.0	2.7	-77.0	7.1	-77.0	6.1	5.0	-77.0	0.5	-77.0	0.4
Jan_2020	Fev_2020	Mar_2020	Abr_2020	Mai_2020	Jun_2020	Jul_2020	Ago_2020	Set_2020	Out_2020	Nov_2020	Dez_2020
0.8	0.6	0.5	0.9	3.4	3.5	5.7	6.0	5.4	2.2	1.1	1.3
0.5	1.7	1.7	2.5	4.4	4.2	5.9	6.0	5.1	2.2	0.5	1.2
1.0	1.8	1.1	3.4	4.3	4.9	6.1	5.5	5.3	2.4	2.8	1.5
1.2	1.3	2.4	1.2	2.7	4.0	6.8	6.0	5.3	2.3	1.0	0.7
1.0	1.7	2.1	0.8	3.9	5.3	6.3	5.9	4.8	2.1	0.9	1.3
1.0	1.5	3.0	0.4	3.9	4.8	6.4	5.9	4.6	2.9	0.1	0.4

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

### ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

1.1	1.0	3.0	2.2	3.7	3.1	5.5	5.7	4.8	3.1	1.4	0.8
1.1	1.1	2.4	1.4	2.0	5.5	5.7	5.6	5.3	2.8	0.5	0.9
0.3	1.3	3.1	0.6	2.3	5.6	5.5	5.4	4.3	2.6	1.1	0.3
1.6	0.9	3.2	3.0	2.8	5.3	6.5	5.0	4.1	3.3	1.6	0.3
1.4	0.7	3.1	3.3	2.8	2.3	5.9	3.8	3.8	4.1	1.2	0.5
1.1	0.4	2.9	3.8	2.9	2.6	5.3	4.4	3.8	4.1	1.6	0.5
0.7	0.7	2.6	1.7	0.4	3.6	6.3	5.8	3.9	3.0	0.6	0.2
0.2	1.2	3.0	2.2	1.6	5.0	7.0	5.5	3.5	3.3	0.4	0.4
0.7	1.6	2.6	2.3	3.0	4.2	6.7	4.1	3.4	3.0	1.5	1.0
0.9	0.9	3.1	2.1	4.7	4.2	7.5	4.6	2.2	2.7	0.6	0.4
0.5	1.3	2.8	3.4	5.6	4.7	6.0	4.3	2.4	2.2	0.7	1.0
1.0	2.5	3.7	3.3	5.7	5.6	5.2	4.1	2.0	2.5	1.2	0.7
2.4	2.3	2.4	3.0	5.4	5.7	4.8	4.8	2.6	0.6	2.0	0.1
2.5	1.9	0.0	1.7	5.3	5.9	5.1	2.7	2.3	-0.1	2.0	0.6
1.9	2.5	1.7	2.6	5.1	6.0	5.4	4.2	3.5	1.9	1.7	0.9
0.7	2.8	2.4	3.2	5.3	6.7	4.9	5.9	2.2	1.9	1.5	1.1
0.4	2.9	2.7	3.4	5.9	6.1	5.6	6.0	1.6	1.8	1.3	0.5
0.2	2.4	2.4	3.7	5.7	5.7	6.7	5.5	1.4	1.9	1.1	1.3
0.5	2.0	3.2	2.6	5.6	5.6	6.5	5.4	3.6	0.7	0.4	1.3
1.1	2.3	3.1	2.4	4.8	5.2	6.3	5.4	3.9	2.0	0.8	1.5
0.3	2.3	3.0	2.5	5.9	4.8	6.1	5.3	3.6	1.0	0.6	1.0
0.3	2.1	3.1	2.5	6.0	6.3	5.8	4.8	3.2	0.8	0.3	1.0
0.7	1.0	2.9	2.6	5.5	6.2	5.5	5.4	3.9	2.2	0.3	0.9
0.2	-77.0	0.5	3.9	5.1	5.9	5.2	5.8	3.2	2.2	0.4	0.8
0.0	-77.0	0.7	-77.0	4.9	-77.0	5.8	5.6	-77.0	1.8	-77.0	0.6

### 2.2.3 OESTE

Tabela 16. Evapotranspiração de referência diária na região de cálculo de Oeste (mm)

Jan_2003	Fev_2003	Mar_2003	Abr_2003	Mai_2003	Jun_2003	Jul_2003	Ago_2003	Set_2003	Out_2003	Nov_2003	Dez_2003
-0.1	1.5	0.0	2.8	3.8	2.9	4.5	4.4	3.2	1.2	1.5	0.2
0.1	0.9	0.6	2.5	3.8	4.4	3.5	2.6	3.4	1.9	0.4	0.9
0.7	0.8	1.2	3.6	4.3	2.3	4.7	4.7	3.0	2.1	0.6	0.2
0.5	0.5	2.1	3.7	3.5	4.0	5.1	4.7	3.4	2.9	0.5	1.0
0.3	1.7	1.6	3.5	3.2	4.7	4.5	5.0	3.5	2.9	0.6	0.1
0.8	1.1	1.6	3.8	4.5	5.3	4.9	5.4	3.9	3.1	1.7	0.1
0.3	0.8	1.4	3.8	4.2	5.1	5.4	5.4	3.6	2.8	0.7	0.0
0.6	1.3	2.4	3.5	4.3	5.4	5.2	4.8	1.7	2.7	0.8	-0.1
1.0	1.1	2.2	3.0	4.3	5.0	5.5	4.2	3.9	2.7	0.0	0.6
1.2	0.5	2.5	0.9	4.7	4.5	5.1	4.3	4.4	1.5	1.1	0.9
0.9	0.0	2.2	2.3	4.4	5.3	3.6	4.9	4.7	0.0	0.8	0.6
0.9	0.4	1.6	1.0	4.8	5.5	1.9	4.9	4.8	2.0	0.0	0.6
0.9	1.3	2.3	1.2	5.0	5.2	1.2	4.5	4.6	1.9	0.4	0.9

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

## ANEXO 8 – Necessidades Hídricas das Culturas

### ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.9	1.5	2.6	1.0	5.7	5.1	2.3	4.7	4.3	2.0	0.1	0.8
0.8	1.6	2.5	2.1	4.3	2.5	4.0	3.7	3.6	0.5	0.6	0.6
0.7	1.3	1.6	2.9	2.8	2.4	4.5	3.4	3.6	1.0	2.3	0.7
0.1	1.0	0.8	2.1	4.3	4.4	5.1	3.9	4.0	1.9	1.3	0.1
-0.1	0.3	2.4	1.9	3.4	5.5	5.1	4.8	3.9	0.1	1.3	0.6
0.9	0.5	2.0	2.8	4.2	5.9	5.0	4.7	3.0	1.4	1.1	0.0
0.6	0.4	3.1	2.7	5.1	5.5	4.9	4.6	2.2	1.4	1.0	0.1
0.8	0.2	2.9	3.2	5.6	5.2	4.6	3.2	2.6	1.7	-0.1	0.4
0.6	0.5	2.4	2.4	5.7	2.4	5.1	4.1	2.6	2.0	0.2	1.1
1.2	0.9	1.4	2.4	5.6	3.4	4.9	4.2	3.7	1.9	0.4	0.9
1.2	0.8	0.4	1.7	4.8	3.3	4.9	2.8	3.1	0.9	1.1	0.9
1.5	0.7	1.3	0.2	5.2	5.2	4.9	4.2	3.0	0.0	1.3	0.7
1.3	0.6	0.7	3.9	5.3	5.2	3.8	4.3	2.6	1.6	0.3	0.6
1.4	1.3	1.2	2.7	5.6	5.1	4.8	2.6	1.3	0.5	0.8	0.3
1.5	1.6	1.2	2.4	5.3	4.9	5.4	2.1	2.1	1.3	0.4	0.9
1.9	-77.0	0.4	1.6	3.9	3.6	4.8	3.1	1.4	1.6	0.2	0.4
1.8	-77.0	1.3	3.4	0.7	3.6	5.2	3.6	0.2	0.7	0.3	0.5
2.2	-77.0	2.7	-77.0	4.5	-77.0	5.0	2.6	-77.0	1.1	-77.0	0.1
Jan_2004	Fev_2004	Mar_2004	Abr_2004	Mai_2004	Jun_2004	Jul_2004	Ago_2004	Set_2004	Out_2004	Nov_2004	Dez_2004
0.2	0.3	0.8	1.9	3.4	5.2	5.7	4.8	2.7	3.1	1.5	0.4
1.5	0.6	2.0	1.6	3.4	5.1	6.4	4.8	0.7	3.0	0.1	0.4
1.2	1.3	1.9	2.2	4.2	5.2	6.2	3.5	2.6	2.8	0.4	0.9
0.9	1.4	2.2	3.4	2.8	5.2	5.8	4.8	2.9	2.9	1.1	0.8
0.9	1.5	1.2	3.5	0.9	4.2	4.7	5.1	2.1	2.7	1.5	0.9
0.8	1.3	1.4	3.4	3.1	4.7	4.2	5.2	3.1	2.3	1.9	0.9
0.1	0.7	1.8	3.5	3.6	5.0	4.5	5.2	2.1	2.8	1.2	0.8
-0.1	1.0	2.3	3.3	4.2	5.3	5.1	1.6	2.2	1.9	1.4	0.8
0.5	1.3	1.6	4.0	2.0	5.2	5.4	2.9	3.2	1.6	1.5	0.8
0.3	1.4	1.5	3.8	3.3	5.2	4.3	3.9	2.9	1.7	1.8	0.8
0.7	1.6	0.5	3.6	4.5	5.4	5.7	2.1	3.7	1.3	2.2	0.7
0.4	1.7	0.7	3.6	4.5	5.2	5.8	4.3	4.2	2.3	1.6	0.5
0.5	1.3	2.6	3.8	4.5	5.6	6.2	4.8	3.6	2.3	1.4	0.3
0.2	1.5	2.9	4.2	5.1	6.3	6.1	5.2	3.2	1.1	1.3	0.8
0.0	1.2	2.9	3.8	4.8	6.9	5.2	4.3	4.1	1.1	1.2	0.9
1.0	1.4	2.7	2.0	5.2	5.9	4.3	3.2	4.1	1.2	1.3	1.0
0.2	0.8	2.2	3.0	4.8	6.2	5.0	2.9	3.9	1.0	1.2	1.0
1.4	1.4	2.4	1.7	5.2	4.3	5.2	3.6	3.9	0.0	1.1	1.0
1.2	1.9	3.0	1.8	5.5	3.7	3.6	3.9	3.9	0.3	1.1	0.4
1.1	1.2	3.2	1.6	4.2	4.9	5.0	4.2	3.6	1.6	1.1	1.4
0.9	1.7	2.9	0.3	1.6	3.8	5.2	4.9	3.6	1.4	0.8	1.5
1.1	0.6	3.8	3.7	4.2	3.8	3.9	4.5	3.3	1.9	1.0	1.4
0.4	0.1	3.3	4.5	4.1	2.9	4.4	4.5	3.8	1.9	1.1	1.0
1.3	1.6	1.1	4.7	2.0	2.8	4.9	4.9	2.9	0.4	1.0	0.9
0.4	1.3	3.9	4.6	2.1	5.4	6.3	5.0	3.3	0.7	1.0	0.9



Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.3	1.7	1.7	4.8	4.1	5.9	6.1	4.6	3.6	0.8	1.0	0.8
0.0	1.5	2.0	4.4	4.7	6.2	5.2	4.3	3.6	1.5	0.2	1.2
1.3	1.3	2.4	3.0	4.3	6.0	4.6	4.6	3.4	1.0	0.1	0.6
0.2	1.5	2.7	4.1	3.4	5.5	5.1	4.5	3.5	0.9	0.3	1.2
0.2	-77.0	2.1	2.7	4.8	5.7	4.9	4.2	3.1	1.2	0.5	0.9
-0.1	-77.0	1.7	-77.0	5.2	-77.0	5.1	3.9	-77.0	0.7	-77.0	1.0
Jan_2005	Fev_2005	Mar_2005	Abr_2005	Mai_2005	Jun_2005	Jul_2005	Ago_2005	Set_2005	Out_2005	Nov_2005	Dez_2005
0.5	1.3	2.2	2.4	3.3	6.2	5.8	5.3	4.5	3.5	0.6	0.0
1.1	1.3	1.8	0.6	3.4	4.8	5.9	6.2	4.6	3.4	0.5	0.6
0.9	1.3	1.8	2.3	2.7	5.0	5.2	6.4	4.4	3.6	0.8	0.4
0.8	1.3	3.3	1.9	4.5	5.3	5.5	6.6	4.2	3.3	1.5	0.2
0.9	0.2	2.2	3.4	5.1	6.0	5.8	5.2	3.6	3.3	1.6	0.6
0.8	1.0	2.0	3.2	5.7	6.1	5.4	4.9	2.5	2.9	1.5	1.0
0.9	1.1	2.5	4.0	4.4	6.3	5.4	4.6	3.5	2.7	1.4	1.0
0.2	1.4	2.4	4.1	3.2	4.8	6.0	4.4	3.9	1.8	0.6	0.9
0.8	1.5	2.2	4.1	3.7	5.5	5.7	1.6	1.5	0.3	1.5	1.0
0.5	1.7	1.5	3.9	4.3	4.8	5.7	3.1	3.1	1.1	1.7	1.4
0.9	1.6	2.4	3.9	1.5	3.7	5.4	4.6	2.6	1.3	1.3	1.1
0.8	1.5	0.9	4.0	3.5	2.3	5.6	5.4	4.1	1.2	0.5	0.8
0.0	1.9	0.9	2.9	3.5	3.5	5.2	5.5	4.4	2.4	1.0	0.9
0.8	2.5	1.8	2.2	4.2	4.2	5.4	5.6	4.2	1.9	1.2	0.9
0.2	1.8	2.6	2.9	3.6	5.4	5.5	4.9	3.8	1.6	1.2	0.8
1.1	2.0	2.2	3.1	2.7	6.0	5.1	4.8	3.5	1.4	0.8	0.8
1.2	1.8	3.2	0.9	4.7	5.7	4.7	4.3	4.0	0.7	0.2	0.8
0.6	1.8	2.6	3.1	4.8	4.7	4.7	5.1	4.5	2.1	0.5	0.8
1.7	1.8	1.5	2.5	4.8	4.9	6.0	4.2	3.7	1.7	0.4	0.9
1.3	2.0	1.2	2.2	4.1	4.8	5.9	5.0	3.7	1.3	0.0	1.0
1.2	1.8	0.4	2.2	3.2	5.7	5.3	5.2	3.5	0.3	0.2	1.2
1.1	0.9	2.7	2.5	4.1	5.9	4.9	5.0	3.5	1.3	0.5	1.3
0.9	1.2	2.1	1.1	4.8	3.5	5.0	4.3	3.4	1.5	1.3	0.6
1.0	1.8	1.6	2.9	5.3	1.2	1.7	4.4	3.2	1.7	1.1	0.4
1.2	2.0	1.6	3.1	5.2	4.1	3.9	4.2	2.8	1.6	0.5	-0.1
1.3	1.2	2.3	4.2	5.3	4.2	2.8	4.2	3.3	2.0	0.5	0.2
1.7	1.2	1.8	4.5	2.3	3.5	4.1	4.3	3.4	0.2	0.4	0.8
1.2	3.0	0.7	4.4	3.7	4.1	4.1	4.5	3.1	0.7	0.2	0.6
1.0	-77.0	1.4	3.6	4.1	4.3	4.7	4.3	3.3	0.4	1.0	0.8
1.4	-77.0	2.9	4.0	4.6	4.3	5.2	4.1	3.5	0.1	0.9	0.2
1.3	-77.0	3.7	-77.0	5.2	-77.0	5.2	3.7	-77.0	0.8	-77.0	0.1
Jan_2006	Fev_2006	Mar_2006	Abr_2006	Mai_2006	Jun_2006	Jul_2006	Ago_2006	Set_2006	Out_2006	Nov_2006	Dez_2006
0.6	1.0	1.7	2.8	4.0	3.1	3.9	4.5	3.7	2.2	1.3	1.0
1.0	0.8	1.0	3.0	3.9	5.2	3.1	5.2	4.3	1.2	0.2	0.3
0.9	1.0	0.6	2.9	3.6	6.3	3.1	3.7	4.4	1.7	0.6	0.7
0.9	1.2	1.2	2.8	3.8	5.8	4.3	5.9	4.5	2.1	0.2	0.5
0.4	1.4	2.0	1.0	3.8	5.5	4.6	5.7	4.3	2.7	1.1	0.3

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

## ANEXO 8 – Necessidades Hídricas das Culturas

### ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.3	1.4	1.2	2.0	4.1	4.2	5.3	7.9	3.5	2.0	0.2	0.9
0.6	1.5	0.6	0.8	3.9	5.1	5.5	6.4	3.6	2.1	1.2	0.2
0.8	1.4	1.7	3.2	3.9	4.6	5.4	5.4	3.6	3.1	1.5	1.4
0.8	0.5	0.9	2.1	4.6	3.8	5.4	8.3	4.2	2.9	1.4	0.9
0.9	1.2	1.9	3.0	4.7	3.5	4.4	5.6	3.9	1.2	1.9	1.2
0.9	1.6	1.0	3.8	4.1	5.2	2.4	5.4	2.5	2.6	2.3	1.2
0.8	1.7	2.7	3.6	4.1	4.5	5.6	4.9	3.8	3.7	1.9	1.0
0.6	1.4	2.8	3.9	4.5	1.7	5.7	4.8	2.8	3.8	1.6	1.0
1.4	1.8	2.9	0.6	3.8	2.1	6.1	4.0	3.0	3.2	0.9	1.0
0.3	1.2	2.2	2.7	3.9	2.3	6.3	3.3	3.0	1.5	0.2	0.9
1.2	1.4	0.9	2.4	4.5	3.2	6.0	2.1	3.5	0.8	1.6	0.8
0.6	1.1	0.2	3.0	3.5	2.2	5.1	3.6	3.5	1.8	1.3	0.8
1.0	1.3	0.9	3.3	4.8	4.6	2.7	3.8	3.7	2.3	1.1	1.0
1.2	0.9	1.6	3.6	4.5	4.7	3.9	4.2	3.5	0.9	0.7	1.0
1.1	1.1	1.7	1.4	4.0	4.5	5.3	5.0	3.4	1.1	1.0	1.1
1.1	1.9	1.9	3.0	2.4	5.0	5.4	5.5	2.8	1.4	0.7	1.1
0.4	2.1	0.8	1.5	4.2	5.1	5.2	6.5	2.6	0.2	0.7	0.9
0.7	1.0	0.1	3.8	4.3	4.7	5.5	5.2	2.0	1.5	0.5	0.9
0.2	1.1	1.6	3.8	5.0	3.3	5.3	5.3	1.3	0.3	0.3	1.2
1.3	0.0	0.8	3.8	5.1	2.3	5.3	5.3	1.6	1.2	1.0	1.0
1.4	2.0	2.7	3.8	5.8	3.1	5.1	4.8	3.2	0.5	0.6	0.9
1.2	2.1	2.7	3.7	5.3	4.5	4.7	5.0	2.7	2.4	0.3	0.8
1.3	2.2	3.1	4.7	4.9	4.3	5.3	4.7	1.9	2.8	1.1	0.8
0.8	-77.0	0.6	4.5	4.4	4.8	5.1	5.3	1.2	2.5	1.1	0.1
1.2	-77.0	2.6	4.5	4.2	4.7	5.0	4.5	1.9	1.7	0.7	0.3
1.2	-77.0	0.6	-77.0	3.6	-77.0	5.2	4.0	-77.0	1.0	-77.0	0.5
Jan_2007	Fev_2007	Mar_2007	Abr_2007	Mai_2007	Jun_2007	Jul_2007	Ago_2007	Set_2007	Out_2007	Nov_2007	Dez_2007
0.6	1.1	1.7	3.0	2.3	5.0	5.1	4.4	6.5	2.7	3.4	0.2
0.9	1.2	1.4	1.3	1.8	6.2	5.2	6.0	5.9	1.1	3.3	0.8
0.7	0.9	0.8	1.6	3.4	4.9	2.7	6.7	5.3	1.6	3.1	0.3
0.8	1.3	0.5	2.8	2.9	6.3	5.8	6.3	5.0	2.1	1.8	0.3
0.7	1.2	1.7	3.9	4.6	6.4	7.5	3.8	5.5	2.3	1.8	0.3
0.7	1.1	0.3	3.5	5.5	6.0	6.7	4.2	4.6	2.7	1.8	0.7
0.5	0.0	2.4	3.2	5.0	5.0	5.6	5.5	4.3	2.9	1.7	0.8
0.3	1.2	2.7	2.1	5.6	4.0	5.5	6.1	2.9	3.3	1.5	1.0
0.5	1.7	2.7	3.1	6.1	5.0	6.1	6.7	2.0	4.3	1.7	0.7
-0.1	1.1	3.3	2.9	4.7	3.3	6.6	5.7	3.2	4.7	1.5	1.0
0.9	0.1	3.1	2.4	4.0	4.3	6.5	4.4	4.0	4.3	0.9	0.8
0.9	1.5	1.3	2.8	3.7	4.2	6.7	4.4	3.6	3.7	1.3	0.8
0.9	0.1	2.2	3.6	3.5	3.4	5.9	4.3	3.3	3.6	2.3	0.9
0.6	2.0	3.0	3.9	4.3	2.0	5.8	4.7	3.6	3.2	2.1	0.9
0.4	0.0	2.9	4.3	4.8	3.9	2.4	3.2	3.7	2.7	2.4	0.9
0.0	0.3	3.0	5.2	5.3	0.7	2.9	5.2	3.3	2.9	2.2	0.8
0.7	1.7	3.1	5.4	6.9	3.1	5.2	5.9	1.4	3.3	0.9	0.6

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

1.0	1.6	3.0	5.3	6.6	3.6	5.4	5.1	3.3	3.2	1.2	0.3
1.1	0.4	2.2	3.9	4.5	2.7	4.9	5.3	3.2	4.0	0.3	0.1
1.0	1.5	3.3	1.4	2.2	4.6	5.4	5.7	3.5	3.5	0.5	0.5
1.2	1.5	3.8	4.7	3.2	4.6	5.1	5.5	2.6	3.1	1.0	1.0
0.9	1.2	3.5	5.1	1.4	5.3	5.2	6.2	3.7	2.7	1.0	1.1
0.6	0.8	3.3	4.9	3.5	5.6	4.0	6.8	3.9	1.7	1.1	1.1
1.2	1.5	3.1	2.3	3.2	3.5	5.6	7.3	4.2	1.0	1.6	0.9
1.3	1.0	1.7	2.7	1.7	4.0	5.7	2.8	3.9	2.3	1.2	0.2
1.3	2.1	2.3	3.5	3.4	5.4	5.6	4.5	3.8	2.4	1.1	1.3
1.3	2.1	2.5	3.5	2.5	5.4	6.5	5.2	4.3	3.5	1.1	1.1
0.1	0.4	2.9	3.8	4.5	5.3	6.8	3.1	4.0	3.1	1.5	0.8
0.2	-77.0	3.3	3.6	4.4	5.5	6.8	3.5	1.5	2.6	1.4	0.5
0.1	-77.0	2.6	3.3	2.8	4.8	7.4	4.9	1.1	3.2	1.4	0.8
1.1	-77.0	2.6	-77.0	3.9	-77.0	5.2	7.0	-77.0	3.7	-77.0	0.8
Jan_2008	Fev_2008	Mar_2008	Abr_2008	Mai_2008	Jun_2008	Jul_2008	Ago_2008	Set_2008	Out_2008	Nov_2008	Dez_2008
-0.1	0.2	2.2	3.8	3.7	3.0	5.2	5.3	3.9	2.5	1.1	0.8
0.4	0.8	2.2	4.1	3.8	3.5	4.1	6.1	3.1	3.4	1.2	1.3
0.5	0.5	0.9	4.2	3.6	4.4	4.9	5.6	2.6	3.5	1.3	0.2
0.7	1.0	3.5	4.2	3.2	4.0	4.9	6.0	2.2	2.9	0.8	0.4
0.0	0.5	2.9	2.5	3.0	3.4	4.9	5.6	1.6	2.9	1.3	0.1
0.0	1.5	2.5	3.4	3.4	4.9	4.7	4.7	3.4	2.5	0.7	0.1
0.4	1.6	2.5	1.0	2.9	5.2	6.0	5.3	3.7	1.0	1.4	0.5
0.2	1.7	1.3	0.5	3.4	5.5	5.3	5.5	3.7	2.4	1.0	0.6
0.4	1.7	2.3	1.5	2.8	5.2	5.8	5.5	3.4	3.1	1.3	1.5
0.9	1.8	0.1	0.8	2.6	5.2	5.5	4.0	3.4	3.2	1.6	1.5
0.8	1.6	1.0	3.0	2.7	5.5	2.4	2.1	3.0	1.9	0.9	0.8
0.7	2.0	2.5	2.4	2.3	6.1	5.3	4.5	4.1	1.2	1.4	1.0
0.0	2.1	2.7	2.4	3.0	5.7	6.1	5.8	3.8	1.7	1.7	0.2
0.8	2.1	2.1	3.6	2.7	5.3	6.4	5.0	3.8	2.4	1.5	1.3
0.1	1.7	2.3	3.0	0.9	2.3	7.0	5.4	3.6	2.6	1.6	1.4
0.9	1.3	1.8	2.3	3.9	2.7	6.6	1.8	2.9	1.7	1.5	1.3
0.2	0.2	1.0	1.1	3.8	4.9	6.7	4.1	1.4	1.9	1.5	1.1
0.5	0.0	2.0	2.5	2.7	4.9	5.5	3.8	2.0	2.4	1.4	0.8
1.1	0.6	0.1	2.3	2.7	5.8	5.1	4.3	3.5	2.6	1.7	1.1
1.1	0.7	2.7	2.0	1.3	6.0	3.4	3.6	1.8	2.1	1.6	1.2
1.0	1.6	3.1	3.2	2.8	5.9	5.6	2.5	2.4	1.7	1.6	1.3
1.2	1.8	1.6	2.6	1.4	5.8	5.8	4.0	2.0	3.1	1.6	1.1
1.1	0.3	3.1	2.1	1.8	5.1	5.5	4.3	2.5	2.7	1.6	0.6
1.0	0.8	2.0	4.3	2.4	5.8	4.3	4.2	2.5	2.6	0.9	0.9
1.0	1.9	1.5	4.9	3.7	6.2	2.5	4.1	3.4	2.7	1.5	1.0
1.1	2.0	1.7	4.5	1.9	5.7	3.7	4.0	3.3	2.8	1.7	1.0
1.2	1.3	2.2	4.4	2.6	5.5	4.2	4.2	2.8	1.6	1.3	-0.1
1.0	1.3	2.4	3.4	2.9	5.4	4.4	4.0	2.9	2.9	0.4	0.1
1.2	2.1	3.1	2.2	2.6	4.6	5.8	3.3	2.9	2.4	0.5	0.3

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

1.3	-77.0	2.3	3.4	3.4	5.1	4.9	3.0	3.0	0.7	0.6	0.8
1.4	-77.0	2.8	-77.0	3.3	-77.0	4.4	3.4	-77.0	0.9	-77.0	0.0
Jan_2009	Fev_2009	Mar_2009	Abr_2009	Mai_2009	Jun_2009	Jul_2009	Ago_2009	Set_2009	Out_2009	Nov_2009	Dez_2009
-0.1	0.6	1.0	3.7	4.7	5.1	4.8	3.1	4.4	2.5	0.7	0.2
-0.1	1.2	1.4	3.2	5.3	4.5	5.2	5.0	4.6	3.0	2.3	0.7
0.3	0.3	2.4	3.3	5.8	4.4	3.5	5.2	4.6	2.8	1.1	0.9
1.0	1.1	1.6	3.2	5.4	4.5	5.2	4.5	4.4	2.6	2.1	0.1
0.0	0.6	2.4	3.2	5.6	1.5	2.7	3.6	5.0	1.1	1.8	0.1
1.4	1.5	1.3	2.1	4.9	3.1	4.7	4.8	4.9	1.2	0.9	0.1
0.8	1.2	2.6	3.0	4.3	3.0	5.7	4.5	4.7	2.4	2.1	1.0
1.0	0.4	2.7	3.2	2.9	3.6	5.7	4.8	4.7	2.1	0.5	0.6
0.9	0.7	2.8	3.0	2.0	3.2	5.6	5.1	4.3	1.9	1.8	0.1
1.0	1.4	2.9	2.9	0.8	2.8	4.7	5.7	2.3	3.3	1.0	0.2
1.1	2.1	3.1	2.9	2.7	5.6	5.0	5.3	3.3	3.4	1.0	1.3
1.1	2.2	3.4	3.0	2.8	5.9	5.3	5.5	2.5	3.6	0.5	0.9
0.5	2.2	3.3	1.3	2.7	4.8	5.4	5.6	3.6	3.6	0.5	1.0
0.5	2.0	3.4	1.5	3.4	2.1	4.6	5.5	3.6	3.2	0.5	1.2
0.1	1.9	3.3	1.9	4.3	3.6	5.3	4.7	4.3	3.0	0.4	1.1
1.1	2.0	3.4	2.5	3.1	3.7	4.9	5.0	4.1	3.4	0.0	0.1
1.2	2.0	4.4	1.0	3.5	6.0	5.5	5.1	3.8	3.0	1.4	0.5
0.0	2.0	4.5	1.1	4.9	4.3	6.3	5.1	1.9	2.7	0.3	0.1
0.6	2.2	3.2	3.7	4.7	6.1	5.7	5.2	3.0	2.0	0.8	1.2
0.6	1.5	3.2	3.6	3.9	6.3	4.8	4.9	3.9	1.5	0.5	0.9
0.7	2.2	2.9	4.1	4.6	6.2	4.1	5.7	4.0	0.3	0.0	0.4
0.0	2.5	1.7	4.4	3.8	5.2	1.8	5.7	4.2	1.9	1.2	0.3
0.6	2.5	2.1	4.5	2.1	4.6	4.7	4.6	4.3	0.8	1.2	0.6
1.4	2.2	4.0	3.5	3.4	3.2	4.8	3.3	4.5	1.1	1.3	0.6
1.6	2.4	4.8	3.2	3.2	4.3	5.6	4.5	4.0	1.4	-0.1	0.0
1.5	2.4	4.6	3.5	5.2	4.9	5.3	4.6	3.5	2.1	0.7	1.3
0.9	2.6	3.7	2.5	6.0	4.6	5.2	4.8	3.2	1.5	0.5	0.5
0.3	0.2	4.0	3.2	6.4	1.9	5.3	4.8	3.5	2.2	0.1	0.2
0.3	-77.0	3.7	1.2	6.3	3.0	5.1	5.1	3.0	1.2	0.8	0.4
0.3	-77.0	3.9	2.5	6.0	3.7	5.2	5.3	2.5	1.3	1.2	0.6
1.3	-77.0	3.3	-77.0	5.7	-77.0	5.1	4.9	-77.0	2.0	-77.0	0.8
Jan_2010	Fev_2010	Mar_2010	Abr_2010	Mai_2010	Jun_2010	Jul_2010	Ago_2010	Set_2010	Out_2010	Nov_2010	Dez_2010
1.0	1.5	1.6	2.6	3.7	5.6	5.1	4.4	4.6	3.2	2.0	0.5
0.1	1.6	1.2	1.5	4.2	2.9	4.5	5.2	4.6	2.8	2.2	1.1
0.1	0.5	0.7	1.5	4.8	5.1	4.9	6.0	4.7	0.7	1.9	1.0
0.1	0.4	1.3	3.6	5.0	5.1	6.3	6.3	4.3	2.7	2.0	0.3
0.5	1.2	0.0	4.0	4.4	5.1	6.6	5.9	4.6	1.9	1.9	0.2
0.2	0.7	0.5	2.5	4.2	5.1	6.0	6.1	3.7	0.2	1.7	0.5
1.5	0.4	1.0	3.8	1.8	4.7	3.9	6.0	2.4	1.3	1.4	0.8
1.7	0.8	0.1	4.1	0.5	1.6	4.7	1.9	3.8	0.2	0.8	0.3
1.2	1.5	2.5	4.2	3.2	3.0	4.2	5.0	4.3	1.8	1.7	0.6

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.4	0.1	2.1	4.8	3.5	3.3	5.6	5.5	4.3	1.2	1.4	0.8
0.4	1.7	2.2	4.4	2.9	3.7	5.3	5.7	4.6	2.3	0.7	1.0
0.2	0.8	2.6	3.9	2.8	2.6	5.2	3.6	4.5	2.0	0.6	0.0
0.1	1.7	2.6	1.9	3.8	5.2	3.9	5.4	4.4	2.4	0.5	0.7
1.2	0.9	3.0	1.1	3.1	5.2	4.8	5.5	3.8	2.4	1.3	0.2
-0.1	0.2	2.7	2.9	3.8	5.8	5.3	5.0	1.1	2.2	1.1	1.9
0.4	0.1	2.3	1.6	4.7	5.5	4.5	4.7	3.4	2.4	0.8	2.0
0.4	1.0	2.3	2.6	5.3	5.2	5.7	3.5	3.2	2.6	1.5	1.4
0.3	0.3	1.8	2.1	5.7	4.4	5.1	3.2	3.2	2.6	0.6	0.9
0.8	2.0	1.4	1.9	6.1	4.2	4.6	4.6	3.7	2.6	0.1	0.3
0.8	1.4	1.3	3.6	6.4	5.2	4.3	5.0	3.5	2.3	1.2	0.0
0.2	1.3	2.7	2.8	6.1	5.9	5.0	4.9	3.4	2.2	0.8	0.5
0.4	1.5	2.7	3.2	5.5	5.4	5.3	4.6	2.7	1.4	0.5	0.2
0.8	1.3	2.6	2.8	4.6	5.0	5.7	1.7	1.6	2.3	-0.1	1.3
1.1	1.5	2.5	2.8	4.8	4.9	5.9	5.0	3.4	2.1	0.9	0.7
1.1	1.3	1.9	4.6	2.3	4.7	6.1	5.1	3.6	1.8	0.4	0.2
1.5	0.7	2.1	4.8	2.9	4.9	6.9	4.8	3.9	2.3	0.7	1.3
1.8	0.7	2.6	4.7	3.0	4.5	6.6	4.9	3.6	1.6	1.1	0.4
1.7	0.6	2.8	4.5	4.3	4.9	6.1	5.2	3.4	1.3	1.0	0.6
0.9	-77.0	1.8	4.0	3.8	5.4	5.7	5.4	3.0	0.3	0.0	1.1
0.6	-77.0	2.4	3.5	5.4	5.1	4.9	5.2	3.6	0.2	0.7	0.3
0.6	-77.0	1.8	-77.0	5.5	-77.0	4.9	4.5	-77.0	2.1	-77.0	0.5
Jan_2011	Fev_2011	Mar_2011	Abr_2011	Mai_2011	Jun_2011	Jul_2011	Ago_2011	Set_2011	Out_2011	Nov_2011	Dez_2011
0.5	1.6	3.2	4.6	2.7	6.0	3.0	2.8	3.0	4.5	1.2	0.9
0.1	1.8	2.8	1.6	3.6	7.2	5.0	3.8	2.2	4.3	0.8	1.5
0.2	1.7	2.9	2.7	3.9	6.2	2.1	5.2	2.7	4.2	1.6	1.8
0.0	1.7	2.4	4.1	2.6	4.7	5.5	5.5	3.8	4.8	0.7	0.4
0.1	1.6	1.3	5.3	4.3	5.4	5.4	5.4	4.5	4.8	1.5	0.7
0.5	1.8	2.1	5.4	3.3	2.1	5.3	2.1	4.8	5.3	2.3	0.8
0.8	1.5	1.9	4.8	4.1	3.2	5.2	4.5	5.1	4.1	2.1	1.3
0.5	0.7	0.5	5.3	3.8	3.5	4.4	6.4	4.2	5.1	0.2	0.1
0.6	1.1	2.0	3.4	5.2	2.1	4.3	6.6	4.3	5.1	0.2	0.3
0.1	1.6	2.6	4.2	5.6	5.0	5.2	6.5	1.6	4.7	1.0	0.0
0.4	1.0	0.9	4.9	5.3	5.3	4.2	5.3	3.3	4.2	0.7	0.9
0.4	1.5	1.4	5.6	5.6	5.3	4.0	4.9	4.2	4.4	2.0	0.9
0.0	0.6	1.3	5.6	5.7	4.1	6.0	5.3	4.3	4.7	1.6	0.8
0.1	0.2	0.8	5.5	5.8	5.4	6.2	4.8	4.1	4.0	1.5	0.9
0.4	1.0	2.5	5.0	7.3	5.1	5.9	4.8	3.8	3.5	1.3	1.0
0.6	1.3	2.3	5.2	4.7	5.3	4.5	3.4	3.5	2.3	1.3	1.0
0.6	1.5	2.1	4.7	3.5	5.0	5.2	5.0	3.6	3.3	1.8	1.0
0.8	0.4	3.2	3.2	1.9	5.5	4.9	4.7	4.4	3.3	0.7	1.6
1.0	0.3	4.0	1.9	4.8	5.9	5.4	4.3	5.3	2.9	0.5	1.4
1.4	1.3	4.3	2.6	5.3	5.7	6.1	3.1	5.3	3.5	1.1	1.2
2.3	1.5	4.0	2.4	4.9	5.7	5.5	3.4	3.9	3.8	0.9	1.2

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

2.7	1.2	3.0	1.1	5.0	6.0	5.7	2.6	1.1	2.4	1.0	0.7
2.2	2.4	4.0	2.2	5.9	6.0	5.5	4.2	3.1	1.5	1.6	1.1
1.3	2.6	2.5	4.6	6.2	6.4	5.9	4.6	2.2	2.1	1.8	2.0
2.2	2.7	2.1	5.2	4.8	6.7	6.2	3.5	3.3	1.9	2.4	2.2
2.1	2.4	1.8	5.3	1.9	5.7	5.9	4.7	3.5	0.7	1.9	1.8
0.5	3.1	2.2	5.0	4.9	4.9	6.4	5.1	3.8	1.6	1.6	1.5
0.7	3.0	0.8	4.3	3.2	5.2	5.7	4.6	4.0	2.7	1.1	1.5
0.9	-77.0	2.4	2.4	3.4	6.0	4.2	4.2	4.4	2.4	0.4	1.7
1.3	-77.0	2.5	0.9	2.5	6.1	4.6	2.7	3.8	2.6	0.7	1.5
1.6	-77.0	4.0	-77.0	5.0	-77.0	5.5	1.7	-77.0	1.4	-77.0	1.3
Jan_2012	Fev_2012	Mar_2012	Abr_2012	Mai_2012	Jun_2012	Jul_2012	Ago_2012	Set_2012	Out_2012	Nov_2012	Dez_2012
0.6	1.1	1.5	1.8	2.7	5.2	5.8	5.4	5.4	2.9	0.8	1.3
1.0	1.9	1.3	1.8	1.5	2.5	5.7	5.8	5.8	3.0	0.5	1.2
0.9	2.6	1.1	2.0	3.0	4.9	5.4	5.6	4.9	3.0	0.4	0.8
1.6	2.5	1.4	2.3	2.8	5.1	3.5	5.4	5.4	2.9	0.4	0.6
1.3	1.9	2.6	3.3	2.8	4.4	2.2	4.8	5.0	2.7	0.5	0.4
1.5	2.0	2.2	3.0	3.8	1.9	5.5	5.3	4.7	2.0	1.7	-0.1
1.8	2.4	3.2	2.2	0.1	4.0	3.6	5.7	4.3	2.8	0.5	0.2
1.7	2.5	2.8	3.2	3.4	4.1	5.6	5.6	4.0	1.9	0.9	0.5
1.6	2.3	3.1	3.6	4.3	3.5	5.5	5.5	3.5	0.8	0.8	0.6
1.6	2.1	3.0	2.9	4.9	4.2	4.6	5.3	3.6	2.0	0.7	0.7
1.4	2.1	3.0	1.5	1.8	3.9	5.4	2.9	3.8	1.6	1.9	0.6
1.0	3.0	2.9	1.6	3.3	4.2	5.8	4.9	4.5	2.7	1.6	0.5
1.0	2.8	3.0	2.8	3.6	5.5	5.0	4.7	4.7	2.5	1.3	0.3
1.1	2.2	3.0	2.0	4.9	3.2	5.8	3.5	4.9	1.7	1.2	0.3
0.6	2.7	2.2	3.2	5.2	2.8	6.3	4.0	4.4	2.4	0.5	0.2
1.2	2.4	2.5	3.3	5.4	3.4	6.8	4.8	3.5	1.1	0.3	0.2
1.8	2.7	1.2	3.6	4.2	3.2	7.4	4.8	3.0	0.8	0.6	-0.1
1.7	2.5	1.5	1.8	3.7	4.2	7.1	4.7	3.5	0.0	1.9	0.1
1.7	2.0	2.7	1.3	3.3	4.9	6.0	4.5	3.9	0.9	1.0	-0.1
1.4	2.3	3.5	1.6	2.6	3.7	5.9	5.0	3.3	1.9	0.2	0.7
1.8	2.1	3.1	1.5	3.3	5.1	6.1	4.7	2.6	0.7	0.9	0.4
1.5	2.3	2.9	2.8	4.3	6.1	6.3	4.7	3.4	1.0	1.0	0.0
1.0	3.0	3.0	1.8	5.1	6.3	5.1	4.1	2.5	1.6	0.3	0.4
1.6	3.0	3.0	3.3	5.0	7.0	5.4	3.8	2.5	1.0	0.0	0.6
1.3	2.5	1.5	0.7	4.4	5.6	5.2	4.7	1.2	0.6	-0.1	1.0
0.6	2.0	3.3	1.5	4.0	5.6	5.0	4.8	2.6	1.4	0.5	0.8
2.2	2.0	3.8	2.3	3.9	5.3	4.3	4.0	2.0	2.1	1.0	0.8
2.1	1.8	4.3	1.8	5.0	5.0	3.9	3.2	1.1	2.3	1.3	0.9
2.0	2.0	5.1	2.1	4.3	3.1	5.5	4.4	3.4	1.0	1.3	0.7
1.9	-77.0	3.0	3.1	5.4	4.6	5.4	5.3	3.1	1.2	0.1	0.3
1.4	-77.0	1.0	-77.0	5.1	-77.0	5.4	5.5	-77.0	0.3	-77.0	0.1
Jan_2013	Fev_2013	Mar_2013	Abr_2013	Mai_2013	Jun_2013	Jul_2013	Ago_2013	Set_2013	Out_2013	Nov_2013	Dez_2013
0.6	0.8	2.2	2.6	2.6	5.6	5.1	5.3	4.7	0.1	0.6	1.2

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.9	1.8	1.9	3.0	4.1	6.1	4.0	5.0	4.8	0.8	0.9	1.0
1.1	2.0	0.9	1.5	3.8	6.0	5.9	5.0	4.7	2.2	1.5	1.1
1.1	1.6	0.3	1.4	4.7	5.0	6.9	5.5	4.2	1.7	0.4	1.1
1.0	2.0	1.2	3.5	4.8	4.5	6.7	4.5	3.9	2.4	0.8	0.2
0.6	1.8	1.2	3.7	2.3	2.0	6.7	4.3	4.0	3.0	0.5	1.1
0.1	2.3	1.6	2.0	2.2	2.5	6.8	4.6	3.8	3.0	0.6	0.9
0.6	2.2	0.8	2.4	2.0	1.2	6.3	5.8	4.2	2.9	1.5	0.7
0.0	1.9	1.9	1.4	1.8	0.9	6.7	6.4	5.0	3.0	1.1	0.8
0.6	0.4	1.7	0.7	4.5	1.4	5.5	6.2	3.9	3.0	1.5	1.0
0.1	1.6	1.5	2.1	4.8	2.5	2.5	5.6	4.2	2.6	1.7	0.8
0.7	0.7	1.7	2.9	4.9	5.1	1.1	4.9	4.8	0.5	1.6	0.4
0.7	1.7	2.7	3.3	5.1	5.0	1.4	5.5	4.6	1.8	1.7	0.1
0.9	2.0	2.8	3.7	4.1	5.4	2.4	5.6	4.2	0.8	2.0	1.0
0.4	1.5	2.4	2.7	4.4	5.3	4.4	4.7	3.7	1.8	1.5	0.9
0.1	0.2	1.2	3.9	2.2	4.3	5.0	4.0	3.5	1.6	1.2	0.7
0.1	0.0	1.3	3.8	3.1	3.5	3.9	4.9	3.8	1.6	1.1	0.0
0.3	0.6	2.0	4.4	3.4	3.5	3.8	4.9	3.9	0.1	1.0	0.0
0.9	1.0	0.4	4.2	2.7	2.0	5.1	5.8	3.9	1.2	1.4	0.8
0.1	1.3	1.5	4.5	3.7	5.1	5.3	5.4	4.2	1.1	1.2	1.0
0.8	1.8	1.4	4.2	4.5	4.0	5.0	4.5	4.1	0.6	0.4	0.7
1.1	0.9	2.5	4.5	4.2	5.6	4.7	4.5	4.0	1.4	-0.1	0.5
0.5	2.2	1.3	4.6	2.4	6.1	5.4	4.8	3.4	0.3	0.6	-0.1
0.3	2.5	2.5	4.2	4.8	6.8	5.3	4.9	3.3	0.1	1.3	-0.1
0.3	2.1	0.5	4.6	4.8	6.9	4.0	5.1	0.5	0.7	1.2	0.6
1.0	2.3	0.7	3.8	4.5	6.3	4.2	4.5	2.1	1.5	1.2	0.4
0.1	1.5	1.3	4.4	3.8	6.3	4.8	5.1	1.0	1.9	1.3	0.1
1.0	2.0	1.1	4.5	4.7	6.1	4.1	4.3	1.7	0.1	1.6	1.1
1.3	-77.0	1.6	3.0	1.9	6.5	5.0	4.1	0.5	2.0	1.3	0.7
1.0	-77.0	3.0	2.2	4.4	7.2	5.7	3.8	0.1	1.9	1.0	0.2
1.4	-77.0	0.1	-77.0	5.1	-77.0	5.4	4.8	-77.0	1.7	-77.0	0.3
Jan_2014	Fev_2014	Mar_2014	Abr_2014	Mai_2014	Jun_2014	Jul_2014	Ago_2014	Set_2014	Out_2014	Nov_2014	Dez_2014
-0.1	1.2	0.0	0.3	4.5	5.6	3.7	3.8	4.6	3.4	1.1	1.4
-0.1	0.9	0.1	1.6	5.2	4.2	4.2	2.7	4.1	3.4	1.3	0.7
-0.1	1.2	2.4	2.4	5.4	4.8	5.1	4.2	2.0	3.2	0.5	1.0
0.3	0.1	1.4	0.2	5.2	4.3	3.5	4.9	3.8	2.6	0.8	0.9
0.6	0.6	1.9	1.4	4.7	3.8	3.9	4.9	4.0	2.0	1.5	0.9
-0.1	0.4	2.1	2.6	4.3	0.8	2.2	5.0	2.6	2.0	0.7	1.0
-0.1	0.9	2.5	3.5	4.1	3.6	5.2	3.9	3.4	1.0	0.8	1.0
0.0	0.9	3.0	3.8	4.3	4.0	5.3	2.8	2.3	1.1	0.7	1.1
0.9	0.4	1.4	1.4	4.4	4.5	6.1	3.9	3.7	1.2	1.1	1.1
0.6	1.8	3.5	3.4	4.3	4.7	6.5	4.1	0.7	2.2	-0.1	1.0
0.5	0.0	3.0	2.7	5.2	5.6	6.5	5.0	2.1	0.9	1.0	0.9
-0.2	0.0	2.7	2.2	5.1	6.0	5.7	3.8	2.0	0.4	1.1	-0.1
0.8	0.7	2.4	2.6	5.3	5.8	5.2	5.2	2.1	0.1	0.1	0.0

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.3	0.4	2.7	1.1	5.7	6.0	5.3	5.3	2.5	1.6	0.7	0.7
0.0	1.3	2.8	2.9	5.6	6.5	5.2	5.2	1.9	0.9	0.7	1.1
0.7	1.5	2.9	2.3	5.3	6.3	5.5	5.4	1.8	1.5	0.7	0.5
0.0	0.2	2.6	3.6	5.6	4.6	5.0	5.3	2.6	0.8	0.4	0.9
-0.1	1.3	2.9	2.1	4.8	2.8	3.2	4.6	1.7	1.1	0.4	1.2
1.0	1.4	2.5	2.5	2.7	4.6	3.4	4.2	3.1	2.3	-0.2	0.8
0.6	0.3	2.0	1.3	1.6	4.9	4.6	4.6	2.5	2.5	0.0	0.6
-0.1	1.5	0.3	3.5	2.1	4.0	5.3	4.4	3.0	2.1	1.0	0.8
0.7	0.8	2.0	2.3	3.1	1.5	4.9	4.4	0.5	2.3	0.1	0.8
1.6	1.8	1.8	2.8	3.2	2.3	4.8	4.4	2.2	2.7	0.0	0.3
1.2	1.5	1.3	2.5	4.1	3.6	3.4	4.7	3.0	1.8	1.1	0.8
0.3	1.2	1.4	3.3	3.9	3.7	3.1	4.5	3.4	2.1	0.5	0.9
0.2	1.7	2.8	1.4	4.3	5.1	3.2	3.0	3.2	2.0	0.0	0.9
1.2	0.2	0.8	4.0	3.3	5.2	4.2	4.7	1.3	1.3	0.3	0.3
0.4	1.2	1.7	4.0	3.2	3.3	3.6	4.3	2.4	0.8	0.4	0.4
1.2	-77.0	2.2	4.2	1.7	4.9	5.5	4.7	3.0	1.9	1.3	1.0
0.8	-77.0	0.9	4.2	4.3	5.2	5.3	4.2	3.1	2.0	0.4	1.4
0.4	-77.0	0.2	-77.0	5.6	-77.0	2.7	4.3	-77.0	1.4	-77.0	1.0
Jan_2015	Fev_2015	Mar_2015	Abr_2015	Mai_2015	Jun_2015	Jul_2015	Ago_2015	Set_2015	Out_2015	Nov_2015	Dez_2015
0.9	1.0	0.5	4.0	2.5	4.0	2.3	5.1	3.0	3.1	0.0	0.3
0.9	0.5	1.0	3.5	3.4	5.0	4.9	5.1	3.4	2.9	0.0	0.3
1.0	0.9	1.8	2.3	0.7	5.0	5.4	4.2	3.1	1.8	0.5	1.0
0.9	2.1	2.9	3.8	1.3	4.6	4.9	5.1	3.6	0.9	0.8	0.6
0.8	1.9	3.3	3.5	3.1	5.3	5.7	5.1	3.1	0.8	0.0	0.9
0.8	0.9	2.8	1.4	3.4	5.1	5.6	5.2	4.1	1.5	1.0	0.5
0.2	1.5	2.9	2.8	4.1	4.6	5.4	5.4	4.4	2.7	1.7	0.0
0.9	1.5	3.2	0.6	2.7	4.7	5.0	5.7	3.7	2.7	1.6	0.5
1.1	1.6	2.7	1.6	4.1	5.0	4.9	5.3	2.7	2.3	1.6	0.5
1.0	0.6	2.4	1.8	4.5	3.6	4.7	5.1	3.7	0.0	1.6	0.4
1.1	1.3	2.5	3.5	4.8	1.8	5.1	3.9	3.6	0.8	1.4	0.3
0.9	1.4	2.1	3.2	4.2	3.0	4.7	2.9	2.8	0.8	1.2	0.8
0.6	0.8	3.2	4.0	3.7	2.8	4.5	4.2	1.2	2.2	1.1	0.0
0.4	0.5	3.2	2.4	4.1	1.7	4.6	4.0	3.3	2.6	1.4	-0.1
0.0	0.7	2.8	1.4	5.4	4.1	4.5	3.7	0.4	2.2	1.3	1.0
0.7	1.4	2.6	2.8	5.3	5.0	5.5	2.0	2.4	1.7	0.9	0.8
0.4	3.3	0.3	3.2	5.8	5.9	2.8	3.8	3.0	0.8	1.2	0.7
0.1	2.2	1.4	2.1	4.4	6.1	4.4	4.4	3.9	0.9	1.1	0.5
2.1	2.1	2.4	3.0	4.9	6.3	4.1	4.7	4.1	0.9	1.0	0.4
0.5	1.0	2.8	3.6	5.0	6.3	4.8	5.0	4.0	2.3	1.0	0.5
0.5	2.3	1.9	3.0	5.5	4.7	4.6	4.2	3.5	2.4	1.6	0.7
0.1	1.3	1.3	3.8	5.8	4.2	5.7	2.9	3.6	2.2	0.7	0.1
0.6	0.6	2.5	3.5	5.5	3.0	5.4	2.9	3.5	1.0	1.2	0.2
1.3	1.3	3.3	1.0	5.4	4.9	3.8	3.4	3.3	0.1	0.9	0.0
1.3	1.1	3.7	1.3	5.3	5.2	5.3	4.3	3.1	0.6	0.9	0.6



Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

1.5	0.8	1.0	2.1	5.8	5.5	5.4	3.8	2.9	1.1	1.4	0.7
1.5	2.5	2.5	3.2	6.0	6.2	5.7	3.0	3.2	1.3	1.3	0.8
1.5	0.6	2.9	3.2	5.5	6.6	5.6	4.6	3.2	1.2	1.2	0.0
0.1	-77.0	2.7	2.5	4.9	5.4	4.5	4.3	2.4	0.7	1.1	0.5
0.0	-77.0	3.2	3.7	4.8	4.3	3.4	3.8	2.9	0.7	1.1	0.0
1.3	-77.0	3.4	-77.0	4.7	-77.0	3.2	2.1	-77.0	1.4	-77.0	0.3
Jan_2016	Fev_2016	Mar_2016	Abr_2016	Mai_2016	Jun_2016	Jul_2016	Ago_2016	Set_2016	Out_2016	Nov_2016	Dez_2016
0.0	1.4	2.2	2.9	4.6	5.5	3.9	4.7	4.1	3.2	1.5	0.1
0.4	1.3	1.2	1.3	4.9	4.3	5.3	5.0	4.1	2.7	1.1	0.2
0.0	1.7	2.6	1.2	5.2	4.3	5.5	4.9	4.2	2.7	1.3	-0.1
0.0	1.9	0.8	0.9	3.9	4.1	3.4	3.0	4.6	2.7	0.6	0.5
0.6	1.3	1.6	3.0	0.3	4.6	4.9	5.4	5.0	3.0	0.4	1.1
0.0	0.5	1.5	3.4	0.7	4.2	4.8	5.9	4.6	2.8	1.1	1.0
0.1	1.0	1.8	3.4	0.0	5.3	3.7	6.3	3.6	2.7	1.3	0.6
0.0	0.8	2.8	3.2	2.5	5.4	5.6	5.8	4.2	2.9	1.1	0.9
0.3	0.1	0.7	1.2	1.9	4.7	5.8	4.7	4.0	2.4	0.6	1.1
0.3	-0.1	3.0	2.3	2.7	4.1	5.1	5.3	4.0	2.1	1.2	0.2
1.0	0.6	2.8	2.6	1.1	5.0	5.3	5.7	3.9	1.4	0.3	0.9
0.7	0.0	2.6	2.1	2.1	5.0	5.6	5.8	3.6	0.9	0.8	0.8
1.0	0.0	2.7	2.1	2.5	2.1	6.0	6.3	3.1	1.5	1.5	0.1
0.0	1.5	2.2	0.3	1.9	3.7	6.2	4.6	3.2	2.3	1.7	0.8
1.3	2.3	0.5	1.1	3.8	3.3	6.6	4.5	2.1	1.2	2.1	0.1
1.1	2.0	1.7	2.5	3.6	3.3	6.3	4.2	3.6	0.7	1.4	0.7
0.4	0.5	2.1	2.9	3.7	4.1	6.0	3.1	3.9	0.5	1.2	1.2
0.7	1.9	0.6	2.2	3.9	5.3	5.4	4.6	4.0	2.1	0.1	1.5
0.4	2.2	1.2	2.4	4.3	5.9	5.0	1.7	3.7	1.9	0.7	1.0
0.6	2.3	1.3	2.1	4.7	5.5	4.9	4.9	3.2	1.5	-0.1	0.8
-0.1	2.0	1.4	1.7	2.6	5.5	5.2	5.0	3.3	0.3	0.8	0.7
0.0	1.8	2.5	2.1	4.7	4.9	4.6	5.0	2.8	1.0	0.8	0.7
1.0	0.8	2.3	3.0	3.7	4.4	6.1	4.8	3.4	1.1	1.2	0.8
1.0	0.7	3.0	3.6	2.1	2.9	6.4	3.9	3.0	0.8	0.7	0.8
0.0	1.3	1.7	4.1	3.5	4.8	6.0	3.9	3.0	1.0	0.2	0.9
0.9	0.4	0.4	3.7	3.3	5.5	4.9	4.3	3.6	2.0	0.4	0.8
0.6	0.9	2.4	2.5	2.5	5.8	4.6	4.3	3.9	1.7	1.0	0.8
0.7	2.4	0.9	3.7	2.9	5.4	5.1	4.6	4.0	1.9	0.8	0.9
1.4	2.6	2.0	3.4	2.5	4.8	5.1	4.2	3.9	1.8	0.5	0.9
0.8	-77.0	1.5	4.4	4.2	4.3	3.0	3.8	3.0	2.1	0.2	0.9
0.3	-77.0	2.6	-77.0	4.8	-77.0	4.4	3.6	-77.0	1.9	-77.0	0.8
Jan_2017	Fev_2017	Mar_2017	Abr_2017	Mai_2017	Jun_2017	Jul_2017	Ago_2017	Set_2017	Out_2017	Nov_2017	Dez_2017
0.2	0.8	0.5	2.9	3.9	4.6	6.0	5.0	4.8	3.3	1.1	0.8
0.0	0.8	1.2	3.3	4.5	4.7	6.5	5.2	5.1	3.7	0.6	0.9
0.1	0.3	0.8	3.7	4.6	4.9	6.8	5.6	4.1	3.2	0.3	1.0
0.0	0.2	1.9	4.0	3.0	5.1	5.4	5.4	3.3	2.7	0.9	1.1
0.1	1.7	0.7	3.9	3.3	4.9	2.7	4.6	4.1	2.9	2.2	1.0

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.8	1.2	0.4	4.5	3.0	4.6	3.2	5.1	4.2	3.3	1.7	0.8
0.9	1.2	2.4	4.0	4.7	6.2	3.9	3.9	4.6	3.0	1.6	0.8
0.9	1.6	2.6	3.8	4.5	4.8	0.9	5.1	3.8	2.7	2.3	-0.1
1.0	0.6	2.9	3.8	2.3	4.9	3.9	5.3	3.2	2.3	1.9	0.3
0.3	0.5	2.9	3.7	1.3	5.6	4.7	5.5	4.0	2.1	1.5	0.1
1.2	0.5	2.0	4.2	2.8	5.3	5.7	5.9	3.8	2.7	1.3	0.6
0.1	0.7	2.6	3.9	3.0	5.3	5.9	5.8	3.9	2.8	1.5	0.7
1.3	1.3	3.5	3.3	2.5	5.5	5.5	4.9	4.0	1.6	1.5	0.1
1.4	0.8	1.8	3.7	2.2	5.0	5.4	4.3	3.4	1.9	1.4	0.2
1.1	1.4	3.2	3.6	3.9	5.3	5.5	4.4	4.1	3.8	1.3	0.2
1.0	1.9	2.7	4.0	4.0	5.8	5.4	4.9	3.9	1.8	1.2	1.0
1.0	1.8	2.6	3.7	4.3	6.5	5.1	5.0	3.5	1.7	1.2	0.9
1.3	1.1	3.1	2.6	5.0	5.3	2.2	5.2	2.7	1.4	1.1	0.9
1.1	1.9	2.4	4.5	4.8	5.7	3.1	5.3	3.1	0.6	1.3	0.9
0.8	2.3	2.8	4.2	5.2	5.9	4.6	5.3	3.3	0.5	1.3	0.9
1.0	1.9	2.3	4.2	4.9	4.0	5.2	4.7	2.5	2.3	1.2	0.8
0.9	2.0	1.9	3.8	4.9	5.1	4.9	4.3	3.0	2.4	0.4	0.8
1.4	1.3	1.2	3.9	5.7	5.4	5.1	4.1	2.9	2.1	0.6	0.8
1.0	1.7	1.2	3.8	5.3	2.9	5.0	4.2	3.1	2.2	0.6	0.5
0.6	1.2	1.6	2.5	4.9	2.3	5.9	4.4	3.1	2.0	0.1	0.1
-0.1	1.2	0.0	2.9	2.4	2.7	5.9	4.6	3.7	2.1	1.1	0.2
0.8	0.8	1.5	4.3	2.3	3.7	4.8	3.0	3.2	2.4	0.8	0.3
0.5	0.9	2.2	4.9	1.8	3.8	5.4	1.6	3.2	2.4	0.0	0.1
0.2	-77.0	3.1	3.3	2.9	4.2	4.5	2.4	3.1	2.3	1.3	0.3
0.1	-77.0	2.8	2.6	4.8	4.3	4.8	3.3	2.9	2.2	1.1	0.2
-0.1	-77.0	3.3	-77.0	4.6	-77.0	2.5	4.3	-77.0	1.9	-77.0	0.4
Jan_2018	Fev_2018	Mar_2018	Abr_2018	Mai_2018	Jun_2018	Jul_2018	Ago_2018	Set_2018	Out_2018	Nov_2018	Dez_2018
0.4	1.3	0.8	2.5	3.8	3.3	2.9	5.3	4.5	3.4	1.0	0.4
0.2	2.0	0.7	1.3	1.1	3.5	1.8	5.2	3.9	3.9	0.5	0.2
0.1	0.6	0.3	2.0	3.5	2.2	3.3	5.6	2.6	3.9	0.5	0.1
0.2	1.5	0.7	2.2	4.6	2.3	3.8	5.9	1.5	3.5	0.2	1.0
-0.1	1.7	1.3	2.9	4.6	2.8	4.2	5.7	2.6	3.4	1.0	0.8
0.8	2.0	1.2	0.1	4.7	2.0	4.8	4.3	2.3	3.2	0.5	0.9
0.9	1.8	0.6	1.7	3.7	0.5	4.7	3.8	3.1	3.2	1.3	0.4
0.9	1.4	0.5	1.3	2.4	3.0	4.9	4.6	2.8	3.2	0.5	0.8
-0.2	0.4	0.1	1.6	1.6	2.7	3.3	4.7	3.5	3.2	0.8	0.8
0.4	1.7	1.9	1.0	4.3	1.0	1.9	5.1	4.4	1.9	0.2	1.0
0.6	0.3	2.1	2.2	3.9	3.7	2.4	5.0	4.5	2.3	-0.2	0.0
0.3	1.6	1.9	1.3	3.7	2.0	2.8	4.4	4.2	1.9	1.1	0.3
0.6	1.0	1.8	1.8	3.7	4.2	3.8	4.6	4.1	2.5	1.3	0.7
0.6	0.8	0.3	2.3	2.7	4.7	3.3	4.7	3.3	2.3	1.3	0.5
0.9	0.2	1.7	1.2	5.1	2.5	3.3	4.6	3.6	0.8	1.0	0.2
0.1	1.1	1.8	2.6	5.4	5.1	4.2	3.6	3.7	1.6	1.2	0.7
1.2	0.9	0.5	3.4	5.1	5.6	4.7	4.1	3.5	1.3	0.2	0.4

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

1.2	2.1	1.7	4.1	3.9	6.3	3.3	4.8	3.5	1.6	0.1	-0.1
1.3	1.4	1.4	3.4	4.6	5.4	3.0	5.2	4.1	1.8	0.6	0.4
0.9	2.0	2.5	2.7	4.0	4.4	3.7	5.0	3.6	2.4	0.7	0.5
0.2	2.1	2.9	0.6	4.2	3.1	5.0	4.7	3.8	1.5	1.0	0.2
1.0	2.1	2.6	2.0	2.1	4.3	4.5	4.3	3.7	2.0	0.4	0.7
1.0	1.9	0.3	3.9	3.8	5.2	4.5	4.1	3.9	1.9	0.7	0.7
0.4	2.0	2.2	4.0	0.9	4.0	3.3	4.9	4.1	2.2	0.2	0.3
0.7	1.9	2.6	3.7	3.5	3.3	1.1	4.4	3.9	1.5	0.1	0.6
1.0	0.8	3.0	3.7	2.9	4.6	4.5	4.5	3.8	1.5	1.3	0.4
1.4	0.4	3.1	2.3	3.6	4.1	4.1	1.6	4.0	2.4	0.9	0.1
1.8	0.5	1.6	1.8	2.2	3.2	3.7	0.7	3.8	2.2	0.8	1.0
2.2	-77.0	1.8	2.6	1.1	1.9	4.9	3.7	3.1	1.7	-0.2	1.1
1.7	-77.0	1.7	2.3	2.1	2.4	3.6	4.0	3.0	0.5	0.8	1.2
1.5	-77.0	2.7	-77.0	2.9	-77.0	4.3	4.5	-77.0	0.0	-77.0	0.9
Jan_2019	Fev_2019	Mar_2019	Abr_2019	Mai_2019	Jun_2019	Jul_2019	Ago_2019	Set_2019	Out_2019	Nov_2019	Dez_2019
0.8	1.5	2.0	2.5	4.2	6.3	4.4	5.0	4.5	2.8	0.8	1.0
0.8	1.5	2.6	3.2	4.8	5.9	2.3	4.4	4.6	3.2	0.8	2.1
0.8	1.5	1.8	2.8	4.7	4.8	4.2	4.9	4.8	3.2	1.6	1.8
0.3	1.2	1.5	2.1	4.9	3.2	2.6	4.7	4.8	2.6	1.1	1.1
0.1	1.5	0.5	2.1	4.0	4.3	3.9	5.0	5.1	3.4	1.5	1.4
0.2	1.4	1.5	2.4	3.0	1.8	3.5	3.3	5.4	3.5	0.9	1.1
0.9	1.2	0.7	0.7	1.1	4.5	4.1	2.5	5.0	4.1	1.8	0.9
1.1	0.8	2.5	2.1	2.3	4.7	3.8	1.9	4.5	3.5	1.5	0.0
0.9	0.9	2.7	2.5	0.6	4.6	4.7	3.2	3.6	3.4	0.5	1.1
1.2	0.5	2.7	3.0	3.2	4.9	5.8	4.1	4.5	3.6	1.1	0.8
1.3	1.6	3.0	3.1	4.8	5.0	6.5	4.4	4.8	2.5	1.5	0.9
1.1	1.8	2.6	3.4	6.1	5.3	2.7	5.1	5.2	2.3	0.9	0.3
1.0	1.7	3.4	1.0	6.4	4.5	3.7	5.3	5.1	2.1	0.8	0.6
0.9	2.1	3.1	1.5	5.5	2.3	3.8	5.3	4.7	2.0	1.1	0.6
0.4	1.5	3.1	2.2	4.8	4.2	4.3	5.6	3.9	2.4	1.4	0.2
0.0	2.0	2.9	3.0	3.4	4.8	1.9	4.9	3.3	2.0	1.4	0.1
1.2	1.4	1.6	0.6	3.7	3.8	2.8	4.9	3.0	0.9	0.7	0.9
0.4	0.5	3.5	2.6	3.5	2.0	5.4	2.9	3.3	1.2	1.5	0.1
0.0	1.9	3.3	1.6	4.2	3.1	4.8	4.2	2.6	1.1	0.1	0.4
1.5	1.5	3.8	4.2	4.0	3.0	5.1	5.3	1.5	2.3	0.9	0.2
1.6	1.5	3.3	4.6	3.7	5.1	5.3	5.2	0.6	1.9	1.1	0.7
0.8	1.9	3.5	2.5	4.7	5.0	4.4	5.4	2.2	2.7	1.0	0.5
0.9	1.8	3.7	2.2	4.2	1.0	4.9	5.3	2.8	1.8	1.4	0.1
1.0	2.2	3.7	1.5	5.2	1.6	5.3	5.0	1.4	1.9	0.4	1.0
1.3	2.3	3.9	3.1	5.8	2.9	3.7	3.6	3.0	2.6	1.0	0.8
1.3	2.1	4.3	3.5	5.7	2.5	4.8	3.6	3.6	2.2	0.1	0.6
1.4	1.5	4.5	4.3	4.7	4.2	2.7	4.0	3.5	1.1	0.8	1.0
0.8	1.9	3.6	4.3	5.9	5.2	4.9	4.5	3.5	0.2	0.8	1.1
0.5	-77.0	3.5	4.5	6.5	5.2	4.5	4.7	3.3	1.0	0.2	1.1

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

### ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.2	-77.0	3.3	4.1	6.7	5.1	5.5	4.5	3.2	0.0	0.1	0.9
0.3	-77.0	3.0	-77.0	6.0	-77.0	4.9	4.4	-77.0	0.5	-77.0	0.6
Jan_2020	Fev_2020	Mar_2020	Abr_2020	Mai_2020	Jun_2020	Jul_2020	Ago_2020	Set_2020	Out_2020	Nov_2020	Dez_2020
0.7	0.1	0.5	0.3	2.8	3.0	4.5	5.1	4.8	2.3	0.9	1.2
0.0	1.5	2.2	3.1	4.0	3.7	5.4	4.8	4.9	2.2	0.4	1.0
0.6	1.7	1.1	3.2	4.7	4.4	5.5	4.1	5.0	2.3	2.6	1.2
0.8	1.4	1.4	1.2	2.8	3.9	5.9	5.2	4.9	2.3	1.3	0.6
0.9	1.6	1.9	0.5	2.9	4.8	5.8	5.2	4.6	1.9	1.0	0.8
0.7	1.3	2.6	0.1	3.3	3.3	5.6	4.9	4.7	2.8	0.2	0.3
0.8	0.8	2.7	1.9	4.4	3.8	5.0	4.9	4.8	3.1	0.9	0.9
1.0	0.4	1.7	1.0	1.8	5.2	5.0	4.7	4.9	2.3	0.8	1.1
0.3	0.9	2.7	0.3	1.8	5.1	4.3	4.9	4.1	2.8	1.5	0.1
1.0	0.3	2.8	2.7	2.5	4.8	5.3	3.7	4.2	3.2	1.3	0.2
1.0	1.2	3.0	3.3	2.9	2.5	5.2	2.4	4.3	3.2	1.0	0.2
0.9	0.1	2.7	3.1	2.4	2.8	5.5	3.1	3.6	3.3	1.4	0.4
0.3	0.5	2.3	1.6	0.7	3.9	5.8	5.0	3.3	2.7	0.6	0.2
0.2	1.5	3.0	1.9	1.5	4.3	5.8	4.7	3.3	2.8	0.4	0.3
0.4	1.5	2.4	1.9	3.2	4.4	6.4	4.1	3.0	3.0	0.7	0.7
0.5	0.4	2.6	1.6	4.3	4.0	6.9	3.8	2.9	2.4	1.3	0.4
0.8	1.5	3.2	2.9	4.8	4.4	6.2	3.6	2.5	2.1	0.2	0.8
0.6	2.5	3.5	3.3	4.8	5.1	5.4	3.7	1.0	2.2	0.7	0.4
2.4	2.0	2.5	3.1	4.7	5.2	4.5	4.4	2.1	0.3	1.6	0.6
2.5	1.7	0.1	1.2	4.5	5.3	4.3	1.0	2.1	-0.1	1.6	0.2
1.7	2.1	1.9	2.6	4.5	5.0	3.8	3.9	3.1	1.7	1.6	0.0
0.5	2.2	2.1	2.9	4.6	5.6	4.9	5.0	2.2	1.8	1.4	0.8
0.5	2.3	2.6	3.0	5.4	4.8	4.7	5.0	2.2	1.1	1.2	0.2
0.2	2.2	2.6	3.4	5.0	4.6	5.1	5.0	1.9	0.7	0.9	1.2
0.9	1.3	2.8	3.3	4.9	3.8	5.2	5.1	2.8	0.6	0.2	1.2
0.4	1.7	2.5	1.3	5.5	4.6	4.6	4.8	3.6	1.6	1.0	1.4
0.1	2.2	3.0	2.4	5.6	3.5	4.9	4.3	3.3	1.1	0.9	0.7
0.5	1.9	3.2	2.1	5.8	5.3	4.6	4.5	2.7	1.2	0.0	0.8
0.4	1.4	2.5	2.0	5.4	5.4	4.7	4.7	3.1	1.9	0.3	0.7
0.0	-77.0	0.6	3.6	4.3	5.0	4.7	5.1	3.0	2.0	0.5	0.5
0.1	-77.0	0.8	-77.0	4.5	-77.0	5.3	5.1	-77.0	1.6	-77.0	0.5

#### 2.2.4 VILA FRANCA DE XIRA

Tabela 17. Evapotranspiração de referência diária na região de cálculo de Vila Franca de Xira (mm)

Jan_2003	Fev_2003	Mar_2003	Abr_2003	Mai_2003	Jun_2003	Jul_2003	Ago_2003	Set_2003	Out_2003	Nov_2003	Dez_2003
0.0	1.5	0.1	2.9	3.5	3.3	4.4	6.2	3.3	1.3	1.4	0.3
0.2	1.1	0.7	2.5	3.9	4.1	3.6	3.8	3.5	2.1	0.6	1.0
0.8	1.0	1.2	4.1	4.5	2.1	4.8	5.0	2.9	1.7	0.6	0.2

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.4	0.5	2.1	4.2	3.4	3.7	5.3	5.2	3.3	2.9	0.5	0.9
0.3	1.6	1.6	4.0	3.2	5.0	4.8	5.3	3.7	3.1	0.7	0.1
0.7	1.2	2.0	4.1	4.5	5.5	5.1	6.0	4.1	3.5	1.8	0.2
0.4	0.6	1.4	4.2	3.8	5.2	5.4	5.8	3.8	3.4	0.8	0.4
0.6	1.5	2.4	3.8	4.3	5.7	5.5	5.6	2.1	3.1	0.9	-0.1
0.8	1.1	2.4	2.9	4.2	5.4	5.7	4.7	4.2	3.4	0.0	0.5
1.3	0.7	2.8	0.9	4.6	5.0	5.4	4.6	4.9	2.4	1.0	0.9
1.0	0.0	2.6	2.1	4.4	5.5	4.1	5.3	5.5	0.1	0.8	0.6
1.0	0.5	1.7	0.9	4.7	6.4	2.7	5.6	6.0	1.7	0.1	0.6
1.1	1.4	2.7	0.9	4.8	6.0	1.5	5.1	5.7	1.8	0.5	0.9
1.1	1.5	2.5	1.0	5.3	5.6	2.7	5.1	5.4	1.7	0.1	0.8
1.0	1.8	2.5	2.0	4.7	3.6	4.1	3.7	4.6	0.7	0.6	0.6
0.9	1.7	1.9	2.8	3.7	2.9	4.4	3.6	4.0	1.3	2.2	0.6
0.1	1.1	0.9	2.5	4.4	4.6	5.3	4.0	4.5	1.7	1.7	0.2
0.0	0.1	2.5	1.5	3.9	6.1	5.4	4.9	4.5	0.1	1.7	0.6
0.9	0.4	2.2	2.6	4.2	7.6	5.2	4.9	3.9	1.5	1.5	0.1
0.3	0.8	3.5	2.4	5.4	6.4	5.3	4.7	2.6	1.2	1.1	0.1
1.0	0.3	3.5	3.3	6.1	5.7	4.9	3.9	2.6	1.5	0.1	0.5
0.7	0.8	2.6	2.2	6.8	3.0	5.4	4.7	2.6	2.0	0.2	1.1
1.4	0.9	1.4	2.0	6.5	4.1	5.2	4.6	3.8	2.1	0.5	1.0
1.5	0.5	0.8	2.0	5.0	3.7	5.1	3.5	3.4	1.2	0.9	1.1
1.5	0.8	1.4	0.4	5.2	5.3	4.8	4.3	3.2	0.2	1.3	0.7
1.6	0.5	0.7	3.7	5.6	5.1	4.4	4.6	3.1	1.4	0.2	0.5
1.7	1.1	1.1	2.9	6.3	5.5	5.1	2.5	2.0	0.5	0.8	0.1
1.7	1.5	1.2	2.0	5.8	4.8	5.8	2.1	2.5	1.3	0.4	0.8
1.8	-77.0	0.5	1.7	4.8	2.2	5.8	3.0	1.6	1.6	0.3	0.4
1.7	-77.0	1.3	3.3	1.1	4.0	6.1	3.2	0.2	0.7	0.3	0.6
2.0	-77.0	2.6	-77.0	4.6	-77.0	5.9	2.6	-77.0	0.9	-77.0	0.1
Jan_2004	Fev_2004	Mar_2004	Abr_2004	Mai_2004	Jun_2004	Jul_2004	Ago_2004	Set_2004	Out_2004	Nov_2004	Dez_2004
0.2	0.3	1.0	1.8	3.3	5.4	6.0	5.2	3.1	3.2	1.7	0.4
1.3	0.7	2.1	1.6	3.6	5.2	6.7	4.8	0.8	3.2	0.4	0.4
1.2	1.3	2.0	2.2	3.6	5.7	6.6	3.9	3.0	3.3	0.3	0.9
0.9	1.4	2.6	3.4	3.2	5.6	6.1	5.2	2.5	3.3	1.0	0.8
1.0	1.5	1.3	3.6	0.9	4.1	5.1	5.2	2.1	2.8	1.5	1.1
0.8	1.4	1.3	3.6	3.0	4.7	4.5	5.5	3.0	2.4	2.0	1.0
0.3	0.6	1.9	3.3	3.3	5.0	4.4	5.3	2.8	3.3	1.2	0.9
0.0	1.0	2.3	3.3	4.3	5.5	5.1	1.6	2.3	2.0	1.6	0.8
0.3	1.3	1.6	4.4	1.7	5.6	5.6	2.4	3.5	2.2	1.6	0.8
0.4	1.5	1.4	4.2	2.7	5.4	4.1	3.1	3.0	1.6	2.0	0.8
0.6	1.8	0.6	3.7	3.5	5.5	6.0	2.1	3.6	1.4	2.2	0.8
0.5	1.8	0.6	3.7	4.1	5.5	6.1	4.6	4.2	2.4	1.9	1.0
0.5	1.3	2.8	4.0	4.8	5.6	6.9	5.2	3.5	2.5	1.8	0.4
0.4	1.2	3.0	4.4	5.3	7.5	6.5	5.4	3.2	1.3	1.8	1.0
0.0	1.4	3.0	3.9	5.5	7.8	5.6	4.5	4.1	1.4	1.5	1.0

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

## ANEXO 8 – Necessidades Hídricas das Culturas

### ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

1.0	1.4	2.9	2.1	5.9	6.8	4.8	3.2	4.6	1.2	1.5	0.9
0.3	0.9	2.2	2.8	5.2	6.8	5.4	3.1	4.5	1.0	1.3	1.0
1.4	1.6	2.5	1.4	5.7	4.9	5.5	3.7	4.0	0.1	1.2	1.1
1.4	2.5	3.0	1.7	6.0	4.0	4.2	3.8	4.0	0.2	0.9	0.4
1.4	1.7	3.1	1.7	4.6	5.1	5.4	4.1	3.6	1.6	1.2	1.4
0.9	1.8	2.7	0.4	2.1	4.1	5.4	4.9	4.0	1.4	0.9	1.4
0.9	0.7	3.7	3.4	3.8	3.9	4.3	4.3	4.0	2.2	1.1	1.5
0.4	0.1	3.2	4.5	3.3	3.1	5.0	4.6	4.4	2.1	1.2	1.2
1.3	1.5	1.4	4.8	2.1	2.9	5.6	5.1	3.1	0.5	1.2	1.0
0.5	0.6	3.8	4.9	2.3	5.8	6.9	5.1	3.6	0.6	1.1	0.9
0.4	1.8	2.4	5.1	4.2	6.2	6.8	4.9	4.4	1.0	1.1	1.0
0.3	1.5	2.0	4.7	4.7	6.4	5.9	4.5	4.1	1.4	0.5	1.2
1.5	1.2	2.4	2.9	4.4	6.4	4.9	4.8	3.8	0.9	0.3	0.5
0.4	1.5	2.5	4.2	3.8	6.1	5.4	4.7	4.0	0.9	0.3	1.2
0.2	-77.0	1.7	2.6	4.9	6.1	5.1	4.4	3.3	1.1	0.5	1.0
0.0	-77.0	1.8	-77.0	5.4	-77.0	5.3	4.0	-77.0	0.6	-77.0	1.0
Jan_2005	Fev_2005	Mar_2005	Abr_2005	Mai_2005	Jun_2005	Jul_2005	Ago_2005	Set_2005	Out_2005	Nov_2005	Dez_2005
0.5	1.5	2.5	3.2	3.1	6.8	6.1	5.7	4.9	4.3	0.7	0.2
1.0	1.7	2.2	0.6	3.4	5.6	6.3	6.5	4.9	4.1	0.7	0.6
1.1	1.6	1.9	1.9	2.9	5.4	5.3	7.0	4.9	4.8	0.3	0.4
1.0	1.5	3.5	1.9	4.7	5.8	5.7	7.9	4.8	4.5	1.6	0.3
0.9	0.4	2.5	3.2	5.5	6.5	6.4	6.2	4.0	4.1	1.8	0.7
0.9	1.0	2.3	3.1	6.5	6.7	6.0	5.6	2.3	3.7	1.8	1.1
1.1	1.2	3.0	3.6	4.9	7.4	5.9	5.2	3.4	3.4	1.8	1.0
0.7	1.5	2.9	3.9	3.4	5.6	6.4	4.6	4.0	2.6	0.9	0.9
0.9	1.8	2.6	4.4	3.7	6.1	6.3	2.1	1.5	0.6	1.7	1.1
0.7	2.1	1.9	4.4	3.4	5.2	6.4	3.3	3.2	0.9	1.9	1.9
0.9	1.9	2.6	4.1	1.9	4.7	6.0	4.8	2.8	1.3	1.6	1.4
0.9	1.6	1.3	4.3	2.9	2.1	6.1	6.0	4.2	1.3	0.5	1.2
0.1	1.9	1.3	3.4	3.4	3.1	5.6	6.2	5.1	2.4	0.7	1.1
0.7	2.7	1.8	2.5	3.9	4.1	5.5	6.4	5.0	2.0	1.2	1.1
0.2	2.0	2.8	2.9	3.9	5.7	5.9	5.7	4.6	1.6	1.1	1.1
1.1	2.7	2.4	3.0	2.7	6.3	5.5	5.2	3.8	1.7	0.9	1.0
1.4	2.4	3.9	0.8	4.8	6.6	4.8	4.5	4.5	0.5	0.4	0.9
0.8	2.3	3.5	3.2	5.0	5.5	5.4	5.3	5.3	2.1	0.6	0.9
1.7	2.2	1.8	2.4	5.0	5.2	6.4	4.3	4.4	2.0	0.4	1.1
1.4	2.1	1.5	2.3	4.7	5.2	6.8	5.5	4.4	1.1	0.1	1.1
1.5	2.0	0.3	2.8	3.4	6.1	5.7	6.1	4.0	0.3	0.4	1.4
1.3	0.9	2.8	2.3	4.2	6.7	5.3	5.9	3.6	1.2	0.5	1.5
1.0	1.3	1.7	1.1	5.2	4.0	5.3	4.9	3.5	1.7	1.4	0.9
1.1	1.8	2.1	2.6	5.9	1.7	2.1	4.9	3.5	1.9	1.2	0.7
1.7	2.2	1.6	3.1	5.5	4.5	3.7	4.6	3.3	1.7	0.6	-0.1
1.5	1.2	2.3	4.2	5.7	4.4	3.4	4.6	3.8	2.5	0.6	0.2
2.0	1.4	2.0	4.5	2.4	4.7	4.0	4.7	3.9	0.2	0.4	0.7

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

1.5	3.3	0.9	4.6	3.8	4.0	4.4	4.8	3.3	0.8	0.3	0.5
1.2	-77.0	1.6	4.4	3.9	4.4	4.8	4.5	3.6	0.7	1.1	0.6
1.8	-77.0	2.9	4.3	4.5	4.7	5.7	4.7	4.5	0.1	1.0	0.2
1.7	-77.0	4.1	-77.0	5.1	-77.0	5.6	4.4	-77.0	0.8	-77.0	0.1
Jan_2006	Fev_2006	Mar_2006	Abr_2006	Mai_2006	Jun_2006	Jul_2006	Ago_2006	Set_2006	Out_2006	Nov_2006	Dez_2006
0.5	1.2	2.1	2.6	4.3	3.5	4.6	5.3	4.0	2.4	1.1	0.8
1.1	0.9	1.3	3.1	4.0	5.6	3.3	5.7	4.7	1.5	0.2	0.3
0.9	0.8	0.7	3.0	3.3	6.8	3.8	4.6	5.0	2.2	0.5	0.5
0.9	1.2	1.2	2.9	3.8	6.5	4.6	6.6	5.5	2.0	0.1	0.3
0.6	1.6	2.3	1.1	3.9	6.0	4.9	6.9	5.3	3.0	0.9	0.1
0.4	1.7	1.5	1.7	4.3	5.0	5.8	7.7	4.8	2.2	0.0	0.6
0.7	1.8	1.2	0.8	4.0	5.6	6.1	6.4	4.3	2.3	1.0	0.1
0.8	1.6	1.9	3.1	4.0	5.1	5.9	5.8	4.2	2.8	1.3	1.1
0.9	0.8	1.1	2.4	4.9	3.9	6.0	7.9	4.3	2.7	1.2	0.7
1.0	1.5	2.1	3.2	5.0	3.9	4.8	6.7	4.2	0.9	1.7	0.9
1.1	1.8	1.6	3.9	4.4	5.5	3.8	6.6	2.5	2.4	1.9	0.9
0.9	1.7	2.8	3.7	4.3	4.8	6.2	5.9	4.0	3.3	1.5	0.8
0.6	1.6	2.9	4.1	4.9	1.6	5.7	5.3	1.7	3.5	1.4	0.7
1.1	1.8	3.1	0.7	4.1	2.2	6.8	4.7	3.2	3.1	0.9	0.8
0.3	1.3	2.1	2.1	3.9	2.5	7.1	4.0	3.1	1.6	0.2	0.7
0.9	1.4	0.9	2.4	4.8	2.9	6.7	2.3	3.9	0.5	1.2	0.7
0.6	1.1	0.2	3.0	4.0	2.2	6.2	3.9	3.4	1.9	0.9	0.6
1.0	1.3	0.8	3.2	5.1	4.9	3.0	3.7	4.0	1.7	0.8	0.7
1.2	1.0	1.6	3.7	4.8	4.6	4.5	4.0	3.8	0.7	0.7	0.7
1.2	1.0	1.4	1.7	4.4	5.0	5.8	5.5	3.8	1.0	0.9	0.8
1.2	1.9	1.8	3.0	3.0	5.5	5.7	6.2	1.9	1.1	0.5	0.8
0.6	2.3	1.0	1.6	4.3	5.8	5.6	6.3	2.6	0.2	0.5	0.7
0.9	1.3	0.2	3.7	4.5	5.0	5.7	5.0	2.6	1.3	0.4	0.7
0.4	1.4	1.8	4.1	5.3	4.0	5.5	5.2	1.4	0.3	0.1	0.9
1.4	0.1	1.0	4.0	5.6	2.8	5.7	5.3	2.1	1.0	0.8	0.9
1.6	1.9	2.6	4.2	6.3	3.6	5.4	5.3	3.3	0.3	0.6	0.7
1.5	2.1	2.4	4.2	6.2	4.9	5.1	5.4	2.8	2.2	0.3	0.7
1.5	2.4	2.9	4.9	5.7	4.7	5.8	5.2	2.2	2.6	0.9	0.7
0.3	-77.0	0.7	4.8	5.1	5.1	5.7	5.8	1.2	2.2	0.9	0.1
1.2	-77.0	2.6	4.7	4.5	5.0	5.6	5.5	1.7	1.4	0.6	0.2
1.3	-77.0	1.1	-77.0	4.3	-77.0	5.7	5.0	-77.0	0.9	-77.0	0.4
Jan_2007	Fev_2007	Mar_2007	Abr_2007	Mai_2007	Jun_2007	Jul_2007	Ago_2007	Set_2007	Out_2007	Nov_2007	Dez_2007
0.5	1.1	1.6	3.1	1.9	5.0	4.8	4.6	6.1	2.6	2.8	0.2
0.8	1.3	1.2	1.0	1.6	6.0	5.3	5.8	5.5	0.8	2.7	0.5
0.6	0.9	1.1	1.9	3.3	5.0	3.3	6.7	5.1	1.3	2.8	0.3
0.7	1.1	0.5	2.7	2.7	6.2	6.0	6.4	4.9	2.0	2.3	0.5
0.6	1.0	1.8	3.5	4.6	6.3	7.1	4.0	6.0	2.0	2.3	0.4
0.6	1.0	0.4	3.3	5.3	6.1	6.4	4.4	4.9	2.5	2.3	0.7
0.2	0.1	2.5	3.1	4.8	5.1	5.6	5.5	4.3	2.7	2.4	0.8

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

## ANEXO 8 – Necessidades Hídricas das Culturas

### ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.2	1.0	2.8	2.2	5.4	3.8	5.6	6.0	3.4	3.0	1.9	1.0
0.3	1.7	2.6	2.8	5.9	4.9	6.1	6.4	2.2	3.7	2.0	0.8
-0.1	1.0	3.6	2.4	4.5	3.3	6.4	5.6	2.9	4.0	2.2	1.0
0.7	0.2	3.7	2.2	4.0	4.0	6.3	4.1	4.2	3.8	1.5	0.9
0.7	1.5	1.6	2.7	3.8	4.0	6.4	4.3	3.4	3.4	1.6	0.9
0.7	0.2	2.8	3.4	3.7	2.8	5.8	4.1	3.3	3.4	2.0	0.9
0.5	2.0	3.3	3.9	4.0	2.1	5.6	4.7	3.6	3.0	1.7	1.0
0.4	0.3	3.2	4.0	4.8	3.9	2.4	2.8	3.5	2.3	1.8	0.9
0.1	0.5	3.0	4.8	5.2	0.8	2.2	5.1	2.9	2.7	2.0	0.8
0.7	1.6	3.1	5.1	6.5	3.2	5.2	5.6	1.4	2.9	1.1	0.6
0.9	1.7	3.1	4.9	6.2	3.9	5.5	5.1	3.0	2.9	1.3	0.2
1.1	0.4	2.3	3.2	4.6	2.4	4.9	5.4	3.3	3.4	0.3	0.2
1.0	1.5	3.3	1.3	2.4	4.1	5.3	5.6	3.7	3.2	0.4	0.6
0.9	1.6	3.5	4.4	3.1	4.4	5.3	5.4	2.2	2.9	0.7	1.0
0.7	1.3	3.3	4.9	1.2	5.3	5.2	5.9	3.6	2.6	0.9	0.9
0.6	0.8	3.1	4.9	3.1	5.6	4.0	6.2	3.5	1.4	1.0	0.8
1.1	1.4	2.9	2.3	3.4	3.9	5.6	6.6	4.0	1.1	1.6	0.8
1.2	1.1	1.9	2.7	2.1	4.3	5.8	2.9	3.8	2.2	1.7	0.2
1.7	2.2	2.1	3.5	3.3	5.3	5.7	4.5	3.8	2.2	1.3	1.0
1.7	2.1	2.5	3.0	2.0	5.5	6.5	5.2	4.0	3.0	1.3	0.8
0.5	0.3	2.8	3.7	4.6	5.4	6.7	3.5	4.0	2.7	1.1	0.7
0.2	-77.0	3.3	3.7	4.3	5.6	6.9	3.2	1.5	2.3	1.0	0.5
0.1	-77.0	2.4	3.0	3.1	4.8	7.2	4.8	1.0	2.8	1.1	0.7
1.1	-77.0	2.3	-77.0	3.4	-77.0	5.2	6.5	-77.0	3.0	-77.0	0.7
Jan_2008	Fev_2008	Mar_2008	Abr_2008	Mai_2008	Jun_2008	Jul_2008	Ago_2008	Set_2008	Out_2008	Nov_2008	Dez_2008
0.0	0.2	2.2	3.8	3.8	3.4	5.6	5.3	4.1	2.7	1.1	0.6
0.5	0.8	2.0	4.5	4.2	3.5	4.1	6.0	3.4	3.3	1.1	1.1
0.4	0.5	1.3	4.7	4.0	4.6	5.2	5.5	2.9	3.7	1.1	0.2
0.6	0.7	3.6	4.7	3.1	3.9	4.9	5.8	2.2	3.4	0.6	0.2
0.0	0.5	3.3	3.1	3.1	3.8	5.1	5.5	1.7	3.3	1.0	0.2
0.1	1.6	2.9	3.6	3.4	5.1	5.3	4.7	2.9	2.8	0.6	0.1
0.4	1.9	2.8	1.3	2.7	5.5	5.7	5.2	3.9	0.8	1.0	0.3
0.2	2.0	1.6	0.6	3.4	5.8	5.5	5.3	4.0	2.2	0.9	0.5
0.3	2.1	2.2	1.5	2.5	5.5	5.6	5.4	3.6	3.4	1.3	1.3
0.8	2.2	0.3	0.9	2.8	5.3	5.2	4.9	3.7	4.0	1.3	1.3
0.8	1.9	1.2	3.0	2.9	5.5	2.8	2.4	3.3	2.0	0.8	0.5
0.7	2.2	2.5	2.5	2.5	6.3	5.2	4.3	4.5	0.8	1.4	0.7
0.0	2.3	2.6	2.1	2.8	6.0	5.9	5.7	4.1	1.7	1.4	0.2
0.7	2.1	2.1	3.7	2.3	5.5	6.3	5.0	4.4	2.5	1.4	0.8
0.2	1.9	2.5	3.2	1.1	2.9	6.7	5.3	3.8	2.5	1.6	1.2
0.9	1.6	1.8	2.5	3.4	2.9	6.5	1.9	3.1	1.7	1.5	1.0
0.2	0.5	1.0	1.1	3.7	5.0	6.4	4.3	2.0	1.8	1.4	0.8
0.5	-0.1	1.3	2.3	2.8	5.2	6.1	4.3	2.2	2.0	1.1	0.6
1.1	0.6	0.2	1.8	3.1	5.7	6.0	4.8	3.7	2.4	1.7	0.9



Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

1.0	0.9	3.0	1.8	1.7	5.9	3.1	4.5	2.1	1.9	1.6	1.0
0.9	1.5	3.3	3.0	2.6	5.8	5.1	3.0	2.4	1.6	1.4	1.1
1.0	2.1	1.6	2.1	1.3	5.8	5.5	4.3	2.1	2.8	1.3	1.1
1.1	0.5	3.2	1.9	1.5	4.7	5.3	4.9	2.4	2.9	1.3	0.7
1.1	0.9	2.2	4.2	2.7	6.1	4.8	4.7	2.1	2.6	0.7	0.7
1.2	2.0	1.8	5.2	3.2	5.9	2.2	4.5	3.6	2.8	1.2	0.9
1.1	2.1	1.6	4.8	1.9	5.6	4.4	4.2	3.8	2.9	1.7	0.7
1.2	1.1	2.0	4.5	2.5	5.9	4.7	4.4	3.1	1.6	1.2	-0.1
1.2	1.5	2.2	3.2	3.2	6.2	5.0	4.4	3.0	2.6	0.3	0.0
1.3	2.2	3.0	2.3	2.8	5.3	5.7	3.9	3.1	2.2	0.3	0.1
1.2	-77.0	2.1	3.6	2.8	5.7	5.2	3.3	3.4	0.7	0.5	0.7
1.4	-77.0	2.6	-77.0	3.7	-77.0	4.3	3.6	-77.0	0.7	-77.0	0.0
Jan_2009	Fev_2009	Mar_2009	Abr_2009	Mai_2009	Jun_2009	Jul_2009	Ago_2009	Set_2009	Out_2009	Nov_2009	Dez_2009
0.0	0.4	0.9	3.6	4.9	5.6	5.1	2.8	4.4	2.5	0.6	0.1
-0.1	0.9	1.3	3.4	5.9	4.9	5.6	5.1	4.6	3.0	1.9	0.5
0.4	0.3	2.3	3.4	6.1	4.5	4.3	5.6	4.7	2.8	0.9	0.7
0.7	0.9	1.3	3.4	5.8	4.5	5.5	5.0	4.6	2.9	1.9	0.4
0.1	0.7	2.2	3.3	5.9	1.5	3.0	4.4	4.9	1.4	1.3	0.2
1.0	1.1	1.3	2.0	5.5	2.8	5.1	5.1	4.8	1.5	0.6	0.3
0.8	1.0	2.8	2.9	4.5	3.0	5.8	4.9	4.8	2.4	1.5	0.7
0.9	0.4	2.6	3.4	3.0	3.5	5.9	4.9	4.9	2.1	0.5	0.6
0.7	0.6	2.9	2.7	2.1	3.2	5.8	5.3	4.4	1.9	1.3	0.1
0.8	1.4	3.0	2.9	1.5	3.1	5.2	5.7	2.7	3.1	1.0	0.3
1.0	1.8	3.3	2.8	2.5	5.8	5.1	6.4	3.5	3.3	0.9	0.9
1.0	1.8	3.8	3.3	2.4	6.0	5.7	6.1	2.5	3.9	0.9	0.8
0.4	2.0	3.5	1.1	2.9	5.0	5.6	5.7	3.1	4.4	0.8	1.0
0.3	1.7	3.5	1.4	3.7	2.0	4.8	5.9	3.7	3.5	0.7	1.2
0.0	1.7	3.3	1.6	4.7	3.9	5.7	5.0	4.4	3.2	0.6	0.9
0.7	2.0	3.8	2.4	3.2	3.6	5.5	5.2	4.0	4.2	0.5	0.1
0.8	2.1	4.8	1.0	3.9	6.2	5.8	5.2	3.7	3.5	1.0	0.5
0.0	2.1	4.7	0.9	4.8	4.3	6.5	5.3	1.8	2.7	0.5	0.1
0.5	1.7	3.7	3.5	5.0	6.4	6.1	5.3	2.7	2.0	0.8	1.2
0.5	1.7	3.3	3.8	4.3	6.6	5.1	5.2	3.9	1.3	0.7	1.0
0.6	2.0	2.9	4.2	4.9	7.0	4.6	5.5	3.9	0.4	0.2	0.4
0.1	2.4	2.1	4.9	3.8	5.5	2.1	5.6	4.5	1.9	0.8	0.5
0.6	2.4	2.3	5.0	2.0	5.2	4.6	4.8	4.6	0.9	0.8	0.6
1.3	2.2	3.9	3.9	3.0	3.7	5.2	3.5	4.6	1.2	1.1	0.6
1.1	2.3	4.5	2.9	2.5	3.7	5.8	4.8	4.1	1.3	0.0	0.1
1.1	2.5	4.3	3.7	5.4	4.4	5.6	4.8	3.7	1.9	0.7	1.0
0.5	2.6	3.4	2.5	6.4	5.0	5.5	4.9	3.4	1.6	0.3	0.4
0.2	0.5	3.9	2.8	7.6	2.1	5.5	4.7	3.8	2.2	0.2	0.2
0.4	-77.0	3.5	1.2	7.3	3.1	5.5	5.3	3.0	1.3	0.6	0.4
0.3	-77.0	3.7	2.0	6.8	3.6	5.6	5.6	2.7	1.2	0.9	0.8
1.2	-77.0	3.2	-77.0	6.6	-77.0	5.5	5.1	-77.0	1.6	-77.0	0.6

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

### ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

Jan_2010	Fev_2010	Mar_2010	Abr_2010	Mai_2010	Jun_2010	Jul_2010	Ago_2010	Set_2010	Out_2010	Nov_2010	Dez_2010
0.7	1.3	1.7	2.6	3.6	5.9	5.6	4.6	4.6	3.2	1.9	0.4
0.3	1.6	1.3	1.8	4.2	3.1	4.7	5.4	4.4	2.5	1.8	0.9
0.1	0.7	0.8	1.5	4.9	5.2	5.3	6.3	4.6	0.8	1.5	0.8
0.1	0.4	1.2	3.5	5.0	5.2	7.0	6.7	4.3	2.4	1.9	0.5
0.5	1.2	0.1	4.1	4.7	5.0	7.5	6.1	4.5	2.2	1.8	0.2
0.2	0.8	0.5	2.7	4.4	5.3	6.9	6.6	3.9	0.4	1.5	0.4
1.3	0.5	0.9	3.9	1.9	5.1	4.8	6.7	2.4	1.6	1.3	0.7
1.4	0.8	0.1	4.4	0.5	1.6	5.5	2.2	3.7	0.4	0.7	0.2
1.0	1.1	2.4	4.7	2.8	2.6	5.0	4.9	4.3	1.5	1.4	0.5
0.3	0.1	2.2	5.1	3.5	3.1	6.1	6.0	4.6	1.2	1.2	0.8
0.3	1.4	2.3	4.8	2.7	3.3	5.7	6.7	4.8	2.1	0.7	0.8
0.1	0.9	2.4	3.9	3.0	2.9	5.6	4.8	4.7	2.1	0.6	0.0
0.2	1.6	2.5	2.1	3.7	4.8	4.5	5.7	4.8	2.2	0.8	0.6
1.1	1.0	2.8	0.9	2.8	5.3	5.1	6.0	4.2	1.9	1.0	0.4
0.0	0.2	2.9	2.5	4.1	6.1	5.7	5.8	1.3	1.8	1.0	1.5
0.3	0.2	2.4	1.8	4.8	5.7	5.5	5.0	3.2	2.1	0.8	1.5
0.4	0.9	2.4	2.2	5.6	5.5	6.2	3.7	3.2	2.4	1.3	1.0
0.3	0.3	2.1	2.1	6.1	4.6	5.8	3.8	3.3	2.5	0.5	0.7
0.7	1.8	1.3	1.9	6.5	4.5	5.4	4.9	3.9	2.5	0.2	0.4
0.7	1.2	1.3	3.7	6.9	5.4	5.4	5.1	3.5	2.2	1.1	0.0
0.3	1.1	2.6	3.1	6.8	6.3	5.3	5.2	3.3	2.1	0.8	0.3
0.4	1.3	2.5	2.9	6.0	5.9	5.5	4.7	2.8	1.2	0.5	0.2
0.7	1.3	2.5	2.8	5.2	5.2	6.1	2.0	1.7	2.0	0.0	1.0
1.0	1.5	2.0	2.9	4.9	5.1	6.8	5.2	3.1	1.9	0.7	0.6
1.1	1.2	1.7	4.6	2.0	4.9	7.1	5.5	3.6	1.6	0.4	0.3
1.5	0.8	2.0	5.0	2.8	5.2	7.9	5.1	3.8	2.4	0.8	1.0
1.9	0.7	2.6	4.8	3.1	5.1	7.7	5.1	3.4	1.7	1.2	0.4
1.6	0.5	3.1	4.8	4.4	5.5	6.6	5.3	3.4	1.5	0.7	0.6
0.8	-77.0	1.6	4.1	4.3	6.0	6.6	5.8	3.0	0.4	0.1	0.7
0.7	-77.0	2.2	3.4	5.6	5.8	5.7	6.1	3.4	0.3	0.5	0.2
0.6	-77.0	1.7	-77.0	5.7	-77.0	4.9	5.1	-77.0	1.5	-77.0	0.3
Jan_2011	Fev_2011	Mar_2011	Abr_2011	Mai_2011	Jun_2011	Jul_2011	Ago_2011	Set_2011	Out_2011	Nov_2011	Dez_2011
0.2	1.3	2.5	4.5	2.6	6.2	3.0	3.1	1.9	4.2	0.9	0.7
0.1	1.5	2.3	1.4	3.3	7.0	4.8	3.8	1.9	4.0	0.5	1.2
0.1	1.5	2.5	2.4	3.9	6.0	2.9	5.3	2.7	3.7	1.2	1.2
0.0	1.4	1.9	3.7	3.0	5.6	5.5	5.6	4.0	3.9	0.6	0.3
0.1	1.5	1.2	4.9	4.0	5.1	5.4	5.5	4.4	4.2	1.4	0.5
0.5	1.6	1.8	5.4	3.1	2.0	5.3	2.5	4.8	4.3	1.8	0.5
0.7	1.4	1.9	4.6	3.8	3.8	5.3	4.5	5.0	3.7	1.4	0.8
0.4	0.8	0.4	5.0	3.5	4.4	4.3	6.3	4.3	4.3	0.1	0.2
0.7	1.2	1.5	3.3	4.9	2.3	4.0	6.6	4.4	4.1	0.1	0.2
0.2	1.4	2.5	4.2	5.3	4.9	5.4	6.7	2.1	4.1	0.8	0.0
0.3	1.0	1.0	4.6	5.3	5.3	4.6	5.4	3.5	3.7	0.5	0.5

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.5	1.1	1.4	5.1	5.6	5.3	4.6	4.8	4.3	3.7	1.8	0.6
0.0	0.5	1.1	5.1	5.6	4.3	6.0	5.4	4.4	3.9	1.8	0.4
0.0	0.3	0.6	5.1	5.2	5.5	6.0	5.0	4.3	3.5	0.9	0.6
0.3	0.9	2.1	4.7	7.0	5.1	5.7	4.9	4.0	3.0	0.9	0.7
0.5	0.9	1.9	5.0	4.9	5.2	4.5	3.2	3.4	2.2	0.9	0.6
0.5	1.7	2.3	4.6	3.0	4.9	5.5	5.1	3.4	2.7	1.3	0.6
0.7	0.5	2.9	2.9	1.6	5.6	4.9	4.6	4.1	2.6	0.6	0.9
0.8	0.2	3.6	1.7	4.4	6.1	5.5	4.7	4.8	2.5	0.3	0.9
1.2	1.0	3.9	1.8	5.2	5.7	6.0	3.9	5.2	2.9	0.7	0.7
2.1	1.4	3.7	2.1	4.7	5.7	5.5	3.6	3.8	3.2	0.6	0.6
2.4	1.4	3.1	0.8	5.0	6.1	5.8	3.2	2.8	2.1	0.5	0.5
2.2	2.0	3.6	2.4	5.5	6.0	5.6	4.0	3.2	1.3	1.0	0.6
2.0	2.2	2.1	4.0	5.9	6.5	6.0	4.8	2.5	1.7	1.4	1.2
2.1	2.2	1.9	4.8	4.7	7.0	6.0	4.0	3.4	1.4	1.6	1.4
1.7	2.1	1.3	5.0	1.8	5.8	5.8	4.3	3.5	0.5	1.2	1.3
0.3	2.6	1.7	4.8	4.7	5.2	6.4	4.8	3.4	1.4	1.1	1.0
0.7	2.4	0.8	3.7	2.9	5.1	6.2	4.7	3.4	2.1	0.9	1.0
0.6	-77.0	2.3	2.1	3.2	6.0	4.9	4.4	4.1	1.8	0.5	1.1
1.0	-77.0	2.5	1.1	2.6	6.4	4.7	2.9	3.5	2.1	0.6	0.9
1.3	-77.0	3.8	-77.0	4.7	-77.0	5.3	2.1	-77.0	1.1	-77.0	0.9
Jan_2012	Fev_2012	Mar_2012	Abr_2012	Mai_2012	Jun_2012	Jul_2012	Ago_2012	Set_2012	Out_2012	Nov_2012	Dez_2012
0.3	0.6	1.5	1.4	2.4	5.6	6.0	5.6	6.1	2.8	0.8	0.9
0.7	1.5	1.3	1.6	1.4	2.6	6.0	5.9	6.6	2.7	0.5	0.8
0.5	1.9	1.0	1.6	2.2	5.0	5.6	5.8	5.6	2.8	0.3	0.7
1.0	1.9	1.3	2.5	2.9	5.3	4.0	5.7	5.9	2.8	0.4	0.3
0.8	1.5	2.4	2.9	2.8	4.9	4.7	4.8	5.5	2.8	0.5	0.3
0.9	1.7	2.3	2.0	3.5	2.5	5.6	5.4	5.2	2.0	1.5	-0.1
1.2	1.8	2.8	2.5	0.3	4.4	3.5	5.8	4.5	2.6	0.6	0.2
1.2	2.0	2.4	3.6	3.5	4.2	5.7	5.9	3.9	2.0	0.7	0.5
1.1	1.7	3.4	3.9	4.6	3.8	5.6	5.9	3.4	0.9	0.6	0.6
1.2	1.6	3.3	1.8	5.3	4.2	4.8	5.3	3.8	2.0	0.6	0.6
1.1	1.8	3.1	1.4	2.4	4.2	5.5	5.1	3.8	1.6	1.6	0.5
0.8	2.4	3.1	2.5	3.7	4.3	5.8	5.1	4.5	2.5	1.3	0.4
0.8	2.2	3.1	1.9	3.8	5.6	5.3	4.9	4.7	2.3	1.1	0.4
0.7	1.9	3.2	2.3	5.1	3.6	6.0	3.7	5.2	1.6	1.0	0.3
0.4	2.2	2.4	3.4	5.3	3.7	6.4	3.7	5.2	2.3	0.6	0.3
0.9	2.0	1.8	4.0	6.0	3.5	7.1	4.9	3.7	1.4	0.3	0.2
1.2	2.2	1.1	2.3	4.1	3.8	7.9	5.1	3.0	0.6	0.4	-0.1
1.2	2.0	2.2	1.4	4.1	4.1	7.6	4.8	3.7	-0.1	1.3	0.1
1.2	1.7	3.2	1.6	3.2	5.1	6.2	4.6	4.0	1.0	0.8	0.1
0.8	2.0	3.6	1.5	2.5	3.9	6.2	5.2	3.4	1.7	0.3	0.6
1.2	1.9	3.2	1.3	3.3	5.3	6.4	4.8	2.5	0.8	0.9	0.3
1.0	2.0	3.3	2.3	4.5	6.1	6.3	4.8	3.7	0.8	0.8	0.1
0.8	2.6	3.6	1.6	5.4	6.3	5.4	4.3	2.6	1.8	0.3	0.5

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

1.1	2.7	2.0	3.1	5.2	6.8	5.5	4.1	2.4	0.9	0.0	0.7
1.0	2.3	3.3	0.8	4.3	6.0	5.4	4.9	1.1	0.6	0.0	0.7
0.4	1.8	4.2	1.2	4.2	5.8	5.0	4.8	2.5	1.1	0.5	0.6
1.7	1.8	4.9	2.4	4.1	6.1	3.9	3.8	2.0	1.7	0.8	0.5
1.5	1.6	5.2	1.8	5.2	5.2	3.9	3.3	0.9	2.3	1.0	0.7
1.4	1.9	4.7	1.9	4.5	4.3	5.6	4.6	3.0	1.1	1.1	0.5
1.4	-77.0	1.8	3.1	5.2	4.5	5.5	5.3	3.1	1.1	0.2	0.3
1.0	-77.0	1.6	-77.0	5.1	-77.0	5.2	5.8	-77.0	0.5	-77.0	0.1
Jan_2013	Fev_2013	Mar_2013	Abr_2013	Mai_2013	Jun_2013	Jul_2013	Ago_2013	Set_2013	Out_2013	Nov_2013	Dez_2013
0.5	0.6	1.8	2.6	2.8	5.8	5.5	5.5	5.4	0.3	0.6	1.2
0.6	1.6	1.8	2.8	4.1	6.3	4.5	5.1	5.3	0.9	0.7	0.9
0.9	1.5	0.8	1.5	4.3	6.5	6.0	5.3	5.1	2.3	1.3	1.1
1.0	1.3	0.5	1.1	5.1	5.6	7.1	5.7	4.6	1.8	0.6	1.0
0.8	1.5	1.1	3.1	5.0	4.7	7.2	4.6	4.0	2.2	0.6	0.6
0.5	1.6	1.0	3.6	2.5	2.2	7.2	4.6	4.0	2.8	0.5	0.8
0.1	1.8	1.4	2.1	2.5	2.4	7.2	4.7	3.9	2.8	0.6	0.8
0.5	1.8	0.8	2.3	2.1	1.3	6.9	5.9	4.4	2.7	1.2	0.6
0.1	1.4	1.7	1.3	2.0	0.8	7.2	6.8	5.0	2.9	1.0	0.8
0.4	0.4	1.4	0.8	4.6	1.1	6.2	7.0	4.2	2.9	1.2	1.0
0.2	1.2	1.4	1.9	4.9	2.6	3.6	6.2	4.4	2.4	1.3	1.0
0.5	0.7	1.6	2.4	5.0	5.2	1.6	5.1	5.1	0.7	1.3	0.8
0.6	1.5	2.4	3.6	5.5	5.3	1.7	5.4	5.0	1.3	1.4	0.1
0.8	1.4	2.5	3.9	4.3	5.6	3.5	5.9	4.5	1.0	1.7	0.7
0.5	1.3	2.3	2.7	4.2	5.5	4.4	5.1	3.9	1.3	1.3	0.7
0.1	0.4	1.2	3.8	2.2	4.7	4.9	3.9	3.8	1.6	1.2	0.6
0.1	0.0	1.1	4.0	3.0	3.5	4.4	5.1	3.9	1.6	1.0	0.0
0.3	0.6	1.9	4.4	3.2	3.6	4.3	5.1	4.0	0.5	0.9	0.0
0.8	0.8	0.3	4.4	2.6	3.0	5.0	5.9	3.9	1.3	1.0	0.5
0.1	1.0	2.0	4.8	3.6	5.3	5.4	6.3	4.3	1.2	0.9	0.8
0.7	1.4	2.2	4.4	4.4	4.5	5.2	5.0	4.4	0.8	0.5	0.6
0.9	0.9	2.4	4.5	4.5	5.8	5.0	4.6	4.0	1.3	0.1	0.5
0.4	1.7	1.3	4.8	4.2	6.1	5.6	5.0	3.5	0.5	0.8	0.0
0.3	2.0	2.2	4.6	5.1	7.1	5.6	4.9	3.1	0.2	1.1	0.1
0.3	1.8	0.5	4.6	5.1	7.5	3.8	5.2	0.9	0.4	1.1	0.6
0.8	1.9	0.7	3.8	4.4	6.8	4.3	4.7	2.3	1.4	1.1	0.4
0.2	1.0	1.3	4.4	4.1	6.7	4.0	5.1	0.9	1.6	1.2	0.2
0.8	1.6	1.1	4.3	4.8	6.6	3.8	4.8	1.3	0.2	1.4	0.8
1.0	-77.0	0.8	2.5	2.4	6.9	5.1	4.2	0.6	1.9	1.2	0.5
0.9	-77.0	3.0	2.2	4.8	7.5	6.0	5.1	0.2	2.0	0.8	0.3
1.1	-77.0	0.1	-77.0	5.4	-77.0	5.7	5.6	-77.0	1.9	-77.0	0.2
Jan_2014	Fev_2014	Mar_2014	Abr_2014	Mai_2014	Jun_2014	Jul_2014	Ago_2014	Set_2014	Out_2014	Nov_2014	Dez_2014
0.0	1.0	0.1	0.2	4.7	5.7	3.9	4.0	5.1	3.2	0.8	1.1
-0.1	2.3	0.2	1.5	5.3	4.5	4.0	2.6	4.6	3.2	1.1	0.7
0.0	2.5	2.2	2.3	5.7	5.1	5.2	4.2	2.0	2.9	0.4	0.6

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.3	0.1	1.5	0.4	5.5	4.8	4.2	5.2	4.1	2.5	0.7	0.7
0.4	0.7	2.0	1.1	5.0	4.5	4.7	5.4	4.2	2.1	1.3	0.6
0.1	0.4	2.0	2.6	4.5	1.2	2.4	5.4	1.9	1.9	0.6	0.8
0.0	0.8	2.3	3.6	4.1	4.1	5.4	4.7	3.2	0.9	0.8	0.7
0.2	0.9	2.9	4.0	4.6	3.5	5.7	3.3	2.7	1.0	0.5	0.8
0.8	0.4	1.7	1.9	4.7	4.3	6.5	4.4	3.7	1.0	0.9	0.7
0.5	1.7	3.5	3.9	4.7	4.8	7.0	4.4	0.7	1.8	0.0	0.7
0.4	0.0	3.0	2.6	5.4	5.9	7.0	5.2	2.4	0.8	0.8	0.6
-0.1	0.0	2.7	2.3	5.4	6.6	6.2	4.4	2.7	0.3	0.9	0.0
0.7	0.8	2.4	2.9	5.6	6.4	5.6	5.4	2.4	0.1	0.2	0.0
0.3	0.5	2.6	1.3	6.1	6.8	5.7	5.5	2.7	1.5	0.5	0.5
0.1	1.1	2.7	3.3	6.0	7.4	5.6	5.6	2.0	0.8	0.6	0.8
0.7	1.5	2.9	2.1	5.4	7.2	5.9	5.8	1.6	1.6	0.6	0.4
0.1	0.4	2.6	3.7	6.0	5.3	5.3	6.0	2.1	1.2	0.4	0.6
0.2	1.1	2.8	1.6	5.1	3.1	3.5	5.1	2.1	1.1	0.5	0.9
1.0	1.6	2.5	2.2	2.8	4.7	3.4	4.5	2.6	2.2	-0.2	0.6
0.5	0.4	1.9	1.2	1.6	5.1	4.5	4.9	2.4	2.5	0.1	0.5
-0.1	1.4	0.6	3.3	2.0	4.2	5.6	4.8	2.7	2.1	0.8	0.6
0.7	0.7	2.1	2.6	2.9	2.1	5.5	4.7	0.6	2.1	0.2	0.6
1.4	1.7	2.0	2.4	3.5	2.2	5.2	4.7	2.1	2.4	0.0	0.3
1.0	1.4	1.3	2.4	4.5	3.4	4.2	5.0	2.4	1.8	0.7	0.6
0.5	1.3	1.5	3.4	4.0	3.8	3.6	4.9	3.3	2.0	0.4	0.6
0.2	1.6	2.9	1.3	4.6	5.5	4.0	3.7	2.9	1.8	0.0	0.6
1.0	0.2	1.0	4.1	3.6	5.5	4.5	5.0	1.3	1.3	0.3	0.3
0.5	1.2	1.7	4.0	2.9	3.4	4.1	4.8	2.2	0.9	0.4	0.3
1.1	-77.0	2.3	4.4	2.1	5.2	5.7	5.0	2.6	1.7	0.9	1.0
0.8	-77.0	0.9	4.4	4.6	5.5	5.8	4.5	2.7	1.9	0.3	1.2
0.9	-77.0	0.3	-77.0	5.7	-77.0	3.5	4.6	-77.0	1.5	-77.0	0.9
Jan_2015	Fev_2015	Mar_2015	Abr_2015	Mai_2015	Jun_2015	Jul_2015	Ago_2015	Set_2015	Out_2015	Nov_2015	Dez_2015
0.8	0.8	0.7	4.2	2.2	4.7	2.7	5.4	3.6	2.9	0.4	0.6
0.7	0.3	1.1	4.0	3.5	5.3	5.4	5.6	3.6	2.7	0.1	0.7
0.9	0.7	1.8	2.7	0.8	5.5	5.9	4.4	3.1	1.9	0.5	1.2
0.8	1.7	2.6	4.0	1.5	5.1	5.5	5.5	3.8	1.1	0.6	0.7
0.6	1.6	3.5	3.9	3.1	5.5	5.9	5.6	3.2	0.9	0.1	1.1
0.6	0.6	2.7	1.4	3.8	5.7	6.0	5.6	4.0	1.4	1.0	0.6
0.3	1.2	2.8	3.2	4.7	5.2	5.9	5.6	4.6	2.5	1.4	0.1
0.6	1.4	3.0	0.9	2.9	4.5	5.6	5.8	3.8	2.3	1.4	0.6
0.9	1.6	2.6	1.1	4.4	5.0	5.5	6.1	3.1	2.2	1.4	0.6
0.9	1.0	2.2	1.7	4.9	4.0	5.1	5.8	3.8	0.2	1.3	0.6
0.8	1.0	2.3	3.6	5.2	1.6	5.7	4.2	3.5	0.8	1.2	0.5
0.8	1.1	1.9	3.6	4.7	3.0	5.2	3.3	3.0	0.7	1.0	0.9
0.5	0.6	3.0	4.3	4.1	2.7	5.1	4.3	1.3	1.8	0.9	0.1
0.3	0.4	3.0	2.8	4.6	1.9	5.3	4.4	3.0	2.3	1.2	0.0
0.1	0.5	2.6	1.5	5.6	4.0	5.1	4.1	0.6	2.1	1.2	1.1

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.5	1.2	2.6	2.2	5.9	5.2	5.9	2.7	2.3	1.5	1.2	0.9
0.3	2.9	0.2	3.1	6.6	6.4	3.6	4.4	3.0	1.0	1.2	0.9
0.1	2.1	1.3	2.3	4.9	6.9	5.1	4.7	3.4	0.9	1.3	0.7
1.8	1.9	2.2	3.2	5.1	6.9	4.9	5.1	4.0	1.1	1.2	0.8
0.4	0.9	2.8	3.8	5.1	7.1	5.5	5.5	4.0	2.1	1.2	0.5
0.4	1.9	1.9	3.1	5.8	5.6	5.3	4.7	3.6	2.3	1.7	0.5
0.3	1.4	1.2	3.7	6.2	4.5	6.2	3.5	3.4	2.0	0.7	0.1
0.5	0.6	2.3	3.9	6.1	3.6	5.9	3.0	3.3	0.9	1.4	0.1
1.0	1.1	2.8	0.9	5.7	5.3	4.1	3.4	3.3	0.1	1.0	0.0
1.1	1.1	3.6	1.4	5.6	5.6	5.7	4.7	3.1	0.7	1.1	0.8
1.2	1.0	1.2	2.2	6.4	6.0	6.0	4.1	2.8	0.9	1.5	0.9
1.2	2.4	2.9	3.1	6.6	6.7	6.3	3.4	3.0	1.0	1.3	1.1
1.2	0.8	3.2	3.6	6.2	6.9	6.1	4.6	3.2	1.2	1.3	0.1
0.2	-77.0	2.8	2.7	5.5	6.1	5.2	4.5	2.2	0.9	1.4	0.5
0.0	-77.0	3.5	4.0	5.3	4.8	4.0	4.3	2.6	0.7	1.3	0.2
1.0	-77.0	3.6	-77.0	5.2	-77.0	3.5	2.4	-77.0	1.2	-77.0	0.3
Jan_2016	Fev_2016	Mar_2016	Abr_2016	Mai_2016	Jun_2016	Jul_2016	Ago_2016	Set_2016	Out_2016	Nov_2016	Dez_2016
0.1	1.5	2.3	3.2	5.1	5.3	4.8	5.3	4.6	3.5	2.1	0.2
0.5	1.4	1.7	1.7	5.4	4.7	5.9	5.5	4.8	3.1	1.7	0.5
0.0	1.7	2.7	1.3	5.9	4.8	6.1	5.5	5.0	3.1	1.7	0.0
0.2	2.0	0.8	1.1	4.5	4.6	4.6	4.1	5.3	3.1	0.7	0.8
0.5	1.5	1.5	3.3	0.4	5.0	5.4	5.8	5.7	3.3	0.5	1.5
0.1	0.6	1.8	3.7	0.6	4.5	5.1	6.5	5.7	3.1	1.6	1.3
0.2	1.2	2.1	3.7	0.3	5.6	3.5	7.3	4.3	2.8	1.7	0.7
0.1	0.8	2.7	3.4	2.4	5.9	6.1	6.7	4.7	3.1	1.5	1.1
0.3	0.3	0.8	1.6	1.8	5.1	6.4	5.5	4.6	2.8	0.7	1.5
0.4	0.1	3.0	2.3	2.5	4.6	6.0	6.0	4.4	2.1	1.4	0.6
1.1	0.8	2.9	2.5	1.2	5.5	6.0	6.6	4.2	1.6	0.6	1.1
0.7	0.1	2.8	2.4	2.0	5.5	6.1	6.7	4.0	0.9	0.8	1.1
1.0	0.1	2.9	2.8	2.4	3.0	6.4	6.7	3.5	1.7	1.6	0.3
0.1	1.4	2.5	0.8	2.2	4.0	6.7	5.3	3.5	2.6	2.0	0.9
1.3	2.1	0.6	1.3	4.1	3.4	7.3	4.8	2.3	1.7	2.3	0.2
1.2	2.1	1.8	2.7	4.0	3.4	6.9	4.5	3.9	1.2	1.8	0.7
0.4	0.6	2.2	2.8	4.2	4.3	6.6	3.9	4.2	1.2	1.4	1.2
0.8	1.9	0.7	2.6	4.3	5.6	6.0	5.1	4.5	2.4	0.3	1.8
0.5	2.2	1.1	2.2	4.8	6.1	5.5	2.3	4.3	2.2	0.9	1.2
0.6	2.4	1.4	2.1	5.0	6.0	5.6	5.4	3.5	1.4	0.0	1.0
0.0	2.3	1.5	2.0	2.7	6.1	5.8	5.4	3.6	0.5	1.0	0.9
0.0	2.0	2.5	2.8	4.9	5.5	5.4	5.7	3.0	1.0	0.8	0.9
0.9	1.1	2.5	3.2	4.0	4.6	6.5	5.3	3.7	1.3	1.3	0.9
1.1	0.8	3.2	4.0	2.3	4.4	6.9	4.5	3.3	1.2	0.8	1.0
0.0	1.1	2.2	4.5	3.3	5.2	6.7	4.4	3.3	1.2	0.5	1.2
1.0	0.4	0.6	3.9	4.2	5.9	5.8	4.8	3.7	2.4	0.5	1.1
0.6	1.1	2.7	3.0	2.8	6.3	5.0	4.7	4.3	2.1	0.9	1.1

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.7	2.4	1.2	4.1	2.9	6.0	5.7	5.1	4.7	2.6	1.1	1.3
1.3	2.6	2.3	3.5	2.6	5.6	5.7	4.8	4.5	2.3	0.8	1.3
1.0	-77.0	2.0	4.6	3.9	5.1	3.7	4.4	3.6	2.5	0.7	1.2
0.7	-77.0	3.0	-77.0	5.2	-77.0	5.0	4.1	-77.0	2.4	-77.0	1.1
Jan_2017	Fev_2017	Mar_2017	Abr_2017	Mai_2017	Jun_2017	Jul_2017	Ago_2017	Set_2017	Out_2017	Nov_2017	Dez_2017
0.4	1.0	0.6	3.0	4.2	5.0	6.3	5.4	5.2	3.7	1.2	1.1
0.4	0.9	1.4	3.6	5.0	5.3	7.1	5.7	5.6	4.3	0.5	1.2
0.0	0.6	0.8	3.9	5.4	5.0	7.8	6.1	5.0	3.8	0.6	1.3
0.1	0.5	1.7	4.1	3.9	5.4	6.3	6.1	3.5	3.2	1.1	1.4
0.3	2.0	0.6	4.5	3.0	5.3	3.0	5.3	4.4	3.1	2.3	1.3
1.1	1.5	0.6	4.8	3.5	4.9	3.7	5.6	4.6	4.0	2.0	1.1
1.3	1.2	2.6	4.5	5.2	6.4	4.3	4.5	5.2	3.9	1.9	1.0
1.2	1.9	2.9	4.3	5.1	5.1	2.0	5.5	4.4	3.6	2.2	0.0
1.2	1.1	3.6	4.5	2.8	5.4	4.7	5.6	3.7	2.8	2.2	0.3
0.7	0.4	3.5	4.6	1.2	6.0	5.3	6.0	4.5	2.7	1.8	0.4
1.3	0.7	2.3	4.7	2.3	5.9	6.1	6.7	4.4	3.2	1.6	0.9
0.1	0.8	2.9	4.4	2.9	5.8	6.3	6.7	4.5	3.7	1.6	1.1
1.6	1.4	3.7	3.6	2.6	6.0	6.0	5.5	4.3	1.8	1.8	0.2
1.5	1.0	2.2	4.0	2.5	5.7	6.0	4.9	4.1	2.4	1.9	0.2
1.3	1.5	3.9	3.9	4.2	5.6	6.0	5.0	4.4	5.0	1.7	0.4
1.3	2.4	3.2	4.2	4.7	6.2	6.0	5.4	4.2	2.0	1.6	1.2
1.3	2.1	3.1	4.0	4.6	7.2	5.5	5.6	3.7	2.2	1.6	1.1
1.9	1.1	3.8	2.8	5.1	6.8	3.8	5.6	3.0	1.6	1.6	1.2
1.3	2.1	2.8	5.1	5.2	6.5	3.6	5.7	3.5	0.6	1.8	1.2
1.1	2.6	2.7	4.6	5.9	6.8	4.9	6.1	3.6	0.4	1.9	1.2
1.3	2.6	2.3	5.1	5.4	5.0	5.7	5.4	3.0	2.4	1.7	1.2
1.1	2.5	1.7	4.4	5.1	5.4	5.5	4.9	3.4	2.5	0.9	1.0
1.5	1.6	1.4	4.4	6.0	6.0	5.8	4.9	3.3	2.4	1.0	1.0
1.3	2.1	1.4	4.0	5.9	3.7	5.5	4.7	3.7	2.6	0.7	0.7
0.8	1.6	1.8	2.7	5.5	2.8	6.1	4.8	3.6	2.4	0.2	0.3
0.0	1.3	0.2	3.1	2.5	3.4	6.2	4.9	3.9	2.5	1.4	0.3
0.8	0.9	1.5	4.8	2.7	4.2	5.7	3.4	3.7	3.6	1.2	0.6
0.6	0.9	2.6	5.2	2.4	4.2	5.9	1.9	3.6	3.3	0.0	0.1
0.3	-77.0	3.5	3.5	2.9	4.2	5.2	3.1	3.7	3.2	1.3	0.3
0.4	-77.0	3.0	2.9	5.1	4.8	5.5	3.3	3.3	2.9	1.4	0.4
0.1	-77.0	3.4	-77.0	5.0	-77.0	2.9	4.6	-77.0	2.5	-77.0	0.5
Jan_2018	Fev_2018	Mar_2018	Abr_2018	Mai_2018	Jun_2018	Jul_2018	Ago_2018	Set_2018	Out_2018	Nov_2018	Dez_2018
0.4	1.6	1.0	2.8	3.7	3.7	3.0	5.6	5.1	3.7	1.2	0.5
0.4	2.0	0.8	1.3	1.4	3.9	1.8	5.9	4.1	4.8	0.7	0.3
0.1	0.8	0.4	1.9	3.6	2.5	3.3	6.0	2.5	4.7	0.6	0.1
0.3	1.5	0.7	2.5	4.7	2.0	3.9	6.6	1.9	4.0	0.3	1.1
0.0	1.8	1.4	3.0	4.8	2.7	4.5	6.3	2.6	3.8	1.1	1.0
1.1	2.0	1.4	0.4	4.8	2.9	5.0	4.9	2.6	3.6	0.6	1.0
1.0	1.9	0.9	1.5	3.8	0.9	4.9	4.8	3.1	3.4	1.4	0.4

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

1.1	1.7	0.5	1.3	3.1	2.6	5.0	4.7	3.4	3.9	0.7	0.9
-0.1	0.4	0.2	1.4	2.0	2.5	3.8	5.1	4.0	3.8	0.8	0.9
0.5	1.9	1.9	1.1	4.5	1.2	2.8	5.3	4.6	2.2	0.3	1.2
0.8	0.3	1.9	2.3	4.1	3.6	4.2	5.1	5.1	2.3	-0.1	0.1
0.5	1.9	2.1	1.2	3.9	2.8	3.4	4.7	4.8	2.4	1.2	0.4
0.8	1.0	1.8	1.8	3.9	4.7	4.1	4.8	4.7	3.0	1.5	0.8
0.7	0.8	0.3	2.8	3.5	5.0	3.7	4.9	4.0	2.3	1.6	0.6
1.0	0.5	1.6	1.0	5.2	3.8	3.5	5.0	4.0	0.8	1.3	0.2
0.1	1.5	1.8	2.9	5.6	5.3	4.7	4.3	4.0	1.6	1.4	0.8
1.3	1.1	0.7	3.8	5.2	5.8	5.0	4.3	4.0	1.4	0.5	0.5
1.3	2.4	1.9	4.5	3.1	6.8	3.7	5.4	3.8	1.6	0.1	0.0
1.4	1.7	1.5	3.7	4.6	6.1	4.0	6.2	4.1	1.9	0.6	0.5
0.9	2.2	2.7	3.4	3.7	4.7	4.6	5.8	3.7	2.5	0.6	0.5
0.5	2.5	3.1	0.9	3.9	3.4	5.2	5.4	4.0	1.7	1.0	0.5
1.3	2.5	2.7	2.2	2.6	4.2	5.0	5.1	3.9	2.0	0.5	0.8
1.0	2.4	0.6	4.0	3.9	5.5	4.7	4.7	4.3	1.9	0.7	0.8
0.5	2.4	2.2	4.3	0.4	4.5	3.6	5.1	4.5	2.4	0.5	0.5
0.6	2.3	2.8	3.9	3.3	3.0	1.6	4.8	4.6	1.9	0.2	0.8
1.3	1.3	3.2	4.0	2.9	4.8	5.0	4.8	4.2	1.5	1.3	0.7
1.6	0.5	3.4	2.6	3.4	4.6	4.7	2.1	4.3	2.6	1.0	0.0
2.0	0.5	1.9	1.8	3.3	3.7	4.5	1.1	4.0	2.4	0.9	1.0
2.4	-77.0	2.0	2.5	1.5	2.6	5.0	4.2	3.4	1.8	-0.1	1.1
2.1	-77.0	1.7	2.4	2.0	2.6	4.5	4.1	3.2	0.7	0.6	1.3
1.8	-77.0	2.9	-77.0	3.1	-77.0	4.7	4.7	-77.0	0.0	-77.0	1.1
Jan_2019	Fev_2019	Mar_2019	Abr_2019	Mai_2019	Jun_2019	Jul_2019	Ago_2019	Set_2019	Out_2019	Nov_2019	Dez_2019
1.0	1.2	2.1	2.2	4.2	6.6	5.1	5.3	4.6	2.9	0.6	0.5
0.7	1.6	2.7	2.9	4.8	6.3	2.4	5.0	4.9	3.2	0.9	1.6
0.9	1.6	1.9	3.2	5.0	5.1	4.8	5.3	5.2	3.1	1.3	1.3
0.8	1.4	1.4	2.3	5.3	3.1	3.4	5.1	5.3	2.7	0.8	0.8
0.8	1.6	0.6	1.9	4.3	4.3	4.7	5.4	5.6	3.2	1.3	1.1
0.8	1.5	1.5	2.1	2.9	2.0	4.0	3.9	6.2	3.3	0.6	1.0
1.1	1.3	0.8	0.7	1.1	4.3	3.8	2.6	5.6	3.5	1.6	0.9
1.2	0.7	2.5	2.0	2.0	4.9	3.9	2.8	5.0	3.3	1.5	0.0
1.1	1.1	2.6	2.4	0.7	4.9	5.2	3.3	3.7	3.6	0.4	1.0
1.3	0.4	2.7	3.0	3.4	5.1	6.1	4.4	4.5	3.3	0.7	0.8
1.4	1.8	3.0	3.2	5.1	5.3	6.8	4.5	5.0	2.4	0.8	1.0
1.2	2.2	2.5	3.6	6.7	5.5	3.0	5.3	5.8	2.2	1.0	0.1
1.1	2.1	3.3	1.3	6.9	5.0	3.7	5.4	5.3	2.2	0.8	0.4
1.0	2.3	3.1	1.5	6.0	2.8	4.3	5.6	4.6	1.5	0.9	0.5
0.5	1.8	3.2	2.2	5.2	4.2	4.7	5.8	3.7	1.8	1.4	0.1
0.0	2.3	3.1	3.2	3.4	4.9	2.6	5.3	3.6	1.6	1.5	0.0
1.2	1.5	1.8	0.4	3.6	4.2	3.7	5.2	3.5	0.7	0.3	0.9
0.4	0.2	3.3	2.1	3.6	2.8	5.6	3.3	3.4	1.2	1.4	0.1
0.0	1.8	3.3	1.7	4.3	2.8	5.1	4.3	2.7	0.8	0.1	0.1



Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

1.7	1.6	3.7	4.2	4.4	3.3	5.5	5.4	1.8	1.9	0.5	0.1
1.5	1.8	3.3	4.6	3.8	5.3	5.6	5.6	1.1	1.8	0.6	0.6
0.6	2.1	3.5	2.7	4.8	5.3	4.8	5.9	2.4	2.4	0.7	0.5
1.0	2.1	3.8	1.8	4.3	1.6	5.0	5.6	3.1	1.4	1.1	0.0
1.3	2.4	3.8	1.4	5.4	1.6	5.5	5.2	1.4	1.8	0.5	1.1
1.5	2.5	4.0	3.0	6.0	3.5	3.5	3.3	3.2	2.5	0.7	0.9
1.5	2.3	4.5	3.4	6.0	2.7	4.9	3.4	3.6	2.3	0.1	0.7
1.4	1.6	4.7	4.4	5.0	4.8	2.9	4.3	3.6	1.3	0.6	1.2
0.8	1.9	3.8	4.4	6.0	5.4	5.1	4.3	3.3	0.2	0.5	1.4
0.5	-77.0	3.6	4.6	7.0	5.2	5.0	4.7	3.2	0.9	0.2	1.4
0.2	-77.0	3.2	4.1	7.4	5.0	5.8	4.7	3.1	0.1	0.1	1.0
0.4	-77.0	2.9	-77.0	6.5	-77.0	5.0	4.4	-77.0	0.4	-77.0	0.6
Jan_2020	Fev_2020	Mar_2020	Abr_2020	Mai_2020	Jun_2020	Jul_2020	Ago_2020	Set_2020	Out_2020	Nov_2020	Dez_2020
0.8	0.3	0.5	0.5	2.6	3.0	5.0	5.4	5.0	2.1	0.7	1.3
0.2	1.5	2.0	3.0	3.9	3.6	5.6	5.2	5.1	1.9	0.4	1.2
0.8	1.7	0.9	3.3	5.2	4.3	5.7	4.7	5.5	2.2	2.2	1.2
0.9	1.1	1.4	1.4	2.8	4.1	6.1	5.6	5.3	2.2	1.2	0.4
1.0	1.9	1.8	0.6	3.2	5.0	6.4	5.7	4.9	1.9	0.7	0.8
0.8	1.5	2.5	0.3	3.7	3.9	6.2	5.5	5.1	2.7	0.1	0.2
0.9	1.0	2.7	2.2	4.4	3.6	5.5	5.1	5.3	3.0	0.9	0.6
0.9	0.5	1.6	1.2	2.0	5.0	5.3	5.1	5.9	2.6	0.6	0.8
0.3	1.0	2.6	0.9	1.9	5.2	4.8	4.9	4.8	2.8	0.9	0.1
1.3	0.6	2.8	2.4	2.5	4.8	5.6	3.9	4.6	3.1	1.1	0.1
1.2	1.1	3.0	2.9	2.4	2.3	5.6	2.8	4.5	3.6	1.0	0.1
1.0	0.1	2.5	2.9	2.4	2.9	6.0	3.4	4.2	3.6	1.3	0.3
0.5	0.7	2.2	1.4	0.6	2.9	6.6	5.1	4.0	2.4	0.6	0.1
0.3	1.5	2.7	1.9	1.5	3.6	6.2	5.0	3.6	2.9	0.4	0.2
0.5	1.5	2.2	2.0	2.9	4.1	6.5	4.2	3.4	2.8	0.5	0.7
0.6	0.4	2.8	1.6	4.3	4.1	7.5	4.0	2.8	2.5	1.1	0.5
0.7	1.3	3.1	2.7	5.1	4.5	7.2	3.4	2.3	2.1	0.5	0.9
0.7	2.3	3.7	3.1	5.1	5.2	6.5	3.9	1.2	2.4	0.8	0.5
2.3	2.1	2.4	3.0	5.0	5.5	4.9	5.0	1.9	0.5	1.8	0.4
2.5	1.9	0.0	1.1	4.5	5.5	5.0	1.7	2.3	-0.1	1.7	0.4
1.8	2.4	1.7	2.2	4.6	5.5	5.3	3.8	3.0	1.3	1.9	0.1
0.5	2.6	2.1	2.5	4.9	6.0	5.7	5.2	1.9	1.4	1.5	0.8
0.3	2.8	2.5	2.9	5.5	5.3	5.4	5.2	1.8	1.5	1.2	0.1
0.3	2.6	2.8	3.3	5.2	4.4	5.8	5.1	1.8	0.9	1.0	1.0
1.0	1.1	3.0	2.5	5.2	4.3	5.9	5.3	3.1	0.5	0.1	1.2
0.3	2.1	2.6	1.2	5.7	4.7	5.2	5.0	3.5	1.7	0.9	1.4
0.1	2.1	3.0	2.4	6.2	4.0	5.4	4.6	3.3	0.8	0.9	0.7
0.5	2.1	3.3	2.3	6.2	5.7	5.3	4.8	2.9	1.3	0.1	0.7
0.4	1.3	2.5	2.0	5.9	5.6	5.1	4.9	3.3	1.8	0.4	0.6
0.1	-77.0	0.6	2.9	4.5	5.3	5.2	4.9	3.0	2.0	0.5	0.6
0.1	-77.0	0.7	-77.0	4.6	-77.0	5.6	5.3	-77.0	1.6	-77.0	0.4

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

## ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

### 2.2.5 SORRAIA

Tabela 18. Evapotranspiração de referência diária na região de cálculo de Sorraia (mm)

Jan_2003	Fev_2003	Mar_2003	Abr_2003	Mai_2003	Jun_2003	Jul_2003	Ago_2003	Set_2003	Out_2003	Nov_2003	Dez_2003
0.0	1.5	0.2	2.5	3.9	4.3	4.6	6.2	3.5	1.2	1.7	0.6
0.1	1.1	0.9	2.5	4.2	4.8	4.1	4.8	3.7	2.5	0.8	1.1
0.8	1.3	1.4	4.3	4.7	2.6	5.0	5.2	3.4	1.9	0.7	0.6
0.6	0.7	1.8	4.1	3.4	4.0	5.5	5.5	3.5	3.3	0.6	1.0
0.3	1.3	1.7	3.8	3.3	5.5	5.3	5.4	4.0	3.4	0.9	0.1
0.8	1.4	2.4	3.9	5.0	5.9	5.4	6.3	4.3	3.6	2.0	0.4
0.6	0.6	1.3	4.0	4.4	5.8	5.6	6.0	4.3	3.6	0.9	0.7
0.6	1.5	2.2	3.8	4.6	6.2	5.8	5.5	2.9	3.2	1.1	0.1
0.9	1.2	2.4	2.6	4.6	5.7	5.9	4.9	4.6	3.3	0.0	0.5
1.6	0.8	2.7	1.2	5.0	5.5	5.8	4.9	4.9	2.7	0.9	1.1
1.2	0.3	2.8	2.1	4.7	5.8	4.4	5.5	5.5	0.2	0.9	0.7
1.2	0.6	1.4	1.4	5.1	6.7	3.7	5.5	5.9	1.7	0.5	0.7
1.1	1.6	2.7	1.2	5.2	5.6	1.8	5.5	5.4	1.8	0.5	1.0
1.0	1.5	2.5	0.9	5.4	5.7	3.1	5.5	5.1	1.8	0.2	0.8
0.9	2.0	2.6	2.0	5.4	3.7	4.5	4.2	4.4	0.8	0.5	0.6
0.8	1.8	1.8	3.1	4.5	3.4	4.8	4.2	4.2	1.4	2.5	0.4
0.2	1.2	0.7	2.8	4.9	5.3	5.7	3.8	4.6	2.0	2.2	0.3
0.1	0.2	2.4	1.7	4.7	6.4	5.6	5.1	4.5	0.4	1.9	0.8
0.8	0.5	2.1	3.0	5.1	7.7	5.6	5.1	4.0	1.7	1.4	0.4
0.6	1.3	3.3	2.5	6.0	6.7	5.6	5.0	3.2	1.4	1.1	0.2
1.2	0.5	3.1	3.4	6.5	6.1	5.1	4.2	3.0	1.7	0.4	0.5
0.8	1.2	2.3	2.2	7.0	4.0	5.6	4.6	2.8	2.3	0.4	1.1
1.4	1.0	1.5	2.2	6.7	4.9	5.6	4.4	4.0	2.4	0.5	1.1
1.4	0.4	1.0	2.2	5.8	4.6	5.5	4.1	3.4	1.6	0.6	1.1
1.5	0.8	1.7	0.9	5.7	5.5	5.4	4.7	3.4	0.2	1.4	0.6
1.5	0.8	0.8	3.9	6.0	5.6	5.2	4.8	3.5	1.6	0.4	0.4
1.8	1.2	1.1	3.1	6.5	5.8	5.2	1.9	2.7	0.6	1.0	0.2
1.7	1.4	1.7	1.8	6.2	5.1	5.9	2.2	3.0	1.5	0.5	1.0
2.0	-77.0	0.7	1.9	4.4	2.0	6.1	3.7	1.8	1.8	0.5	0.6
2.0	-77.0	2.0	3.7	1.2	4.4	6.0	3.3	0.3	0.9	0.4	0.9
2.2	-77.0	2.8	-77.0	5.0	-77.0	6.0	2.8	-77.0	1.2	-77.0	0.2
Jan_2004	Fev_2004	Mar_2004	Abr_2004	Mai_2004	Jun_2004	Jul_2004	Ago_2004	Set_2004	Out_2004	Nov_2004	Dez_2004
0.1	0.4	0.9	2.3	3.9	6.1	6.7	5.7	3.3	3.3	1.9	0.7
1.4	1.0	2.4	2.1	3.5	5.9	7.2	5.2	1.0	3.4	0.8	0.4
1.3	1.6	2.2	2.8	3.6	5.9	7.2	3.9	3.1	3.6	0.6	1.2
0.9	1.4	2.5	3.7	4.2	5.6	6.5	5.7	3.1	3.6	1.3	1.1
0.9	1.6	1.7	3.8	1.5	4.8	6.0	5.6	2.8	3.2	1.7	1.3
0.7	1.5	1.1	4.1	3.5	5.2	5.7	5.9	3.4	2.8	2.2	1.2
0.3	0.5	1.8	3.5	3.4	5.6	5.0	5.6	3.5	3.4	1.0	1.0

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

## ANEXO 8 – Necessidades Hídricas das Culturas

### ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.0	0.9	2.5	3.3	4.7	5.9	5.8	2.0	2.7	2.7	1.8	0.9
0.3	0.8	2.1	4.8	1.8	6.1	6.1	2.6	4.1	2.5	1.8	0.9
0.5	1.2	1.8	4.6	3.4	6.1	4.4	3.4	3.2	2.2	2.4	0.8
0.8	1.8	0.9	3.9	3.1	6.2	6.5	2.9	4.0	1.7	2.5	0.7
0.4	1.7	0.4	3.9	4.4	6.2	6.5	5.3	4.8	2.8	2.0	1.0
0.3	1.2	2.9	4.1	5.3	5.8	7.1	5.6	3.6	2.9	2.0	0.5
0.4	1.2	3.1	4.6	5.4	7.5	6.8	5.8	3.4	1.7	2.0	0.8
0.0	1.5	3.1	4.2	5.5	7.9	6.0	5.3	4.6	1.8	1.6	1.1
1.0	1.4	3.0	2.5	6.0	6.7	5.5	3.2	4.8	1.5	1.4	0.9
0.3	0.8	2.4	3.2	5.7	7.1	5.9	4.4	4.7	1.1	1.2	1.1
1.6	1.4	2.8	1.6	6.0	6.2	6.0	3.8	4.4	0.5	1.2	1.2
1.7	2.5	3.4	2.4	6.2	5.1	5.4	4.5	4.3	0.6	0.8	0.6
1.4	1.9	3.3	2.2	4.8	5.7	5.8	4.4	3.7	1.9	1.3	1.6
1.0	2.2	3.0	0.8	2.2	4.9	5.6	4.7	4.0	1.8	0.9	1.3
0.9	1.0	4.2	3.5	4.5	4.4	5.1	3.9	3.9	2.4	1.2	1.8
0.6	0.2	3.6	4.6	3.8	3.8	5.3	5.1	4.1	2.3	1.2	1.4
1.3	1.5	1.8	5.0	2.4	4.0	5.7	5.6	3.4	0.5	1.2	1.1
0.6	0.6	4.1	5.1	3.4	6.3	7.3	5.6	3.7	0.7	1.1	1.0
0.6	2.2	2.4	5.1	4.8	6.7	7.2	5.3	4.3	1.3	1.1	1.5
0.7	1.5	1.2	5.0	5.3	7.0	6.4	5.0	4.3	1.5	0.5	1.6
1.6	1.4	1.9	3.7	4.7	7.0	5.8	5.2	3.9	1.1	0.3	0.6
0.6	1.8	2.4	4.7	4.7	6.7	5.9	5.1	4.2	1.0	0.3	1.6
0.4	-77.0	1.7	3.1	5.3	6.8	5.7	4.9	3.5	1.4	0.7	1.2
0.1	-77.0	2.4	-77.0	6.2	-77.0	5.9	4.6	-77.0	1.1	-77.0	1.1
<b>Jan_2005</b>	<b>Fev_2005</b>	<b>Mar_2005</b>	<b>Abr_2005</b>	<b>Mai_2005</b>	<b>Jun_2005</b>	<b>Jul_2005</b>	<b>Ago_2005</b>	<b>Set_2005</b>	<b>Out_2005</b>	<b>Nov_2005</b>	<b>Dez_2005</b>
0.3	1.6	2.7	3.1	3.2	6.9	6.6	6.1	5.2	4.7	1.2	0.7
1.0	1.7	2.1	0.9	3.8	6.2	6.7	6.7	5.2	4.4	1.3	1.0
1.1	1.6	1.8	2.0	3.7	6.2	6.2	7.2	4.9	4.9	0.3	0.6
0.9	1.5	3.9	2.1	4.9	6.4	6.5	7.6	5.1	4.5	2.0	0.4
1.0	0.6	2.8	3.0	6.0	6.9	7.0	5.8	4.7	3.9	2.1	0.8
0.9	1.0	2.7	3.0	6.9	7.1	6.8	5.8	2.9	3.7	1.8	1.3
1.0	1.1	3.0	3.8	5.1	7.2	6.3	5.4	3.7	3.4	1.8	1.3
0.9	1.6	2.8	4.3	4.5	5.7	6.4	5.0	4.4	2.8	1.2	1.0
0.9	1.9	2.6	5.0	4.1	6.4	6.5	2.7	1.9	0.3	2.1	1.3
0.8	2.1	1.7	4.6	3.8	5.5	6.4	3.8	3.5	1.2	2.1	2.1
1.0	2.0	2.6	4.4	2.2	5.5	6.2	5.0	3.3	1.6	1.7	1.3
1.1	1.7	1.3	4.4	3.3	2.8	6.4	5.8	4.5	1.5	0.6	1.3
0.4	1.8	2.0	3.9	4.2	3.8	6.0	6.2	5.1	2.8	1.1	1.1
0.9	3.1	1.9	2.5	4.5	4.6	5.9	6.2	5.2	2.3	1.6	1.2
0.3	2.1	2.7	3.6	4.8	6.1	6.3	5.5	4.2	1.6	1.0	1.1
1.3	2.9	2.5	3.7	3.3	6.9	6.0	5.4	3.8	1.8	1.0	1.0
1.4	2.6	3.7	1.4	5.3	6.7	5.1	4.9	4.8	0.5	0.3	0.9
1.1	2.3	3.4	3.8	5.4	5.9	6.2	5.8	5.8	2.1	0.8	0.9
2.1	2.3	2.0	3.0	5.5	5.6	6.6	4.0	4.5	2.2	0.7	1.1

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

1.6	2.0	1.8	2.8	5.4	5.8	7.0	5.7	4.3	1.4	0.4	1.1
1.5	2.4	0.5	3.9	4.2	6.2	6.2	6.5	4.2	0.7	0.7	1.3
1.3	1.3	3.2	2.9	4.7	6.5	5.7	6.1	3.8	1.4	0.7	1.5
1.1	2.2	1.7	1.8	5.8	4.6	6.0	5.2	3.9	1.7	1.7	0.7
1.0	1.9	2.7	3.3	6.2	2.2	3.1	5.4	4.2	2.2	1.8	0.7
1.7	2.5	2.1	3.8	6.0	5.4	4.5	5.1	3.7	1.8	0.9	0.0
1.5	1.3	2.9	4.6	6.0	5.0	4.0	5.1	4.0	2.7	0.9	0.4
2.3	1.2	2.5	4.9	3.0	5.0	4.0	5.1	4.1	0.5	0.7	0.8
1.6	3.4	0.9	5.0	4.3	4.9	4.8	5.2	3.7	1.3	0.7	0.5
1.3	-77.0	2.3	4.8	4.3	4.8	5.2	4.8	3.7	1.7	1.3	0.6
1.8	-77.0	3.2	4.5	4.7	5.1	6.1	4.8	4.4	0.3	1.2	0.3
1.7	-77.0	4.2	-77.0	4.3	-77.0	6.0	5.0	-77.0	1.3	-77.0	0.3
Jan_2006	Fev_2006	Mar_2006	Abr_2006	Mai_2006	Jun_2006	Jul_2006	Ago_2006	Set_2006	Out_2006	Nov_2006	Dez_2006
0.7	1.3	2.5	2.7	4.8	3.2	5.0	6.0	4.1	2.6	1.2	0.8
1.5	1.1	1.6	3.1	3.9	6.0	4.0	6.1	5.1	1.8	0.1	0.3
1.1	0.6	0.8	2.9	3.6	7.5	4.5	5.7	5.4	2.8	0.7	0.6
1.1	1.1	1.5	3.5	4.2	6.8	4.6	6.6	5.6	2.2	0.3	0.4
0.7	1.6	2.7	1.9	4.2	6.4	5.6	6.7	5.1	3.3	1.0	0.2
0.7	1.6	1.9	2.0	4.8	5.4	6.3	7.1	4.8	2.4	0.2	0.7
0.9	1.7	0.9	1.2	4.6	6.0	6.7	6.3	4.4	2.6	1.1	0.2
1.0	1.5	2.1	3.3	4.3	5.6	6.5	5.7	4.4	2.8	1.3	1.3
1.0	0.6	1.4	3.0	5.2	4.8	6.6	7.1	4.9	2.7	1.3	1.0
1.0	1.4	2.4	3.4	5.4	4.6	5.0	6.4	4.7	0.9	1.7	1.1
1.1	1.8	2.1	4.1	5.0	5.4	4.0	6.4	2.8	2.2	1.7	1.2
0.9	1.7	2.8	4.0	4.8	5.4	6.6	6.0	4.4	3.5	1.5	0.9
0.8	1.6	3.1	3.8	5.3	1.8	5.9	5.2	1.8	3.2	1.4	1.0
1.1	1.9	3.1	0.8	4.4	2.3	6.8	4.9	3.7	2.7	1.0	0.9
0.1	1.4	1.9	2.2	4.2	2.5	7.0	4.8	3.7	1.9	0.2	0.9
0.7	1.5	1.2	2.6	5.1	2.5	7.1	2.6	4.4	0.6	1.2	0.8
0.4	1.6	0.7	3.3	4.7	2.4	6.6	4.6	3.8	2.3	0.8	0.7
0.9	1.6	1.2	3.3	5.6	5.0	2.9	4.2	4.2	1.8	0.9	0.9
1.3	1.3	2.1	4.1	5.4	5.5	5.2	4.6	3.9	0.9	0.9	1.0
1.3	1.3	1.7	2.1	5.1	5.6	6.2	6.0	4.0	1.1	0.9	1.1
1.2	2.0	1.9	3.2	4.2	6.1	6.2	6.3	1.9	1.3	0.6	1.1
0.8	2.5	1.4	2.0	4.9	6.4	6.1	5.9	2.7	0.5	0.6	0.9
1.2	1.4	0.8	3.8	5.3	6.0	6.3	5.5	2.8	1.4	0.6	0.9
0.5	1.5	2.4	4.5	5.9	4.8	6.1	5.7	1.9	0.5	0.2	0.9
1.4	0.2	1.5	4.5	6.4	4.0	6.1	5.9	2.5	0.9	0.9	0.7
1.7	2.1	3.0	4.6	6.8	4.7	6.0	5.9	3.4	0.5	0.7	0.8
1.6	2.2	2.6	4.5	6.9	5.1	6.1	6.1	2.9	2.2	0.5	0.6
1.8	2.4	3.3	5.1	6.3	5.3	6.3	5.8	2.5	2.7	1.1	0.8
0.2	-77.0	1.3	5.1	5.9	5.4	6.3	6.2	1.2	1.7	1.1	0.3
1.4	-77.0	2.5	5.0	4.0	5.4	6.1	6.0	1.6	1.3	0.8	0.1
1.4	-77.0	2.4	-77.0	4.0	-77.0	6.4	5.5	-77.0	1.1	-77.0	0.7

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

Jan_2007	Fev_2007	Mar_2007	Abr_2007	Mai_2007	Jun_2007	Jul_2007	Ago_2007	Set_2007	Out_2007	Nov_2007	Dez_2007
0.7	1.1	1.6	3.2	2.5	5.5	5.5	5.2	5.6	2.6	2.4	0.4
0.8	1.4	1.6	1.4	2.0	6.6	5.9	6.1	5.2	0.8	2.3	0.5
0.8	1.1	1.5	2.4	2.7	6.2	4.0	6.5	5.1	1.5	2.3	0.4
0.7	1.1	0.7	2.9	2.7	6.5	6.8	6.2	4.5	2.3	2.3	0.4
0.7	0.9	2.0	3.8	4.9	6.5	7.4	4.8	5.5	2.2	2.3	0.2
0.7	1.0	0.8	3.5	5.6	6.0	6.7	5.0	4.7	2.5	2.2	0.6
0.3	0.4	2.9	3.1	5.1	5.3	6.3	5.8	4.3	2.9	2.2	0.9
0.3	1.3	3.0	1.7	5.6	3.9	6.2	6.2	3.2	3.2	1.9	1.0
0.4	2.1	2.7	3.2	5.8	5.4	6.8	6.3	2.5	3.4	2.1	1.1
0.2	1.2	3.4	2.5	5.0	4.1	7.0	5.9	3.1	3.6	1.9	1.3
0.8	0.6	3.6	2.2	4.2	4.6	6.8	4.6	4.0	3.5	1.5	1.1
0.9	1.6	1.7	3.1	4.3	4.9	6.7	5.3	2.8	3.0	1.7	1.0
0.8	0.5	2.8	3.9	4.7	3.6	6.3	4.6	3.7	3.1	2.0	1.0
0.5	2.2	3.2	4.0	4.3	2.2	6.1	5.1	4.0	2.6	1.6	1.1
0.4	0.7	3.2	3.9	5.5	3.3	3.3	3.6	3.4	1.6	1.7	1.0
0.3	1.0	3.3	4.7	5.5	1.2	3.1	5.6	3.1	2.7	1.7	0.9
0.8	1.7	3.3	5.5	6.5	3.7	5.7	5.9	1.4	2.8	1.1	0.8
1.0	1.7	3.3	5.0	6.4	4.1	6.1	5.7	3.6	2.8	1.5	0.5
1.2	0.6	2.4	3.0	5.2	2.3	5.6	5.9	3.2	3.0	0.3	0.6
0.9	1.9	3.6	1.6	3.2	4.3	5.9	6.2	3.6	2.9	0.2	1.0
1.2	1.8	3.9	4.7	3.6	4.8	5.9	5.9	1.9	2.6	1.0	1.4
0.9	1.6	3.6	5.1	1.3	5.9	5.6	6.2	3.3	2.4	1.3	1.1
0.9	1.2	3.4	4.9	3.3	6.1	4.3	6.2	3.4	1.4	1.2	0.7
1.2	1.7	2.8	2.3	3.3	5.2	6.0	6.3	4.2	1.5	2.0	1.0
1.4	1.0	2.1	3.1	2.2	5.3	6.0	2.1	4.0	2.5	2.0	0.8
1.8	2.4	2.5	3.9	3.7	5.9	6.0	4.7	3.6	2.2	1.5	1.3
2.0	2.2	3.0	3.1	2.4	6.0	6.6	5.2	3.9	2.6	1.5	1.0
0.4	0.3	3.1	4.0	5.1	6.0	7.0	3.8	3.6	2.6	1.2	0.9
0.4	-77.0	3.8	4.1	5.1	6.0	7.0	3.6	2.2	2.5	1.0	0.4
0.4	-77.0	3.2	3.4	4.1	5.8	7.1	4.8	0.9	2.8	1.1	0.9
1.1	-77.0	2.7	-77.0	4.0	-77.0	5.5	6.1	-77.0	2.7	-77.0	0.8
Jan_2008	Fev_2008	Mar_2008	Abr_2008	Mai_2008	Jun_2008	Jul_2008	Ago_2008	Set_2008	Out_2008	Nov_2008	Dez_2008
0.3	0.4	2.1	4.1	4.3	3.7	6.1	5.9	4.6	3.0	1.5	0.6
0.9	1.0	1.8	4.5	4.5	3.7	4.9	6.5	3.9	3.5	1.5	1.3
0.8	0.8	2.2	4.7	4.1	4.8	5.6	6.1	3.4	4.3	1.4	0.3
0.8	0.8	3.9	4.7	3.5	4.9	5.4	6.1	3.1	3.6	0.8	0.2
0.1	0.4	3.6	3.0	3.6	4.5	5.9	5.6	2.8	3.4	1.1	0.2
0.3	1.8	3.1	3.8	3.8	5.5	6.0	5.0	3.3	3.2	0.8	0.2
0.5	2.0	2.9	2.2	3.1	5.9	5.9	5.7	4.3	0.9	1.1	0.4
0.1	1.9	2.0	1.2	3.6	6.3	5.7	5.6	4.3	2.5	1.1	0.5
0.3	1.9	2.2	1.7	2.8	6.1	5.7	5.8	3.7	3.9	1.4	1.6
1.1	1.9	0.5	1.6	3.3	5.9	5.5	5.6	4.3	4.5	1.4	1.6
0.9	1.4	2.0	2.6	2.7	6.2	3.1	3.1	3.7	2.0	1.2	0.5

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

1.0	1.9	2.7	3.0	2.9	6.9	5.8	4.5	5.3	0.8	1.9	0.7
0.2	2.4	2.6	3.0	3.3	6.6	5.9	6.1	4.7	2.0	1.7	0.2
0.9	2.2	2.2	3.8	2.5	6.0	6.0	5.5	4.7	2.7	1.5	1.0
0.4	1.8	3.1	3.5	1.2	4.2	5.8	6.0	4.4	2.6	1.6	1.5
1.1	1.6	2.2	2.9	3.1	4.0	6.3	2.9	3.4	1.9	1.5	1.2
0.4	0.6	1.4	1.7	4.2	5.1	6.5	4.8	2.5	2.0	1.5	0.6
0.6	0.0	2.3	3.0	3.5	5.5	6.4	4.6	2.4	2.0	1.3	0.5
1.3	0.5	0.7	2.2	3.6	6.0	6.4	5.5	3.9	2.5	2.0	0.9
1.3	1.1	3.2	2.3	2.3	6.0	3.1	4.9	2.7	2.1	1.7	1.1
1.3	1.3	3.4	3.4	2.7	6.1	5.0	3.5	2.7	2.0	1.6	1.0
1.3	2.2	2.1	2.8	1.6	6.2	5.5	4.6	2.7	2.9	1.5	0.9
1.3	0.9	3.5	2.0	1.2	5.6	5.7	5.4	2.9	3.2	1.5	0.6
1.2	1.3	2.7	4.3	3.0	6.3	5.1	5.2	1.8	2.6	0.9	0.7
1.0	2.0	2.0	4.9	3.2	6.3	2.9	5.1	3.8	2.8	1.4	0.9
1.3	2.3	2.2	4.9	2.8	6.3	4.9	4.7	3.8	2.9	1.9	0.9
1.4	1.3	2.3	4.9	2.7	6.5	5.6	4.8	2.6	2.3	1.5	0.0
1.4	1.8	2.4	3.6	3.4	6.7	6.0	4.8	3.0	3.1	0.6	0.1
1.4	2.4	3.0	3.0	3.1	6.0	6.0	4.3	3.4	2.7	0.5	0.1
1.3	-77.0	2.5	4.1	2.7	6.5	5.7	3.8	3.6	0.8	0.7	0.9
1.5	-77.0	2.9	-77.0	3.7	-77.0	4.2	4.4	-77.0	1.0	-77.0	0.1
Jan_2009	Fev_2009	Mar_2009	Abr_2009	Mai_2009	Jun_2009	Jul_2009	Ago_2009	Set_2009	Out_2009	Nov_2009	Dez_2009
0.0	0.5	1.0	3.7	5.1	6.0	5.5	2.9	4.4	2.7	0.9	0.1
-0.1	0.9	1.4	3.6	6.1	4.9	6.2	5.6	5.0	3.2	2.0	0.5
0.4	0.3	2.3	3.6	6.3	4.8	5.4	6.0	5.3	3.2	1.1	0.9
0.7	1.2	1.6	3.7	5.8	4.7	6.1	5.8	5.1	3.1	2.1	0.5
0.1	0.9	2.5	3.6	5.9	1.5	4.3	5.5	5.2	1.9	1.5	0.4
1.2	1.4	1.6	2.2	5.9	3.5	5.6	5.7	5.1	2.2	0.6	0.5
0.9	1.3	3.0	3.4	5.2	3.6	6.2	5.3	5.1	2.5	1.5	0.6
1.1	0.6	2.4	3.8	3.4	3.6	6.2	5.3	5.1	2.4	0.6	0.7
0.9	0.6	2.9	3.3	2.0	3.9	6.2	5.5	4.6	2.0	1.8	0.1
1.0	1.5	3.1	3.3	2.1	4.7	5.9	5.4	3.9	3.3	1.2	0.4
1.1	2.0	3.2	3.0	3.2	6.2	5.9	6.7	3.7	3.5	0.9	1.0
1.0	1.9	3.5	3.7	2.9	6.4	6.2	6.3	2.8	3.8	1.3	0.7
0.6	1.9	3.5	1.3	3.4	6.0	6.1	6.1	2.9	4.1	1.3	1.1
0.4	1.4	3.5	1.5	4.6	2.6	5.4	6.1	3.9	3.4	0.8	1.6
0.2	1.6	3.3	1.8	5.2	3.8	6.1	5.3	4.4	3.3	1.1	1.0
0.7	1.9	3.5	2.9	4.5	4.6	6.1	5.7	4.3	3.9	1.0	0.2
0.7	2.0	4.4	0.9	4.7	6.5	6.3	5.8	4.0	3.4	1.1	0.7
0.2	2.0	4.1	0.9	5.2	4.0	7.0	5.7	2.3	2.7	0.7	0.2
0.5	1.4	3.5	3.8	5.4	6.5	6.2	5.8	3.1	2.4	1.0	1.4
0.7	1.7	3.3	3.9	4.9	7.0	5.5	5.6	4.2	1.6	0.9	0.9
0.9	2.1	3.2	4.5	5.2	7.0	5.4	5.9	4.2	0.6	0.4	0.5
0.1	2.4	1.8	5.0	4.5	5.6	3.1	5.9	4.4	2.2	1.0	0.6
0.4	2.3	2.5	4.9	2.7	5.7	5.4	5.4	4.5	1.1	0.9	0.7

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

1.4	2.2	3.5	4.4	3.2	5.3	5.9	4.1	4.4	1.8	1.1	0.7
1.2	2.2	4.1	3.1	2.9	4.2	6.2	5.3	4.0	1.4	0.0	0.0
1.3	2.2	4.2	4.1	6.0	5.1	6.2	5.1	3.8	1.8	0.6	1.0
0.6	2.2	3.6	3.0	7.0	5.4	6.0	5.2	3.4	1.7	0.4	0.3
0.1	0.6	4.1	3.0	7.7	2.5	5.9	5.2	3.8	2.4	0.5	0.1
0.5	-77.0	3.8	1.3	7.5	4.1	6.0	5.3	2.8	1.6	0.7	0.2
0.5	-77.0	3.9	2.0	6.8	4.6	6.2	5.5	3.4	1.1	1.2	0.9
1.4	-77.0	3.4	-77.0	6.5	-77.0	5.9	5.3	-77.0	1.7	-77.0	0.7
Jan_2010	Fev_2010	Mar_2010	Abr_2010	Mai_2010	Jun_2010	Jul_2010	Ago_2010	Set_2010	Out_2010	Nov_2010	Dez_2010
1.0	1.3	1.7	2.6	3.5	6.1	6.1	5.0	4.5	3.3	2.0	0.6
0.3	1.5	1.2	2.1	4.5	3.0	4.9	5.7	4.8	2.4	2.1	1.2
0.0	0.4	0.6	1.5	5.3	5.3	5.5	6.3	4.5	1.1	1.7	1.1
0.2	0.5	1.4	3.7	5.3	5.5	7.4	7.0	4.4	2.7	2.1	0.3
0.6	1.4	0.1	4.0	4.8	5.5	7.8	6.4	4.5	2.6	2.0	0.3
0.3	1.2	0.5	2.7	4.6	5.7	7.0	6.4	4.2	1.2	1.7	0.5
1.5	0.6	1.2	4.1	2.0	5.4	5.0	6.4	2.5	2.0	1.6	0.6
1.5	1.1	0.2	4.3	0.5	1.9	5.9	2.9	3.9	0.8	0.9	0.1
1.0	1.1	2.5	4.6	2.6	2.5	5.9	5.6	4.6	1.7	1.5	0.5
0.2	0.2	2.4	4.9	4.2	3.5	6.7	6.2	4.5	1.6	1.5	0.4
0.1	1.0	2.3	4.6	3.2	3.3	6.3	6.9	4.4	2.3	1.0	0.8
0.0	0.7	2.5	3.9	3.4	2.3	6.0	5.7	4.4	2.0	0.8	-0.1
0.1	1.7	2.7	2.0	3.8	5.0	4.6	5.9	4.5	1.9	0.9	0.5
1.1	0.7	2.9	0.8	3.0	5.7	5.6	6.3	4.2	1.8	1.2	0.3
0.1	0.1	2.9	2.5	4.2	6.5	6.0	5.9	1.4	1.1	1.2	1.5
0.3	0.2	2.5	2.1	4.9	6.2	6.0	5.2	2.8	2.2	1.1	1.5
0.3	1.0	2.5	2.3	5.7	5.8	6.4	3.3	3.6	2.7	1.5	0.7
0.3	0.2	2.2	1.7	6.2	5.0	6.3	4.4	2.8	2.7	0.8	0.4
0.7	1.9	1.4	2.1	6.4	5.3	5.9	5.2	3.9	2.7	0.4	0.5
0.9	1.4	1.7	4.0	6.8	5.5	5.8	5.2	3.5	2.3	1.4	0.1
0.6	1.0	2.6	3.2	6.4	6.2	5.9	5.1	3.4	2.1	1.2	0.4
0.4	1.5	2.6	2.7	6.0	6.2	5.8	5.0	3.1	1.3	0.9	0.3
0.6	1.3	2.5	2.7	5.4	5.7	6.3	2.4	1.7	2.4	-0.1	1.2
1.1	1.6	1.6	2.8	5.0	5.4	7.0	5.2	3.2	2.4	0.2	0.7
1.3	1.0	1.8	4.7	2.0	5.2	7.2	5.5	3.6	1.9	0.6	0.1
1.5	0.8	2.4	5.0	3.2	5.6	7.6	5.0	3.9	2.4	0.7	1.0
2.1	0.8	2.8	4.8	3.6	5.6	6.8	5.0	3.6	1.7	1.2	0.2
1.8	0.5	3.3	4.8	4.4	5.7	6.1	5.4	3.3	1.6	1.0	0.7
1.0	-77.0	1.6	4.1	4.8	6.2	6.6	5.6	3.1	0.5	0.0	1.0
0.9	-77.0	2.2	3.6	5.8	6.2	5.7	6.0	3.5	0.3	0.8	0.3
0.8	-77.0	2.1	-77.0	6.0	-77.0	4.8	4.8	-77.0	2.0	-77.0	0.6
Jan_2011	Fev_2011	Mar_2011	Abr_2011	Mai_2011	Jun_2011	Jul_2011	Ago_2011	Set_2011	Out_2011	Nov_2011	Dez_2011
0.2	1.5	2.6	4.3	2.6	6.1	3.3	1.3	2.0	4.0	0.6	0.7
0.2	1.6	2.2	1.7	3.1	6.8	5.3	3.6	2.5	3.4	0.6	1.3
0.1	1.6	2.5	2.1	3.8	5.8	3.3	5.2	3.1	2.9	1.2	1.2

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.2	1.5	1.7	3.7	3.4	5.3	5.8	5.6	4.2	3.2	0.6	0.3
0.1	1.6	1.4	4.4	4.4	5.1	5.7	5.8	4.8	3.3	1.5	0.6
0.5	1.5	1.8	4.6	3.6	2.7	6.0	4.6	4.9	3.5	1.9	0.6
1.1	1.3	1.8	4.2	4.1	4.0	5.8	5.7	5.1	3.4	1.3	0.6
0.3	1.0	0.5	4.7	3.7	4.9	5.4	6.3	4.4	3.9	0.1	0.0
0.8	1.5	1.5	3.2	5.1	2.6	4.5	6.4	4.3	3.2	0.0	0.0
0.3	1.4	2.3	4.2	5.3	4.9	6.0	6.3	2.7	3.2	0.5	0.0
0.6	1.3	1.0	4.7	5.1	5.6	5.2	5.5	3.7	2.9	0.7	0.4
0.8	1.5	1.6	4.6	5.4	5.6	4.9	5.0	4.6	2.8	1.7	0.4
0.1	0.4	1.2	4.9	5.3	4.6	6.3	5.3	4.6	2.9	2.0	0.5
0.1	0.3	0.6	4.9	5.0	5.8	6.2	5.0	4.3	2.6	0.8	0.7
0.1	1.1	2.1	4.6	6.5	5.6	6.1	5.0	3.9	2.2	1.1	0.6
0.6	1.0	2.2	4.5	5.0	5.6	5.5	3.9	3.6	1.8	1.0	0.5
0.7	2.0	2.2	4.6	3.3	5.4	6.0	5.2	3.9	2.2	1.2	0.5
0.6	0.8	3.0	2.7	1.3	6.0	5.6	4.7	4.3	2.2	0.6	0.9
0.8	0.0	3.3	2.0	4.2	6.2	5.7	4.4	4.6	2.3	0.4	0.7
1.2	1.3	3.6	1.9	5.3	6.1	6.3	3.3	4.7	2.4	0.8	0.7
2.1	1.7	3.3	2.5	5.1	6.0	6.1	3.8	4.1	2.3	0.6	0.6
2.3	1.8	2.6	1.1	5.3	6.2	6.0	2.8	3.4	1.7	0.3	0.3
2.1	2.2	3.2	2.5	5.5	6.1	5.6	4.4	3.5	1.4	0.7	0.7
1.7	2.2	2.2	4.0	5.9	6.5	6.1	5.1	2.4	1.6	1.2	1.1
1.5	2.3	1.9	4.6	4.2	6.5	6.3	4.3	3.5	1.1	1.3	1.0
1.8	2.2	1.2	4.6	1.6	6.1	6.1	5.0	3.6	0.5	1.0	0.9
0.4	2.8	1.9	4.3	5.0	5.4	6.3	5.1	3.1	1.6	1.0	0.8
0.8	2.6	1.0	3.4	2.5	5.7	5.8	4.9	2.9	2.1	0.9	0.9
0.8	-77.0	2.7	2.1	3.7	6.1	5.1	4.5	3.8	1.8	0.6	1.0
1.2	-77.0	3.1	1.1	2.8	6.2	4.9	3.6	3.2	1.8	0.6	0.9
1.7	-77.0	3.6	-77.0	4.8	-77.0	4.0	2.7	-77.0	1.0	-77.0	0.9
Jan_2012	Fev_2012	Mar_2012	Abr_2012	Mai_2012	Jun_2012	Jul_2012	Ago_2012	Set_2012	Out_2012	Nov_2012	Dez_2012
0.2	0.6	1.3	1.6	2.7	6.0	6.2	5.7	6.0	3.0	1.0	1.1
0.9	1.4	1.5	1.5	2.2	3.2	6.2	6.1	6.2	3.0	0.5	0.9
0.8	1.6	1.4	1.4	2.1	5.1	5.9	5.9	5.8	2.9	0.3	0.9
1.1	1.7	1.8	2.3	3.2	5.6	5.1	5.9	5.9	3.0	0.4	0.4
1.0	1.4	2.6	2.8	3.4	5.7	6.0	4.9	5.4	2.8	0.8	0.5
0.9	1.8	2.4	2.1	3.8	2.9	5.9	5.6	4.9	2.3	1.7	-0.1
1.2	1.7	3.0	3.3	0.5	5.1	4.0	5.9	4.2	2.8	0.3	0.4
1.2	2.0	2.4	3.9	3.4	4.7	5.9	5.9	3.8	2.7	0.9	0.5
1.1	1.5	3.5	4.1	4.8	4.6	5.9	5.8	3.6	1.3	0.8	0.6
1.0	1.4	3.0	1.6	5.4	4.5	5.2	5.5	3.8	2.3	0.8	0.8
0.9	1.5	2.8	1.6	2.4	4.6	5.8	5.8	4.2	1.9	1.8	0.6
0.7	2.2	2.9	2.8	3.8	4.7	5.9	5.5	4.8	2.7	1.6	0.3
0.7	2.0	3.1	2.0	3.8	6.0	5.6	5.1	5.1	2.6	1.3	0.7
0.9	1.7	3.4	2.6	5.7	4.3	6.3	4.2	5.1	1.7	1.2	0.2
0.4	2.1	2.2	3.8	5.5	4.9	6.5	3.2	5.0	2.6	0.7	0.4



Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

## ANEXO 8 – Necessidades Hídricas das Culturas

### ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

1.0	1.9	1.9	4.5	5.8	4.1	6.9	5.2	3.6	1.8	0.2	0.2
1.2	1.9	1.1	2.4	4.1	4.6	7.3	5.4	3.1	0.4	0.5	0.0
1.1	1.9	2.3	1.5	4.5	4.5	7.4	5.1	4.0	-0.1	1.3	0.1
1.2	1.7	3.5	1.9	3.2	5.6	6.6	4.8	4.1	1.1	0.9	0.1
0.2	1.9	3.6	1.6	2.8	4.7	6.4	5.3	3.6	1.8	0.4	0.8
1.0	1.8	3.3	1.7	3.4	5.9	6.6	5.4	3.0	0.9	1.1	0.6
0.9	1.9	3.5	2.2	5.0	6.3	6.5	5.1	3.8	0.8	0.9	0.3
0.6	2.2	3.8	2.1	5.6	6.3	5.6	4.9	2.3	2.0	0.5	0.7
0.9	2.3	1.5	3.4	5.2	6.9	5.6	4.7	2.8	1.3	0.1	0.9
0.9	2.2	3.7	1.1	4.8	5.3	5.7	4.9	1.5	0.6	0.1	0.9
0.5	1.9	4.0	1.1	4.4	5.5	5.0	5.0	2.6	1.2	0.4	0.8
1.6	1.8	4.9	2.1	4.4	6.4	4.0	3.3	2.0	1.8	0.9	0.6
1.4	1.4	5.5	1.9	5.6	5.4	3.7	3.9	1.3	2.5	1.1	0.8
1.3	1.8	4.0	2.2	4.9	5.2	5.8	5.0	3.0	1.4	1.4	0.5
1.3	-77.0	0.8	3.2	5.6	4.5	5.6	5.5	3.3	1.7	0.4	0.6
1.2	-77.0	1.7	-77.0	4.4	-77.0	5.4	5.9	-77.0	0.8	-77.0	0.0
Jan_2013	Fev_2013	Mar_2013	Abr_2013	Mai_2013	Jun_2013	Jul_2013	Ago_2013	Set_2013	Out_2013	Nov_2013	Dez_2013
0.6	0.8	1.9	2.7	2.4	6.2	6.2	5.8	5.1	0.7	1.3	1.5
0.6	1.8	1.7	2.8	4.2	6.7	5.2	5.7	4.9	1.2	0.9	1.1
1.1	1.5	0.8	1.4	4.4	6.7	6.2	5.7	5.1	2.6	1.6	1.2
1.1	1.4	0.4	1.4	5.0	5.8	6.8	5.9	5.1	2.3	1.0	1.1
0.9	1.5	1.1	3.2	5.2	4.7	7.0	4.8	4.0	2.3	0.7	1.0
0.5	1.5	1.1	3.8	3.3	2.6	7.4	5.2	4.2	2.9	0.6	1.1
0.1	1.8	1.1	2.7	3.0	2.8	7.2	5.4	4.2	3.1	0.7	1.0
0.6	1.7	0.9	2.8	2.4	1.8	7.0	6.1	4.6	3.0	1.5	0.8
0.2	1.5	1.8	1.2	3.4	0.9	7.2	6.7	4.7	3.0	1.4	0.9
0.2	0.5	1.8	1.1	5.0	1.6	6.8	6.6	4.1	3.0	1.3	1.1
0.4	1.4	1.4	1.9	5.1	3.7	3.8	6.1	4.3	2.5	1.7	0.8
0.7	1.0	1.6	2.8	5.2	5.5	1.8	5.1	5.1	1.2	1.6	0.5
0.7	1.7	2.6	3.7	5.6	5.6	1.1	5.1	5.0	1.8	1.7	0.2
1.0	1.5	2.7	3.9	4.8	6.2	3.8	5.7	4.5	1.4	2.0	1.0
0.4	1.4	2.3	2.7	4.4	6.1	4.4	5.1	3.9	1.6	1.6	1.0
0.2	0.7	1.1	4.1	2.3	5.4	5.2	4.9	3.8	1.7	1.4	0.7
0.2	0.1	0.9	4.2	3.0	4.5	4.9	5.5	3.6	1.8	1.2	0.1
0.3	0.7	2.3	4.2	3.4	3.8	4.4	5.4	3.9	1.0	1.3	0.2
1.0	1.0	0.2	4.5	2.6	4.1	5.3	6.0	3.6	1.8	1.3	0.6
0.2	1.1	2.3	5.0	3.9	5.8	5.6	6.0	4.2	1.5	1.3	1.1
0.7	1.5	2.5	4.5	4.6	5.2	5.4	5.1	4.3	1.5	0.6	0.8
1.0	1.0	2.4	4.5	4.9	6.3	5.3	4.6	3.8	1.4	0.0	0.7
0.6	1.8	1.4	5.0	4.7	6.6	5.9	5.4	3.3	0.6	0.6	0.3
0.3	2.1	2.4	4.7	5.2	7.4	5.9	5.2	3.0	0.5	1.3	0.3
0.2	1.9	0.7	4.8	5.3	7.6	4.0	5.2	1.5	0.4	1.4	0.6
0.6	2.1	0.7	4.2	4.8	6.6	4.6	4.8	2.9	1.1	1.3	0.6
0.1	1.2	1.3	4.5	4.1	6.5	4.7	4.6	1.1	1.9	1.3	0.3

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

### ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

1.0	1.5	1.1	4.6	5.1	6.6	4.4	4.6	1.5	0.5	1.3	1.0
1.1	-77.0	0.4	2.5	3.2	6.5	5.4	4.4	0.9	2.4	1.3	0.6
0.9	-77.0	2.9	2.7	5.4	7.2	6.3	5.2	0.5	2.2	1.0	0.5
1.2	-77.0	0.1	-77.0	5.7	-77.0	6.1	5.4	-77.0	2.0	-77.0	0.1
Jan_2014	Fev_2014	Mar_2014	Abr_2014	Mai_2014	Jun_2014	Jul_2014	Ago_2014	Set_2014	Out_2014	Nov_2014	Dez_2014
0.1	1.4	0.2	0.4	5.0	6.3	4.0	4.8	5.1	3.3	1.2	1.2
0.1	1.2	0.4	2.1	5.6	4.9	4.0	3.0	4.8	3.3	1.3	0.6
0.0	1.6	2.1	2.6	6.3	5.4	5.6	4.5	2.1	3.1	0.6	0.5
0.4	0.3	1.5	1.3	5.8	5.3	5.3	5.5	4.3	2.5	1.0	0.7
0.8	0.7	2.3	1.4	5.5	5.0	5.5	5.7	4.4	2.5	1.4	0.7
0.3	0.5	2.2	2.6	4.8	2.0	2.5	5.6	2.0	2.1	0.7	0.9
0.2	1.0	2.6	3.8	4.6	4.9	5.7	5.2	3.4	1.1	1.0	0.8
0.7	0.9	3.3	4.1	5.0	3.7	6.1	3.9	2.9	1.4	0.7	0.7
1.0	0.5	1.8	1.9	5.3	4.4	6.6	5.1	3.8	0.6	1.1	0.8
0.6	1.7	3.6	4.1	5.2	5.1	7.1	4.9	0.8	2.1	0.1	0.7
0.5	0.1	3.3	2.8	5.7	6.1	7.1	5.5	3.2	0.7	0.9	0.5
0.1	0.1	2.8	2.5	5.8	6.5	6.6	5.4	3.3	0.5	1.1	0.2
0.9	0.8	2.5	2.9	5.9	6.7	5.8	5.9	3.0	0.1	0.3	0.2
0.4	0.8	2.7	1.4	6.5	7.0	5.8	5.7	3.5	1.7	0.6	0.6
0.2	1.0	2.9	2.8	6.3	7.3	5.9	5.8	2.5	1.1	0.6	1.0
0.9	1.6	3.0	2.4	4.9	6.7	6.2	5.8	2.3	2.0	0.7	0.6
0.2	0.7	2.8	3.9	5.9	4.8	5.6	5.8	2.5	1.9	0.5	0.5
0.8	1.2	2.7	1.7	5.2	3.2	4.1	5.3	2.7	1.6	0.7	0.8
1.3	1.8	2.6	2.6	2.9	5.1	3.3	4.8	2.9	2.3	-0.1	0.3
0.7	0.6	2.2	1.2	1.8	5.3	4.2	5.1	2.6	2.6	0.1	0.4
0.1	1.5	1.1	3.3	2.5	4.9	6.0	4.9	2.9	2.2	0.9	0.7
0.9	0.9	2.2	3.0	3.4	2.8	5.9	5.0	0.7	2.1	0.4	0.7
1.6	1.9	2.3	2.4	3.8	2.1	5.4	4.9	2.3	2.5	-0.1	0.3
1.1	1.7	1.4	2.8	4.8	3.5	5.0	5.1	2.6	1.8	0.8	0.6
0.9	1.4	1.6	4.0	4.1	3.4	3.3	5.2	3.2	2.1	0.3	0.8
0.2	1.9	3.2	1.5	4.8	5.6	4.7	4.7	2.3	1.9	0.1	0.8
1.0	0.5	1.5	4.5	4.0	5.8	4.7	5.2	0.9	1.3	0.4	0.2
0.5	1.6	2.1	4.4	3.1	4.3	4.8	5.1	2.5	1.0	0.4	0.3
1.3	-77.0	2.2	4.8	2.7	5.7	5.5	5.3	2.8	1.9	1.1	1.2
1.2	-77.0	1.4	4.8	4.9	5.7	5.8	4.9	2.2	2.0	0.3	1.2
0.6	-77.0	0.8	-77.0	5.8	-77.0	3.3	4.8	-77.0	1.7	-77.0	0.9
Jan_2015	Fev_2015	Mar_2015	Abr_2015	Mai_2015	Jun_2015	Jul_2015	Ago_2015	Set_2015	Out_2015	Nov_2015	Dez_2015
0.8	0.9	1.1	4.5	3.3	5.2	2.8	5.7	4.0	3.1	0.1	0.5
0.9	0.5	0.7	4.2	3.6	5.6	5.7	5.9	4.2	2.9	0.2	0.8
0.9	0.6	1.7	2.8	0.8	5.8	6.1	4.3	2.8	2.1	0.8	1.1
0.8	1.8	2.7	4.1	1.7	5.7	5.8	5.9	4.1	1.5	0.8	0.8
0.7	1.7	3.6	4.0	3.5	5.7	6.1	5.7	3.0	1.2	0.2	1.0
0.5	0.8	2.9	1.5	4.0	5.9	6.0	5.7	4.2	1.8	1.6	0.6
0.1	1.3	2.8	3.0	5.0	5.1	6.2	5.5	4.6	2.8	1.6	0.1

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

## ANEXO 8 – Necessidades Hídricas das Culturas

### ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.7	1.5	3.0	0.7	3.8	4.6	5.9	5.6	3.9	2.6	1.6	0.6
1.0	1.7	2.7	1.2	4.7	4.9	5.7	5.5	4.1	2.3	1.5	0.5
0.8	0.6	2.5	1.6	5.3	4.2	5.2	6.0	4.2	0.4	1.5	0.4
0.9	1.1	2.6	3.8	5.4	2.0	6.1	4.9	3.9	1.1	1.3	0.6
0.8	1.3	2.2	3.6	5.0	3.1	5.6	3.6	3.5	1.1	1.2	1.0
0.7	0.9	3.1	4.4	4.6	2.8	5.5	5.0	1.9	1.7	0.9	0.4
0.3	0.6	3.1	2.8	5.2	1.8	5.7	4.8	2.6	2.3	1.3	0.1
0.1	0.7	2.8	1.5	5.8	4.4	5.6	4.8	1.1	2.1	1.2	1.5
0.7	1.3	2.7	1.9	6.2	5.5	6.0	2.7	2.3	1.5	1.2	1.0
0.5	3.0	0.2	3.3	6.6	6.5	4.3	5.0	2.9	1.5	1.1	1.0
0.1	2.3	1.3	2.8	5.4	7.0	5.7	5.0	3.7	1.1	1.3	1.0
1.9	2.0	2.2	3.4	5.4	6.9	5.5	5.2	4.1	0.8	1.1	1.2
0.5	0.9	2.2	4.0	5.3	6.7	6.0	5.6	4.0	2.1	1.1	0.6
0.5	2.0	1.5	3.0	6.1	6.0	5.9	5.3	3.8	2.4	1.6	0.3
0.7	1.5	1.5	3.7	6.4	4.9	6.5	4.2	3.6	2.2	0.8	0.0
0.6	0.8	2.6	4.1	6.2	4.2	6.3	3.6	3.5	0.8	1.4	0.0
1.2	1.3	2.6	1.1	5.6	5.6	4.6	3.5	3.4	0.1	0.9	0.3
1.2	1.2	3.7	1.8	5.2	5.9	6.1	4.9	3.2	0.5	1.2	0.8
1.2	1.1	1.9	2.8	6.3	6.3	6.2	4.5	3.2	1.2	1.6	0.9
1.2	2.4	3.4	3.4	6.6	6.7	6.4	3.6	3.2	1.2	1.3	1.1
1.3	0.8	3.2	3.8	6.1	7.0	6.4	4.7	3.1	1.3	1.2	0.3
0.4	-77.0	3.2	3.2	5.9	6.3	5.8	4.5	2.0	1.4	1.3	0.7
0.0	-77.0	3.8	4.3	5.8	4.8	4.8	4.6	2.9	1.0	1.2	0.3
1.2	-77.0	3.8	-77.0	5.6	-77.0	4.1	2.9	-77.0	1.3	-77.0	0.5
Jan_2016	Fev_2016	Mar_2016	Abr_2016	Mai_2016	Jun_2016	Jul_2016	Ago_2016	Set_2016	Out_2016	Nov_2016	Dez_2016
0.2	1.4	2.3	3.4	5.3	5.9	5.4	5.7	4.6	3.5	2.1	0.2
0.6	1.2	2.1	2.1	5.6	4.9	6.2	5.8	4.8	3.2	1.7	0.4
0.1	1.5	2.7	1.6	6.0	5.1	6.4	6.0	4.9	3.0	1.6	0.0
0.3	1.8	0.8	1.4	4.2	4.6	5.3	5.2	5.0	3.2	0.3	0.8
0.5	1.4	1.6	3.6	0.5	5.1	5.7	6.1	5.4	3.3	0.4	1.3
0.2	0.6	1.9	3.8	1.0	4.8	5.0	6.4	5.3	3.1	1.5	1.1
0.3	1.4	2.2	3.9	0.5	6.1	3.0	6.8	4.4	2.8	1.7	0.5
0.2	0.9	2.7	3.6	2.4	6.3	6.3	6.4	4.9	3.1	1.5	0.8
0.5	0.6	0.9	1.8	2.2	5.6	6.6	5.5	4.7	2.6	0.6	1.4
0.8	0.2	3.0	2.5	2.7	5.3	6.5	5.8	4.6	1.9	1.6	0.8
1.2	1.0	2.8	2.4	1.8	6.0	6.3	6.1	4.3	1.7	0.8	1.0
0.8	0.1	2.7	2.5	1.9	6.0	6.6	6.3	4.2	1.0	0.8	1.0
1.1	0.1	2.9	3.2	2.5	3.3	6.7	6.3	3.6	1.7	1.6	0.4
0.1	1.5	2.3	1.7	2.3	4.4	6.9	5.6	3.5	2.6	1.8	1.0
1.4	2.3	0.6	1.7	4.4	3.9	7.6	5.0	2.6	2.1	2.1	0.3
1.3	2.2	1.6	2.6	4.4	4.0	7.0	4.9	4.0	1.5	1.6	0.9
0.4	0.8	2.2	3.1	4.8	4.8	6.7	4.3	4.2	1.5	1.3	1.2
1.0	1.9	0.6	3.0	4.8	6.0	6.3	5.3	4.4	2.2	0.3	1.6
0.6	2.2	1.4	2.3	5.3	6.5	5.6	2.9	4.2	2.2	1.1	1.1

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.9	2.3	1.6	2.1	5.4	6.5	6.0	5.7	3.6	1.5	0.1	0.9
0.0	2.0	1.5	2.0	3.4	6.5	6.1	5.4	3.6	0.6	1.1	0.8
0.1	2.0	2.5	2.8	5.2	6.0	5.9	5.5	3.3	1.1	0.8	0.8
1.1	1.1	2.5	3.3	4.0	5.0	6.8	5.4	3.7	1.4	1.3	0.9
1.3	1.0	3.3	4.4	2.5	5.6	6.9	4.8	3.3	1.3	0.9	0.9
0.1	1.1	2.5	4.7	3.0	5.7	6.8	4.8	3.4	1.1	0.8	1.1
1.1	0.5	0.7	4.2	4.5	6.0	6.4	5.0	3.6	2.2	0.5	0.9
0.8	1.4	2.8	3.8	3.0	6.6	5.2	5.0	4.3	1.8	0.9	0.9
0.8	2.3	1.6	4.3	3.2	6.3	5.9	5.3	4.4	2.3	1.0	1.0
1.4	2.5	2.5	3.6	3.3	6.2	6.1	5.1	4.1	2.0	0.8	1.1
1.2	-77.0	2.3	4.9	4.2	5.8	4.9	4.5	3.6	2.2	0.6	1.0
1.1	-77.0	3.2	-77.0	5.6	-77.0	5.5	4.2	-77.0	2.1	-77.0	0.9
Jan_2017	Fev_2017	Mar_2017	Abr_2017	Mai_2017	Jun_2017	Jul_2017	Ago_2017	Set_2017	Out_2017	Nov_2017	Dez_2017
0.5	1.2	0.8	3.3	4.5	5.6	6.7	5.7	5.2	3.8	1.3	1.1
0.6	1.0	1.6	3.8	5.1	5.8	7.1	5.9	5.5	4.0	0.6	1.1
0.1	0.9	0.9	4.0	5.3	5.4	7.5	6.2	5.1	3.7	1.1	1.2
0.3	0.7	1.6	4.1	4.0	5.9	6.4	6.4	3.6	3.3	1.3	1.4
0.2	2.0	0.7	4.4	3.1	5.8	3.2	5.9	4.5	3.1	2.3	1.2
0.9	1.6	1.0	4.7	4.3	5.2	4.2	5.8	4.7	3.7	1.9	1.0
1.0	0.9	2.8	4.4	5.4	6.6	5.5	5.1	5.0	3.5	1.9	1.0
1.0	1.8	2.9	4.4	5.3	5.3	3.1	5.8	4.8	3.2	2.1	0.0
1.1	1.1	3.4	4.5	3.4	5.7	5.4	5.8	3.9	2.8	2.2	0.4
0.8	0.3	3.3	4.3	1.5	6.4	5.8	6.2	4.6	2.7	1.8	0.5
1.3	0.5	2.5	4.6	2.6	6.3	6.4	6.4	4.6	2.8	1.6	1.1
0.2	0.7	3.0	4.5	2.7	6.2	6.4	6.3	4.7	3.5	1.5	1.1
1.5	1.5	3.7	3.9	3.0	6.4	6.2	5.2	4.5	1.9	1.8	0.5
1.4	1.4	1.7	4.2	3.4	5.9	6.4	5.3	4.1	2.1	1.7	0.2
1.2	1.4	3.7	4.1	4.4	6.2	6.1	5.3	4.5	4.4	1.5	0.4
1.1	2.2	2.8	4.5	5.2	6.5	5.9	5.7	4.3	1.9	1.4	1.2
1.2	1.9	2.8	4.3	5.2	7.1	5.7	5.8	3.8	2.4	1.4	1.0
1.7	1.0	3.5	2.9	5.5	6.8	4.9	5.9	3.3	1.5	1.4	1.0
1.2	2.0	3.0	5.1	5.7	6.8	4.0	5.9	3.6	0.8	1.5	1.0
0.9	2.5	2.6	4.8	6.1	6.8	5.2	5.9	3.5	0.7	1.6	1.0
1.2	2.1	2.1	5.0	4.7	5.3	6.0	5.3	3.1	2.5	1.5	1.0
1.0	2.1	1.9	4.4	4.8	5.9	5.8	4.8	3.6	2.6	1.0	1.0
1.4	1.4	1.5	4.3	5.9	6.3	6.1	5.0	3.3	2.5	1.1	0.9
1.2	1.9	1.4	4.1	5.8	4.0	6.1	4.8	3.7	2.6	1.0	0.6
0.8	1.3	2.3	2.9	5.8	3.0	6.2	4.9	3.8	2.5	0.1	0.5
0.1	1.1	0.1	3.0	2.7	3.9	6.2	5.0	3.8	2.4	1.2	0.4
1.1	1.1	1.9	4.8	3.1	4.7	6.2	3.9	3.6	3.1	1.1	0.6
0.8	0.9	2.9	4.8	3.2	4.3	6.3	2.7	3.4	2.9	0.1	0.2
0.6	-77.0	3.5	3.6	3.3	4.7	5.7	3.4	3.7	2.7	1.4	0.5
0.9	-77.0	3.1	3.1	5.5	5.1	5.9	3.8	3.5	2.7	1.4	0.5
0.2	-77.0	3.6	-77.0	5.5	-77.0	3.4	4.8	-77.0	2.2	-77.0	0.6

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

Jan_2018	Fev_2018	Mar_2018	Abr_2018	Mai_2018	Jun_2018	Jul_2018	Ago_2018	Set_2018	Out_2018	Nov_2018	Dez_2018
0.6	1.5	1.4	2.7	3.8	4.2	3.8	5.6	3.8	3.4	1.2	0.6
0.5	2.0	1.0	1.6	1.3	4.4	2.3	5.5	3.1	4.2	0.9	0.5
0.2	0.9	0.5	2.4	3.9	2.6	4.3	5.7	2.1	3.9	0.5	0.7
0.4	1.6	0.8	2.8	4.8	2.5	4.1	6.0	1.8	3.3	0.5	1.1
0.1	1.6	1.7	3.2	4.7	3.1	4.7	5.9	1.9	3.3	1.3	0.9
1.2	2.0	1.1	0.8	4.5	3.2	5.6	5.5	1.8	3.5	0.8	1.0
1.1	1.7	0.8	1.8	4.0	1.3	5.7	5.4	2.8	3.1	1.4	0.3
1.1	1.7	0.7	1.5	3.8	2.9	5.6	5.4	3.4	3.3	0.8	1.0
-0.1	0.4	0.4	2.0	2.1	3.0	4.3	5.5	3.9	3.3	1.0	1.0
0.6	1.9	2.1	1.2	4.8	1.4	3.2	5.5	4.5	2.1	0.3	1.0
0.8	0.2	2.2	2.5	4.3	3.2	5.1	5.3	4.6	2.2	0.1	0.0
0.6	1.9	2.1	1.4	4.2	3.2	2.8	5.2	4.4	2.5	1.1	0.6
1.0	1.2	1.8	2.0	4.5	5.3	4.4	5.3	4.2	3.0	1.4	1.2
0.8	1.1	0.5	2.8	4.4	5.5	3.8	5.0	4.0	2.5	1.4	0.7
1.0	0.6	1.7	0.7	5.4	5.3	3.7	4.8	3.9	1.0	1.2	0.3
0.1	1.6	2.0	2.9	5.6	6.0	5.3	4.6	3.9	2.0	1.4	1.0
1.5	0.7	0.6	4.0	5.3	6.3	5.5	4.3	3.9	1.9	0.6	0.7
1.3	2.1	1.8	4.4	3.3	6.6	4.4	5.3	3.9	1.5	0.3	0.1
1.4	1.8	1.6	3.8	4.6	6.3	4.9	6.0	3.9	1.6	0.7	0.6
0.9	2.1	2.7	2.9	3.7	4.3	5.5	5.6	3.9	2.2	0.9	0.7
0.6	2.3	3.1	0.8	4.3	3.5	5.7	5.3	4.0	1.7	1.2	0.9
1.3	2.3	2.7	2.0	2.8	4.1	5.3	5.1	3.9	2.1	0.5	0.8
0.8	2.2	0.8	4.0	3.7	5.7	5.3	5.0	4.3	1.4	0.8	0.8
0.3	2.1	2.4	4.3	1.4	4.9	4.1	5.0	4.2	2.2	0.7	0.5
0.7	2.2	2.9	4.2	3.4	3.1	2.0	5.3	4.1	1.6	0.3	0.7
1.3	0.8	3.3	4.2	3.0	5.3	5.3	4.9	3.7	1.2	1.2	0.8
1.5	0.7	3.5	3.0	3.8	4.9	5.2	2.3	4.0	2.5	1.0	0.0
2.0	0.9	2.5	2.0	3.7	4.2	5.1	1.4	4.0	2.5	1.0	1.0
2.0	-77.0	2.3	2.9	1.5	3.1	5.3	4.4	3.3	1.8	0.0	1.1
1.8	-77.0	1.9	2.9	1.9	3.3	5.2	3.3	3.1	0.9	0.7	1.3
1.5	-77.0	3.0	-77.0	4.1	-77.0	5.1	3.5	-77.0	0.1	-77.0	1.1
Jan_2019	Fev_2019	Mar_2019	Abr_2019	Mai_2019	Jun_2019	Jul_2019	Ago_2019	Set_2019	Out_2019	Nov_2019	Dez_2019
1.1	1.3	1.9	2.3	4.4	6.6	5.5	5.6	4.7	3.0	0.9	0.6
0.7	1.7	2.7	2.9	4.9	6.4	3.7	5.3	4.9	3.2	1.0	1.6
0.6	1.6	1.9	3.4	5.1	5.5	5.1	5.4	5.1	3.1	0.9	1.3
0.8	1.3	1.8	2.7	5.3	3.1	3.6	5.4	5.2	2.7	0.9	0.6
1.0	1.5	0.7	2.0	4.4	4.7	5.3	5.4	5.1	3.1	1.3	1.2
1.0	1.5	1.8	2.4	3.1	2.5	4.6	4.7	6.1	3.2	0.5	1.2
1.1	1.3	1.0	0.8	1.2	4.4	4.1	3.1	5.2	3.3	1.7	0.7
1.1	0.8	2.5	2.2	0.8	4.9	4.4	3.3	4.9	3.3	1.6	0.0
1.1	1.2	2.7	2.8	0.9	5.0	5.2	2.9	3.9	3.7	0.5	0.7
1.2	0.6	2.5	3.1	3.1	5.4	5.8	4.6	4.6	3.1	0.7	0.7
1.3	1.8	2.9	3.2	5.3	5.8	6.6	4.9	4.8	2.1	0.9	0.8

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

1.2	1.9	2.4	3.8	6.6	5.8	3.2	5.5	5.7	2.2	1.0	0.2
1.1	1.9	3.3	1.8	6.7	5.4	4.0	5.5	5.2	2.4	1.0	0.4
1.0	2.2	3.1	1.7	5.9	3.2	4.7	5.6	4.3	1.4	0.9	0.4
0.3	1.6	3.1	2.3	5.6	4.7	5.2	5.9	3.9	1.7	1.4	0.2
0.1	2.0	3.0	3.4	4.1	5.3	3.0	5.5	3.6	1.7	1.5	0.0
1.2	1.3	1.9	0.4	3.9	4.7	4.1	5.3	3.5	0.6	0.3	0.9
0.6	0.2	3.2	2.3	3.7	3.5	5.8	4.4	3.4	1.3	1.4	0.2
0.1	1.8	3.3	2.0	4.4	3.3	5.5	5.0	2.7	0.8	0.0	0.1
1.8	1.5	3.5	4.1	4.6	3.6	5.9	5.5	1.8	1.9	0.5	0.1
1.4	1.8	3.1	4.4	4.1	5.7	5.8	5.4	1.1	1.8	0.5	0.5
0.7	2.2	3.4	2.9	5.1	5.4	5.2	5.5	2.4	2.1	0.9	0.5
1.1	2.1	3.8	2.2	4.6	2.3	5.4	5.4	3.1	1.2	1.1	0.3
1.7	2.3	3.7	1.6	5.6	2.2	5.9	5.4	1.3	1.8	0.6	1.0
1.5	2.5	4.0	3.2	6.2	4.4	4.3	3.5	3.4	2.3	0.9	0.9
1.4	2.3	4.3	3.6	6.3	3.6	5.2	3.7	3.6	2.2	0.1	0.6
1.2	1.6	4.3	4.6	5.4	5.3	3.0	4.6	3.6	1.3	0.8	1.0
0.9	1.7	3.8	4.5	6.2	5.7	5.4	4.5	3.4	0.2	0.5	1.1
0.5	-77.0	3.6	4.8	7.1	5.6	5.4	4.8	3.3	1.1	0.3	1.1
0.3	-77.0	2.9	4.4	7.3	5.6	6.0	4.9	3.0	0.4	0.1	1.0
0.5	-77.0	2.6	-77.0	6.4	-77.0	5.3	4.6	-77.0	0.5	-77.0	0.5
Jan_2020	Fev_2020	Mar_2020	Abr_2020	Mai_2020	Jun_2020	Jul_2020	Ago_2020	Set_2020	Out_2020	Nov_2020	Dez_2020
0.8	0.3	0.5	0.8	3.3	3.0	5.5	5.4	4.8	2.2	0.9	1.2
0.3	1.5	2.3	3.0	4.2	3.8	5.8	5.5	4.7	2.0	0.4	1.0
0.9	1.7	1.0	3.2	5.1	4.9	5.7	4.6	5.2	2.4	2.3	1.1
1.0	0.8	1.7	1.5	3.1	4.2	6.1	5.6	5.1	2.2	1.1	0.3
1.0	1.6	2.1	0.9	3.8	5.2	6.3	5.5	4.8	2.0	0.7	0.9
0.9	1.5	2.7	0.4	4.0	4.8	6.3	5.3	4.7	2.9	0.1	0.3
1.0	1.1	2.8	2.5	4.6	3.4	5.4	5.0	5.0	3.1	1.3	0.6
0.8	0.7	1.9	1.2	2.1	5.4	5.3	5.3	5.3	2.7	0.7	0.9
0.3	1.2	2.8	0.7	2.2	5.4	4.9	5.2	4.4	2.8	1.1	0.1
1.2	0.7	2.8	2.9	2.6	5.0	5.7	4.8	4.0	3.0	1.0	0.1
1.2	0.8	2.8	3.0	2.3	2.5	5.6	3.6	3.6	3.5	0.9	0.1
1.0	0.1	2.7	3.3	2.3	3.0	5.7	3.9	3.4	3.6	1.3	0.4
0.6	0.7	2.5	1.6	0.6	3.4	6.3	5.0	3.6	2.7	0.4	0.2
0.3	1.5	2.7	2.0	1.5	4.5	6.1	5.0	3.1	3.0	0.4	0.3
0.7	1.6	2.5	2.6	3.0	4.3	6.0	4.0	3.1	2.8	1.0	0.9
0.9	0.6	2.9	2.2	4.5	4.0	6.5	4.3	2.4	2.5	0.9	0.4
0.7	1.2	2.8	2.8	5.3	4.9	6.4	4.0	2.3	2.2	0.6	0.9
0.9	2.3	3.6	3.4	5.4	5.6	5.9	4.1	1.6	2.5	0.9	0.7
2.3	2.1	2.2	3.3	5.2	5.6	4.9	4.6	2.4	0.7	1.7	0.3
2.6	1.7	0.0	1.2	5.1	5.5	4.7	3.0	2.7	0.0	1.6	0.6
1.8	2.3	1.8	2.4	5.1	5.7	5.1	3.7	3.2	1.5	1.7	0.4
0.3	2.5	2.2	2.8	5.2	6.0	5.3	5.1	2.1	1.3	1.3	0.9
0.3	2.6	2.6	2.9	5.7	5.8	5.4	5.0	1.8	1.7	1.1	0.2

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

## ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.4	2.4	2.5	3.5	5.4	5.5	5.9	4.6	1.7	1.4	0.9	1.0
0.8	1.2	3.1	2.4	5.5	5.3	5.7	5.4	3.4	0.6	0.1	1.1
0.6	2.4	3.0	1.9	5.2	5.2	5.7	5.0	3.8	2.0	0.9	1.3
0.3	2.2	3.0	2.4	6.1	4.7	5.6	5.0	3.5	0.8	0.7	0.8
0.5	2.0	3.1	2.6	6.1	6.1	5.7	4.8	3.0	1.1	0.2	0.8
0.7	1.2	2.7	1.8	5.8	6.1	5.0	4.9	3.4	2.0	0.5	0.7
0.2	-77.0	0.5	3.0	4.9	5.6	5.4	4.6	3.1	1.9	0.4	0.6
0.1	-77.0	0.8	-77.0	4.9	-77.0	5.8	4.3	-77.0	1.7	-77.0	0.5

### 2.2.6 ALMOUROL

Tabela 19. Evapotranspiração de referência diária na região de cálculo de Almourol (mm)

Jan_2003	Fev_2003	Mar_2003	Abr_2003	Mai_2003	Jun_2003	Jul_2003	Ago_2003	Set_2003	Out_2003	Nov_2003	Dez_2003
0.0	1.2	0.0	2.8	3.9	3.8	4.4	5.7	3.5	1.0	1.6	0.6
0.2	1.2	0.5	2.8	4.1	4.4	3.7	3.8	3.4	2.4	0.6	0.9
0.8	1.1	1.1	4.2	4.5	2.0	5.4	5.2	3.2	1.4	0.5	0.1
0.5	0.6	1.9	4.0	3.0	3.2	5.5	5.1	3.4	2.7	0.5	0.9
0.2	1.6	1.6	3.7	3.5	5.2	5.2	5.2	4.0	3.0	0.8	0.0
0.8	1.0	2.0	3.8	4.5	5.5	5.2	5.4	4.1	3.5	1.9	0.0
0.4	0.5	1.2	3.9	2.9	5.4	5.1	5.2	4.1	3.1	0.8	0.5
0.5	1.4	2.2	3.8	4.2	5.9	5.6	5.6	3.1	2.9	0.9	-0.1
0.8	0.9	2.2	2.7	4.3	5.5	5.7	4.9	4.2	3.1	-0.1	0.2
1.5	1.0	2.6	1.0	4.6	5.3	5.5	5.0	4.5	2.6	0.6	1.0
0.9	0.0	2.6	2.1	4.6	5.4	4.7	4.9	4.8	0.1	0.9	0.7
0.9	0.6	1.4	0.8	4.8	6.9	2.7	5.5	5.2	2.0	0.3	0.7
1.0	1.7	2.8	0.6	4.9	6.7	1.7	5.4	5.2	1.7	0.6	0.9
1.0	1.5	2.6	1.4	5.1	5.9	3.9	5.5	4.6	1.6	0.0	0.7
0.9	1.5	2.5	2.2	4.9	5.0	4.1	4.1	4.9	0.9	0.8	0.5
0.9	1.6	2.2	3.0	4.7	3.1	4.6	3.7	3.9	1.6	2.1	0.8
0.0	1.2	1.1	2.8	4.8	4.7	5.5	4.4	4.1	1.3	2.0	0.1
-0.1	-0.1	2.5	2.1	4.8	6.1	5.6	4.9	4.2	0.2	1.8	0.2
0.8	0.4	2.2	2.2	4.8	8.1	5.6	4.9	3.8	1.3	1.4	0.1
0.2	0.9	3.1	2.0	5.2	6.5	5.7	4.9	2.8	0.8	1.0	0.2
0.9	0.4	3.2	3.4	5.8	6.0	5.2	4.4	2.2	1.1	0.3	0.5
0.6	0.9	2.1	1.9	6.3	3.8	5.6	4.8	2.5	1.9	0.1	1.0
1.4	0.9	1.1	1.5	6.0	4.8	5.7	5.2	3.6	2.0	0.4	0.8
1.8	0.2	1.3	2.1	5.4	3.8	5.7	4.2	3.4	1.4	0.5	0.9
1.2	0.8	1.1	0.5	5.1	5.5	5.4	4.6	3.2	0.2	0.9	0.6
1.4	0.4	0.9	3.9	5.4	5.5	5.3	4.9	2.8	0.7	0.1	0.2
1.4	1.0	1.2	3.1	5.9	5.9	5.5	2.1	2.7	0.6	0.8	0.0
1.4	0.9	1.2	1.7	5.6	5.0	5.3	1.8	2.9	1.3	0.3	0.3
1.5	-77.0	0.6	1.8	5.2	2.0	5.8	3.0	1.6	1.4	0.2	0.3
1.4	-77.0	1.6	3.2	1.3	3.9	5.3	3.2	0.2	0.4	0.3	0.5

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

1.8	-77.0	2.6	-77.0	4.8	-77.0	5.7	2.5	-77.0	0.6	-77.0	0.1
Jan_2004	Fev_2004	Mar_2004	Abr_2004	Mai_2004	Jun_2004	Jul_2004	Ago_2004	Set_2004	Out_2004	Nov_2004	Dez_2004
0.2	0.2	1.4	1.7	3.1	5.6	6.2	5.6	3.8	2.7	1.9	0.5
0.9	0.6	2.1	1.6	3.3	5.5	6.6	5.1	1.0	2.8	0.6	0.4
1.1	1.5	1.3	2.1	2.5	6.1	6.5	4.7	3.2	3.1	0.1	1.1
0.8	1.2	2.2	3.2	3.4	5.7	6.1	5.4	2.5	3.1	1.1	1.0
0.9	1.4	1.1	3.2	0.5	3.8	5.5	5.4	1.9	2.6	1.7	1.3
0.7	1.4	1.2	3.6	3.0	5.0	4.9	5.5	2.8	2.0	2.1	1.0
0.5	0.5	1.9	3.3	3.3	5.2	4.5	5.3	2.9	3.0	1.2	0.9
0.0	1.2	2.2	3.2	4.2	5.7	5.2	1.7	2.7	2.1	1.6	0.8
0.4	1.2	1.5	4.5	1.3	5.7	5.5	2.0	3.6	2.2	1.6	0.7
0.6	1.7	1.3	4.2	2.7	5.6	4.5	2.9	2.9	1.5	1.8	0.7
0.7	1.6	0.3	3.4	2.6	5.6	6.0	2.3	3.5	1.0	1.7	0.8
0.6	1.5	0.3	3.5	3.9	5.8	5.9	4.7	4.1	2.3	2.0	1.5
0.3	1.3	2.6	3.9	4.7	5.8	6.5	5.2	3.6	2.3	2.2	0.6
0.3	1.1	2.9	4.0	4.9	8.5	6.5	5.3	3.0	1.3	2.2	1.1
0.0	1.2	2.7	3.9	4.9	8.1	5.8	4.8	3.7	1.1	1.5	1.1
1.0	0.9	2.6	2.2	5.5	6.8	5.2	2.8	4.3	1.1	1.3	0.8
0.6	1.0	2.2	2.3	5.1	6.4	5.5	3.0	4.1	1.0	1.3	0.9
0.9	1.5	2.5	1.0	5.6	5.2	5.6	3.4	3.8	0.4	1.3	1.1
1.4	2.5	2.9	1.6	5.8	4.3	4.5	3.4	3.8	0.2	0.7	0.6
1.1	1.6	2.9	1.3	4.3	5.6	5.6	3.9	3.2	1.5	1.3	1.4
0.7	1.7	2.6	0.5	2.3	4.6	5.4	4.8	3.8	1.4	1.0	1.3
0.6	0.4	3.3	3.2	3.4	4.2	4.4	3.8	3.8	2.2	1.1	1.4
0.7	0.1	3.0	4.2	2.1	3.0	4.9	4.7	4.1	2.0	1.1	0.9
1.1	0.9	1.3	4.3	2.6	3.3	5.5	4.8	3.0	0.6	1.1	0.8
0.3	0.2	3.7	4.6	2.1	6.0	6.5	4.7	3.9	0.5	1.0	0.8
0.2	2.0	2.8	4.7	4.5	6.3	6.5	4.9	4.8	1.2	1.0	1.0
0.4	1.7	2.5	4.6	4.8	6.4	6.0	4.6	3.8	1.1	0.7	1.0
1.5	1.1	2.3	3.0	4.7	6.3	5.3	4.9	3.7	0.7	0.4	0.2
0.8	1.2	1.5	4.1	4.5	5.9	5.7	4.9	3.7	0.9	0.3	0.9
0.1	-77.0	1.4	2.8	5.1	6.4	5.3	4.5	3.1	0.9	0.4	1.0
-0.1	-77.0	1.8	-77.0	5.8	-77.0	5.4	3.9	-77.0	0.2	-77.0	0.8
Jan_2005	Fev_2005	Mar_2005	Abr_2005	Mai_2005	Jun_2005	Jul_2005	Ago_2005	Set_2005	Out_2005	Nov_2005	Dez_2005
0.4	1.3	2.4	2.7	2.4	6.4	6.0	5.7	5.1	3.8	0.7	0.2
0.7	1.4	1.9	0.8	3.5	5.7	6.4	6.0	4.8	4.1	0.9	0.7
1.1	1.3	1.7	1.8	3.2	5.7	5.6	6.4	4.6	4.6	0.2	0.3
0.9	1.3	3.4	2.2	4.8	5.9	5.9	7.2	4.7	4.0	1.7	0.1
0.9	0.5	2.4	2.9	5.5	6.3	6.5	6.1	4.2	3.4	1.8	0.6
0.9	1.0	2.4	2.9	6.2	6.5	6.3	4.6	1.9	3.1	1.8	1.0
1.1	0.8	2.7	3.2	4.8	7.6	6.1	5.3	2.8	3.0	1.7	1.0
0.8	1.3	2.6	3.4	3.5	6.2	6.4	4.3	3.9	2.8	1.0	0.8
0.8	1.5	2.3	4.5	3.8	6.3	5.9	2.7	1.4	0.7	1.7	1.1
0.6	1.7	1.8	4.4	3.2	5.5	6.5	3.1	2.3	0.6	1.8	2.2



Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.8	1.6	2.5	3.8	1.9	5.2	5.9	4.8	2.5	1.5	1.6	1.1
0.8	1.4	0.9	3.9	2.5	2.2	6.0	5.5	3.9	1.6	0.7	1.1
0.0	1.8	1.7	3.6	3.2	2.8	5.9	5.2	4.6	2.2	0.2	0.9
0.5	2.4	1.2	2.3	3.4	4.0	5.7	5.7	4.5	1.7	1.1	1.0
0.2	1.7	2.6	2.7	3.9	5.8	6.0	5.5	4.0	1.1	0.9	1.1
1.2	2.8	2.3	3.2	2.2	6.2	5.6	5.3	3.7	1.8	1.0	0.9
1.4	2.2	3.7	1.1	4.6	6.5	5.4	4.5	4.6	0.2	0.2	0.9
0.9	2.1	3.3	2.9	4.9	5.8	5.7	5.3	5.0	1.9	0.4	1.0
1.3	1.9	1.9	2.3	5.0	5.2	6.2	3.6	4.0	2.3	0.1	1.1
1.2	1.7	1.5	1.9	5.1	5.6	6.4	4.9	4.1	0.6	0.2	1.1
1.2	1.6	0.3	3.3	3.5	6.2	5.9	6.1	3.8	0.4	0.7	1.4
1.1	0.6	2.6	2.5	4.3	6.3	5.3	5.5	3.3	1.0	0.5	1.4
0.9	1.0	1.5	1.0	5.2	4.7	5.6	4.4	3.4	1.8	1.3	1.0
1.2	1.5	2.0	2.6	5.9	3.7	3.9	4.7	3.5	2.1	1.2	0.5
1.6	1.9	1.4	3.3	5.6	4.9	3.6	4.8	3.5	1.8	0.7	0.0
1.2	1.3	2.2	4.1	5.6	4.9	3.4	4.9	3.5	2.7	0.4	-0.1
1.9	1.5	2.2	4.3	3.1	5.1	3.8	4.9	3.5	0.1	0.5	0.7
1.3	3.4	0.8	4.3	3.8	3.9	4.4	5.0	3.3	0.7	0.3	0.5
1.1	-77.0	1.5	4.1	3.4	4.4	4.5	4.4	3.3	1.1	1.1	0.7
1.5	-77.0	2.8	4.4	3.5	5.5	5.6	5.5	4.0	0.0	1.0	0.3
1.5	-77.0	4.0	-77.0	4.2	-77.0	5.6	5.1	-77.0	0.7	-77.0	0.0
Jan_2006	Fev_2006	Mar_2006	Abr_2006	Mai_2006	Jun_2006	Jul_2006	Ago_2006	Set_2006	Out_2006	Nov_2006	Dez_2006
0.5	1.2	2.4	2.4	4.4	3.9	5.1	6.2	4.3	2.2	1.1	0.9
1.1	0.9	1.6	3.2	3.8	5.3	3.8	5.9	4.8	2.0	0.1	0.2
0.9	0.7	0.8	2.7	3.5	6.4	4.3	5.8	4.9	2.3	0.6	0.2
1.0	1.3	1.0	3.0	3.5	6.7	5.4	6.4	5.1	1.9	0.0	0.2
0.8	1.6	2.6	1.2	4.3	6.0	5.9	6.7	5.1	2.7	0.3	0.1
0.5	1.6	1.9	1.4	4.5	5.4	6.2	7.0	5.0	2.0	0.0	0.5
0.7	1.3	1.7	0.7	4.0	5.7	6.3	6.1	4.5	2.1	0.8	0.0
0.9	1.3	1.9	3.0	4.1	5.4	6.4	6.3	4.1	2.6	0.9	0.9
0.9	0.7	1.3	2.8	4.7	3.7	6.3	7.7	3.6	2.3	1.2	0.7
1.0	1.3	2.4	3.4	5.0	4.3	4.9	6.5	4.6	0.7	1.6	0.8
1.1	1.7	2.5	4.1	4.5	5.7	4.4	6.3	2.5	2.3	1.6	0.9
0.8	1.7	2.6	3.7	4.4	4.9	5.3	5.9	4.3	2.7	1.3	0.8
0.6	1.7	2.5	4.0	4.9	1.6	4.9	5.6	1.5	2.9	1.3	0.8
0.8	1.7	2.9	0.7	4.1	2.1	6.1	4.8	3.3	2.7	1.1	0.9
0.0	1.3	2.4	1.8	3.8	3.7	6.6	4.8	3.5	1.6	0.2	0.8
0.8	1.3	0.8	2.2	4.9	2.8	5.4	3.2	4.0	0.3	0.9	0.7
0.3	1.1	0.1	2.9	4.3	1.8	6.2	4.1	3.7	1.9	0.8	0.6
1.1	1.0	0.8	3.1	5.4	5.3	2.5	3.6	4.1	1.2	0.7	0.6
1.2	0.8	1.4	3.8	4.9	4.8	5.2	3.9	3.8	0.8	0.7	0.7
1.2	0.8	0.8	2.1	4.5	5.2	5.9	5.3	3.6	0.6	0.9	0.7
1.1	1.9	1.5	2.9	3.6	5.6	5.9	5.7	1.5	0.9	0.5	0.8
0.6	2.3	1.1	1.4	4.3	5.9	6.3	5.6	2.3	0.5	0.5	0.8

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.9	1.6	0.1	3.1	4.7	5.5	6.0	5.4	2.5	1.5	0.4	0.8
0.5	1.7	1.7	4.2	5.3	5.3	5.9	5.3	1.3	0.7	0.3	0.8
1.5	0.0	1.0	3.9	5.6	4.5	6.2	5.4	2.0	0.9	0.8	0.7
1.5	1.7	2.8	4.3	6.4	4.4	5.8	5.6	3.2	0.3	0.7	0.8
1.5	2.2	2.1	4.3	6.0	4.8	5.9	5.4	2.9	1.9	0.8	0.9
1.5	2.5	1.8	4.9	5.8	5.4	6.1	5.4	1.9	2.6	0.8	1.0
0.2	-77.0	0.8	4.6	5.0	5.5	6.1	5.5	0.9	1.9	0.9	0.2
1.1	-77.0	2.5	4.7	4.9	5.3	6.2	5.4	1.2	0.9	0.9	0.1
1.2	-77.0	1.4	-77.0	5.7	-77.0	6.5	5.3	-77.0	0.7	-77.0	0.3
Jan_2007	Fev_2007	Mar_2007	Abr_2007	Mai_2007	Jun_2007	Jul_2007	Ago_2007	Set_2007	Out_2007	Nov_2007	Dez_2007
0.6	1.1	1.4	3.0	1.8	5.0	5.1	5.3	5.5	2.1	2.1	0.2
0.8	1.3	1.0	0.9	1.2	5.4	5.6	5.7	4.8	0.5	2.0	0.4
0.8	0.4	0.9	1.9	3.3	5.2	4.5	6.5	4.7	1.1	2.1	0.6
0.5	0.9	0.4	2.5	3.3	6.1	6.3	6.0	4.2	1.6	1.9	0.7
0.6	0.8	1.7	3.0	4.6	6.1	6.6	4.5	7.2	2.0	1.8	0.3
0.6	0.9	0.3	2.8	5.2	6.4	6.3	5.2	5.4	2.4	2.0	0.5
0.1	0.3	2.9	3.1	4.8	5.2	5.9	5.4	4.3	2.5	2.1	0.8
0.3	0.8	3.0	2.3	5.2	3.2	6.1	5.8	3.9	2.7	1.6	0.9
0.2	1.7	2.4	2.1	5.5	4.7	6.3	6.2	2.5	3.1	2.0	0.8
0.1	0.9	3.2	1.9	4.5	3.8	6.3	5.6	3.1	3.0	2.3	0.8
0.8	0.3	3.6	1.8	4.3	4.3	6.2	4.3	4.0	3.1	1.2	0.9
0.8	1.4	1.6	2.3	4.0	4.6	6.2	5.0	3.0	2.8	1.3	0.8
0.7	0.2	2.6	3.3	3.8	3.1	5.9	4.2	3.5	2.8	1.3	0.9
0.5	2.0	3.0	3.9	3.9	2.4	4.9	5.1	3.6	2.1	1.3	1.0
0.3	0.6	2.9	3.6	4.6	4.2	2.6	2.6	3.2	2.4	1.4	0.8
0.2	0.7	2.8	4.4	5.0	1.0	2.1	5.1	2.4	2.3	1.3	0.8
0.6	1.4	3.0	4.9	6.0	3.6	5.5	5.3	1.3	2.3	1.1	0.7
0.9	1.8	3.0	5.0	5.9	3.9	5.9	5.4	2.3	2.4	1.2	0.2
1.1	0.3	2.7	2.9	5.0	2.0	5.5	5.4	3.3	2.6	0.0	0.3
0.8	1.3	3.2	1.2	3.1	3.9	5.6	5.4	3.7	2.4	0.1	0.8
0.8	1.5	3.3	4.0	2.8	4.6	5.8	5.2	1.9	2.3	0.7	1.0
0.8	1.3	3.0	4.6	1.3	5.5	5.4	5.7	3.7	2.2	1.0	0.9
0.6	0.6	2.9	4.7	2.6	5.7	4.4	5.6	3.2	1.3	0.9	0.8
0.9	1.3	2.8	2.5	3.8	5.1	5.6	6.3	3.9	0.9	1.6	0.8
1.0	1.3	2.3	2.7	3.2	4.6	5.9	3.6	3.7	2.0	2.1	0.3
2.0	2.1	2.4	3.9	3.5	5.4	5.9	4.3	3.6	2.0	1.5	1.1
2.0	1.9	2.7	3.1	2.2	5.6	6.3	5.1	3.4	2.5	1.6	0.9
0.8	0.1	2.6	3.9	4.7	5.8	6.5	3.9	4.4	2.2	0.9	0.7
0.5	-77.0	3.1	3.9	4.9	5.8	7.0	3.2	1.5	2.0	0.8	0.6
0.3	-77.0	2.3	2.6	3.2	5.3	6.7	4.5	0.7	2.5	0.9	0.7
0.9	-77.0	1.4	-77.0	3.0	-77.0	5.5	6.4	-77.0	2.3	-77.0	0.7
Jan_2008	Fev_2008	Mar_2008	Abr_2008	Mai_2008	Jun_2008	Jul_2008	Ago_2008	Set_2008	Out_2008	Nov_2008	Dez_2008
0.1	0.2	1.8	3.5	4.0	3.6	6.1	5.8	4.4	2.7	1.0	0.5
0.5	0.8	1.8	4.1	4.3	3.9	4.8	6.0	4.0	3.2	1.3	1.0

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

## ANEXO 8 – Necessidades Hídricas das Culturas

### ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.2	0.4	1.3	4.4	4.0	4.9	5.6	5.9	3.4	3.3	1.0	0.0
0.4	0.3	3.3	4.2	3.8	4.6	5.3	6.0	2.6	3.1	0.4	0.2
-0.1	0.4	3.3	3.3	3.3	4.6	5.8	5.8	1.8	2.9	1.3	0.1
0.0	1.6	2.8	3.6	2.7	5.3	5.9	4.7	3.1	2.8	0.6	0.0
0.2	1.9	2.6	1.6	1.5	5.6	5.8	5.5	3.7	0.8	0.7	0.2
0.3	1.9	2.4	0.8	3.3	5.2	5.4	5.4	4.0	2.3	1.1	0.7
0.2	2.1	2.3	1.8	2.4	5.7	5.7	5.7	3.6	3.1	1.3	1.4
0.7	2.1	0.2	1.2	2.8	5.6	5.7	5.5	3.9	4.4	1.2	1.0
0.9	2.0	1.3	3.6	3.4	5.3	3.5	2.9	3.7	2.0	0.7	0.3
0.8	2.6	2.5	2.7	3.0	6.2	5.6	4.3	4.7	0.6	1.3	0.6
0.0	2.5	2.5	2.1	2.8	5.9	5.8	5.3	3.9	1.9	1.2	0.1
0.7	2.3	2.1	3.5	2.2	5.5	6.2	5.0	4.3	2.4	1.3	0.5
0.1	1.9	2.6	3.2	1.1	4.1	6.2	5.4	3.9	2.3	1.4	1.1
1.0	1.6	2.0	2.7	4.1	3.2	6.3	1.9	3.4	2.2	1.4	0.8
0.1	0.7	0.9	1.2	4.0	5.3	6.2	4.7	2.3	1.7	1.3	0.6
0.5	-0.1	1.4	2.4	2.8	5.5	6.2	4.9	2.4	2.1	0.9	0.3
1.2	0.5	0.4	1.7	3.4	5.8	6.2	5.4	3.6	2.1	1.8	0.8
1.2	0.8	3.0	1.7	2.2	5.8	3.6	5.0	2.3	1.3	1.5	0.9
1.1	1.4	3.1	3.0	2.3	5.9	5.1	3.3	1.9	1.8	1.3	0.9
1.1	2.2	1.8	2.4	1.1	5.7	5.8	4.7	2.1	2.7	1.2	0.9
1.2	0.7	3.1	2.2	1.3	4.7	5.5	5.0	2.0	2.8	1.2	0.7
1.1	1.0	2.6	4.0	2.6	6.1	5.4	5.2	2.4	2.2	0.6	0.6
1.3	2.0	2.2	5.1	3.3	5.9	2.5	4.8	3.5	2.4	1.2	0.7
1.1	2.1	1.8	4.6	2.0	6.0	4.9	4.2	3.6	2.4	1.6	0.6
1.2	0.8	2.0	4.5	2.3	6.1	5.5	4.8	3.1	1.8	1.2	-0.1
1.2	1.4	2.4	3.4	3.5	6.3	5.8	4.7	3.2	2.4	0.2	0.0
1.2	2.1	2.9	2.4	2.9	5.8	5.7	4.1	3.6	2.0	0.1	-0.1
1.1	-77.0	2.0	3.4	2.7	6.0	5.7	3.4	3.3	0.5	0.5	0.8
1.3	-77.0	2.8	-77.0	4.0	-77.0	3.6	3.8	-77.0	0.5	-77.0	0.0
Jan_2009	Fev_2009	Mar_2009	Abr_2009	Mai_2009	Jun_2009	Jul_2009	Ago_2009	Set_2009	Out_2009	Nov_2009	Dez_2009
0.0	0.2	0.8	3.3	4.8	5.7	5.4	2.7	4.9	2.2	1.0	0.0
-0.1	0.3	1.5	3.4	5.6	5.2	6.0	5.1	4.9	2.9	1.7	0.3
0.4	0.2	2.2	3.5	5.6	4.7	5.3	5.6	5.1	2.8	1.1	0.7
0.9	0.4	1.4	3.5	5.4	4.5	5.8	5.3	5.0	3.0	1.8	0.7
0.2	0.6	2.2	3.4	5.6	1.7	3.5	5.0	4.5	1.2	0.8	0.2
0.8	0.8	1.3	2.2	5.3	2.5	5.7	5.4	4.6	1.7	0.2	0.5
0.8	0.8	2.9	3.0	4.5	3.0	5.9	5.3	4.4	2.5	1.5	0.8
0.9	0.3	2.4	3.5	3.2	3.3	5.8	5.0	4.3	1.8	0.2	0.6
0.7	0.6	2.8	2.6	2.1	3.4	5.8	5.3	3.9	2.3	1.4	0.2
0.7	1.3	2.8	3.0	2.0	3.1	5.4	5.2	3.8	2.6	1.0	0.2
0.9	1.5	2.8	3.0	2.3	5.8	5.5	5.9	3.9	3.0	1.0	0.7
0.9	1.6	3.3	3.6	2.1	6.1	5.9	5.5	2.7	3.6	1.0	0.8
0.2	1.7	3.1	1.2	2.6	5.0	5.7	3.8	3.2	4.6	0.8	1.1
0.2	1.4	3.0	1.2	4.3	1.4	5.2	5.2	3.5	3.0	0.6	1.4

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

## ANEXO 8 – Necessidades Hídricas das Culturas

### ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.0	1.7	3.0	1.3	4.9	4.1	5.7	4.8	4.1	2.9	0.9	0.8
0.5	1.8	3.5	2.1	3.7	2.7	5.9	5.3	3.8	4.2	1.0	0.1
0.9	1.7	4.8	1.1	4.4	6.1	5.9	5.3	3.3	2.9	0.9	0.5
0.0	1.8	4.5	0.7	4.9	4.0	6.1	5.4	1.5	2.3	0.4	0.2
0.4	1.3	3.3	3.5	5.0	6.3	5.9	5.3	3.1	2.0	0.5	1.2
0.5	1.6	3.2	4.0	4.5	6.5	4.5	5.5	3.7	0.9	0.5	1.0
0.7	1.7	2.9	4.1	5.0	7.0	5.0	5.4	3.5	0.4	0.2	0.4
0.0	1.9	2.6	4.6	4.0	5.7	2.3	5.2	4.1	1.9	0.7	0.4
0.4	2.0	2.3	4.8	1.8	5.7	4.7	4.9	4.1	1.0	0.8	0.5
1.4	2.0	3.6	4.1	2.5	4.2	5.4	3.8	4.2	1.1	1.1	0.4
0.7	2.0	4.2	3.1	1.6	3.5	5.7	5.4	3.6	1.3	0.0	0.1
0.8	2.2	3.7	3.8	5.2	5.0	5.7	4.7	3.6	1.9	0.4	0.8
0.2	2.4	2.8	2.7	6.2	5.0	5.9	4.9	3.4	1.7	0.2	0.3
0.1	0.4	3.9	2.9	7.6	1.7	5.6	4.8	3.6	2.1	0.2	0.1
0.3	-77.0	2.6	1.3	7.3	3.6	5.8	5.1	2.8	1.4	0.4	0.2
0.3	-77.0	3.3	1.6	6.0	4.1	5.8	4.9	2.3	1.3	0.9	0.5
1.2	-77.0	3.0	-77.0	6.5	-77.0	5.9	4.9	-77.0	1.7	-77.0	0.4
Jan_2010	Fev_2010	Mar_2010	Abr_2010	Mai_2010	Jun_2010	Jul_2010	Ago_2010	Set_2010	Out_2010	Nov_2010	Dez_2010
0.6	1.3	1.7	2.2	3.9	6.0	5.9	4.7	4.7	3.1	2.0	0.5
0.2	1.5	1.1	2.2	4.1	3.1	4.9	5.6	4.5	2.5	1.6	0.9
0.0	0.5	0.9	1.2	5.0	5.4	5.7	6.2	4.5	0.5	1.5	0.8
0.0	0.2	1.1	3.3	4.5	5.5	6.9	6.5	4.4	2.3	1.8	0.4
0.4	1.2	0.0	3.8	4.9	5.2	7.3	5.9	4.5	2.4	1.7	0.1
0.3	1.0	0.4	2.6	4.6	5.6	6.9	6.4	4.3	0.7	1.5	0.4
1.2	0.5	0.8	3.8	2.1	5.5	5.1	6.3	2.4	1.9	1.3	0.7
1.4	0.9	0.2	4.1	0.5	1.6	6.3	2.4	3.4	0.6	0.4	0.2
1.1	0.8	2.3	4.4	2.5	2.4	5.5	5.1	4.0	1.3	1.3	0.4
0.2	0.1	2.1	4.8	3.4	2.7	6.3	6.0	4.2	1.2	1.2	0.8
0.2	1.5	2.0	4.5	2.2	2.8	6.2	6.6	4.3	2.3	0.8	0.4
0.0	0.8	1.9	3.5	3.2	3.7	6.1	5.5	4.1	2.2	0.6	-0.1
0.1	1.5	2.3	1.9	3.4	4.4	5.4	5.5	4.4	2.2	0.7	0.3
1.1	1.0	2.5	0.5	2.2	5.5	5.7	5.8	3.9	1.6	0.8	0.3
0.1	0.2	2.7	2.8	4.4	6.1	6.0	5.7	1.3	1.9	1.0	1.4
0.1	0.3	2.4	2.1	4.8	5.6	6.3	5.0	3.3	1.9	0.7	1.2
0.4	0.6	2.3	1.6	5.4	5.6	6.2	3.2	3.1	2.3	1.3	0.5
0.1	0.1	1.9	2.1	5.6	4.5	6.2	4.3	3.1	2.3	0.5	0.5
0.5	1.8	1.2	2.3	6.0	4.9	5.8	5.0	3.7	2.2	0.0	0.6
0.9	1.3	1.0	3.9	6.4	5.5	6.1	5.1	3.2	2.1	1.1	0.0
0.2	1.0	2.4	3.0	6.5	6.3	5.5	5.1	3.1	2.0	0.9	0.3
0.4	1.2	2.6	3.2	5.7	6.1	5.7	5.0	2.8	1.0	0.6	0.0
0.6	0.9	2.3	3.3	5.5	5.6	6.0	2.7	1.7	1.9	0.0	1.1
1.0	1.5	1.2	3.0	5.1	5.2	6.7	5.4	3.1	1.9	0.5	0.6
1.0	1.0	1.4	4.5	1.8	5.0	6.8	5.4	3.2	1.4	0.5	0.3
1.5	0.8	1.8	4.7	3.6	5.1	7.8	5.1	3.4	2.4	0.9	0.9

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

2.4	0.8	2.5	4.1	3.6	5.7	7.8	5.3	3.2	1.6	1.2	0.3
1.6	0.5	3.1	4.7	4.9	6.1	6.4	5.0	3.1	1.1	0.7	0.7
0.8	-77.0	1.5	4.2	5.1	6.3	6.8	5.4	2.9	0.1	0.0	0.4
0.8	-77.0	1.8	3.7	5.6	6.2	6.0	5.6	3.3	0.1	0.5	0.1
0.6	-77.0	1.6	-77.0	5.8	-77.0	5.2	4.5	-77.0	0.9	-77.0	0.1
Jan_2011	Fev_2011	Mar_2011	Abr_2011	Mai_2011	Jun_2011	Jul_2011	Ago_2011	Set_2011	Out_2011	Nov_2011	Dez_2011
0.2	1.2	2.1	4.1	2.8	6.2	2.8	2.3	2.0	4.2	0.4	0.6
0.1	1.2	2.0	1.3	3.1	6.9	5.0	4.2	2.0	3.6	0.3	1.1
0.1	1.2	2.1	1.9	4.3	5.6	4.0	5.2	3.2	3.0	1.3	0.7
0.0	1.4	1.9	3.3	4.0	5.7	5.8	5.9	4.2	3.2	0.7	0.2
-0.1	1.5	1.0	4.4	3.9	3.8	5.8	5.3	4.2	3.4	1.6	0.6
0.5	1.5	1.6	5.3	3.0	2.6	5.8	3.0	4.5	3.6	1.6	0.7
0.7	1.4	2.2	4.1	3.5	4.6	5.9	5.7	4.6	3.5	0.9	0.6
0.2	1.1	0.2	4.5	3.2	5.1	5.1	6.1	4.3	4.0	0.2	0.3
0.6	1.1	1.2	3.5	4.8	2.8	4.2	6.4	4.5	3.4	0.0	0.1
0.3	1.2	2.2	4.3	5.2	5.3	5.9	6.6	2.4	3.5	0.4	-0.1
0.3	1.2	0.7	4.3	5.4	5.4	5.1	5.7	3.6	3.2	0.7	0.1
0.6	1.1	1.2	4.5	5.5	5.3	5.3	4.1	4.3	2.9	1.4	0.2
0.4	0.3	0.7	4.3	5.5	5.2	6.1	5.4	4.4	2.9	2.1	0.1
0.3	0.2	0.3	4.5	4.9	5.7	6.0	5.3	4.2	2.8	0.4	0.5
0.1	0.7	1.9	4.3	6.9	5.6	5.7	5.3	4.3	2.6	0.6	0.5
0.3	0.4	1.7	4.8	5.3	5.6	5.5	3.8	3.4	1.9	0.8	0.3
0.4	1.7	2.8	4.3	3.0	5.3	6.0	5.4	3.1	2.1	1.2	0.6
0.5	0.5	2.7	3.0	1.8	5.9	5.5	4.5	3.8	2.2	0.6	0.6
0.7	-0.1	3.2	1.5	4.4	6.0	6.1	4.8	4.9	2.3	0.1	0.6
1.1	0.9	3.3	1.1	5.3	6.0	6.1	4.0	5.3	2.7	0.5	0.6
2.0	1.3	3.2	1.3	4.8	6.0	6.1	3.2	3.7	2.9	0.5	0.5
2.2	1.7	3.3	0.5	5.2	6.1	6.1	3.2	3.5	1.6	0.2	0.6
2.2	1.9	3.5	2.8	5.1	6.2	5.7	4.2	3.7	1.3	0.9	0.5
2.6	2.0	2.0	3.6	5.6	6.3	6.1	5.2	3.2	1.3	1.2	1.0
1.9	2.2	1.6	4.2	4.7	6.5	6.1	4.1	3.4	1.2	1.1	1.0
1.5	2.2	1.0	4.6	2.3	5.6	6.0	5.0	3.5	0.4	0.9	1.0
0.0	2.4	1.2	4.5	3.4	5.7	6.2	4.8	2.9	1.4	0.9	0.8
0.6	2.0	0.7	2.9	2.8	5.5	6.4	4.8	3.0	1.8	0.9	0.7
0.6	-77.0	2.5	1.8	3.4	6.1	5.9	4.5	3.5	1.5	0.7	0.8
1.0	-77.0	2.9	1.5	2.3	6.3	5.4	3.8	3.0	1.8	0.5	0.7
0.9	-77.0	3.5	-77.0	4.5	-77.0	5.5	2.5	-77.0	1.0	-77.0	0.7
Jan_2012	Fev_2012	Mar_2012	Abr_2012	Mai_2012	Jun_2012	Jul_2012	Ago_2012	Set_2012	Out_2012	Nov_2012	Dez_2012
0.1	0.3	1.5	1.2	2.0	5.6	6.3	6.0	5.8	2.9	1.2	0.8
0.8	1.5	1.3	2.0	1.1	2.4	6.0	6.3	6.3	2.5	0.6	0.8
0.4	1.8	1.2	1.4	1.8	5.5	6.0	6.0	5.6	2.4	0.2	0.8
0.7	1.5	1.6	2.4	2.9	5.8	5.6	6.3	5.5	2.7	0.5	0.2
0.5	1.3	2.4	3.1	3.2	5.7	6.2	5.2	5.3	3.1	0.7	0.3
0.6	1.8	2.2	2.1	3.4	3.0	6.0	5.6	5.4	2.2	1.6	0.0

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.9	1.4	2.7	2.7	0.3	4.8	4.2	5.8	4.6	2.7	0.8	0.1
1.1	2.0	2.1	3.7	3.6	4.4	5.9	5.7	3.8	2.7	0.1	0.6
1.0	1.3	3.3	4.0	4.8	4.4	6.0	5.5	4.0	1.4	0.5	0.7
1.0	1.3	3.2	1.8	5.2	4.3	5.4	5.2	4.1	2.3	0.3	0.5
0.9	1.6	2.9	1.3	2.4	4.4	5.9	5.9	4.0	1.5	1.5	0.7
0.8	2.2	3.0	2.6	3.7	4.3	6.0	5.7	4.6	2.8	1.4	0.5
0.6	2.0	3.0	1.8	3.7	5.7	5.9	5.4	4.0	2.6	1.2	0.4
0.6	1.6	3.1	2.3	5.3	4.5	6.4	4.2	4.7	1.4	1.2	0.2
0.2	1.9	2.4	3.8	5.0	5.1	6.1	3.6	4.8	2.5	1.1	0.2
0.8	1.9	2.1	4.0	6.0	4.0	6.7	5.0	3.8	1.4	0.3	0.2
1.0	1.9	0.8	2.6	4.1	4.7	7.4	5.3	3.0	0.2	0.3	-0.1
1.0	1.7	2.2	1.3	4.8	4.2	7.0	4.8	3.9	-0.1	1.3	0.2
1.0	1.7	3.2	1.8	3.4	5.5	6.3	4.8	3.8	1.1	0.9	0.2
0.7	1.9	3.4	1.2	2.3	4.5	6.6	5.2	3.3	1.9	0.4	0.6
1.1	1.6	3.1	1.5	3.1	5.8	6.7	5.1	2.5	0.8	0.7	0.0
0.9	1.9	3.3	2.2	4.8	6.0	6.3	5.1	3.8	0.7	0.8	0.0
1.0	2.1	3.5	1.8	5.5	6.2	6.0	5.0	2.3	2.1	0.3	0.9
1.2	2.2	1.6	3.5	5.0	6.4	5.6	4.6	2.3	0.7	-0.1	0.8
1.1	2.1	3.7	1.2	4.4	5.9	5.9	5.2	1.1	0.5	0.1	0.8
0.4	1.8	4.4	1.0	4.4	5.0	5.4	4.9	2.5	1.1	0.6	0.6
1.5	1.8	5.0	2.1	4.4	6.4	4.4	3.8	1.9	1.8	1.1	0.6
1.3	1.6	5.2	2.3	5.5	5.6	3.9	4.0	0.7	2.5	1.1	0.8
1.2	1.8	4.7	1.9	4.9	5.0	5.9	5.2	2.9	1.4	1.1	0.3
1.2	-77.0	1.9	3.1	5.5	4.4	5.6	5.3	3.1	1.3	0.4	0.5
1.0	-77.0	1.6	-77.0	5.1	-77.0	5.5	5.2	-77.0	1.1	-77.0	0.0
Jan_2013	Fev_2013	Mar_2013	Abr_2013	Mai_2013	Jun_2013	Jul_2013	Ago_2013	Set_2013	Out_2013	Nov_2013	Dez_2013
0.7	0.4	1.8	2.9	2.7	5.8	5.7	5.8	5.9	0.5	0.9	1.8
0.6	1.8	1.5	2.4	4.4	6.2	5.4	5.3	5.8	1.1	0.6	1.3
1.1	1.2	0.5	1.5	4.4	6.5	6.1	5.5	5.7	2.4	1.7	1.5
1.2	1.3	0.9	1.0	5.0	5.6	6.9	5.8	5.1	2.1	0.5	1.3
0.9	1.3	1.4	2.9	4.8	5.2	7.1	4.9	4.4	2.3	0.6	1.2
0.6	1.6	1.1	3.5	2.6	2.6	6.8	4.7	4.2	3.1	0.6	1.1
0.1	1.5	1.5	2.4	2.5	2.1	6.9	4.7	4.3	3.0	0.7	1.2
0.4	1.6	0.6	2.4	2.1	1.3	6.7	5.9	4.6	2.8	1.3	1.0
0.0	1.4	1.7	1.1	2.0	0.9	6.9	6.9	5.0	3.5	1.1	1.1
0.4	0.2	1.2	1.1	4.9	1.0	6.7	7.1	4.7	3.5	1.2	1.3
0.4	0.9	1.4	1.6	5.1	3.7	5.1	6.7	5.0	2.9	1.6	1.1
0.6	1.3	1.8	2.4	4.9	5.3	2.7	5.4	5.7	0.8	1.7	0.9
0.6	1.9	2.5	3.7	5.4	5.8	1.9	5.2	5.5	1.3	1.7	0.1
0.9	1.0	2.4	3.9	4.8	6.1	4.9	6.1	5.0	1.2	2.2	1.0
0.8	1.5	2.4	2.9	4.4	6.1	4.8	5.6	4.4	1.0	1.6	1.1
0.0	0.8	1.0	3.8	2.4	5.4	5.0	3.8	4.3	2.0	1.3	0.9
0.1	0.0	1.0	4.2	2.8	4.1	5.1	5.2	4.1	1.6	1.2	0.0
0.4	0.7	1.7	4.4	3.2	3.5	4.9	5.3	4.4	0.9	1.1	0.1

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.7	0.6	0.2	4.6	2.4	4.8	4.7	5.8	4.2	1.5	1.0	0.5
0.1	0.8	2.2	4.9	3.3	5.7	5.7	6.8	4.8	1.4	1.4	1.1
0.8	1.3	2.3	4.4	4.2	5.2	5.5	5.8	4.9	1.0	0.7	0.9
0.6	0.7	2.1	4.3	4.7	6.1	5.3	4.7	4.3	0.9	0.2	0.8
0.3	1.4	0.9	4.7	4.8	6.2	5.9	5.0	4.1	0.7	1.2	0.2
0.5	1.8	2.1	4.5	5.3	7.3	6.0	4.9	3.1	0.3	1.5	0.0
0.3	1.8	0.6	4.6	5.4	7.6	4.4	5.4	1.9	0.2	1.6	0.5
1.0	1.9	0.8	4.2	4.5	6.8	4.7	5.0	2.7	1.6	1.6	0.5
0.7	0.8	1.4	4.5	4.3	6.5	4.5	5.4	0.6	2.0	1.6	0.3
0.8	1.4	1.2	3.7	5.5	6.5	3.7	4.9	1.1	0.4	1.4	0.8
1.1	-77.0	0.6	1.5	2.7	7.0	5.4	4.8	0.6	1.7	1.4	0.6
1.0	-77.0	3.2	2.2	5.2	7.2	6.2	5.4	0.3	2.0	1.1	0.5
1.3	-77.0	0.1	-77.0	5.4	-77.0	6.0	5.9	-77.0	1.9	-77.0	0.1
Jan_2014	Fev_2014	Mar_2014	Abr_2014	Mai_2014	Jun_2014	Jul_2014	Ago_2014	Set_2014	Out_2014	Nov_2014	Dez_2014
0.0	0.5	0.2	0.2	5.1	6.2	4.1	4.1	5.4	3.6	0.8	1.4
0.0	9.5	0.3	1.4	5.4	5.2	3.9	2.8	5.2	3.6	1.3	0.7
0.0	8.6	2.4	2.2	6.0	5.8	5.0	4.4	2.9	3.3	0.5	0.3
0.4	0.0	1.9	0.3	5.8	5.5	5.5	5.8	4.6	2.7	1.2	0.9
0.2	0.7	2.6	1.1	5.5	5.3	5.6	6.3	4.4	2.6	1.6	0.8
0.0	0.3	2.5	2.7	4.8	1.7	2.5	6.1	1.3	2.4	0.6	0.9
0.0	0.7	2.9	3.8	4.5	4.7	5.9	5.8	3.2	1.0	1.0	0.9
0.5	0.8	3.3	4.2	5.3	3.1	6.3	5.0	3.3	1.2	0.5	0.8
0.9	0.3	1.9	2.4	5.3	4.2	7.0	5.2	3.9	1.1	1.1	0.0
0.5	1.7	3.7	4.4	5.4	4.8	7.8	5.0	0.9	1.9	0.0	0.8
0.6	-0.2	3.4	2.8	5.9	6.3	7.6	5.5	2.5	1.0	0.9	0.7
0.0	0.0	3.1	2.7	5.9	7.1	7.0	5.6	3.4	0.4	0.9	0.2
0.6	1.0	2.6	3.6	5.9	6.9	6.5	5.8	3.3	0.1	0.3	0.2
0.3	0.4	2.9	1.2	6.8	7.2	6.5	5.7	2.6	1.7	0.6	0.7
0.1	1.1	3.1	4.0	6.4	8.2	6.1	6.0	2.1	0.8	0.8	0.9
0.6	1.6	3.2	3.1	5.7	7.8	6.4	6.2	1.4	1.7	0.6	1.0
0.1	0.9	3.2	3.9	6.5	6.4	5.9	6.5	2.0	1.7	0.6	0.4
0.5	0.9	3.1	1.3	5.7	3.6	4.1	5.8	2.8	1.4	0.6	0.6
1.1	2.0	2.9	1.6	2.9	5.0	3.4	4.7	2.8	2.4	-0.1	0.4
0.5	0.4	1.7	1.2	1.6	5.1	4.5	5.5	2.5	2.8	0.2	0.8
0.0	1.5	1.0	3.5	2.0	4.2	6.2	5.4	2.9	2.3	1.1	0.9
1.0	0.7	2.1	2.5	2.7	2.8	6.5	5.4	0.6	2.3	0.3	0.8
1.3	1.9	2.7	2.4	3.8	2.3	5.8	5.2	2.3	2.7	0.0	0.8
1.1	1.5	1.1	2.3	5.0	3.0	5.4	5.4	2.6	2.2	0.5	0.7
1.0	1.4	1.6	3.6	4.7	4.1	4.0	5.4	3.7	2.4	0.4	0.7
0.2	1.8	3.2	1.2	5.0	6.0	4.9	4.9	3.4	2.1	0.1	0.7
1.1	0.2	1.0	4.3	4.3	6.0	5.4	5.3	1.1	1.8	0.5	0.2
0.5	1.3	1.5	4.4	3.4	3.7	4.3	5.3	2.0	1.2	0.5	0.3
1.1	-77.0	2.4	4.7	2.8	5.7	6.1	5.4	2.4	2.1	1.0	1.2
1.0	-77.0	1.1	4.7	5.3	6.0	6.5	4.9	2.6	2.3	0.0	1.1

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

3.1	-77.0	0.7	-77.0	5.8	-77.0	4.1	4.8	-77.0	1.7	-77.0	0.9
Jan_2015	Fev_2015	Mar_2015	Abr_2015	Mai_2015	Jun_2015	Jul_2015	Ago_2015	Set_2015	Out_2015	Nov_2015	Dez_2015
0.9	1.0	1.0	4.3	2.0	5.8	3.8	5.9	4.4	3.2	1.2	0.8
0.8	0.5	1.3	4.6	4.0	5.9	6.2	6.3	4.5	3.3	0.1	1.1
1.0	0.9	2.1	3.0	0.9	6.2	6.5	5.5	4.2	2.3	0.6	1.2
0.9	1.8	3.1	4.3	1.9	6.0	6.5	6.1	4.2	1.4	0.5	0.8
0.8	1.6	4.0	4.5	3.4	6.1	6.4	6.2	3.3	1.6	0.1	1.2
0.5	0.7	3.0	1.4	4.3	6.3	6.5	6.0	4.5	1.6	1.7	1.0
0.7	1.3	2.9	4.4	5.5	5.9	6.6	6.2	4.8	2.7	1.9	0.4
0.9	1.7	2.9	1.9	3.4	3.7	6.6	5.8	4.3	2.6	1.8	0.6
1.1	2.1	2.9	0.9	4.5	3.4	6.4	6.5	3.7	2.6	1.7	0.7
1.0	1.5	2.5	1.4	5.5	4.9	6.0	6.4	4.6	0.4	1.7	0.8
0.9	1.0	2.6	3.7	5.6	1.9	6.7	4.9	4.1	1.2	1.5	0.9
1.0	1.6	2.5	4.0	5.3	3.7	6.2	4.2	3.3	0.8	1.4	0.9
0.8	0.6	3.0	4.7	4.7	2.8	6.0	4.9	1.5	1.9	0.8	0.3
0.2	0.5	3.0	3.1	5.6	2.3	6.3	5.4	3.4	2.7	1.5	0.2
0.2	0.6	2.9	1.9	6.0	3.4	6.1	5.3	0.7	2.5	1.5	1.2
0.4	1.4	3.0	2.2	6.4	5.9	6.5	4.4	2.8	1.7	1.2	0.9
0.3	3.1	0.6	3.2	7.0	6.7	4.2	5.6	3.5	1.4	1.1	0.9
0.3	2.8	1.3	2.6	5.6	7.5	6.5	5.4	3.7	0.9	1.3	1.1
1.8	2.4	2.5	3.7	5.9	7.3	6.3	5.5	4.1	1.7	1.2	0.9
0.6	0.9	3.2	4.1	5.3	7.6	6.5	5.7	4.2	2.7	1.0	0.5
0.4	2.3	2.4	3.8	6.2	6.7	6.5	5.5	4.2	2.8	2.0	0.6
0.8	2.4	1.4	3.5	6.4	5.3	7.1	4.9	4.1	2.3	0.7	0.2
0.7	0.8	2.5	4.3	6.6	5.6	6.8	3.3	3.7	0.8	1.4	0.2
1.1	1.3	2.3	0.6	5.9	6.0	5.0	4.0	3.8	0.2	0.9	0.1
1.2	1.3	3.6	1.8	6.3	6.4	6.5	5.0	3.5	1.1	1.2	1.0
1.2	1.8	1.6	2.4	6.6	6.7	6.7	4.8	3.4	1.0	1.5	1.1
1.2	2.8	3.7	3.0	6.8	7.2	7.1	3.5	3.3	0.9	1.1	1.5
1.2	1.2	3.6	3.9	6.7	7.2	7.0	5.0	3.7	1.4	1.1	0.4
0.5	-77.0	3.3	3.4	6.2	6.9	6.6	5.0	2.5	1.1	1.3	0.7
0.2	-77.0	4.1	4.6	6.0	5.9	4.8	5.1	3.0	1.1	1.3	0.3
1.4	-77.0	3.8	-77.0	6.2	-77.0	4.4	2.8	-77.0	1.0	-77.0	0.2
Jan_2016	Fev_2016	Mar_2016	Abr_2016	Mai_2016	Jun_2016	Jul_2016	Ago_2016	Set_2016	Out_2016	Nov_2016	Dez_2016
0.2	1.3	2.4	3.4	5.1	2.7	6.1	6.0	5.0	3.7	2.2	0.4
0.6	1.0	2.5	2.1	5.4	5.0	6.5	6.2	5.1	3.4	2.1	0.7
0.2	1.5	2.7	1.5	6.0	5.5	6.7	6.2	5.2	3.2	1.8	0.2
0.4	2.0	0.8	1.2	4.8	5.5	5.9	5.4	5.2	3.1	0.5	0.8
0.3	1.7	1.5	3.9	0.4	5.7	6.2	6.2	5.4	2.9	0.5	1.6
0.2	0.7	2.3	3.9	0.6	5.4	5.4	6.6	5.6	2.9	1.6	1.3
0.4	1.2	2.6	3.9	0.8	5.7	2.9	7.2	4.9	2.8	1.6	0.7
0.3	0.6	2.5	3.7	2.4	6.3	6.6	7.0	5.3	3.0	1.3	1.3
0.3	0.6	1.1	2.6	2.1	5.6	6.8	5.9	5.2	2.9	0.8	1.5
0.5	0.2	3.1	2.2	2.3	5.2	7.1	6.7	4.9	2.2	1.4	1.0



Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

1.0	1.1	2.8	2.8	1.4	6.3	6.9	7.4	4.3	1.8	0.7	1.1
0.8	0.3	2.8	2.6	1.6	6.1	6.7	6.9	4.3	0.8	0.9	1.0
1.1	0.4	2.8	3.0	2.3	4.5	6.7	6.2	3.8	1.8	1.6	0.4
0.0	1.2	2.7	1.6	3.3	4.6	7.0	5.9	3.6	2.8	2.0	0.7
1.3	1.8	0.4	1.4	4.5	3.8	7.7	5.3	2.4	1.7	2.1	0.3
1.2	2.0	2.2	2.7	4.3	3.7	7.2	4.8	4.0	1.5	1.5	0.6
0.5	0.7	2.3	2.6	4.8	4.6	6.8	5.2	4.1	2.0	1.4	1.2
0.7	1.8	0.3	2.9	5.0	5.9	6.8	5.8	4.3	2.7	0.3	1.7
0.4	1.9	1.0	1.8	5.4	6.4	6.1	3.1	4.3	2.3	0.8	1.0
0.6	2.3	1.2	2.6	5.5	6.5	6.5	6.1	3.7	1.4	0.1	0.8
0.0	2.3	1.7	2.4	3.4	6.6	6.4	5.6	3.9	0.6	1.0	0.7
0.0	2.1	1.9	2.8	5.4	6.5	6.5	5.7	3.2	1.2	0.7	0.8
0.7	1.8	2.4	3.5	3.9	5.2	6.9	5.6	3.7	1.4	1.0	0.9
1.1	0.8	3.4	4.2	2.0	5.8	7.1	4.9	3.6	1.8	0.7	0.9
-0.1	0.9	2.6	4.9	3.2	5.7	7.1	4.9	3.4	1.3	0.7	1.1
1.0	0.4	0.9	4.3	3.9	6.3	6.7	5.2	3.5	2.5	0.8	1.1
0.5	1.3	2.7	3.6	2.2	6.8	5.6	5.3	4.1	1.9	0.8	1.1
0.6	2.5	1.1	4.6	3.1	6.6	6.3	5.7	4.7	2.7	1.0	1.3
1.1	2.4	2.6	3.8	2.9	6.4	6.4	5.3	4.2	2.5	0.9	1.3
1.0	-77.0	2.3	4.9	4.0	6.1	3.8	4.9	3.5	2.4	1.3	1.2
1.4	-77.0	3.6	-77.0	5.6	-77.0	5.3	4.7	-77.0	2.3	-77.0	1.2
Jan_2017	Fev_2017	Mar_2017	Abr_2017	Mai_2017	Jun_2017	Jul_2017	Ago_2017	Set_2017	Out_2017	Nov_2017	Dez_2017
0.4	1.3	0.8	3.2	4.4	5.7	6.6	6.1	5.3	3.6	1.3	1.0
0.6	0.9	1.7	3.7	5.2	6.0	7.6	6.1	6.1	4.2	0.2	1.1
0.1	0.8	0.8	4.0	5.7	5.4	8.3	6.7	5.6	4.0	0.7	1.3
0.3	0.7	1.5	4.2	4.4	5.9	7.4	6.8	4.1	3.2	0.8	1.4
0.6	2.0	0.7	4.6	2.8	5.9	3.9	6.3	4.8	3.3	2.1	1.4
1.2	1.3	0.8	4.8	3.1	5.4	4.3	6.1	4.9	3.8	2.0	1.2
1.2	1.2	2.6	4.5	5.5	6.7	5.1	5.3	5.4	4.2	1.9	1.0
1.2	1.7	3.0	4.5	5.6	5.4	3.8	5.9	4.9	3.5	1.8	0.0
1.1	1.2	3.6	4.7	3.0	6.3	5.5	6.0	4.5	2.2	2.4	0.3
0.7	0.2	3.6	4.8	1.2	6.7	6.2	6.9	4.7	2.5	1.8	0.2
1.1	1.1	2.6	4.7	2.0	6.4	6.6	6.8	4.9	2.8	1.7	0.8
0.2	0.8	3.0	4.7	3.0	6.5	6.8	6.7	4.7	3.7	1.4	1.1
1.5	1.4	3.8	3.9	2.7	6.5	6.6	5.5	4.6	2.1	1.6	0.4
1.2	1.3	3.0	4.6	2.7	6.4	6.9	5.2	4.7	2.5	2.1	0.0
1.2	1.5	4.4	4.3	4.5	6.4	6.5	5.8	4.5	5.1	1.6	0.2
1.2	2.5	3.5	4.4	5.0	6.9	6.7	5.1	4.1	2.2	1.5	1.0
1.2	2.1	3.3	4.0	5.0	7.5	6.1	5.7	3.6	2.4	1.5	1.0
2.0	0.9	3.6	2.3	5.7	7.5	5.2	5.4	3.2	1.9	1.6	1.1
1.3	2.0	3.2	5.9	5.5	6.6	4.9	5.7	3.7	0.6	1.8	1.2
0.9	2.5	2.7	5.4	6.4	7.7	5.6	6.5	3.8	0.6	1.9	1.1
1.2	2.8	2.3	5.8	5.5	6.4	6.2	5.9	3.1	2.5	1.8	1.2
1.0	2.5	1.4	4.5	5.6	6.1	6.3	5.6	3.6	2.2	1.1	0.9

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

1.2	1.6	1.4	4.5	6.5	6.6	6.3	5.7	3.6	2.7	1.1	1.1
1.2	2.1	1.7	4.3	6.2	4.7	5.5	5.3	4.0	2.9	0.9	0.8
1.1	1.9	2.0	3.6	5.7	3.1	5.2	4.8	4.0	2.8	0.2	0.2
0.0	2.0	0.2	3.5	3.1	5.2	5.5	5.2	3.8	2.5	1.5	0.1
0.7	0.9	1.3	5.3	3.3	4.9	6.7	4.1	3.7	3.4	1.3	0.7
0.3	0.8	2.7	5.8	2.8	4.3	6.7	2.3	3.8	3.4	0.0	0.0
0.3	-77.0	3.6	3.4	3.7	4.3	6.1	3.6	3.9	3.1	0.9	0.2
0.8	-77.0	3.2	2.8	5.8	5.6	6.3	3.5	3.6	2.8	1.3	0.3
0.3	-77.0	3.6	-77.0	5.7	-77.0	3.5	4.9	-77.0	2.6	-77.0	0.5
Jan_2018	Fev_2018	Mar_2018	Abr_2018	Mai_2018	Jun_2018	Jul_2018	Ago_2018	Set_2018	Out_2018	Nov_2018	Dez_2018
0.3	1.6	0.9	2.7	3.3	4.4	3.0	5.8	5.4	3.4	1.2	0.5
0.5	1.8	0.8	1.3	1.8	4.9	2.1	5.9	4.7	4.8	0.9	0.4
0.1	1.1	0.3	1.9	3.2	2.6	3.9	6.0	2.6	3.9	0.9	0.1
0.3	1.3	0.7	2.6	4.7	2.2	4.6	6.6	2.3	3.4	0.3	1.2
0.0	1.5	1.5	3.0	4.7	2.6	5.3	6.1	2.3	3.3	0.9	0.8
1.3	1.8	1.6	1.2	4.2	3.8	5.6	5.5	3.6	3.3	0.6	0.8
0.9	1.7	1.1	1.4	3.8	1.1	5.5	5.8	3.1	3.1	1.2	0.6
1.1	1.7	0.5	1.2	3.8	2.3	4.8	5.3	3.8	3.9	0.5	0.9
-0.1	0.4	0.2	0.9	2.4	2.6	4.6	5.7	4.1	3.6	0.8	0.8
0.3	1.6	2.0	1.1	4.8	1.3	3.4	5.4	4.4	1.9	0.4	1.2
0.8	0.2	1.7	2.5	4.5	3.7	5.5	5.5	4.9	1.7	-0.1	0.1
0.5	2.0	2.2	0.9	4.4	4.3	4.2	5.3	4.7	2.3	1.0	0.3
0.5	0.9	1.5	2.0	4.5	5.3	5.0	5.3	4.6	3.0	1.2	0.8
0.6	0.8	0.2	3.2	4.7	5.4	3.7	5.3	4.4	2.1	1.5	0.4
0.9	0.5	1.7	0.6	5.2	5.2	3.2	5.3	4.2	0.8	1.3	0.1
0.0	1.6	1.8	2.7	5.5	5.9	5.4	5.0	3.8	1.8	1.2	0.8
1.1	1.3	0.9	3.8	5.1	6.1	5.6	4.2	3.8	1.5	0.8	0.7
1.3	2.3	1.9	4.4	3.1	7.2	4.5	5.6	3.8	1.8	0.0	0.0
1.1	1.9	1.4	3.7	5.1	6.8	5.1	6.1	3.8	2.1	0.3	0.5
0.8	2.1	2.9	4.2	3.4	5.5	5.6	5.7	3.8	2.6	0.7	0.4
1.0	2.7	3.4	1.4	3.8	4.4	5.6	5.6	3.9	1.7	0.8	0.7
1.1	2.4	2.7	2.2	2.4	4.5	5.7	5.5	3.8	2.0	0.4	0.8
0.7	2.4	0.6	3.9	4.1	5.9	5.3	5.0	4.0	1.9	0.7	0.8
0.6	2.4	2.0	4.5	0.2	5.3	4.1	5.0	4.2	2.2	0.6	0.5
0.6	2.4	2.8	4.1	2.7	2.0	3.3	5.0	4.4	1.8	0.2	0.8
1.3	1.7	3.1	4.3	2.9	5.0	5.7	4.8	4.3	0.8	1.3	0.8
1.4	0.8	3.4	3.6	3.8	5.3	5.7	2.1	4.0	2.5	0.9	0.0
2.0	0.6	2.3	2.1	4.4	4.5	5.5	1.9	3.6	2.3	0.9	0.7
2.6	-77.0	1.9	2.5	2.4	3.6	5.6	4.5	3.5	1.8	-0.1	0.9
2.2	-77.0	1.5	2.8	2.3	2.8	5.6	4.4	3.2	0.9	0.3	1.1
1.6	-77.0	2.8	-77.0	3.2	-77.0	5.6	4.8	-77.0	0.1	-77.0	1.0
Jan_2019	Fev_2019	Mar_2019	Abr_2019	Mai_2019	Jun_2019	Jul_2019	Ago_2019	Set_2019	Out_2019	Nov_2019	Dez_2019
0.9	0.8	2.1	1.9	4.4	6.1	5.7	6.0	4.7	3.2	0.5	0.1
0.5	1.7	2.5	2.6	4.8	6.1	3.5	5.7	5.0	3.3	1.0	1.1

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.8	1.4	2.1	3.7	5.0	5.5	5.2	5.7	5.3	3.2	1.1	0.8
0.8	1.3	1.5	2.5	5.3	3.0	4.2	5.7	5.3	3.1	0.6	0.4
0.9	1.4	0.7	1.7	4.6	4.4	5.1	5.9	6.0	3.1	1.2	0.9
0.8	1.4	1.3	1.8	2.7	2.2	4.6	4.4	6.6	3.2	0.4	0.9
1.0	1.3	0.9	0.6	1.2	4.2	4.1	2.7	5.6	3.0	1.6	0.7
1.0	0.7	2.4	2.0	2.5	4.8	4.1	3.6	5.0	3.2	1.4	0.0
0.9	1.0	2.5	2.2	0.7	5.3	5.5	3.2	3.9	3.6	0.3	0.8
1.1	0.4	2.6	2.8	3.6	5.4	6.2	4.9	4.9	3.0	0.6	0.6
1.4	1.5	2.7	3.5	5.0	5.9	6.6	4.9	5.0	2.4	0.6	0.9
1.0	1.9	2.0	3.7	6.5	5.4	3.0	5.5	5.8	2.4	1.1	0.0
1.0	1.8	3.2	2.0	6.2	5.4	3.5	5.5	4.9	2.3	0.8	0.1
0.9	2.1	2.8	1.4	5.9	3.2	5.2	5.7	4.6	1.2	0.9	0.2
0.5	1.8	2.9	2.2	5.3	5.0	5.5	6.1	3.4	1.6	1.5	0.2
0.0	2.0	3.1	3.5	4.3	5.0	3.3	5.9	3.8	1.6	1.2	-0.1
0.9	1.2	2.2	0.3	3.6	4.1	4.1	5.5	3.5	0.7	0.0	0.5
0.3	0.1	3.0	2.5	4.1	3.3	5.9	4.0	3.6	1.5	1.2	0.2
-0.1	1.1	3.1	1.5	4.7	3.2	5.7	4.5	3.0	0.6	0.1	0.2
1.7	1.5	3.3	4.2	4.6	4.0	6.3	5.5	2.0	1.7	0.2	0.0
1.0	1.7	3.1	4.1	4.2	5.8	5.7	5.6	0.8	1.7	0.4	0.6
0.4	1.9	3.2	2.8	5.0	5.3	5.1	5.8	2.3	2.2	0.6	0.6
1.1	1.8	3.3	1.5	4.7	2.4	5.0	5.6	3.2	1.1	1.1	0.1
1.7	2.2	3.5	1.2	5.6	1.4	5.9	5.5	1.4	1.7	0.5	1.2
1.2	2.3	3.9	2.9	6.3	4.4	3.8	3.6	3.3	2.2	0.6	0.9
1.3	2.1	5.1	3.5	6.0	3.2	5.4	3.3	3.5	2.2	0.1	0.5
1.6	1.6	4.9	4.3	5.4	5.4	2.7	4.7	3.6	1.4	0.5	1.1
0.8	1.7	3.7	4.2	5.9	5.7	5.6	4.3	3.0	0.2	0.5	1.1
0.3	-77.0	3.5	4.6	7.0	5.5	5.5	4.9	3.1	0.9	0.2	1.1
0.2	-77.0	3.3	4.2	7.1	4.4	6.2	5.0	3.1	0.3	0.1	0.8
0.3	-77.0	3.0	-77.0	6.2	-77.0	5.1	4.6	-77.0	0.4	-77.0	0.7
Jan_2020	Fev_2020	Mar_2020	Abr_2020	Mai_2020	Jun_2020	Jul_2020	Ago_2020	Set_2020	Out_2020	Nov_2020	Dez_2020
0.7	0.4	0.5	0.7	2.9	3.1	5.5	6.0	5.1	2.0	0.6	1.0
0.4	1.4	2.0	2.9	4.3	3.7	6.0	5.7	5.0	1.6	0.5	1.0
0.7	1.6	0.6	3.1	5.1	4.3	6.0	5.9	5.2	2.1	1.8	1.1
0.8	1.2	1.2	1.6	2.8	4.0	6.2	6.1	5.1	2.0	0.8	0.1
0.8	1.9	1.8	0.6	3.1	5.1	6.6	6.1	4.9	1.8	0.2	0.6
0.8	1.5	2.4	0.5	4.2	4.7	6.6	6.1	5.0	3.1	0.0	0.1
0.8	1.0	2.5	2.3	4.1	3.8	6.0	5.6	5.5	3.1	0.8	0.4
0.6	0.6	1.4	1.5	2.2	5.3	5.8	5.6	6.3	2.9	0.3	0.7
0.4	0.9	2.6	0.6	1.7	5.4	5.6	5.3	4.8	3.0	1.0	0.0
1.0	1.0	2.7	2.3	2.7	5.1	6.0	4.4	4.5	2.8	1.2	0.0
1.1	0.9	2.6	2.7	2.3	2.6	5.6	4.0	4.2	3.7	0.8	0.1
0.9	0.0	2.5	3.1	2.6	3.0	6.3	3.9	4.2	3.3	0.9	0.4
0.6	1.0	2.0	1.6	0.7	2.9	6.7	5.5	4.7	2.4	0.4	0.1
0.4	1.5	2.7	2.1	1.8	3.8	6.4	5.5	3.4	2.8	0.2	0.1

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.6	1.4	1.8	2.4	2.7	4.5	6.8	4.5	3.6	2.3	0.4	0.4
0.8	0.5	2.7	1.8	4.0	4.5	7.4	4.2	2.3	2.3	0.9	0.4
0.6	1.2	3.0	2.6	5.2	5.0	7.2	3.8	1.8	2.0	0.8	0.7
0.5	1.9	3.6	3.0	5.2	5.5	7.0	4.1	1.5	2.6	0.9	0.4
2.4	2.0	2.6	3.3	5.2	6.0	5.7	5.2	1.5	0.9	1.5	0.2
2.8	1.9	0.0	0.9	4.6	6.0	5.7	3.0	2.3	-0.1	1.4	0.4
1.9	2.2	1.8	2.1	4.7	6.1	5.7	3.5	2.9	1.1	1.6	0.1
0.4	2.3	2.2	2.6	5.3	6.6	6.0	5.4	2.1	1.3	1.2	0.5
0.2	2.6	2.2	2.7	5.7	6.1	6.1	5.4	1.5	1.4	1.0	0.1
0.5	2.5	2.6	3.3	5.4	4.3	6.2	5.4	1.7	0.7	0.7	0.7
0.7	1.0	3.0	1.5	5.6	4.6	6.3	5.4	3.2	0.4	0.0	1.0
0.4	2.3	2.8	1.6	6.3	5.0	5.5	5.0	3.1	1.5	0.5	1.1
0.2	2.1	2.9	2.4	6.6	4.9	5.8	5.1	3.2	0.4	0.6	0.6
0.3	2.0	3.0	2.6	6.7	6.2	5.9	5.4	2.9	0.9	0.4	0.6
0.4	1.3	2.5	1.8	6.2	6.0	5.6	5.0	3.3	1.3	0.6	0.4
0.2	-77.0	0.7	2.6	4.9	5.9	5.9	4.7	2.9	1.7	0.7	0.6
0.1	-77.0	0.6	-77.0	4.4	-77.0	6.0	5.1	-77.0	1.5	-77.0	0.1

## 2.2.7 CASTELO DE BODE

Tabela 20. Evapotranspiração de referência diária na região de cálculo de Castelo de Bode (mm)

Jan_2003	Fev_2003	Mar_2003	Abr_2003	Mai_2003	Jun_2003	Jul_2003	Ago_2003	Set_2003	Out_2003	Nov_2003	Dez_2003
0.0	1.3	0.1	3.0	3.5	3.3	4.1	6.5	3.1	1.1	1.6	0.4
0.2	1.0	0.6	2.7	3.8	3.9	3.3	3.5	3.2	2.1	0.7	1.0
0.8	0.8	1.3	4.1	4.5	1.6	5.0	5.2	2.9	1.6	0.6	0.0
0.3	0.4	2.1	4.2	3.3	2.8	5.3	5.3	3.4	2.6	0.5	0.8
0.2	1.4	1.5	3.9	3.1	4.9	4.8	5.3	3.4	3.0	0.6	-0.1
0.7	1.0	1.8	4.0	4.2	5.3	5.0	5.5	3.9	3.5	1.7	0.0
0.3	0.4	1.3	4.2	2.9	4.9	5.3	5.4	3.5	3.2	0.7	0.2
0.5	1.4	2.3	3.9	4.1	5.6	5.7	6.0	2.3	3.1	0.8	-0.1
0.7	1.0	2.3	2.7	4.0	5.3	5.7	4.9	4.0	3.4	-0.1	0.3
1.2	0.8	2.8	0.9	4.3	5.1	5.6	4.8	4.7	2.5	0.7	0.9
0.8	-0.1	2.7	2.0	4.3	5.3	4.1	5.4	5.3	0.2	0.9	0.7
0.9	0.6	1.8	0.7	4.4	6.9	2.0	6.0	5.7	1.7	0.2	0.8
1.1	1.6	2.9	0.5	4.6	6.8	1.2	5.3	5.7	1.8	0.7	0.9
1.2	1.4	2.2	1.1	5.0	5.8	3.3	5.2	5.2	1.4	0.1	0.8
1.0	1.6	2.3	1.9	4.5	4.8	3.6	3.6	5.1	0.9	0.6	0.5
1.0	1.6	2.2	2.5	3.9	2.4	4.1	3.3	4.2	1.7	1.8	0.8
0.2	1.2	1.3	2.7	4.3	4.0	5.1	4.1	4.5	1.1	1.6	0.0
0.0	0.0	2.4	1.4	4.2	6.1	5.5	4.8	4.7	0.1	1.7	0.4
0.8	0.3	2.4	1.8	3.9	8.2	5.2	4.8	4.2	1.2	1.6	0.0
0.1	0.8	3.4	1.8	5.0	6.8	5.4	4.5	2.6	0.9	1.1	0.2
0.9	0.3	3.6	3.3	6.0	5.8	5.0	4.4	2.3	1.2	0.1	0.6

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.5	0.7	2.5	2.0	6.7	3.1	5.3	5.0	2.3	1.7	0.1	1.3
1.5	0.7	1.2	1.5	6.4	4.5	5.0	5.3	3.5	1.9	0.4	1.1
1.8	0.2	1.4	2.1	4.9	3.1	5.3	3.7	3.4	1.1	0.7	1.0
1.4	0.7	0.9	0.4	4.9	5.2	4.4	4.2	3.2	0.3	1.0	0.7
1.6	0.3	0.7	3.7	5.4	4.7	4.3	4.7	2.9	0.8	0.0	0.4
1.6	1.0	1.2	3.0	6.2	5.5	5.3	2.3	2.5	0.5	0.7	0.2
1.5	1.3	1.1	1.6	6.1	4.4	5.4	1.8	2.5	1.0	0.2	0.7
1.4	-77.0	0.3	1.7	5.6	2.1	6.0	2.8	1.6	1.5	0.2	0.4
1.4	-77.0	1.1	3.1	1.6	3.8	6.2	3.0	0.2	0.4	0.2	0.6
1.6	-77.0	2.3	-77.0	4.5	-77.0	6.2	2.4	-77.0	0.7	-77.0	0.1
Jan_2004	Fev_2004	Mar_2004	Abr_2004	Mai_2004	Jun_2004	Jul_2004	Ago_2004	Set_2004	Out_2004	Nov_2004	Dez_2004
0.2	0.3	1.5	1.5	2.8	5.2	5.7	5.5	3.5	3.1	1.8	0.2
1.0	0.5	2.0	1.3	3.3	5.1	6.2	4.7	1.1	3.3	0.7	0.3
1.1	1.0	1.5	1.7	2.6	6.0	6.2	4.4	3.1	3.4	0.2	0.8
1.0	1.1	2.5	3.2	2.8	5.8	5.8	5.0	2.1	3.2	0.9	0.6
1.0	1.5	1.1	3.3	0.3	3.5	4.8	5.0	1.6	2.7	1.3	1.2
0.8	1.4	1.3	3.6	2.5	4.6	3.9	5.2	2.6	2.0	1.9	1.0
0.5	0.5	2.0	3.0	3.0	4.8	4.0	5.2	2.6	3.3	1.3	0.9
-0.1	1.2	2.3	3.1	4.0	5.5	4.8	1.3	2.4	1.8	1.6	0.9
0.3	1.4	1.3	4.3	1.2	5.5	5.3	2.2	3.4	2.0	1.6	0.9
0.4	1.8	1.3	4.0	2.5	5.2	3.9	2.7	2.8	1.1	1.8	0.9
0.5	1.8	0.4	3.6	2.8	5.1	5.6	1.8	3.2	1.0	1.8	1.0
0.7	1.6	0.5	3.5	3.5	5.4	5.8	4.3	3.7	2.0	2.0	1.6
0.4	1.4	2.7	3.9	4.7	5.8	6.8	5.0	3.3	2.2	2.1	0.7
0.4	0.9	2.9	4.0	5.1	8.2	6.3	5.1	3.0	1.2	2.1	1.0
0.2	1.3	2.9	3.7	5.1	8.0	5.5	4.0	3.6	1.0	1.6	0.9
1.0	1.0	2.7	1.8	5.7	7.1	4.9	2.7	4.4	0.9	1.4	0.9
0.6	1.2	2.2	2.1	5.3	6.6	5.5	2.6	4.4	1.0	1.5	1.0
1.4	1.5	2.2	0.9	5.8	4.5	5.7	3.2	3.6	0.3	1.4	1.2
1.7	2.7	2.6	1.3	6.0	3.8	4.2	3.4	3.9	0.1	0.8	0.5
1.2	1.6	2.8	1.3	4.6	5.1	5.6	3.8	3.7	1.4	1.3	1.3
0.8	1.6	2.4	0.4	1.9	4.0	5.2	4.7	4.3	1.3	1.1	1.2
0.7	0.3	3.1	2.9	2.9	3.9	3.9	4.1	4.2	2.2	1.2	1.3
0.5	0.0	2.8	4.5	1.9	2.6	5.1	4.2	4.5	2.1	1.3	1.0
1.3	1.1	1.3	4.5	2.2	2.7	5.8	4.6	3.1	0.8	1.3	0.9
0.6	0.1	3.6	4.7	1.9	5.6	6.7	4.6	4.1	0.5	1.2	0.7
0.1	1.6	2.9	4.9	4.1	6.0	6.5	4.8	4.7	1.2	1.2	0.7
0.1	1.3	2.7	4.7	4.4	6.2	5.9	4.4	4.3	1.0	0.8	0.9
1.4	1.0	2.4	2.9	4.3	6.2	4.5	4.6	4.3	0.6	0.5	0.2
0.5	1.3	1.5	3.8	3.5	5.9	5.4	4.5	4.3	0.8	0.3	0.9
0.1	-77.0	1.2	2.3	4.7	5.9	5.1	4.1	3.7	0.7	0.3	0.9
-0.1	-77.0	1.2	-77.0	5.3	-77.0	5.3	3.4	-77.0	0.1	-77.0	0.9
Jan_2005	Fev_2005	Mar_2005	Abr_2005	Mai_2005	Jun_2005	Jul_2005	Ago_2005	Set_2005	Out_2005	Nov_2005	Dez_2005
0.5	1.4	2.4	3.0	2.5	6.6	5.9	5.5	4.9	4.1	0.4	0.0

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.8	1.6	2.1	0.7	3.3	5.8	6.5	6.1	4.8	4.3	0.6	0.5
1.2	1.5	1.9	1.7	2.8	5.3	4.9	6.9	4.9	4.8	0.0	0.3
1.1	1.4	3.2	2.0	4.5	5.6	5.3	7.8	4.8	4.4	1.4	0.2
1.0	0.5	2.3	2.9	5.4	6.4	6.3	6.6	3.8	4.1	1.7	0.6
1.0	0.9	2.2	3.0	6.2	6.7	5.8	5.3	1.7	3.6	1.9	1.0
1.3	0.9	2.9	3.2	5.0	7.9	5.9	5.4	2.7	3.6	1.9	0.9
0.9	1.4	2.8	3.3	3.0	6.4	6.5	4.3	3.6	3.0	0.9	0.8
1.0	1.7	2.6	4.2	3.6	6.2	6.3	2.4	1.3	1.1	1.6	1.2
0.7	1.9	2.1	4.4	2.9	5.4	6.8	2.8	2.4	0.5	1.8	2.2
0.9	1.8	2.7	3.9	1.8	4.8	6.3	4.7	2.3	1.2	1.6	1.3
0.8	1.5	1.4	4.0	2.3	2.1	6.1	5.9	3.9	1.3	0.6	1.3
0.1	1.8	1.4	3.3	2.8	2.6	5.8	6.1	5.0	2.2	0.2	1.0
0.4	2.4	1.5	2.1	3.3	3.8	5.5	6.4	4.9	1.8	0.9	1.1
0.1	1.8	2.7	2.4	3.6	5.6	6.0	6.1	4.7	1.2	0.9	1.2
1.1	2.9	2.4	2.7	2.0	6.1	5.5	5.3	3.8	1.9	0.9	1.1
1.6	2.3	4.0	0.7	4.3	6.8	5.0	4.4	4.7	0.3	0.4	0.9
0.8	2.2	3.8	2.6	4.7	5.8	5.4	5.1	5.1	1.9	0.3	1.1
1.3	2.0	2.0	1.8	4.8	5.0	6.4	4.2	4.4	2.3	0.1	1.1
1.3	1.8	1.5	1.7	4.7	5.3	6.8	5.4	4.6	0.5	0.1	1.2
1.4	1.6	0.2	2.6	3.1	6.2	5.7	6.2	4.0	0.4	0.4	1.6
1.4	0.4	2.6	2.0	3.9	7.0	5.2	5.9	3.3	1.0	0.4	1.7
1.0	0.7	1.5	0.9	5.0	4.6	5.2	4.7	3.2	1.8	1.3	1.3
1.3	1.4	2.1	2.4	5.9	2.8	3.0	4.8	3.2	2.0	1.1	0.7
1.8	1.9	1.3	3.0	5.4	4.7	3.3	4.7	3.4	1.8	0.6	-0.1
1.4	1.2	1.9	4.0	5.6	4.7	3.3	4.6	3.7	3.0	0.4	0.0
2.0	1.8	2.0	4.1	2.6	4.9	3.8	4.7	3.7	0.2	0.4	0.5
1.4	3.4	0.9	4.4	3.6	3.7	4.1	4.8	3.3	0.6	0.1	0.5
1.2	-77.0	1.2	4.1	3.2	4.0	4.5	4.3	3.6	0.3	1.1	0.6
1.8	-77.0	2.7	4.5	3.8	4.9	5.5	5.5	4.5	0.0	1.1	0.2
1.7	-77.0	4.3	-77.0	4.8	-77.0	5.5	4.8	-77.0	0.6	-77.0	0.0
Jan_2006	Fev_2006	Mar_2006	Abr_2006	Mai_2006	Jun_2006	Jul_2006	Ago_2006	Set_2006	Out_2006	Nov_2006	Dez_2006
0.3	1.3	2.2	2.8	4.6	4.5	4.9	5.7	4.0	2.3	1.2	0.9
1.0	1.1	1.4	3.3	4.4	5.8	3.4	5.8	4.8	1.7	0.2	0.2
0.8	0.8	0.7	3.2	3.3	7.2	4.1	4.8	5.1	2.0	0.5	0.2
1.1	1.4	0.9	2.9	3.6	7.1	5.1	6.8	5.6	1.9	0.0	0.2
0.8	1.8	2.4	0.7	4.0	6.7	5.2	7.2	5.9	2.8	0.5	0.1
0.4	1.8	1.6	1.2	4.4	5.9	6.0	7.5	5.3	2.2	-0.1	0.4
0.6	1.7	1.7	0.8	3.6	6.0	6.3	6.4	4.6	2.0	0.8	0.0
0.8	1.6	1.8	3.2	4.1	5.3	6.1	6.8	4.4	2.6	0.9	1.0
0.9	1.1	1.1	2.3	5.0	3.7	6.2	8.0	3.8	2.4	1.0	0.8
1.0	1.5	2.2	3.2	5.3	4.2	4.9	7.2	4.3	0.7	1.7	1.1
1.1	1.8	2.1	3.9	4.6	5.7	4.9	6.9	2.3	2.3	1.7	0.9
0.9	1.8	2.8	3.9	4.3	4.7	5.8	6.2	4.0	2.7	1.4	0.8
0.6	1.7	3.0	4.4	5.1	1.5	5.1	5.8	1.4	3.2	1.4	0.8

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

## ANEXO 8 – Necessidades Hídricas das Culturas

### ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.7	1.6	3.2	0.9	4.5	2.4	6.5	4.9	2.9	3.0	1.2	0.9
0.1	1.3	2.7	1.8	4.2	3.7	6.9	4.2	3.3	1.5	0.1	0.9
0.8	1.2	0.7	2.2	5.1	3.1	6.1	2.4	3.9	0.2	0.9	0.8
0.6	0.9	0.0	2.9	4.4	1.8	6.5	3.6	3.4	1.7	0.7	0.7
1.1	1.0	0.6	3.0	5.4	5.1	3.0	3.3	4.0	1.1	0.6	0.8
1.2	0.7	1.2	3.7	5.1	3.7	4.8	3.8	3.8	0.6	0.6	0.8
1.1	0.8	1.0	2.1	4.5	5.0	5.9	5.2	3.7	0.5	0.9	0.8
1.1	1.9	1.3	2.9	3.1	5.3	5.7	6.2	1.5	0.8	0.5	0.9
0.7	2.2	0.9	1.5	4.2	5.9	6.0	6.1	2.5	0.2	0.5	0.9
1.0	1.5	0.0	3.9	4.7	4.9	5.8	5.1	2.3	1.5	0.2	0.9
0.6	1.6	1.4	4.4	5.4	4.3	5.3	5.0	1.0	0.3	0.1	0.8
1.6	0.1	1.0	4.1	5.9	3.5	6.0	5.1	1.7	0.8	0.7	1.0
1.6	1.7	2.5	4.3	6.8	3.8	5.5	5.3	3.2	0.2	0.6	1.0
1.6	2.2	2.0	4.6	6.7	4.8	5.0	5.3	2.5	1.9	0.3	1.0
1.4	2.4	2.8	5.2	6.0	4.5	5.9	5.3	1.8	2.7	0.7	0.8
0.3	-77.0	0.5	4.9	4.8	5.2	6.0	5.6	1.0	2.4	0.8	0.1
1.1	-77.0	2.7	4.9	5.5	5.1	6.0	5.6	1.5	1.0	0.7	0.1
1.3	-77.0	1.2	-77.0	5.7	-77.0	6.2	5.4	-77.0	0.8	-77.0	0.3
Jan_2007	Fev_2007	Mar_2007	Abr_2007	Mai_2007	Jun_2007	Jul_2007	Ago_2007	Set_2007	Out_2007	Nov_2007	Dez_2007
0.4	1.1	1.4	2.9	1.6	4.8	4.6	4.6	5.8	2.3	2.3	0.3
1.0	1.4	1.1	0.6	1.1	5.4	5.1	5.5	5.2	0.5	2.2	0.7
0.9	0.5	1.1	1.7	3.5	4.6	4.2	6.8	4.9	0.9	2.5	0.5
0.8	1.0	0.4	2.4	2.9	6.1	5.8	6.5	4.8	1.6	2.3	0.9
0.7	1.0	1.8	3.0	4.6	6.2	6.6	4.3	7.1	2.0	2.2	0.7
0.8	1.1	0.3	2.6	5.2	6.5	6.3	4.3	5.8	2.4	2.4	1.0
0.2	0.1	2.5	2.9	4.7	5.3	5.5	5.3	4.5	2.5	2.5	0.9
0.2	0.8	2.9	2.5	5.2	3.2	5.5	5.9	3.9	2.7	2.0	1.1
0.2	1.5	2.5	2.0	5.8	4.6	5.9	6.4	2.4	3.2	2.0	0.9
0.0	0.9	3.5	1.9	4.4	3.3	6.1	5.7	2.8	3.3	2.7	1.1
0.8	0.1	4.0	1.8	4.0	4.1	6.0	3.7	4.4	3.4	1.5	1.1
0.8	1.3	1.9	2.3	3.8	4.1	6.2	3.9	3.4	3.0	1.7	1.0
0.8	0.2	3.0	3.0	3.4	2.6	5.7	3.9	3.1	3.0	1.6	1.1
0.6	1.9	3.3	3.9	3.5	2.3	5.1	4.8	3.4	2.5	1.6	1.2
0.3	0.5	3.2	3.7	4.4	4.4	2.1	2.2	3.4	2.6	1.6	1.0
0.1	0.4	2.9	4.4	5.0	0.9	1.5	4.8	2.3	2.3	1.6	1.0
0.4	1.5	3.2	4.7	6.2	3.4	5.0	5.3	1.3	2.5	1.4	0.7
0.8	1.8	3.2	5.2	6.0	3.7	5.5	5.0	2.2	2.7	1.3	0.1
1.2	0.3	2.3	3.1	4.6	2.2	4.9	5.2	3.4	3.0	0.3	0.1
1.0	1.3	3.0	1.1	2.3	3.6	5.2	5.3	3.8	2.8	0.3	0.4
0.8	1.6	3.1	3.9	2.9	4.3	5.4	5.1	1.8	2.6	0.5	0.7
0.7	1.2	2.9	4.6	1.3	5.2	5.2	5.6	3.5	2.5	0.8	0.8
0.7	0.5	2.9	4.9	2.4	5.5	4.0	5.7	3.2	1.4	1.1	0.9
0.9	1.1	2.7	2.5	3.7	3.9	5.4	6.2	3.7	1.0	1.7	0.8
1.0	1.1	2.2	2.2	3.2	4.1	5.9	4.0	3.4	2.1	2.0	0.3

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

1.9	2.2	1.8	3.2	3.1	5.2	6.1	4.2	3.7	2.2	1.5	0.9
1.9	2.1	2.5	2.8	1.7	5.4	6.6	5.2	3.7	2.7	1.6	0.9
0.9	0.3	2.5	3.5	4.5	5.3	6.8	3.9	4.5	2.4	1.0	0.8
0.3	-77.0	2.9	3.7	4.2	5.6	7.4	2.9	1.4	2.0	0.9	0.7
0.1	-77.0	1.8	2.4	2.7	4.4	7.6	4.7	0.9	2.5	1.0	0.6
0.9	-77.0	1.3	-77.0	3.0	-77.0	5.8	6.4	-77.0	2.5	-77.0	0.8
Jan_2008	Fev_2008	Mar_2008	Abr_2008	Mai_2008	Jun_2008	Jul_2008	Ago_2008	Set_2008	Out_2008	Nov_2008	Dez_2008
0.0	0.3	2.0	3.5	3.8	3.2	5.8	5.5	4.2	2.7	0.9	0.7
0.3	0.8	1.9	4.4	4.4	3.5	4.0	5.9	3.9	3.1	1.2	1.2
0.2	0.3	1.5	4.7	4.2	4.7	5.4	5.6	2.9	3.2	1.0	0.1
0.6	0.3	3.6	4.6	3.5	3.4	4.9	6.0	1.9	3.3	0.3	0.2
-0.1	0.5	3.2	3.8	3.3	4.1	5.4	5.8	1.3	3.3	1.1	0.3
0.0	1.7	3.0	3.8	2.9	5.2	5.5	4.9	2.8	2.8	0.6	0.0
0.5	2.1	2.8	1.2	1.7	5.6	5.6	5.0	3.6	0.8	0.6	0.1
0.2	2.2	2.1	0.8	2.8	5.5	5.4	5.3	4.2	2.1	1.2	0.5
0.1	2.4	2.2	1.5	2.0	5.3	5.5	5.8	3.7	3.1	1.4	1.0
0.6	2.3	0.1	0.8	2.3	5.1	5.2	5.4	3.7	4.3	1.4	1.3
0.7	2.3	0.9	3.4	3.0	5.3	3.0	2.9	3.4	2.0	0.8	0.7
0.8	2.7	2.3	2.5	2.6	6.4	5.2	4.1	4.3	0.6	1.2	0.6
-0.1	2.5	2.7	1.7	2.6	6.2	5.7	5.3	3.9	1.9	1.3	0.4
0.5	2.3	2.3	3.6	2.0	6.0	6.3	4.6	4.5	2.5	1.5	0.8
0.0	2.0	2.3	3.3	1.3	3.8	6.6	5.2	3.9	2.4	1.6	1.2
0.7	1.7	2.0	2.7	3.9	2.6	6.7	1.7	3.2	1.8	1.5	1.1
0.0	0.9	0.9	1.1	3.7	5.1	6.3	4.4	2.3	1.6	1.4	0.9
0.8	-0.1	1.1	2.1	2.5	5.5	6.4	4.5	2.4	2.1	1.0	0.8
1.2	0.6	0.4	1.4	2.9	6.0	6.5	5.1	3.9	2.1	1.8	1.1
1.1	0.9	3.1	1.3	2.2	5.8	3.8	4.9	2.3	1.5	1.6	1.1
1.1	1.5	3.1	2.6	2.1	5.8	5.2	3.4	1.9	1.5	1.4	1.1
1.3	2.0	1.4	2.0	1.1	5.7	5.9	4.4	1.7	2.6	1.3	1.4
1.5	0.6	2.9	1.9	1.3	4.3	5.3	5.0	1.9	2.8	1.3	1.0
1.2	0.7	2.3	4.1	2.6	6.2	5.2	5.0	2.4	2.4	0.5	0.9
1.4	2.0	2.1	5.4	2.9	5.8	2.2	4.6	3.7	2.7	1.2	1.0
1.2	2.0	1.5	5.0	1.5	5.8	4.6	4.1	3.8	2.8	1.5	0.6
1.3	0.7	1.6	4.4	2.1	6.3	5.1	4.6	3.6	1.3	1.2	0.0
1.4	1.4	2.2	3.1	3.3	6.7	5.1	4.6	3.5	2.2	0.2	-0.1
1.6	2.2	2.9	2.1	2.6	6.1	5.5	4.0	3.3	1.9	0.1	0.0
1.4	-77.0	2.0	3.3	2.4	6.4	5.4	3.1	3.6	0.4	0.5	0.6
1.5	-77.0	2.6	-77.0	3.6	-77.0	4.2	3.5	-77.0	0.4	-77.0	-0.1
Jan_2009	Fev_2009	Mar_2009	Abr_2009	Mai_2009	Jun_2009	Jul_2009	Ago_2009	Set_2009	Out_2009	Nov_2009	Dez_2009
0.0	0.2	0.7	3.4	4.7	6.0	5.1	2.7	4.6	2.3	0.7	0.0
-0.1	0.6	1.4	3.3	5.7	5.2	5.7	4.8	4.6	2.9	1.5	0.3
0.3	0.2	2.2	3.3	5.9	4.4	4.8	5.5	4.8	2.9	0.9	0.5
0.9	0.5	1.0	3.3	5.7	4.3	5.5	4.9	4.7	3.2	1.7	0.7
0.2	0.6	2.0	3.3	5.8	1.7	2.7	4.0	4.6	1.4	1.0	0.2



Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

## ANEXO 8 – Necessidades Hídricas das Culturas

### ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.7	0.7	1.1	2.0	5.5	2.1	5.4	4.8	4.7	1.6	0.1	0.3
0.8	0.8	2.9	2.7	4.4	2.7	5.7	5.0	4.7	2.4	1.4	0.7
1.0	0.2	2.9	3.1	3.2	3.4	5.8	4.7	4.8	1.7	0.2	0.7
0.8	0.5	3.1	2.4	2.3	3.0	5.7	5.2	4.2	2.3	1.1	0.4
0.8	1.2	3.1	2.5	1.7	2.8	5.3	5.6	3.1	2.7	0.9	0.4
1.1	1.5	3.2	2.6	1.9	5.7	4.8	6.5	3.9	3.1	0.9	0.8
1.1	1.7	3.8	3.4	1.9	6.1	5.7	6.1	2.5	3.9	1.0	1.0
0.2	1.9	3.5	1.0	2.3	5.0	5.4	4.3	3.0	4.9	0.6	1.2
0.4	1.6	3.3	1.2	3.6	1.4	4.9	5.7	3.5	3.5	0.7	1.3
0.0	1.9	3.2	1.2	4.7	4.2	5.7	4.9	4.3	3.2	0.6	1.0
0.5	2.0	3.9	1.7	3.1	2.5	5.7	5.1	3.9	4.5	0.5	0.1
1.0	2.0	5.0	1.1	3.9	6.2	5.7	5.1	3.2	3.5	1.0	0.5
0.0	2.1	4.8	0.7	4.7	4.1	6.2	5.2	1.4	2.7	0.5	0.1
0.4	1.5	3.6	3.2	4.9	6.6	6.1	5.0	2.7	2.2	0.7	1.2
0.4	1.8	3.4	3.9	4.3	6.6	4.9	5.3	3.7	0.8	0.6	1.3
0.5	1.9	2.6	4.2	5.0	7.3	4.6	5.2	3.4	0.4	0.2	0.4
0.0	2.2	2.9	4.9	3.8	5.8	1.8	5.4	4.5	1.9	0.7	0.3
0.4	2.2	2.6	5.2	1.9	5.5	4.4	4.7	4.5	0.9	0.8	0.4
1.1	2.2	4.2	3.7	2.6	3.8	5.0	3.7	4.5	1.0	1.2	0.3
0.6	2.3	4.5	2.6	1.3	3.3	5.6	5.1	4.1	1.3	0.0	0.1
0.7	2.5	4.2	3.6	5.0	4.7	5.5	4.8	3.9	2.0	0.5	0.7
0.1	2.6	3.4	2.4	6.2	5.1	5.6	4.9	3.7	1.8	0.3	0.2
0.1	0.5	3.6	2.4	8.0	1.6	5.4	4.6	3.9	2.3	0.3	0.1
0.2	-77.0	2.7	1.1	7.8	3.0	5.5	5.4	3.1	1.4	0.4	0.2
0.2	-77.0	3.3	1.6	6.8	3.7	5.5	5.5	2.3	1.3	0.7	0.5
1.1	-77.0	3.0	-77.0	7.1	-77.0	5.7	5.2	-77.0	1.7	-77.0	0.4
Jan_2010	Fev_2010	Mar_2010	Abr_2010	Mai_2010	Jun_2010	Jul_2010	Ago_2010	Set_2010	Out_2010	Nov_2010	Dez_2010
0.5	1.4	1.6	2.2	3.4	6.0	5.7	4.5	4.7	3.2	1.8	0.5
0.2	1.7	1.3	2.0	3.8	3.2	4.7	5.2	4.0	2.5	1.6	0.9
0.0	0.8	1.0	1.3	4.7	5.3	5.4	6.5	4.5	0.4	1.6	0.9
0.0	0.2	1.0	3.3	4.5	5.2	7.0	6.8	4.4	2.1	2.0	0.5
0.4	1.0	0.1	4.0	4.9	4.7	7.6	6.0	4.5	2.4	2.0	0.1
0.3	1.0	0.7	2.8	4.6	5.2	7.3	6.8	3.9	0.4	1.7	0.4
1.1	0.5	0.6	3.7	1.7	5.2	5.3	6.9	2.0	1.8	1.1	0.6
1.4	0.8	0.1	4.4	0.6	1.3	6.0	2.6	3.2	0.4	0.3	0.3
1.1	0.7	2.3	4.8	2.6	2.0	4.8	5.3	4.1	1.3	1.2	0.5
0.3	0.1	2.2	5.2	3.3	2.4	5.9	6.5	4.7	1.1	1.2	1.1
0.2	1.6	2.2	4.8	2.0	2.5	5.8	7.1	4.7	2.3	0.8	0.6
0.0	1.0	2.0	3.6	3.0	3.5	5.8	5.0	4.5	2.4	0.6	0.0
0.0	1.6	2.4	2.2	3.3	4.3	5.2	5.5	4.8	2.4	0.8	0.5
1.0	1.1	2.6	0.7	1.8	5.3	5.2	5.9	4.2	1.8	0.8	0.5
0.0	0.3	2.9	2.7	4.2	6.0	5.8	6.0	1.4	2.1	1.1	1.6
0.1	0.3	2.5	2.0	4.7	5.5	6.0	5.2	3.2	2.1	0.9	1.3
0.3	0.5	2.5	1.6	5.6	5.5	6.2	3.8	2.9	2.5	1.2	0.8

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.1	0.3	2.0	1.9	5.9	4.4	6.1	3.8	3.3	2.5	0.6	0.7
0.5	1.7	1.1	2.1	6.3	4.0	5.6	4.9	3.9	2.5	0.1	0.6
0.9	1.2	0.9	3.7	6.7	5.3	5.7	5.1	3.3	2.4	1.1	0.1
0.2	1.0	2.4	3.0	7.0	6.4	5.0	5.3	3.0	2.4	0.8	0.2
0.3	0.9	2.4	3.1	6.2	6.1	5.5	4.7	3.0	1.2	0.7	0.0
0.7	0.8	2.4	2.9	5.6	5.4	6.1	2.3	1.9	2.0	0.1	1.0
1.1	1.3	1.3	2.9	5.0	5.0	7.0	5.2	3.0	1.7	0.7	0.7
1.0	0.9	1.4	4.4	1.9	4.9	7.3	5.6	3.3	1.4	0.5	0.4
1.5	0.9	1.6	4.9	3.1	5.0	8.2	5.2	3.6	2.6	1.0	1.0
2.0	0.6	2.5	4.6	2.9	5.5	8.3	5.2	3.2	1.9	1.3	0.5
1.6	0.6	3.2	4.9	4.5	6.0	7.0	5.1	3.3	1.5	0.9	0.6
0.7	-77.0	1.3	3.9	4.7	6.2	6.9	5.8	3.0	0.1	0.1	0.4
0.7	-77.0	1.8	3.2	5.5	6.1	6.1	6.2	3.2	0.2	0.5	0.1
0.5	-77.0	1.4	-77.0	5.8	-77.0	5.4	4.7	-77.0	0.7	-77.0	0.1
Jan_2011	Fev_2011	Mar_2011	Abr_2011	Mai_2011	Jun_2011	Jul_2011	Ago_2011	Set_2011	Out_2011	Nov_2011	Dez_2011
0.2	1.4	2.1	4.3	2.4	6.3	2.9	3.4	1.6	4.5	0.6	0.7
0.2	1.4	2.2	1.1	3.3	6.9	4.8	3.9	1.8	3.9	0.3	1.0
0.1	1.5	2.2	2.1	4.1	5.7	3.3	5.3	3.0	3.5	0.9	0.8
0.0	1.6	1.8	3.4	3.6	5.8	5.4	5.8	4.0	3.6	0.7	0.3
0.0	1.7	0.9	4.7	3.9	4.1	5.5	5.2	4.2	4.0	1.4	0.5
0.4	1.8	1.7	5.7	3.0	1.8	5.3	3.2	4.6	3.9	1.6	0.6
0.5	1.6	2.3	4.6	3.3	4.1	5.3	4.8	4.7	3.5	1.1	0.7
0.2	1.0	0.3	4.9	3.1	4.6	4.1	6.5	4.3	4.0	0.2	0.5
0.6	1.0	1.1	3.4	4.7	2.7	3.8	7.3	4.7	3.8	0.1	0.3
0.1	1.3	2.3	4.2	5.3	5.1	5.4	7.2	2.2	4.0	0.7	-0.1
0.4	1.1	1.0	4.4	5.6	5.3	4.8	6.0	3.5	3.8	0.4	0.1
0.5	1.1	1.1	4.6	5.7	5.3	5.0	5.2	4.3	3.7	1.6	0.4
0.4	0.3	0.6	4.6	5.7	4.7	5.9	5.5	4.3	3.7	2.0	0.1
0.3	0.2	0.2	4.8	5.0	5.3	5.8	5.1	4.4	3.6	0.4	0.4
0.4	0.6	1.8	4.4	7.0	5.0	5.5	5.1	4.1	3.3	0.6	0.5
0.4	0.4	1.4	5.2	5.3	5.3	4.3	3.7	3.2	2.4	0.9	0.2
0.4	1.5	2.4	4.5	2.9	4.8	5.5	5.0	2.9	2.6	1.3	0.7
0.5	0.5	2.7	3.2	1.8	5.6	4.8	4.7	3.6	2.4	0.7	0.7
0.8	0.1	3.5	1.4	4.2	6.0	5.7	5.0	4.7	2.3	0.0	0.7
1.2	0.8	3.6	0.9	5.0	5.7	6.0	4.6	5.4	2.9	0.5	0.7
2.1	1.2	3.6	1.3	4.4	6.0	5.5	3.3	3.7	3.3	0.5	0.4
2.3	1.6	3.6	0.5	5.0	6.1	5.9	3.4	3.4	2.0	0.4	0.7
2.2	2.0	3.6	2.4	5.2	6.1	5.6	3.7	3.3	1.2	1.1	0.4
2.6	2.2	1.9	3.5	5.7	6.4	6.1	4.9	3.1	1.4	1.3	1.0
2.2	2.4	1.6	4.3	5.3	7.0	5.9	3.8	3.5	1.2	1.2	1.2
1.6	2.1	0.8	4.8	2.0	5.9	5.8	4.6	3.6	0.3	1.1	1.2
0.1	2.4	1.0	4.8	3.9	5.7	6.4	4.8	3.3	1.0	1.0	1.0
0.6	2.1	0.6	3.1	3.0	4.8	6.7	4.6	3.1	1.9	1.1	0.9
0.6	-77.0	2.1	1.8	3.4	5.9	5.6	4.3	3.8	1.7	0.8	0.9

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

1.0	-77.0	2.4	1.4	2.4	6.5	5.2	3.4	3.4	2.0	0.6	0.8
1.1	-77.0	3.7	-77.0	4.2	-77.0	5.7	2.3	-77.0	1.1	-77.0	0.8
Jan_2012	Fev_2012	Mar_2012	Abr_2012	Mai_2012	Jun_2012	Jul_2012	Ago_2012	Set_2012	Out_2012	Nov_2012	Dez_2012
0.2	0.2	1.6	1.3	1.8	5.7	5.9	5.8	6.2	2.9	0.8	0.8
0.7	1.5	1.4	1.8	0.5	2.1	5.9	5.9	6.7	2.6	0.7	0.8
0.3	1.8	0.9	1.3	1.8	5.1	5.7	5.7	5.8	2.7	0.1	0.8
0.8	1.6	1.0	2.5	2.3	5.5	4.6	5.9	5.6	2.8	0.5	0.2
0.5	1.4	2.4	2.8	2.7	5.0	5.4	4.8	5.5	3.4	0.7	0.3
0.7	1.5	2.1	1.8	3.2	2.7	5.4	5.4	5.8	2.2	1.7	0.0
1.1	1.4	2.5	2.2	0.4	4.2	3.3	5.8	4.7	2.9	0.7	0.2
1.1	1.9	2.2	3.6	3.6	4.0	5.6	5.9	3.7	2.3	0.2	0.7
1.1	1.4	3.4	4.1	4.8	3.8	5.4	5.9	3.7	1.1	0.6	0.8
1.2	1.5	3.5	1.5	5.3	3.8	4.8	5.3	4.0	2.1	0.3	0.6
1.0	1.9	3.2	1.1	2.7	3.9	5.3	5.7	4.0	1.4	1.4	0.7
1.0	2.3	3.3	2.2	4.0	4.0	5.8	5.2	4.4	2.7	1.4	0.6
0.7	2.1	3.2	1.4	3.7	5.5	5.4	5.2	4.0	2.6	1.3	0.4
0.5	1.7	3.3	1.9	5.0	3.9	6.0	3.7	5.1	1.7	1.4	0.1
0.1	2.0	2.4	3.4	5.1	4.3	6.1	3.8	5.6	2.4	1.1	0.1
0.8	2.0	1.8	3.9	6.4	3.6	6.9	4.9	4.2	1.3	0.3	0.1
1.0	2.1	0.9	1.9	4.2	4.2	8.0	5.2	3.0	0.2	0.2	-0.1
1.2	1.9	2.1	1.0	4.3	3.8	7.5	4.8	3.8	-0.1	1.3	0.3
1.2	1.8	3.1	1.5	3.1	4.9	6.0	4.7	3.8	1.2	0.9	0.2
0.7	2.0	3.4	1.0	2.1	4.0	6.2	5.2	3.5	1.9	0.4	0.6
1.2	1.9	3.1	1.1	3.0	5.3	6.3	4.8	2.4	0.8	0.8	0.0
1.1	2.1	3.4	2.1	4.6	5.8	6.1	4.8	4.1	0.7	0.9	0.1
1.0	2.6	3.8	1.4	5.5	6.1	5.8	4.3	2.1	2.1	0.3	0.9
1.3	2.7	1.9	2.4	5.1	6.4	5.5	4.0	2.1	0.8	0.0	0.8
1.2	2.5	3.9	0.8	3.8	6.3	5.8	4.9	0.8	0.5	0.0	0.6
0.4	1.8	4.8	1.0	4.0	5.6	5.2	4.8	2.6	0.8	0.6	0.7
1.4	1.9	5.3	2.3	4.1	6.5	4.1	3.9	1.9	1.7	1.0	0.7
1.3	1.8	5.3	2.0	5.2	5.1	3.9	3.2	0.5	2.6	1.0	0.9
1.3	2.1	4.9	1.6	4.7	4.4	5.6	4.7	2.9	1.4	1.1	0.4
1.4	-77.0	2.2	2.8	5.3	4.2	5.5	5.0	3.2	1.0	0.3	0.4
1.0	-77.0	1.6	-77.0	5.4	-77.0	5.1	5.3	-77.0	1.0	-77.0	0.1
Jan_2013	Fev_2013	Mar_2013	Abr_2013	Mai_2013	Jun_2013	Jul_2013	Ago_2013	Set_2013	Out_2013	Nov_2013	Dez_2013
0.6	0.4	1.8	2.5	2.8	5.7	5.5	5.6	6.0	0.5	0.7	1.9
0.6	1.7	1.7	2.2	4.0	6.2	4.6	5.0	6.1	1.0	0.6	1.3
1.2	1.2	0.7	1.5	4.5	6.6	6.1	5.2	5.5	2.3	1.7	1.6
1.3	1.4	0.9	1.0	5.0	5.8	7.2	5.7	4.8	2.0	0.5	1.5
1.1	1.3	1.1	2.7	4.8	5.1	7.6	4.7	4.3	2.4	0.5	1.3
0.7	1.5	0.9	3.3	2.3	2.4	7.2	4.3	4.1	3.2	0.5	1.0
0.2	1.5	1.3	2.0	2.5	1.8	7.4	4.2	4.1	3.1	0.7	1.3
0.5	1.5	0.7	2.1	2.0	1.1	6.9	5.6	4.4	3.1	1.1	1.1
0.1	1.5	1.5	1.0	1.6	0.8	7.2	6.9	5.0	3.7	1.0	1.2

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.4	0.2	0.9	1.0	4.6	0.9	6.5	7.4	4.6	3.7	1.3	1.4
0.3	0.8	1.1	1.5	4.8	2.9	5.2	6.7	4.8	2.9	1.5	1.3
0.5	0.8	1.5	2.2	4.9	5.1	2.7	5.2	5.4	0.7	1.7	1.0
0.5	1.5	2.3	3.7	5.6	5.4	2.5	5.2	5.3	1.2	1.6	0.1
0.9	1.2	2.4	3.9	4.2	5.5	4.9	6.1	4.9	1.1	2.0	1.0
0.7	1.6	2.4	2.9	3.9	5.6	4.8	5.5	4.4	0.8	1.5	1.2
0.0	0.6	1.2	3.8	2.1	4.9	4.6	3.1	4.3	1.9	1.3	1.0
0.0	0.0	0.9	4.1	2.4	3.3	5.0	5.0	4.4	1.6	1.2	0.0
0.3	0.4	1.6	4.4	2.9	3.4	4.9	5.1	4.4	0.7	1.0	0.1
0.5	0.5	0.3	4.4	2.4	3.7	4.6	5.8	4.4	1.3	0.8	0.4
0.0	0.7	2.2	4.7	3.3	5.3	5.4	7.0	4.8	1.5	1.3	1.1
0.7	1.1	2.4	4.4	4.1	4.6	5.4	5.7	4.7	0.8	0.7	1.0
0.6	0.7	2.0	4.4	4.6	5.8	5.2	4.7	4.3	0.9	0.2	0.8
0.2	1.3	1.1	4.6	4.8	5.8	5.7	4.7	4.1	0.7	1.4	0.1
0.4	1.8	1.9	4.8	5.2	7.2	5.8	4.8	3.2	0.2	1.4	0.0
0.2	1.8	0.4	4.6	5.2	7.7	3.8	5.3	1.5	0.3	1.5	0.6
0.9	2.0	0.6	3.8	4.0	7.2	4.6	4.9	2.4	1.6	1.7	0.5
0.4	0.8	1.1	4.2	4.2	6.7	4.0	5.5	0.6	2.0	1.7	0.2
0.7	1.5	0.9	3.5	4.8	6.7	3.6	5.2	1.2	0.2	1.5	0.7
1.1	-77.0	0.4	1.6	2.0	7.4	5.3	4.6	0.5	1.5	1.5	0.7
1.1	-77.0	2.9	2.0	4.9	7.5	6.1	5.5	0.2	1.9	1.1	0.4
1.4	-77.0	0.1	-77.0	5.2	-77.0	5.7	6.1	-77.0	1.9	-77.0	0.1
Jan_2014	Fev_2014	Mar_2014	Abr_2014	Mai_2014	Jun_2014	Jul_2014	Ago_2014	Set_2014	Out_2014	Nov_2014	Dez_2014
0.0	0.8	0.2	0.1	4.9	5.1	4.4	4.0	5.5	3.6	0.8	1.5
-0.1	5.1	0.3	1.4	5.3	4.9	4.1	3.3	5.2	3.4	1.2	0.9
0.0	4.8	2.3	1.9	5.7	5.6	4.8	4.3	2.6	3.3	0.4	0.6
0.4	0.0	1.5	0.3	5.5	5.0	4.6	5.3	4.5	2.8	1.0	1.0
0.4	0.8	2.2	1.0	5.1	5.0	5.0	5.9	4.4	2.4	1.6	0.8
0.1	0.3	2.0	2.5	4.8	1.3	2.4	5.8	1.4	2.1	0.5	1.1
0.0	0.7	2.3	3.6	4.3	3.9	5.6	5.2	3.0	1.1	0.8	1.0
0.6	0.9	2.7	4.0	5.0	3.6	6.0	4.2	3.0	0.9	0.5	1.0
0.9	0.3	2.0	2.6	5.0	4.0	7.0	4.6	3.8	1.4	1.1	0.4
0.6	1.7	3.6	4.3	5.1	4.6	7.4	4.6	1.0	1.9	0.0	1.0
0.6	-0.1	3.3	2.3	5.7	6.0	7.4	5.1	2.1	1.0	0.7	0.9
-0.1	0.0	3.0	3.0	5.6	7.1	6.6	4.7	2.9	0.2	0.9	0.2
0.8	1.1	2.5	3.7	5.7	6.7	6.2	5.6	2.8	0.2	0.2	0.1
0.4	0.3	2.8	1.4	6.3	7.2	6.3	5.7	2.1	1.5	0.5	0.5
0.1	1.2	3.0	4.1	6.2	8.0	6.1	5.8	1.9	0.6	0.7	0.9
0.7	1.6	3.3	2.7	5.9	8.0	6.4	6.1	1.2	1.6	0.6	0.6
0.1	0.7	3.1	3.7	6.2	6.2	5.6	6.8	1.9	1.3	0.6	0.6
0.2	1.2	3.1	1.3	5.4	3.5	3.6	5.7	2.3	1.2	0.6	1.0
1.2	1.9	2.8	1.6	2.8	4.8	3.5	4.7	2.7	2.6	-0.1	0.8
0.7	0.4	1.9	1.3	1.3	4.8	4.6	5.4	2.3	2.9	0.2	0.9
-0.1	1.5	0.8	3.1	1.6	3.7	5.8	5.2	2.6	2.5	1.1	1.0

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

1.0	0.7	2.2	2.3	2.6	2.5	6.2	5.3	0.8	2.6	0.2	0.9
1.6	1.8	2.1	2.4	3.8	2.5	5.6	5.1	2.0	2.9	0.0	0.6
1.2	1.5	1.2	2.0	4.7	2.9	4.7	5.3	2.6	2.3	0.6	0.8
0.8	1.4	1.8	3.2	4.3	4.2	4.0	5.4	3.8	2.5	0.4	0.8
0.2	1.6	3.0	1.1	4.7	5.7	4.8	4.3	3.7	2.3	0.1	0.8
1.2	0.1	1.1	4.2	3.8	5.7	5.4	5.2	1.4	1.9	0.4	0.4
0.5	1.1	1.2	4.1	2.8	3.1	4.3	5.2	2.0	1.3	0.6	0.2
1.3	-77.0	2.1	4.5	2.4	5.1	6.2	5.2	2.6	2.2	1.0	1.3
1.1	-77.0	0.8	4.4	4.9	5.8	6.5	4.7	3.0	2.4	0.1	1.3
1.8	-77.0	0.3	-77.0	5.8	-77.0	4.3	4.8	-77.0	1.8	-77.0	1.1
Jan_2015	Fev_2015	Mar_2015	Abr_2015	Mai_2015	Jun_2015	Jul_2015	Ago_2015	Set_2015	Out_2015	Nov_2015	Dez_2015
1.1	0.8	1.1	4.4	1.4	4.8	3.9	5.6	3.8	3.2	1.2	1.0
1.0	0.2	1.8	4.4	3.8	5.4	5.8	6.0	3.8	3.2	0.1	1.2
1.2	0.7	2.1	2.8	0.9	5.8	6.2	5.2	3.7	2.2	0.5	1.4
1.1	1.7	3.0	4.4	1.6	5.6	6.1	5.8	3.9	1.1	0.4	0.9
1.0	1.6	4.0	4.3	2.9	5.6	5.9	6.1	3.4	1.2	0.1	1.3
0.8	0.7	3.1	1.6	4.0	6.0	6.4	5.9	4.2	1.2	1.2	1.0
1.0	1.3	3.2	4.0	5.2	5.6	6.4	5.9	4.8	2.6	1.9	0.3
1.0	1.6	3.2	1.7	2.8	4.1	6.3	5.9	4.2	2.6	1.8	0.6
1.3	2.0	3.1	0.9	4.4	3.8	6.2	6.6	3.1	2.6	1.8	0.7
1.3	1.6	2.6	1.3	5.1	4.6	5.6	6.2	4.2	0.4	1.8	0.9
1.0	0.8	2.7	3.5	5.4	1.6	6.1	4.4	3.9	0.9	1.7	0.8
1.1	1.4	2.2	3.9	5.2	3.5	5.5	3.8	3.1	0.6	1.5	0.8
0.7	0.6	3.0	4.4	4.6	2.5	5.7	3.8	1.2	1.8	1.1	0.2
0.3	0.4	3.0	3.0	4.8	2.2	5.9	4.7	3.2	2.7	1.7	0.1
0.2	0.5	2.9	1.5	5.5	3.4	5.8	4.5	0.5	2.7	1.6	1.0
0.3	1.1	2.9	2.0	6.0	5.4	6.4	3.6	2.2	1.9	1.3	1.1
0.3	2.9	0.3	3.0	6.7	6.4	4.0	4.7	3.1	1.1	1.2	1.0
0.2	2.5	0.9	2.2	5.4	7.2	5.8	5.0	3.7	0.8	1.3	0.9
1.7	2.2	2.5	3.3	5.2	7.2	5.7	5.4	4.2	1.8	1.3	0.9
0.5	0.9	2.8	3.9	4.9	7.7	6.0	5.9	4.4	2.4	1.2	0.4
0.4	2.0	2.0	3.6	5.7	6.3	5.6	5.2	4.2	2.8	1.8	0.8
0.6	1.8	1.2	3.4	6.1	4.8	6.5	4.0	3.9	2.4	0.5	0.5
0.7	0.6	2.1	4.2	6.2	4.9	6.4	2.8	3.6	1.1	1.4	0.3
1.2	1.1	2.3	0.6	5.8	5.5	4.3	3.7	3.8	0.1	1.0	0.1
1.4	1.3	2.6	1.6	5.9	5.9	6.1	5.0	3.5	1.2	1.1	0.9
1.4	1.4	1.0	1.9	6.4	6.4	6.3	4.4	3.2	0.9	1.5	1.0
1.4	2.6	3.2	2.6	6.6	7.0	6.7	3.7	3.3	0.9	1.3	1.3
1.4	1.2	3.9	3.5	6.6	7.0	6.6	4.9	3.7	1.2	1.2	0.2
0.3	-77.0	3.0	2.8	5.8	6.7	5.7	5.0	2.5	0.9	1.5	0.5
0.1	-77.0	3.9	4.1	5.5	5.5	4.0	5.0	3.1	0.9	1.6	0.2
1.1	-77.0	3.8	-77.0	5.5	-77.0	3.6	2.3	-77.0	1.0	-77.0	0.1
Jan_2016	Fev_2016	Mar_2016	Abr_2016	Mai_2016	Jun_2016	Jul_2016	Ago_2016	Set_2016	Out_2016	Nov_2016	Dez_2016
0.0	1.7	2.6	3.3	5.0	5.2	5.3	5.6	4.9	3.5	2.3	0.4

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.5	1.5	2.0	1.9	5.4	4.8	6.1	5.8	5.0	3.3	2.0	0.7
0.1	1.7	2.7	1.2	6.0	5.1	6.5	5.4	5.4	3.3	1.8	0.2
0.2	2.0	0.8	1.0	4.9	5.1	5.3	4.2	5.5	3.2	0.6	0.7
0.4	1.6	1.4	3.3	0.4	5.2	5.7	5.8	5.7	3.0	0.5	1.6
0.1	0.7	1.9	3.7	0.4	4.8	4.8	6.7	6.0	3.0	1.6	1.3
0.2	1.1	2.2	3.7	0.6	5.4	2.8	7.5	4.5	2.8	1.6	0.8
0.1	0.6	2.5	3.4	2.1	6.0	6.3	7.1	4.8	2.9	1.3	1.4
0.2	0.3	0.8	1.9	1.7	5.0	6.8	5.9	4.8	2.8	0.8	1.6
0.3	0.1	2.8	2.0	2.1	4.3	6.5	6.4	4.6	2.3	1.4	0.9
0.8	0.7	2.8	2.5	1.0	5.7	6.3	7.1	4.2	1.8	0.7	1.2
0.7	0.1	2.9	2.4	1.5	5.6	6.1	7.0	4.1	0.7	0.8	1.1
1.0	0.2	2.9	2.7	1.8	3.6	6.4	6.5	3.4	1.5	1.6	0.6
0.5	1.0	2.8	1.1	2.5	3.9	6.8	5.7	3.3	2.6	2.0	0.6
1.2	1.8	0.4	1.2	4.0	3.1	7.3	4.8	2.0	1.6	2.2	0.3
1.2	1.9	2.2	2.4	3.9	3.0	7.1	4.5	3.8	1.4	1.8	0.4
0.5	0.6	2.3	2.4	4.1	4.1	6.8	4.3	4.0	1.6	1.5	1.1
0.6	1.7	0.3	2.9	4.2	5.4	6.4	5.4	4.4	2.5	0.3	1.7
0.4	2.0	0.9	1.5	4.9	6.0	5.9	2.4	4.4	2.1	0.8	1.1
0.3	2.4	1.1	2.4	5.2	6.1	6.0	5.5	3.6	1.3	0.0	1.0
0.0	2.5	1.6	2.0	2.8	6.4	5.9	5.5	3.6	0.7	0.9	0.8
0.0	2.2	2.0	2.8	4.8	5.9	5.6	6.1	2.9	1.0	0.8	0.9
0.5	1.5	2.4	3.3	3.8	4.9	6.6	5.4	3.7	1.3	1.1	1.0
0.9	0.6	3.3	3.9	1.9	4.7	6.9	4.6	3.4	1.6	0.7	0.9
-0.1	0.8	2.2	4.6	3.0	5.1	7.0	4.5	3.2	1.3	0.5	1.2
0.9	0.3	0.7	3.9	3.9	6.0	6.5	4.9	3.4	2.7	0.7	1.2
0.4	1.1	2.7	2.9	2.5	6.4	5.6	4.8	4.1	2.2	0.7	1.3
0.6	2.2	0.8	4.2	2.7	6.4	6.2	5.2	4.8	2.8	1.0	1.6
1.1	2.5	2.4	3.5	2.4	5.9	6.0	5.0	4.5	2.5	0.9	1.5
1.0	-77.0	2.1	4.5	3.5	5.5	3.5	4.7	3.6	2.7	1.2	1.4
1.1	-77.0	3.2	-77.0	5.1	-77.0	5.1	4.3	-77.0	2.7	-77.0	1.4
Jan_2017	Fev_2017	Mar_2017	Abr_2017	Mai_2017	Jun_2017	Jul_2017	Ago_2017	Set_2017	Out_2017	Nov_2017	Dez_2017
0.6	1.1	0.6	2.8	4.1	4.9	6.0	5.5	5.2	3.6	1.4	1.0
0.5	0.7	1.5	3.5	5.0	5.4	7.3	5.8	5.9	4.5	0.2	1.1
0.1	0.6	0.6	3.8	5.7	4.6	8.2	6.2	5.4	3.9	0.6	1.4
0.3	0.5	1.5	4.0	4.3	5.1	7.3	6.4	3.5	3.1	0.7	1.5
0.8	1.9	0.5	4.6	2.5	5.2	3.3	5.3	4.3	3.4	1.8	1.4
1.3	1.5	0.6	4.7	3.0	4.8	3.5	5.7	4.8	4.3	2.0	1.3
1.5	1.3	2.5	4.6	5.2	6.4	3.7	4.6	5.5	4.4	1.9	1.1
1.4	1.8	3.1	4.6	5.5	5.1	2.5	5.2	4.5	3.9	1.7	0.0
1.3	1.3	3.9	4.7	2.7	5.7	4.4	5.5	3.8	2.5	2.2	0.2
0.7	0.2	3.9	4.8	1.0	6.2	5.4	6.4	4.4	2.8	1.8	0.1
1.2	1.1	2.4	4.9	1.6	5.9	6.0	6.7	4.6	3.5	1.7	0.7
0.2	0.7	2.7	4.7	2.7	6.1	6.4	6.8	4.4	3.9	1.4	1.0
1.5	1.3	3.6	3.5	2.5	6.1	6.2	5.7	4.3	2.3	1.6	0.2

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

## ANEXO 8 – Necessidades Hídricas das Culturas

### ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

1.3	0.9	2.8	4.1	2.3	6.0	6.3	5.0	4.3	2.9	2.1	0.0
1.4	1.6	4.2	4.0	4.2	5.5	6.1	5.1	4.2	5.4	1.8	0.2
1.3	2.6	3.6	4.1	4.8	6.5	6.4	5.2	4.0	2.2	1.7	1.0
1.4	2.3	3.5	4.0	4.3	7.3	5.6	5.5	3.5	2.2	1.6	1.1
2.1	0.8	3.9	2.4	5.0	7.4	4.5	5.3	2.8	1.7	1.8	1.2
1.4	2.1	3.0	5.6	5.0	6.3	3.8	5.7	3.5	0.5	2.0	1.3
1.1	2.6	2.3	4.9	6.1	7.4	5.0	6.6	3.7	0.5	2.2	1.3
1.3	3.0	2.2	5.5	5.6	5.9	5.7	5.9	3.0	2.2	2.0	1.2
1.2	2.8	1.2	4.5	5.2	5.3	5.7	5.3	3.3	2.3	1.4	1.0
1.4	1.7	1.2	4.4	6.3	6.1	5.8	5.4	3.5	2.7	1.1	1.1
1.4	2.1	1.5	3.9	6.3	4.2	5.0	4.9	3.9	3.0	0.6	0.9
1.2	1.8	1.7	2.9	5.5	2.8	5.4	4.7	3.6	3.0	0.2	0.2
0.0	1.8	0.2	3.3	2.5	4.4	5.7	4.8	3.7	2.7	1.5	0.1
0.6	0.7	1.1	5.0	2.9	4.1	6.1	3.6	3.8	3.6	1.4	0.7
0.4	0.6	2.6	5.6	2.5	3.7	6.1	2.0	3.8	3.5	0.0	0.0
0.2	-77.0	3.6	3.1	3.1	3.7	5.6	3.2	3.8	3.3	1.0	0.1
0.6	-77.0	3.1	2.5	5.1	5.0	5.8	2.8	3.2	2.9	1.3	0.4
0.2	-77.0	3.3	-77.0	5.0	-77.0	3.1	4.6	-77.0	2.8	-77.0	0.5
Jan_2018	Fev_2018	Mar_2018	Abr_2018	Mai_2018	Jun_2018	Jul_2018	Ago_2018	Set_2018	Out_2018	Nov_2018	Dez_2018
0.3	1.5	0.6	2.8	3.3	3.6	2.5	5.8	5.9	3.7	1.2	0.5
0.3	1.6	0.6	1.2	1.8	4.1	1.7	6.4	4.9	5.1	0.6	0.4
0.0	1.0	0.3	1.7	3.1	2.2	3.9	6.5	2.4	4.5	0.7	0.0
0.2	1.2	0.7	2.1	4.6	1.7	4.2	6.8	2.2	4.0	0.2	1.2
0.0	1.5	1.1	2.9	4.8	2.0	5.0	6.2	2.5	3.8	0.8	0.8
1.2	1.7	1.5	0.8	4.5	3.2	4.8	5.1	3.6	3.5	0.4	0.8
0.9	1.7	1.1	1.3	3.7	1.0	4.7	5.3	3.2	3.2	1.2	0.4
1.1	1.6	0.4	1.0	2.9	2.0	4.6	4.4	3.7	4.1	0.4	0.9
-0.1	0.4	0.1	0.7	1.8	2.3	4.4	5.1	4.0	3.8	0.7	0.8
0.3	1.6	1.7	0.9	4.6	0.9	3.4	5.2	4.5	2.2	0.3	1.7
0.8	0.2	1.3	2.2	4.0	3.3	5.1	5.4	5.2	1.9	-0.1	0.2
0.6	1.8	2.0	0.7	3.7	3.3	3.6	4.9	5.0	2.2	1.0	0.3
0.4	0.7	1.6	1.8	3.9	4.8	4.7	4.8	4.8	3.1	1.2	0.7
0.5	0.6	0.2	2.9	4.0	4.8	3.5	5.1	4.4	1.8	1.6	0.4
1.0	0.4	1.3	0.6	5.1	3.7	3.1	5.3	4.3	0.6	1.3	0.1
0.0	1.4	1.6	2.7	5.6	5.1	4.8	4.7	3.9	1.7	1.3	0.6
1.0	1.3	0.8	3.8	4.9	5.8	5.2	4.3	4.1	1.3	0.8	0.7
1.2	2.3	1.8	4.6	2.9	7.1	3.7	5.7	3.7	1.7	0.0	0.0
1.0	1.7	1.3	3.8	5.0	6.7	4.3	6.3	3.9	1.8	0.4	0.4
0.6	2.2	2.6	4.5	3.6	5.5	4.8	6.1	3.4	2.5	0.5	0.3
0.7	2.6	3.2	1.4	3.6	4.0	5.2	5.7	3.9	1.6	0.7	0.6
1.1	2.5	2.7	2.2	2.9	4.4	5.3	5.4	3.9	1.9	0.5	0.7
0.8	2.6	0.4	3.8	4.3	5.6	4.8	4.8	4.2	2.2	0.6	0.8
0.7	2.6	1.8	4.5	0.1	5.1	3.6	5.0	4.5	2.4	0.5	0.7
0.5	2.6	2.5	3.7	2.6	3.3	2.4	4.8	4.8	2.0	0.2	0.9

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

1.1	2.0	3.0	4.1	2.6	4.7	5.2	4.9	4.5	1.1	1.2	0.9
1.3	0.6	3.3	2.7	3.0	4.9	5.1	2.0	4.1	2.3	0.9	0.0
1.9	0.4	1.9	2.0	3.7	4.2	5.1	1.4	3.7	2.1	0.9	0.7
2.6	-77.0	1.8	2.1	2.1	3.3	5.3	4.1	3.4	1.6	-0.1	1.0
2.3	-77.0	1.3	2.4	1.7	2.1	5.0	4.5	3.1	0.7	0.4	1.2
1.7	-77.0	2.7	-77.0	2.5	-77.0	5.2	5.2	-77.0	0.1	-77.0	1.2
Jan_2019	Fev_2019	Mar_2019	Abr_2019	Mai_2019	Jun_2019	Jul_2019	Ago_2019	Set_2019	Out_2019	Nov_2019	Dez_2019
1.0	0.6	2.4	1.8	4.2	6.5	5.4	5.6	4.4	3.0	0.3	0.1
0.6	1.5	2.9	2.9	4.8	6.2	3.2	5.3	5.0	3.2	0.7	1.2
0.9	1.4	2.0	3.4	5.0	5.1	5.1	5.4	5.6	3.1	1.1	0.9
0.9	1.4	1.4	2.2	5.5	2.9	3.8	5.3	5.5	2.8	0.4	0.6
1.0	1.5	0.3	1.4	4.6	4.0	4.8	5.6	6.1	3.0	1.0	0.9
1.0	1.5	1.1	1.5	2.7	1.9	4.3	3.7	6.3	3.2	0.4	0.9
1.2	1.2	0.7	0.5	1.1	4.0	3.9	2.4	5.8	3.0	1.4	1.0
1.2	0.6	2.3	1.8	2.7	4.6	3.8	3.3	5.2	3.2	1.3	0.0
1.1	0.8	2.7	1.9	0.6	5.0	5.5	3.3	3.7	3.3	0.2	1.1
1.2	0.2	2.9	2.4	3.6	5.1	6.3	4.6	4.5	3.0	0.4	0.9
1.5	1.5	3.0	3.2	5.0	5.3	6.9	4.4	5.0	2.6	0.4	1.1
1.0	2.1	2.8	3.6	6.8	5.2	3.1	5.2	5.8	2.2	0.9	-0.1
1.0	2.0	3.3	1.6	6.6	5.2	3.4	5.3	5.0	2.1	0.7	0.1
0.9	2.2	3.3	1.4	6.2	2.9	5.1	5.5	4.3	1.1	0.7	0.2
0.6	1.9	3.5	1.9	5.3	4.7	5.0	5.7	3.3	1.6	1.3	0.1
-0.1	2.2	3.6	3.3	3.4	4.7	3.2	5.4	3.7	1.4	1.2	-0.1
0.8	1.5	2.2	0.3	3.3	3.8	3.7	5.3	3.7	0.6	0.0	0.6
0.3	0.0	3.4	2.2	3.7	2.6	5.5	3.1	3.4	1.4	1.1	0.1
-0.1	1.3	3.5	1.5	4.5	2.6	5.4	3.9	2.9	0.5	0.1	0.1
1.4	1.5	3.6	4.2	4.4	3.3	5.7	5.3	1.9	1.5	0.2	0.0
1.0	1.8	3.4	4.3	3.9	5.4	5.5	5.7	0.6	1.7	0.4	0.5
0.2	2.1	3.5	2.6	4.7	5.1	5.0	6.0	2.2	2.2	0.5	0.5
0.7	2.0	3.7	1.3	4.2	1.8	4.7	5.8	3.1	1.0	0.9	0.0
1.1	2.6	3.9	1.0	5.3	1.3	5.6	5.2	1.4	1.6	0.5	1.2
1.2	2.6	4.2	2.5	6.0	3.8	3.1	3.1	3.1	2.3	0.4	1.0
1.5	2.7	4.4	3.1	5.8	2.6	4.9	3.1	3.4	2.3	0.1	0.5
1.3	1.9	4.8	4.2	4.9	5.1	2.4	4.4	3.5	1.4	0.4	1.3
0.6	2.0	4.0	4.3	5.8	5.5	5.2	3.9	2.9	0.2	0.4	1.5
0.2	-77.0	3.9	4.5	7.1	4.9	5.0	4.7	3.1	0.8	0.1	1.4
0.2	-77.0	3.6	4.0	7.4	4.0	5.8	4.9	3.1	0.2	0.0	0.9
0.2	-77.0	3.1	-77.0	6.7	-77.0	4.7	4.2	-77.0	0.2	-77.0	0.7
Jan_2020	Fev_2020	Mar_2020	Abr_2020	Mai_2020	Jun_2020	Jul_2020	Ago_2020	Set_2020	Out_2020	Nov_2020	Dez_2020
0.8	0.3	0.3	0.6	2.3	3.1	4.9	5.6	5.0	1.8	0.5	1.2
0.3	1.4	1.7	2.8	4.1	3.6	5.7	5.3	5.2	1.4	0.3	1.2
0.8	1.6	0.5	3.2	5.3	3.7	5.7	5.5	5.6	2.0	1.7	1.1
0.7	1.1	1.0	1.7	2.6	3.9	6.1	5.9	5.4	1.9	0.9	0.1
0.8	2.2	1.4	0.4	3.0	4.9	6.8	6.0	5.0	1.6	0.3	0.5



Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

### ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.8	1.6	2.1	0.4	4.1	4.1	6.6	5.9	5.2	2.8	0.0	0.1
0.8	1.0	2.5	2.2	4.1	3.6	5.9	5.3	5.7	3.0	0.7	0.3
0.8	0.5	1.3	1.5	1.8	5.1	5.5	5.3	6.4	2.8	0.2	0.6
0.3	0.8	2.4	0.5	1.5	5.2	5.4	4.9	5.2	2.8	0.8	0.0
1.0	1.0	2.7	1.8	2.4	4.8	5.7	3.5	4.9	2.9	1.2	0.0
1.2	1.1	2.9	2.4	2.0	2.1	5.6	3.4	4.4	3.6	0.9	0.0
0.9	0.0	2.4	2.6	2.5	2.7	6.4	3.9	4.5	3.3	1.0	0.3
0.6	0.9	1.9	1.4	0.7	2.6	6.8	5.3	4.5	2.0	0.6	0.1
0.4	1.5	2.7	2.1	1.9	3.2	6.4	5.2	3.3	2.6	0.3	0.0
0.4	1.4	1.6	2.0	2.4	4.2	7.0	4.2	3.5	2.3	0.3	0.4
0.6	0.4	2.3	1.5	3.9	4.2	7.8	3.6	2.6	2.3	1.0	0.2
0.6	1.2	3.1	2.3	5.2	4.5	7.6	3.3	1.9	2.0	0.9	0.8
0.3	1.8	3.6	3.0	5.1	5.1	7.3	3.9	1.4	2.5	1.0	0.5
2.2	2.0	2.5	2.9	5.1	5.6	5.6	5.2	1.2	0.8	1.7	0.3
2.5	2.0	0.0	0.9	4.1	5.7	5.5	2.1	2.1	-0.1	1.4	0.4
1.7	2.4	1.6	1.8	4.4	5.7	5.4	3.3	2.7	1.0	1.8	0.0
0.5	2.5	2.2	2.2	5.1	6.4	6.2	5.2	1.9	1.3	1.4	0.5
0.1	2.9	2.2	2.7	5.5	5.7	5.9	5.2	1.4	1.4	1.1	0.0
0.5	2.7	2.6	2.9	5.3	3.3	5.9	5.4	1.7	0.6	0.8	0.7
0.8	0.8	2.9	1.3	5.4	3.9	6.0	5.3	3.0	0.3	0.0	1.0
0.4	2.1	2.5	1.3	6.4	4.6	5.1	5.0	2.8	1.4	0.5	1.1
0.1	2.0	2.8	2.3	6.7	4.1	5.6	4.6	2.9	0.5	0.7	0.5
0.1	2.2	3.2	2.3	6.9	5.9	5.6	4.9	2.9	1.0	0.4	0.5
0.2	1.2	2.6	1.6	6.2	5.6	5.6	4.6	3.3	1.3	0.5	0.4
0.2	-77.0	0.6	2.6	4.6	5.6	5.7	4.8	2.8	1.8	0.7	0.6
0.1	-77.0	0.4	-77.0	4.1	-77.0	5.8	5.4	-77.0	1.5	-77.0	0.1

#### 2.2.8 CASTELO DE BODE 2

Tabela 21. Evapotranspiração de referência diária na região de cálculo de Castelo de Bode 2 (mm)

Jan_2003	Fev_2003	Mar_2003	Abr_2003	Mai_2003	Jun_2003	Jul_2003	Ago_2003	Set_2003	Out_2003	Nov_2003	Dez_2003
0.0	1.5	0.1	3.2	3.7	3.6	3.9	7.0	3.2	1.0	1.6	0.5
0.2	1.2	0.7	2.8	3.9	4.2	3.3	4.9	3.0	1.9	0.9	1.1
0.9	1.0	1.5	4.2	4.8	1.9	5.2	5.9	3.2	1.8	0.7	0.0
0.4	0.9	2.2	4.2	3.2	2.9	5.6	5.8	3.2	3.0	0.6	0.8
0.1	1.5	1.5	4.0	2.8	5.1	5.3	5.5	3.6	3.6	0.6	-0.1
0.8	1.2	1.9	4.2	4.0	5.7	5.1	5.9	4.4	3.8	1.7	-0.1
0.3	0.3	1.3	4.6	2.8	5.5	5.4	5.8	4.2	3.8	0.7	0.3
0.4	1.5	2.5	4.2	4.3	6.1	6.1	6.6	3.3	3.7	0.9	-0.1
0.7	1.2	2.5	3.0	4.2	5.7	5.9	5.4	4.8	3.7	-0.1	0.2
1.2	1.1	2.9	1.2	4.6	5.5	5.8	6.3	5.9	3.1	0.5	1.0
0.7	0.1	3.0	2.1	4.7	6.2	5.1	6.2	6.2	0.4	0.9	0.8

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

1.1	0.7	2.3	0.6	4.9	6.8	2.7	6.9	6.4	1.9	0.3	0.9
1.2	1.7	3.1	0.4	5.0	7.2	1.9	6.7	6.5	1.9	0.8	1.0
1.2	1.4	2.3	1.1	5.3	6.3	3.5	7.3	6.1	2.1	0.0	0.8
1.1	1.7	2.5	1.8	4.9	5.4	3.5	4.2	5.5	0.6	0.6	0.5
1.1	1.6	2.3	2.3	4.3	3.7	4.4	3.9	5.3	2.0	1.5	0.8
0.6	1.4	1.3	2.7	4.6	5.4	5.4	4.4	5.5	0.9	1.7	-0.1
-0.1	-0.1	2.1	1.3	4.4	6.8	5.9	5.2	5.7	0.0	1.8	0.4
0.8	0.3	2.6	1.6	4.2	8.8	5.3	5.4	4.7	1.3	1.7	0.0
0.1	0.7	3.6	1.6	5.4	7.8	5.5	5.3	2.8	0.9	1.2	0.3
0.8	0.3	3.9	3.2	6.4	6.1	5.2	5.1	2.4	1.4	0.1	0.8
0.5	0.7	2.6	2.0	6.8	4.8	5.7	5.2	2.7	1.8	0.0	1.5
1.6	0.6	1.0	1.6	6.8	5.1	5.4	5.3	2.9	2.2	0.4	1.5
2.1	0.1	1.7	2.0	5.3	3.0	5.7	4.4	3.8	1.3	0.5	1.3
2.0	0.7	0.5	0.5	5.6	5.5	5.0	4.9	3.9	0.3	0.9	0.9
2.1	0.2	0.6	3.7	6.2	5.0	4.7	5.3	3.3	1.1	0.1	0.3
2.0	1.0	1.4	3.1	6.9	5.9	5.7	2.0	3.4	0.3	0.6	0.2
1.8	1.1	1.2	1.4	6.8	4.8	6.0	1.6	2.5	0.9	0.1	0.7
1.7	-77.0	0.3	1.7	6.3	2.6	6.9	3.1	1.9	1.5	0.2	0.4
1.6	-77.0	0.9	3.1	2.4	3.7	6.9	3.2	0.1	0.2	0.2	0.7
1.8	-77.0	2.0	-77.0	4.8	-77.0	6.7	2.4	-77.0	0.5	-77.0	0.2
Jan_2004	Fev_2004	Mar_2004	Abr_2004	Mai_2004	Jun_2004	Jul_2004	Ago_2004	Set_2004	Out_2004	Nov_2004	Dez_2004
0.3	0.3	1.8	1.3	2.6	5.6	7.3	6.1	3.9	3.3	1.9	0.3
0.8	0.3	2.2	1.2	3.4	6.0	7.1	5.0	1.5	3.8	0.7	0.3
1.0	1.0	1.5	1.5	2.8	6.7	7.0	4.3	3.1	4.1	0.1	0.9
1.1	0.9	2.7	3.2	3.4	6.6	6.7	5.5	1.9	4.2	1.0	0.6
1.1	1.7	1.1	3.5	0.5	4.2	5.9	5.7	2.1	3.6	1.3	1.2
0.9	1.5	1.6	4.3	2.7	5.0	5.1	5.7	2.9	1.9	1.8	1.0
0.3	0.7	2.2	3.5	3.0	5.0	4.2	5.7	2.9	3.8	1.5	0.9
-0.1	1.3	2.4	2.9	4.2	5.5	5.0	1.2	2.7	1.4	1.7	1.0
0.4	1.6	1.6	4.5	1.3	5.4	5.6	1.9	3.8	1.6	1.8	0.9
0.6	2.0	1.2	4.1	2.1	6.0	4.6	2.0	2.9	0.9	2.2	1.0
0.6	2.3	0.4	4.0	2.8	6.1	5.9	1.6	3.5	0.8	1.9	1.0
0.8	2.0	0.4	3.9	3.9	6.4	6.6	4.3	4.3	2.3	2.1	1.4
0.4	1.8	2.6	4.4	5.2	6.8	7.7	5.5	3.8	2.4	2.5	0.5
0.4	1.4	2.8	4.3	5.5	8.5	6.4	5.7	3.5	1.5	2.5	1.0
0.2	1.5	3.3	4.2	5.6	7.7	5.8	4.8	4.6	0.9	2.1	1.0
1.0	1.4	2.8	2.8	6.3	7.6	5.3	2.7	4.9	1.4	1.7	0.9
0.8	1.4	2.3	2.5	5.9	7.5	5.9	2.4	5.0	0.9	1.4	1.0
1.6	1.6	2.6	1.2	6.3	5.5	6.0	2.9	4.4	0.1	1.5	1.1
2.2	2.6	2.9	1.1	6.7	4.9	4.5	3.1	4.0	0.1	1.2	0.7
1.8	1.6	3.3	1.3	5.3	5.5	6.0	4.0	3.8	1.2	1.6	1.2
1.3	1.8	2.9	0.4	2.0	4.4	5.1	5.2	4.6	1.3	1.1	1.1
1.2	0.1	3.5	2.5	2.2	4.2	4.3	5.4	5.1	2.1	1.2	1.3
1.1	-0.1	3.1	4.7	2.4	3.1	5.4	5.3	4.8	2.2	1.2	1.3

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

1.3	0.6	1.2	4.9	1.2	4.7	6.7	5.3	3.5	0.6	1.3	1.1
0.7	0.0	3.6	5.1	1.8	6.0	7.6	5.7	4.8	0.5	1.2	1.0
0.0	1.6	3.1	5.3	4.3	6.8	8.2	5.6	5.6	1.4	1.2	0.7
0.1	1.4	2.6	5.0	4.6	7.1	7.5	5.4	5.0	1.0	0.8	0.9
1.3	0.9	2.0	3.8	4.3	7.3	5.8	6.1	5.0	0.5	0.4	0.1
0.7	1.3	0.8	4.1	4.1	7.7	6.1	5.3	4.9	0.7	0.3	0.9
0.1	-77.0	1.3	2.3	5.1	7.7	5.7	4.8	4.0	0.9	0.2	1.1
-0.1	-77.0	1.0	-77.0	5.6	-77.0	5.8	3.9	-77.0	0.2	-77.0	1.0
Jan_2005	Fev_2005	Mar_2005	Abr_2005	Mai_2005	Jun_2005	Jul_2005	Ago_2005	Set_2005	Out_2005	Nov_2005	Dez_2005
0.8	1.8	2.4	2.4	1.8	7.0	6.5	5.8	5.2	4.8	0.4	0.0
1.0	2.2	2.3	0.7	3.3	6.4	7.9	7.2	5.6	5.1	0.8	0.4
1.3	1.7	2.1	1.3	2.9	6.3	6.4	7.9	6.1	4.9	-0.1	0.2
1.1	1.7	3.1	1.8	4.7	6.1	6.0	8.9	5.9	4.7	1.5	0.1
1.0	0.9	2.6	2.8	5.7	7.1	7.1	7.2	4.2	4.5	1.7	0.6
1.2	0.8	2.4	3.0	6.1	7.5	7.3	7.1	1.5	4.4	2.1	1.1
1.5	0.7	3.1	3.3	5.4	8.8	6.5	6.5	3.1	4.5	1.9	1.0
1.0	1.5	3.0	3.3	3.8	7.3	7.7	4.6	4.3	3.1	1.0	0.9
1.2	1.8	3.1	4.3	3.6	6.5	7.2	3.2	1.4	1.5	1.7	1.7
0.7	2.0	2.3	4.5	2.8	5.9	8.0	3.1	3.0	0.1	2.0	2.4
1.0	2.0	2.7	4.4	1.6	5.2	7.5	4.9	3.3	0.7	1.7	1.7
0.9	2.0	1.8	4.4	2.0	3.0	6.3	6.9	4.0	0.8	0.9	2.8
0.1	2.4	1.1	3.7	2.5	2.3	6.6	6.6	5.5	2.4	0.4	1.6
0.2	2.7	1.2	2.7	2.8	3.9	6.3	7.5	5.9	1.2	1.0	1.5
0.1	2.1	2.8	2.5	3.6	6.0	6.8	7.3	5.6	1.3	0.9	1.4
1.1	2.9	2.8	3.1	2.0	6.6	6.0	5.7	4.3	2.2	1.0	1.4
1.7	2.7	4.2	1.1	4.5	7.9	5.7	5.5	5.1	0.2	0.2	1.3
0.9	2.4	4.4	2.4	4.9	7.2	6.1	6.0	5.6	1.8	0.1	1.4
1.5	2.4	2.1	1.5	5.6	6.0	7.4	5.0	5.0	2.4	-0.1	1.3
1.8	2.3	1.4	1.5	5.3	6.8	7.8	7.1	5.3	0.3	0.1	1.2
1.5	2.0	0.0	3.1	3.3	7.3	7.0	7.2	4.9	0.5	0.5	1.6
1.4	0.5	2.3	2.4	3.9	7.6	5.6	6.8	4.6	0.9	0.3	1.9
1.3	0.5	0.8	0.8	5.3	5.3	6.2	5.9	4.4	1.8	1.4	1.4
1.6	1.4	1.9	2.1	6.7	4.3	4.8	6.0	3.7	2.1	1.2	0.5
1.8	2.2	0.9	3.3	6.5	5.1	4.1	5.6	3.9	1.9	0.5	0.0
1.5	1.3	1.6	4.3	6.2	4.9	3.4	5.3	4.3	3.0	0.6	-0.1
2.0	1.9	1.6	4.7	4.1	4.9	3.6	5.5	4.6	0.1	0.5	0.4
1.7	3.0	0.7	4.8	3.8	3.7	4.1	5.3	4.5	0.5	0.0	0.5
1.4	-77.0	1.1	4.8	3.3	4.8	4.9	5.3	4.4	0.2	1.1	0.6
2.5	-77.0	2.8	4.4	4.0	5.7	5.9	5.8	5.0	0.0	1.2	0.2
2.1	-77.0	4.1	-77.0	4.5	-77.0	6.3	5.1	-77.0	0.5	-77.0	0.0
Jan_2006	Fev_2006	Mar_2006	Abr_2006	Mai_2006	Jun_2006	Jul_2006	Ago_2006	Set_2006	Out_2006	Nov_2006	Dez_2006
0.3	1.5	2.4	2.9	5.1	5.6	5.2	6.1	5.4	2.3	1.5	0.9
1.0	1.3	1.5	3.5	4.6	6.3	4.0	6.2	6.0	1.5	0.1	0.3
0.9	0.8	0.7	3.6	3.5	8.0	5.0	6.0	6.1	1.8	0.2	0.0

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

1.4	1.7	0.8	3.0	3.5	7.9	5.3	7.8	6.6	1.6	-0.1	0.2
1.0	2.3	2.5	0.6	4.1	7.5	5.8	8.0	7.1	3.0	0.1	0.2
0.5	1.9	1.9	0.9	4.6	7.0	6.4	8.3	6.2	2.6	0.0	0.3
0.6	2.1	2.1	0.8	3.5	6.7	7.4	7.6	5.2	2.2	0.5	0.0
0.8	1.7	1.8	3.3	4.2	5.8	7.1	8.0	5.1	2.8	0.5	1.1
0.9	1.2	1.2	2.4	5.3	3.8	7.4	8.0	4.6	2.7	0.9	0.9
1.2	1.5	2.3	3.3	5.7	4.6	6.1	7.7	4.9	0.6	1.7	1.3
1.2	1.9	2.6	4.1	5.0	6.4	6.3	8.1	2.3	2.4	1.9	1.1
0.9	2.0	3.0	4.2	4.4	5.4	6.7	8.0	3.7	3.1	1.6	0.9
0.5	2.0	3.3	4.8	5.4	2.3	5.6	6.9	1.6	3.6	1.7	1.1
0.6	1.6	3.5	1.2	5.0	2.4	6.9	5.4	3.2	3.6	1.4	1.2
-0.1	1.4	3.1	1.6	4.4	3.9	7.1	4.4	3.5	1.0	-0.1	1.2
0.8	1.1	0.6	2.2	5.5	3.3	7.0	1.4	4.3	0.0	1.0	1.0
0.4	0.8	-0.1	2.9	5.0	2.0	7.0	3.3	4.0	1.1	0.4	0.9
1.2	0.8	0.5	2.9	5.7	5.0	3.0	2.8	4.4	0.6	0.2	0.9
1.3	0.7	0.9	3.8	5.6	5.2	5.7	3.9	4.2	0.4	0.5	1.0
1.2	0.7	0.7	2.5	4.9	5.6	6.1	5.7	4.1	0.5	1.0	1.0
1.1	1.9	1.0	2.9	3.5	6.0	6.2	6.8	1.4	0.7	0.5	1.1
0.6	2.2	0.8	1.5	4.3	7.1	6.7	7.0	1.8	0.3	0.5	1.2
1.0	1.6	0.0	4.2	5.0	6.4	6.3	6.6	1.7	1.7	0.1	1.1
0.5	1.8	1.3	4.7	5.6	4.9	5.7	5.8	0.8	0.3	0.3	1.1
1.5	0.1	1.1	4.3	6.4	4.8	6.3	5.5	2.3	0.7	0.9	1.4
1.6	1.6	2.4	4.5	7.5	3.5	6.0	5.6	3.7	0.2	0.7	1.3
1.8	2.4	1.8	5.0	7.7	5.2	5.7	5.8	3.1	1.7	0.6	1.3
1.6	2.5	2.9	5.7	6.7	5.1	6.3	6.2	1.9	2.8	0.6	1.0
0.4	-77.0	0.5	5.2	4.9	5.5	6.7	6.5	0.6	3.2	0.9	0.1
1.4	-77.0	2.7	5.3	6.2	5.8	6.3	6.6	1.2	1.5	0.9	0.1
1.7	-77.0	1.4	-77.0	6.7	-77.0	6.7	7.1	-77.0	1.0	-77.0	0.3
Jan_2007	Fev_2007	Mar_2007	Abr_2007	Mai_2007	Jun_2007	Jul_2007	Ago_2007	Set_2007	Out_2007	Nov_2007	Dez_2007
0.5	1.1	1.6	2.8	1.6	5.2	4.3	4.8	6.2	1.9	2.7	0.4
1.3	1.4	1.1	0.6	1.0	5.7	5.4	6.3	6.1	0.4	2.6	1.0
1.3	0.1	1.2	1.4	3.3	5.2	4.4	7.8	5.6	0.6	2.8	0.9
0.9	0.9	0.4	2.6	3.3	6.7	6.2	7.1	6.2	1.7	2.7	1.2
0.9	1.0	1.9	2.8	4.8	6.6	7.6	5.1	7.2	2.2	2.5	0.9
1.0	1.2	0.4	2.7	5.8	6.8	7.5	4.1	6.5	2.5	3.0	0.9
0.4	0.1	2.4	2.6	5.3	5.7	6.6	5.1	5.0	2.6	2.8	1.0
0.3	0.7	2.9	2.3	5.6	2.9	6.5	6.5	4.2	3.2	2.5	1.3
0.1	1.5	3.0	1.8	6.1	4.6	6.7	7.1	2.2	3.7	2.5	1.0
0.2	1.1	4.1	1.7	5.1	2.9	7.0	6.6	3.0	3.6	3.1	1.2
0.9	0.1	4.5	1.5	4.2	4.4	6.8	4.2	5.1	3.8	1.8	1.4
1.0	1.2	2.5	2.2	3.7	4.4	7.2	4.2	3.6	3.4	2.0	1.3
1.0	0.3	3.3	2.8	3.3	2.6	6.9	4.0	3.0	3.2	2.1	1.5
0.9	1.9	3.6	3.9	3.7	2.4	6.1	4.9	3.5	2.9	2.1	1.6
0.3	0.7	3.5	4.1	4.9	4.5	2.2	2.4	3.4	2.8	2.1	1.2

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.2	0.5	3.5	4.6	5.7	0.7	1.4	5.3	2.3	2.6	1.6	1.3
0.2	1.4	3.4	4.6	6.8	3.0	5.0	6.1	1.5	2.7	1.7	0.9
0.7	1.9	3.7	5.1	6.5	3.0	5.7	6.4	2.3	3.2	2.0	0.0
1.2	0.2	2.3	3.4	5.2	1.7	5.2	6.0	3.8	3.1	0.2	0.0
1.0	1.3	3.2	1.2	2.3	3.4	5.5	6.2	3.9	3.0	0.2	0.2
1.2	1.7	3.3	4.1	2.5	4.4	5.7	6.0	2.0	3.4	0.6	0.6
0.9	1.1	3.1	4.8	1.5	5.4	5.5	6.2	3.7	3.1	0.9	0.9
1.0	0.4	3.1	5.0	2.2	5.9	4.1	6.0	3.8	2.1	1.3	1.0
1.2	1.0	2.9	3.0	3.3	4.5	5.7	6.6	4.5	0.9	1.9	1.0
1.1	1.1	2.4	1.9	3.5	4.2	6.3	4.0	3.7	2.5	2.2	0.4
2.1	2.2	1.3	2.6	2.8	5.7	6.5	3.9	4.4	2.4	2.1	1.0
2.1	2.2	2.6	2.5	2.0	5.8	6.8	5.4	4.1	2.6	1.7	1.1
1.2	0.4	2.4	3.3	4.6	5.7	7.0	4.6	4.7	2.6	1.2	1.1
0.3	-77.0	3.2	3.8	4.5	5.8	8.2	3.0	1.1	2.3	1.1	0.8
0.1	-77.0	1.8	2.2	2.6	5.3	8.1	5.3	0.5	2.9	1.3	0.5
0.8	-77.0	1.2	-77.0	3.0	-77.0	6.6	6.5	-77.0	3.2	-77.0	0.9
Jan_2008	Fev_2008	Mar_2008	Abr_2008	Mai_2008	Jun_2008	Jul_2008	Ago_2008	Set_2008	Out_2008	Nov_2008	Dez_2008
0.1	0.4	2.4	3.9	4.2	3.8	6.2	5.8	4.3	3.3	0.6	0.8
0.3	0.6	2.4	4.7	4.6	4.1	4.2	6.0	4.1	3.6	1.7	1.2
0.1	0.1	1.7	5.1	4.4	4.5	5.6	5.9	3.2	3.6	1.1	0.1
0.6	0.4	3.8	5.2	4.2	4.2	5.3	6.4	2.2	3.7	0.3	0.1
-0.1	0.3	3.4	4.6	3.6	4.7	5.5	6.1	1.1	3.9	1.4	0.4
0.0	1.6	3.5	4.3	3.0	5.4	5.5	5.1	3.1	3.5	0.9	0.0
0.6	2.2	3.3	0.9	1.2	5.9	5.8	5.1	3.8	0.7	0.6	0.0
0.2	2.4	2.7	0.5	3.3	5.8	5.7	5.4	4.3	2.3	1.4	0.6
0.1	2.6	2.4	0.9	2.5	5.2	5.8	6.3	3.6	3.8	1.5	1.0
0.5	2.5	0.2	0.8	2.5	5.2	5.8	6.0	4.1	4.8	1.5	1.3
0.7	2.4	1.3	3.2	2.1	5.4	4.0	3.3	3.8	1.6	0.7	0.7
0.9	2.3	2.6	2.5	3.2	6.9	5.6	4.0	4.4	0.4	1.5	0.5
-0.1	2.0	2.9	1.7	2.5	6.8	6.1	5.0	4.5	1.9	1.6	0.5
0.3	1.9	2.4	3.8	2.2	6.7	6.9	4.5	5.2	2.6	2.1	0.7
0.0	1.9	2.2	3.4	1.2	4.6	7.3	5.4	4.7	2.5	1.8	1.2
0.6	1.6	2.3	3.1	3.2	2.4	6.9	1.8	3.4	2.2	1.7	1.2
0.0	0.5	1.4	1.1	4.2	5.2	6.0	4.5	2.5	1.8	1.9	0.8
1.0	-0.1	1.3	1.7	2.4	5.9	6.3	4.8	2.6	1.8	1.6	1.0
1.4	0.5	0.4	1.0	3.4	6.3	6.3	5.4	4.0	2.2	2.1	1.3
1.4	0.6	3.3	0.9	2.3	6.4	4.7	5.5	2.7	1.3	1.9	1.4
1.4	1.4	3.6	2.2	2.8	6.5	5.9	5.0	1.8	1.9	1.8	1.7
1.8	2.3	1.3	2.0	1.7	6.3	6.7	4.8	1.5	2.5	2.1	2.0
1.8	0.4	3.0	2.2	1.3	5.2	5.8	6.0	2.0	3.0	1.8	1.3
1.5	0.2	2.7	4.3	2.1	6.1	5.6	5.9	2.5	2.7	1.0	1.2
1.4	1.8	2.6	5.5	2.3	6.6	3.1	5.1	4.3	3.2	1.5	1.4
1.3	1.9	2.0	5.4	1.4	6.6	5.1	4.7	4.0	3.2	2.0	1.1
1.5	0.6	1.8	5.1	2.1	6.8	5.5	4.8	3.8	2.4	1.6	0.0

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

### ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

1.8	1.7	2.6	3.2	3.1	7.9	5.4	5.1	3.5	2.4	0.2	-0.1
1.9	2.3	3.4	2.1	2.5	7.0	5.5	4.4	3.4	2.0	0.1	-0.1
1.7	-77.0	2.1	3.0	2.2	7.2	5.6	2.6	3.7	0.3	0.4	0.6
1.8	-77.0	2.9	-77.0	3.6	-77.0	4.0	4.2	-77.0	0.3	-77.0	-0.1
Jan_2009	Fev_2009	Mar_2009	Abr_2009	Mai_2009	Jun_2009	Jul_2009	Ago_2009	Set_2009	Out_2009	Nov_2009	Dez_2009
0.0	0.0	0.6	3.6	5.1	7.6	5.2	2.8	4.7	2.7	1.1	0.0
-0.1	0.9	1.2	3.7	6.1	6.5	5.8	5.0	4.9	4.3	1.8	0.4
0.3	0.1	2.4	3.7	6.4	4.7	5.1	6.0	5.0	3.7	1.5	0.5
1.0	0.4	1.1	3.9	6.4	4.4	5.6	5.3	5.3	3.0	1.7	0.9
0.3	0.4	1.8	3.6	6.5	1.9	4.0	4.9	5.2	1.5	1.0	0.0
1.1	0.6	1.1	2.1	6.5	1.7	5.6	5.2	5.6	0.8	0.2	-0.1
0.9	1.0	3.0	2.9	5.4	2.7	5.7	5.4	5.9	2.2	1.2	0.8
1.2	0.3	3.1	3.5	3.3	3.2	6.0	4.5	5.0	2.1	0.5	0.7
0.9	0.2	3.4	2.6	2.7	2.9	6.1	5.1	4.6	2.5	1.5	0.3
0.8	1.4	3.4	2.4	1.5	2.8	6.0	6.5	3.8	3.1	1.3	0.1
1.3	1.7	3.5	2.8	1.5	5.9	5.7	7.0	4.0	3.5	0.9	0.8
1.2	2.1	4.4	3.5	2.0	6.9	6.2	7.0	2.5	4.5	0.9	0.9
0.1	2.1	3.9	1.5	2.0	6.4	5.6	4.0	3.4	4.8	0.4	1.3
0.5	1.8	3.7	1.4	4.0	1.5	5.2	6.2	3.7	3.7	0.7	1.4
-0.1	2.3	4.0	1.3	4.7	4.9	6.0	5.0	5.3	4.0	0.2	1.2
0.7	2.1	4.2	1.5	3.8	2.2	6.0	6.1	4.2	5.0	0.1	0.0
1.2	2.4	5.2	1.1	3.9	6.4	5.9	6.5	2.9	3.9	1.1	0.6
0.0	2.6	4.9	0.8	4.6	5.4	7.0	6.5	1.2	3.3	0.7	0.1
0.3	1.8	4.0	3.0	5.0	7.6	7.2	6.1	3.2	2.9	0.6	1.3
0.3	2.1	4.3	4.0	5.0	7.4	5.6	5.6	3.8	0.7	0.5	1.3
0.4	2.0	3.6	4.5	5.4	8.1	6.0	5.6	4.0	0.3	0.1	0.1
0.0	2.7	3.9	5.7	4.2	6.6	1.4	6.3	4.8	1.7	0.8	0.1
0.3	2.4	3.0	5.8	2.0	5.4	4.0	5.9	5.0	0.9	1.1	0.2
1.0	2.6	4.2	4.6	2.1	4.7	5.3	4.2	4.8	0.9	1.3	0.2
0.5	2.5	4.7	2.7	1.9	2.9	6.1	5.2	4.5	1.6	0.0	0.0
0.8	2.6	3.8	3.6	5.2	5.2	6.1	5.1	4.4	2.0	0.3	0.7
0.1	2.9	3.3	2.7	6.9	5.3	6.4	5.1	4.2	2.1	0.5	0.2
0.0	1.2	3.7	2.8	8.5	0.8	6.1	5.2	4.2	2.5	0.1	0.0
0.1	-77.0	3.1	1.2	8.4	2.5	6.0	6.3	3.2	1.5	0.3	0.0
0.0	-77.0	3.6	1.5	7.6	4.6	6.0	6.4	1.8	1.4	0.9	0.3
0.9	-77.0	3.3	-77.0	8.1	-77.0	6.0	6.0	-77.0	2.0	-77.0	0.2
Jan_2010	Fev_2010	Mar_2010	Abr_2010	Mai_2010	Jun_2010	Jul_2010	Ago_2010	Set_2010	Out_2010	Nov_2010	Dez_2010
0.3	1.5	1.4	2.2	4.0	6.3	6.6	5.2	4.6	3.6	2.0	0.5
0.0	1.8	1.0	1.7	4.2	3.7	5.0	5.4	4.8	3.0	2.1	0.9
-0.1	0.8	0.6	1.4	4.5	5.9	5.6	7.5	5.2	0.2	2.0	0.9
0.0	0.0	1.4	3.4	4.8	5.6	7.9	7.8	5.1	2.0	2.5	0.5
0.3	0.7	-0.1	4.3	4.9	4.9	8.4	6.9	4.9	2.7	2.3	-0.1
0.4	0.9	0.1	2.9	4.8	5.4	8.1	7.7	4.0	0.5	2.0	0.4
1.0	0.4	0.4	4.0	2.1	5.4	5.4	7.6	1.6	1.4	1.2	0.2

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

1.5	1.0	0.1	4.8	0.3	1.5	6.1	3.6	3.5	0.0	0.3	0.2
1.3	0.8	2.4	5.2	2.6	2.2	5.7	5.7	4.4	1.4	1.1	0.1
0.2	0.0	2.4	5.3	3.0	2.2	7.0	7.2	5.4	1.4	1.2	0.9
0.2	1.6	2.3	5.1	2.1	2.4	7.1	7.8	5.8	2.4	0.9	0.7
-0.1	1.1	2.0	3.8	2.8	3.4	6.0	6.5	5.4	2.4	0.6	0.0
0.0	1.6	2.5	2.1	3.1	4.3	5.4	6.2	5.3	2.7	0.3	0.8
0.8	1.1	2.7	0.1	2.0	5.1	5.3	6.8	4.9	1.9	0.8	1.1
0.0	0.0	3.0	2.2	4.4	6.4	6.0	6.9	2.1	2.4	1.2	2.1
-0.1	0.1	3.1	1.3	4.9	5.0	6.2	5.7	3.2	2.5	1.0	1.4
0.1	0.5	2.8	1.4	6.1	5.5	6.5	3.8	2.1	3.1	1.1	0.9
0.0	0.3	1.6	1.3	6.5	4.1	7.1	4.6	3.3	3.1	0.6	0.8
0.3	1.8	0.7	1.7	6.8	4.7	6.4	5.1	4.3	3.1	-0.1	0.8
0.9	1.1	0.6	3.6	6.8	5.4	6.5	5.7	3.4	3.0	1.0	0.0
0.2	0.8	2.1	2.8	7.6	7.2	5.3	6.6	2.6	3.0	0.7	0.0
0.3	0.4	2.6	2.3	6.4	7.0	5.6	5.3	3.5	1.5	1.0	-0.1
0.6	0.5	2.1	3.3	5.7	6.4	6.7	3.1	1.9	2.3	0.1	1.0
1.2	0.8	0.9	3.3	4.1	5.5	7.9	5.3	3.2	2.1	0.8	0.8
1.4	0.6	1.1	4.6	1.2	4.0	8.3	6.1	3.6	1.9	0.4	0.5
1.5	0.9	1.3	5.3	3.2	3.8	9.0	6.1	4.3	3.0	1.2	1.1
2.1	0.2	2.5	5.1	3.5	5.6	8.7	5.5	3.8	2.5	1.3	0.4
1.7	0.3	3.2	5.4	4.7	5.4	7.7	6.0	3.4	1.8	1.3	0.2
1.4	-77.0	0.9	4.1	5.2	6.6	7.5	6.8	3.4	0.0	0.1	0.1
1.2	-77.0	1.3	3.1	5.7	6.7	7.2	6.9	3.3	0.1	0.4	-0.1
0.6	-77.0	1.2	-77.0	6.4	-77.0	6.3	4.3	-77.0	0.8	-77.0	0.0
Jan_2011	Fev_2011	Mar_2011	Abr_2011	Mai_2011	Jun_2011	Jul_2011	Ago_2011	Set_2011	Out_2011	Nov_2011	Dez_2011
0.0	1.7	2.5	4.4	2.4	6.5	4.0	2.9	1.4	4.9	0.5	0.6
0.7	2.0	2.5	1.2	2.7	6.6	5.8	4.0	1.4	4.5	0.0	1.0
0.1	2.0	2.4	1.8	4.2	5.8	4.6	5.2	3.2	4.3	0.6	1.1
0.0	2.1	1.6	3.5	4.1	6.0	5.7	5.9	4.0	4.4	0.7	0.6
0.0	2.0	0.2	4.9	4.3	3.1	5.9	4.8	4.4	4.7	1.5	0.7
0.3	1.9	1.4	5.8	3.6	2.7	5.7	2.9	5.3	4.7	1.8	0.8
0.4	1.9	2.2	5.1	2.9	4.3	5.6	5.6	5.5	4.2	1.7	1.0
0.0	0.9	0.3	5.4	3.2	4.7	4.9	6.5	5.2	4.6	0.1	0.6
0.5	0.5	0.7	3.9	5.0	2.8	4.7	8.0	5.4	4.4	0.0	0.5
0.0	1.3	1.9	4.6	5.7	5.1	5.6	7.8	2.6	4.4	0.3	-0.1
0.6	1.1	0.5	5.0	5.9	5.6	4.8	6.6	3.7	4.6	0.4	0.2
0.6	1.1	1.0	4.9	5.7	5.7	5.2	5.8	4.7	4.4	1.0	0.6
0.8	0.2	0.4	5.1	5.8	5.2	6.2	5.7	5.2	4.3	1.2	0.1
0.5	0.2	0.1	5.3	5.5	5.5	6.2	5.2	5.3	4.4	0.2	0.4
0.8	0.5	2.1	4.6	6.7	5.4	6.4	5.4	4.3	4.1	0.6	0.6
0.2	0.2	2.0	5.3	5.4	5.4	5.8	4.5	3.5	2.8	0.9	0.2
0.1	1.2	2.4	4.4	2.5	5.1	5.7	5.0	3.5	3.1	1.3	0.8
0.4	0.4	3.0	3.2	1.7	5.6	5.3	5.2	4.3	3.0	0.8	1.0
0.7	0.1	3.8	0.7	3.6	6.4	6.0	5.7	5.3	2.7	-0.1	0.9

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

1.2	0.9	4.2	0.6	5.0	6.2	6.6	5.7	5.5	3.5	0.4	0.9
2.0	1.0	3.9	0.7	4.8	6.4	6.2	2.7	4.5	3.7	0.7	0.8
2.3	2.1	3.4	1.1	5.4	6.2	6.3	2.9	3.6	2.3	0.3	1.0
2.1	2.2	2.6	2.3	5.1	6.3	6.1	3.7	3.1	0.8	1.5	0.8
2.5	2.6	1.4	3.8	6.0	7.1	7.1	5.1	3.6	1.7	1.5	1.6
2.0	2.8	0.9	4.5	5.8	7.8	6.4	3.8	3.8	1.1	1.7	1.6
1.7	2.5	0.4	4.9	2.9	6.2	6.4	4.9	4.4	0.0	1.4	1.3
0.1	2.8	1.0	5.1	3.8	6.4	7.4	5.5	3.9	1.2	1.4	1.0
0.4	2.5	0.5	3.5	3.1	5.3	7.8	5.3	3.4	2.2	1.2	1.1
0.7	-77.0	2.3	1.3	3.5	6.0	6.5	4.9	4.6	2.0	1.0	1.4
1.0	-77.0	2.7	1.1	2.3	7.3	5.8	3.7	4.0	2.3	0.5	1.2
1.2	-77.0	3.7	-77.0	4.2	-77.0	5.7	2.2	-77.0	1.2	-77.0	1.2
Jan_2012	Fev_2012	Mar_2012	Abr_2012	Mai_2012	Jun_2012	Jul_2012	Ago_2012	Set_2012	Out_2012	Nov_2012	Dez_2012
0.5	0.4	1.9	1.6	1.4	5.9	6.1	5.9	6.9	3.3	1.0	1.1
0.9	1.8	1.5	1.8	0.1	1.8	6.6	5.9	7.6	2.8	0.7	1.2
0.6	2.0	0.9	1.3	1.2	4.8	6.2	6.4	6.8	3.0	0.1	1.2
1.1	2.0	1.1	1.9	1.9	5.9	5.1	6.4	6.1	3.3	0.5	0.6
1.0	1.9	2.7	2.6	2.2	5.1	5.5	4.7	6.0	3.8	0.8	0.4
1.3	1.7	2.6	1.6	2.6	3.1	5.5	5.4	6.4	2.1	1.7	-0.1
1.3	1.7	3.0	2.3	0.3	3.9	3.7	6.5	4.8	3.2	0.7	0.1
1.3	2.1	3.0	3.9	3.5	4.5	5.7	6.7	3.8	2.8	-0.1	1.0
1.3	1.7	4.7	4.4	5.0	4.1	5.4	6.5	3.6	1.9	0.8	0.9
1.4	2.2	4.5	1.4	5.8	3.4	5.1	6.1	4.2	2.0	0.5	0.7
1.0	2.6	3.8	1.0	3.0	3.6	5.7	6.1	4.3	1.4	1.7	0.8
1.0	2.7	3.9	2.2	4.3	3.8	6.5	5.4	5.1	2.7	1.9	0.5
0.5	2.6	3.7	1.3	4.9	5.7	5.9	5.3	4.9	2.9	1.6	0.2
0.6	1.9	3.5	1.9	6.0	4.4	6.0	3.2	6.3	1.6	1.8	0.1
0.1	2.4	2.1	3.3	5.7	4.8	6.6	3.5	6.3	2.7	1.2	0.2
1.0	2.5	2.0	4.2	6.6	3.4	7.9	5.3	4.9	1.6	0.1	0.1
1.3	2.3	0.9	2.5	4.2	4.5	8.4	6.0	3.6	0.1	0.1	0.0
1.3	2.3	2.1	0.8	4.5	3.5	8.7	5.4	4.1	-0.1	1.3	0.0
1.4	2.2	3.4	0.9	2.8	5.0	7.8	5.1	4.1	0.9	1.2	0.1
1.2	2.6	3.8	0.9	2.0	4.2	7.2	5.9	4.0	2.0	0.2	0.8
1.6	2.5	3.3	1.0	2.7	5.3	6.8	5.9	2.4	0.6	1.1	0.1
1.5	3.0	3.4	2.4	4.6	5.9	6.6	5.4	4.2	0.4	1.1	0.1
1.3	3.2	3.8	1.2	5.8	6.4	6.8	4.6	1.6	2.2	0.2	0.9
1.5	3.2	1.8	2.7	6.0	7.2	5.5	4.4	2.1	0.7	-0.1	0.9
1.2	3.4	4.3	0.4	4.3	7.2	5.9	5.0	0.8	0.5	0.0	0.9
0.6	2.6	5.2	1.0	4.1	6.1	5.4	5.2	2.7	0.7	0.9	1.0
1.4	2.4	5.4	1.5	4.3	7.1	4.3	4.1	2.0	1.8	1.2	0.9
1.6	2.3	5.7	2.4	5.5	5.4	4.6	3.7	0.1	2.8	1.2	1.0
1.8	2.7	5.4	1.3	4.9	4.3	5.9	4.9	3.2	1.5	1.3	0.5
1.7	-77.0	2.7	2.8	5.7	4.0	5.9	5.5	3.6	1.2	0.6	0.6
1.5	-77.0	1.6	-77.0	6.5	-77.0	5.4	6.4	-77.0	1.4	-77.0	-0.1



Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

Jan_2013	Fev_2013	Mar_2013	Abr_2013	Mai_2013	Jun_2013	Jul_2013	Ago_2013	Set_2013	Out_2013	Nov_2013	Dez_2013
0.6	0.9	2.1	2.5	3.1	6.1	6.2	6.3	6.5	0.4	1.0	2.1
0.9	1.9	1.9	2.3	4.1	6.5	5.4	5.5	6.5	0.9	0.7	1.5
1.8	1.5	0.7	1.3	4.8	6.7	6.7	5.6	5.8	2.5	1.8	1.7
1.7	1.8	0.8	1.2	5.2	6.2	7.8	6.3	5.0	2.3	0.7	1.6
1.3	1.7	0.8	2.8	5.1	5.9	8.2	5.4	4.6	2.6	1.0	1.4
1.1	1.5	0.9	3.3	2.5	2.8	7.6	4.9	4.0	3.5	0.9	1.2
0.2	1.5	1.2	2.1	2.7	1.9	8.1	4.9	4.2	3.3	0.8	1.3
0.5	1.9	0.5	2.0	2.4	1.8	7.7	6.2	4.6	3.3	1.2	1.1
0.0	1.8	1.5	1.1	1.8	1.7	7.8	7.2	5.0	4.1	1.2	1.3
0.2	0.4	0.8	1.0	4.7	1.7	7.5	7.7	4.8	4.0	1.4	1.4
0.0	1.2	1.1	1.5	5.1	3.4	6.0	7.4	5.1	3.3	1.9	1.3
0.5	1.1	1.5	2.3	5.4	5.5	3.7	6.1	5.6	0.9	2.2	0.8
0.6	1.7	2.4	3.8	5.9	5.8	3.3	6.0	5.5	1.4	2.0	0.1
1.2	1.7	2.7	4.1	4.7	5.9	5.2	6.8	5.1	1.3	2.5	1.2
1.1	1.9	2.6	3.4	3.6	6.3	5.3	6.3	4.6	0.9	1.8	1.3
0.1	0.9	1.2	4.2	2.2	5.3	5.1	4.5	4.7	2.2	1.3	1.1
0.2	0.0	0.8	4.3	2.1	3.6	5.8	5.9	4.6	1.7	1.2	0.0
0.2	0.3	1.9	4.5	2.8	3.5	5.7	5.8	4.6	0.8	1.1	0.2
0.7	0.3	0.3	4.5	2.5	3.9	5.4	6.3	4.6	1.5	1.2	0.6
0.1	0.3	2.5	4.8	3.3	5.5	6.0	7.4	5.1	1.3	1.5	1.3
0.9	0.6	2.4	4.5	4.2	4.9	5.7	6.6	4.9	0.7	0.8	1.1
0.5	0.5	2.1	4.3	5.0	6.3	5.5	5.8	4.6	0.8	0.5	0.8
0.3	1.5	1.1	4.5	5.1	6.6	5.9	5.5	4.4	0.8	1.5	0.0
0.7	1.9	1.8	5.0	5.5	7.8	6.2	5.7	3.3	0.1	1.8	0.2
0.3	2.2	0.4	4.9	5.7	8.2	4.5	6.1	2.1	0.2	1.9	0.6
1.2	2.2	0.5	3.8	4.2	7.8	4.9	5.6	2.5	1.6	2.0	0.5
0.1	0.8	1.2	4.3	4.5	7.3	4.3	5.9	0.5	2.1	1.8	0.1
1.0	1.7	1.0	3.6	4.7	7.4	3.7	5.2	1.1	0.4	1.6	0.9
1.2	-77.0	0.5	1.7	2.4	7.9	5.5	5.6	0.3	1.8	1.7	0.8
1.2	-77.0	2.9	2.2	5.0	7.9	6.5	5.8	0.1	2.2	1.3	0.4
1.6	-77.0	0.1	-77.0	5.6	-77.0	6.5	6.4	-77.0	2.2	-77.0	0.0
Jan_2014	Fev_2014	Mar_2014	Abr_2014	Mai_2014	Jun_2014	Jul_2014	Ago_2014	Set_2014	Out_2014	Nov_2014	Dez_2014
0.1	0.9	0.3	0.1	5.0	4.8	5.0	4.3	5.8	3.9	0.9	1.7
0.0	6.0	0.6	1.4	5.6	5.3	4.2	3.9	5.5	3.7	0.9	1.2
0.0	5.5	2.2	1.8	6.0	6.0	4.7	4.3	3.6	3.3	0.4	1.0
0.4	0.1	1.5	0.4	5.7	5.3	5.4	5.4	4.6	3.1	1.2	1.1
0.2	0.9	2.2	1.6	5.3	5.1	5.6	6.3	4.7	2.5	1.8	1.1
0.1	0.4	1.8	2.4	5.1	1.4	2.6	6.1	1.5	2.2	0.4	1.5
0.1	0.7	2.1	3.7	4.5	4.0	5.8	5.8	2.9	0.9	0.9	1.3
0.7	1.0	2.5	4.2	5.3	3.5	6.3	4.8	3.3	1.0	0.5	1.2
1.1	0.4	2.3	2.8	5.4	3.8	7.6	5.1	4.1	1.6	1.2	0.6
0.6	1.6	3.7	4.4	5.5	4.5	8.0	5.0	1.2	2.2	0.0	1.3
0.8	-0.1	3.6	2.8	5.8	6.5	8.0	5.5	1.5	1.1	0.9	1.1

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.0	0.0	3.1	3.4	5.8	7.1	7.0	5.4	2.9	0.2	1.0	0.4
0.9	1.3	2.6	4.0	6.0	7.2	6.6	5.8	3.2	0.2	0.2	0.1
0.5	0.3	2.9	2.1	6.6	7.6	6.6	6.0	2.4	1.3	0.6	0.3
0.2	1.2	3.1	4.3	6.4	8.2	6.6	6.1	1.8	0.4	0.7	0.9
0.8	1.6	3.6	3.2	6.1	8.0	6.9	6.7	1.0	1.5	0.9	0.9
0.1	0.9	3.3	4.1	6.6	6.7	5.8	7.1	1.8	1.0	0.6	0.8
0.5	1.2	3.2	2.2	5.7	3.9	3.8	6.3	2.3	0.9	0.4	1.1
1.4	2.1	3.1	1.3	3.0	5.0	3.7	5.0	2.6	2.7	-0.1	1.0
0.9	0.5	2.0	1.5	1.3	5.0	4.6	5.8	2.2	3.0	0.4	1.0
0.0	1.6	1.1	3.2	1.5	3.6	6.0	5.7	2.1	2.8	1.2	1.0
1.2	0.8	2.3	2.4	2.6	3.2	6.8	5.8	0.8	3.0	0.3	0.9
1.7	1.8	2.0	2.2	4.0	2.7	6.1	5.5	1.6	3.0	0.3	0.6
1.4	1.5	1.2	2.2	4.8	2.4	5.3	5.8	2.8	2.5	0.7	0.8
1.1	1.5	2.1	3.1	4.5	4.7	4.5	5.8	4.1	2.8	0.4	1.0
0.6	1.6	3.2	1.4	4.8	5.9	5.4	5.0	4.0	2.6	0.1	0.9
1.3	0.2	1.2	4.3	3.9	6.0	6.2	5.4	1.3	2.2	0.4	0.6
0.6	1.2	1.0	4.3	3.1	3.5	5.6	5.5	2.0	1.3	0.7	0.4
1.4	-77.0	1.9	4.6	2.8	5.5	7.0	5.6	3.1	2.3	1.1	1.6
1.3	-77.0	0.7	4.5	5.2	6.0	7.1	5.0	3.4	2.5	0.4	1.4
2.2	-77.0	0.5	-77.0	5.9	-77.0	5.2	5.1	-77.0	1.9	-77.0	1.3
Jan_2015	Fev_2015	Mar_2015	Abr_2015	Mai_2015	Jun_2015	Jul_2015	Ago_2015	Set_2015	Out_2015	Nov_2015	Dez_2015
1.3	0.7	1.5	4.7	1.4	5.3	4.1	5.6	3.9	3.6	1.6	1.1
1.2	0.3	2.2	4.9	3.7	5.7	5.9	6.5	4.1	3.5	0.1	1.1
1.4	0.7	2.1	3.2	0.8	6.1	6.7	5.4	3.7	2.5	0.6	1.5
1.3	1.5	3.1	4.7	1.1	6.1	6.4	5.7	4.1	0.9	0.2	1.0
1.3	1.6	3.9	4.7	2.9	5.6	5.9	6.3	3.8	1.1	0.0	1.4
1.0	0.8	3.6	1.6	4.1	6.6	6.9	6.1	4.3	1.6	1.0	1.1
1.0	1.1	3.6	3.9	5.4	5.1	7.0	6.0	4.7	2.6	2.0	0.3
1.2	1.6	3.7	2.0	3.0	4.6	6.6	5.9	4.5	2.8	2.0	0.5
1.6	1.9	3.8	0.4	4.7	3.3	6.8	7.1	3.3	2.7	2.0	0.7
1.6	1.5	3.3	1.5	5.6	5.4	6.4	6.7	4.2	0.3	2.0	1.0
1.2	0.8	3.2	3.7	5.7	1.9	6.3	5.3	4.2	0.5	1.8	0.8
1.3	1.5	2.7	4.1	5.5	3.7	6.0	3.9	3.5	0.4	1.7	0.7
0.9	0.8	3.3	4.7	5.1	2.6	6.4	4.0	1.3	1.6	1.6	0.1
0.3	0.4	3.4	3.3	5.0	2.1	6.6	4.7	3.5	2.8	1.9	0.1
0.2	0.6	3.1	1.5	5.5	3.1	6.5	4.8	0.6	2.7	1.7	0.9
0.4	1.4	3.0	1.8	6.6	5.4	6.6	3.9	2.3	1.9	1.4	1.1
0.5	2.7	0.4	3.0	7.0	6.8	4.5	4.9	3.0	0.8	1.4	1.0
0.1	2.4	0.7	2.3	6.1	7.4	6.1	5.1	3.9	0.5	1.4	0.7
1.8	2.2	2.5	3.6	5.4	7.6	6.2	5.8	4.5	1.8	1.3	1.1
0.4	0.9	2.6	3.9	5.0	8.1	6.1	5.6	4.7	1.9	1.4	0.5
0.4	2.0	1.9	3.8	5.9	7.2	5.9	5.8	4.8	2.8	1.7	0.8
0.8	1.7	1.2	3.2	6.4	5.5	6.9	4.5	4.2	2.7	0.4	0.8
0.8	0.7	1.9	4.4	6.4	5.4	7.0	2.3	3.9	1.1	1.5	0.5

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

### ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

1.5	0.9	1.7	0.7	6.3	5.5	4.7	3.6	4.3	0.1	1.1	0.0
1.7	1.5	1.8	1.4	5.9	6.4	6.4	5.2	4.0	1.4	1.3	0.9
1.8	1.6	1.0	1.9	6.8	7.1	6.7	4.6	3.4	1.0	1.7	0.9
1.7	2.6	3.5	2.4	6.9	7.7	6.8	4.2	4.0	0.8	1.4	1.3
1.8	1.6	4.4	3.3	6.4	7.7	6.8	5.3	4.2	1.1	1.3	0.2
0.6	-77.0	3.5	3.3	6.5	7.6	6.1	5.5	3.1	0.8	1.6	0.4
0.2	-77.0	4.4	4.3	6.1	6.4	4.9	5.3	3.4	0.7	1.7	0.1
1.1	-77.0	4.4	-77.0	5.8	-77.0	4.2	2.2	-77.0	0.9	-77.0	0.1
Jan_2016	Fev_2016	Mar_2016	Abr_2016	Mai_2016	Jun_2016	Jul_2016	Ago_2016	Set_2016	Out_2016	Nov_2016	Dez_2016
0.1	1.9	2.8	3.4	5.3	5.8	5.8	5.9	5.3	3.5	2.4	0.2
0.5	1.7	2.2	2.0	5.7	5.0	6.3	6.6	5.7	3.4	1.6	0.3
0.1	1.7	2.6	1.1	6.3	5.5	7.0	6.4	5.9	3.6	1.6	0.0
0.4	2.0	0.9	0.9	4.4	5.2	6.1	5.2	5.7	3.5	0.2	0.6
0.4	1.7	1.4	3.4	0.3	5.1	6.0	6.4	6.0	3.4	0.5	1.5
0.1	0.8	2.0	4.0	0.4	5.2	4.6	7.7	7.0	3.7	1.8	1.3
0.2	1.1	2.3	4.1	0.2	5.9	2.5	8.4	5.6	3.2	1.6	0.8
0.2	0.5	2.4	3.4	1.4	6.5	6.6	7.9	4.8	3.3	1.4	1.2
0.2	0.4	0.7	2.2	1.2	5.7	7.1	6.6	4.8	2.8	0.9	1.4
0.4	0.2	2.6	1.6	1.4	4.3	7.1	7.0	4.8	2.7	1.5	0.7
0.7	0.8	2.8	2.0	0.6	5.7	6.6	7.2	4.7	2.2	1.0	1.1
0.6	0.2	3.0	1.9	1.4	5.9	6.2	6.9	4.6	0.4	0.9	1.0
1.0	0.3	3.1	2.2	1.6	4.8	6.7	6.8	3.3	1.2	1.6	0.2
0.8	0.8	2.9	0.6	2.9	4.1	7.3	6.4	2.8	2.7	2.2	0.5
1.2	1.5	0.1	0.6	3.5	3.1	7.7	5.4	1.9	1.2	2.1	0.3
1.4	1.8	2.4	2.3	4.3	3.4	7.5	5.3	3.9	1.3	1.9	0.5
0.6	0.7	2.4	2.1	4.6	4.3	7.3	4.8	4.3	1.4	1.7	1.0
0.6	1.6	0.2	3.0	4.7	5.6	6.9	5.7	4.6	1.9	0.4	1.6
0.4	2.1	0.9	0.8	5.2	6.3	6.4	3.7	4.9	1.8	1.1	1.1
0.2	2.7	1.0	1.7	5.6	6.7	6.5	5.5	4.2	1.2	-0.1	1.0
0.1	2.5	1.1	1.5	3.6	6.9	6.2	6.0	3.6	0.6	0.8	0.8
0.0	2.3	1.7	2.8	4.9	6.8	6.0	6.8	3.0	0.5	0.8	1.0
0.2	1.8	2.1	3.1	4.0	5.3	7.0	6.0	3.8	1.1	1.0	0.9
0.9	0.4	3.5	3.5	2.0	5.5	7.3	5.4	3.8	0.9	0.6	0.9
-0.1	0.9	2.1	4.8	2.8	5.5	7.5	4.9	3.3	0.9	0.1	1.1
0.8	0.2	0.4	4.3	3.7	6.5	7.2	5.2	3.8	2.7	0.4	1.1
0.4	1.5	2.4	3.0	2.4	6.7	6.1	5.2	4.5	2.1	0.4	1.2
0.5	2.1	0.5	3.5	2.3	6.8	6.8	5.6	5.1	2.7	1.1	1.6
1.1	2.4	2.3	3.6	2.0	6.5	6.5	5.6	4.7	2.5	0.6	1.4
1.2	-77.0	2.0	4.8	3.6	6.1	3.9	5.3	3.9	2.7	1.2	1.3
1.4	-77.0	3.0	-77.0	5.3	-77.0	5.5	4.6	-77.0	2.7	-77.0	1.3
Jan_2017	Fev_2017	Mar_2017	Abr_2017	Mai_2017	Jun_2017	Jul_2017	Ago_2017	Set_2017	Out_2017	Nov_2017	Dez_2017
0.5	0.9	0.6	3.1	4.2	5.7	6.4	5.8	5.4	4.0	1.4	1.3
0.4	0.7	1.7	3.7	5.2	5.9	7.9	6.2	6.2	4.4	0.1	1.3
0.0	0.5	0.3	4.1	5.8	5.1	8.5	6.5	5.9	4.4	0.2	1.5

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

## ANEXO 8 – Necessidades Hídricas das Culturas

### ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.3	0.4	1.3	4.3	4.4	5.2	7.7	6.9	4.4	4.0	0.9	1.5
0.9	1.8	0.4	4.9	2.1	5.3	3.6	6.4	4.7	3.9	1.8	1.5
1.2	1.4	1.1	4.6	2.3	5.2	3.0	6.2	5.1	4.4	2.1	1.3
1.4	1.5	2.6	4.7	4.5	6.7	4.4	5.3	6.0	4.9	2.1	1.3
1.4	1.8	3.3	4.7	5.7	5.6	4.4	5.5	5.5	4.3	1.9	0.3
1.6	1.3	3.9	5.0	3.2	5.9	5.1	5.8	3.7	2.8	2.3	0.5
0.9	0.1	4.1	5.0	1.5	6.6	5.8	6.8	4.5	3.3	2.2	0.1
1.3	0.8	2.7	5.1	1.1	6.1	6.4	6.9	4.9	3.7	1.9	0.5
0.8	0.3	2.8	5.3	2.6	6.7	7.1	7.2	4.6	4.3	1.9	1.1
1.5	1.2	3.6	4.1	2.7	5.9	7.0	6.1	4.8	2.9	1.9	0.3
1.4	0.5	2.7	4.1	2.2	6.3	7.4	5.5	4.5	2.5	2.1	0.0
1.4	1.4	3.9	4.1	4.1	6.3	6.8	5.6	4.3	5.2	2.0	0.4
1.5	2.4	3.6	4.5	5.0	7.2	7.1	6.0	4.2	2.4	1.8	1.1
1.7	2.1	3.8	4.5	4.4	6.3	6.5	6.2	3.8	2.3	1.9	1.2
2.1	1.1	4.0	2.4	5.0	6.7	5.3	6.3	3.3	2.0	2.0	1.2
1.4	2.1	3.5	5.6	5.1	5.3	4.7	6.3	3.8	0.8	2.1	1.6
1.1	2.7	2.9	4.9	6.4	7.3	5.3	7.3	4.2	0.6	2.2	1.5
1.3	3.0	2.4	4.8	5.5	6.4	5.9	6.2	3.4	2.2	2.1	1.4
1.2	3.1	1.1	4.4	4.9	5.7	6.0	6.0	3.6	2.5	1.3	1.1
1.6	1.8	1.3	4.6	6.6	6.4	6.3	6.1	4.0	3.0	0.8	1.4
1.6	2.1	1.3	4.1	6.9	4.7	6.0	5.4	4.4	3.5	0.3	0.8
1.4	2.3	1.2	3.4	5.1	3.1	6.7	4.9	3.9	3.3	0.3	0.0
-0.1	1.1	0.0	3.2	3.9	5.2	7.0	5.1	4.0	2.7	1.5	0.0
0.6	0.7	1.0	5.0	2.7	4.5	6.9	4.1	4.2	4.0	1.3	0.7
0.4	0.9	2.2	5.3	2.4	3.8	6.7	2.5	4.1	4.0	-0.1	0.0
0.0	-77.0	3.6	2.6	3.1	3.9	6.1	3.7	4.0	3.6	1.1	0.0
0.5	-77.0	3.1	2.3	5.0	5.2	6.3	3.6	3.4	3.0	1.5	0.5
0.1	-77.0	3.3	-77.0	5.4	-77.0	3.2	4.2	-77.0	2.8	-77.0	0.4
Jan_2018	Fev_2018	Mar_2018	Abr_2018	Mai_2018	Jun_2018	Jul_2018	Ago_2018	Set_2018	Out_2018	Nov_2018	Dez_2018
0.3	1.7	0.5	2.8	3.5	3.9	2.4	6.5	6.1	4.5	1.4	0.8
0.1	1.8	0.3	0.9	2.2	4.3	1.8	7.2	5.2	5.2	1.0	0.6
0.2	1.1	0.1	1.6	3.4	2.8	4.4	7.2	2.4	4.7	1.5	0.0
0.4	1.4	0.7	2.0	4.9	1.8	4.4	7.2	2.6	4.9	0.1	1.2
-0.1	1.4	0.9	3.1	5.1	1.9	5.3	6.8	1.7	4.4	0.8	1.1
1.3	1.9	1.5	1.3	4.9	4.2	5.1	6.8	3.7	4.2	0.4	1.2
0.9	1.8	1.2	1.3	4.1	1.1	5.5	6.1	3.6	3.6	1.3	1.1
1.2	1.8	0.3	1.1	3.9	2.2	5.2	5.3	3.8	4.3	0.3	1.1
-0.1	0.4	0.0	0.5	3.2	2.1	5.3	5.7	3.9	3.8	0.5	1.2
0.3	1.7	1.6	1.0	4.9	1.3	4.8	6.0	5.1	2.0	0.2	1.8
0.9	0.8	1.0	2.1	4.5	3.1	5.3	6.5	5.6	1.7	0.3	0.5
0.6	2.0	1.8	0.4	3.9	4.2	4.5	6.1	5.0	1.8	1.1	0.3
0.4	0.9	1.9	1.8	4.2	5.2	5.1	5.5	5.7	3.0	1.4	0.9
0.6	0.4	0.1	3.2	4.5	5.6	4.6	5.6	5.2	1.8	1.6	0.6
1.2	0.3	0.9	0.7	5.8	5.3	3.2	6.0	5.0	0.6	1.1	0.0

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.3	1.5	1.6	3.2	6.1	5.7	5.5	5.5	4.4	1.5	1.1	0.7
1.3	1.2	1.0	4.0	5.3	6.8	5.9	4.8	4.6	2.0	0.4	0.8
1.5	2.4	1.9	4.8	3.4	7.5	4.8	6.3	4.4	2.0	0.0	-0.1
1.4	1.9	1.7	4.5	4.9	7.0	5.0	6.7	4.3	1.7	0.4	0.3
1.2	2.6	2.7	4.8	3.0	5.9	5.5	6.5	4.6	2.4	0.4	0.3
1.2	2.8	3.3	1.3	3.5	4.5	5.8	5.4	4.5	1.1	0.6	0.4
1.3	2.5	3.0	2.3	3.4	4.5	5.9	5.9	4.8	2.0	0.3	0.4
1.1	2.6	0.5	4.0	4.5	5.8	5.4	6.0	5.4	2.4	0.6	0.6
1.0	2.6	2.2	4.9	0.1	5.6	4.7	6.1	5.3	2.6	0.2	0.6
0.5	2.7	2.5	4.6	2.2	3.9	4.2	6.0	5.0	2.2	0.2	0.9
1.3	2.3	3.2	4.6	2.4	4.8	5.4	6.0	4.8	1.0	1.3	1.0
1.4	0.4	3.8	3.6	3.5	5.3	5.7	3.2	4.2	2.3	1.1	0.0
2.1	0.1	2.9	2.2	3.3	4.7	5.7	3.7	3.7	2.1	1.2	0.9
2.4	-77.0	2.0	2.1	2.5	3.8	5.6	4.4	4.1	1.9	-0.1	1.3
2.2	-77.0	1.3	2.6	2.6	2.1	5.5	5.1	3.7	0.7	0.7	1.7
1.7	-77.0	2.7	-77.0	3.2	-77.0	5.5	5.7	-77.0	0.1	-77.0	1.6
Jan_2019	Fev_2019	Mar_2019	Abr_2019	Mai_2019	Jun_2019	Jul_2019	Ago_2019	Set_2019	Out_2019	Nov_2019	Dez_2019
1.4	0.5	2.7	1.5	4.7	7.1	5.9	6.4	5.0	3.4	0.2	0.2
1.3	1.8	3.0	2.9	5.3	7.2	4.8	5.9	5.6	3.5	0.8	1.5
1.3	1.7	2.1	3.5	5.5	5.9	5.4	6.0	6.0	3.8	1.3	1.2
1.1	1.7	1.5	2.4	5.7	3.3	4.3	5.8	6.4	3.2	0.3	0.9
1.2	1.7	0.2	1.1	5.1	4.4	5.1	6.0	6.6	3.4	1.1	1.3
1.4	1.9	0.8	1.2	3.7	1.8	5.1	4.6	6.1	3.9	0.5	1.1
2.0	1.8	0.7	0.4	1.1	3.9	4.3	2.3	5.8	3.9	1.5	1.1
1.6	1.3	2.2	1.8	2.9	5.2	4.9	2.7	5.9	4.1	1.6	0.1
1.6	1.0	2.8	1.9	0.6	5.7	5.7	3.1	4.9	3.8	0.2	1.1
1.9	0.1	3.1	2.3	3.7	5.7	7.3	4.9	4.7	3.7	0.5	1.0
1.9	1.8	3.1	3.8	5.5	6.1	7.7	5.1	5.8	3.2	0.6	1.2
1.4	2.4	3.1	3.8	7.3	5.9	3.2	5.7	5.8	2.6	1.3	0.0
1.3	2.2	3.3	2.2	7.1	5.5	3.9	6.1	4.9	1.8	1.1	0.1
1.3	2.3	3.6	1.4	6.7	3.6	5.8	6.3	4.2	1.1	1.0	0.2
1.0	1.9	3.9	2.1	6.4	4.7	5.7	6.4	2.9	1.6	1.6	0.0
-0.1	2.4	4.1	3.7	3.9	5.4	4.8	6.5	3.4	1.2	1.3	-0.1
0.8	1.8	2.4	0.1	3.4	4.3	4.8	6.2	4.1	0.4	0.1	1.1
0.5	0.0	3.5	2.0	3.7	1.9	6.3	4.2	4.1	1.6	1.4	-0.1
-0.1	1.4	3.8	1.8	4.9	2.7	6.7	4.4	3.5	0.3	0.3	-0.1
1.6	1.6	3.7	4.3	5.0	4.0	6.5	5.7	2.0	1.8	0.0	0.0
1.2	1.9	3.6	4.5	4.2	5.8	5.3	5.7	0.5	1.7	0.4	0.6
0.5	2.4	3.8	2.9	5.3	5.8	5.6	6.0	2.5	2.4	0.8	0.7
0.6	2.1	4.1	1.2	5.0	2.1	5.8	6.6	3.4	1.7	0.9	0.1
1.6	3.0	4.2	0.9	5.9	1.2	6.5	6.3	1.6	1.8	0.4	1.1
1.8	3.0	4.5	2.2	6.5	4.0	3.9	3.6	3.5	2.5	0.5	1.0
2.0	3.2	4.5	3.0	6.7	3.1	5.2	2.5	3.9	2.6	0.0	1.0
1.7	2.1	4.9	4.6	6.1	5.4	2.9	4.7	4.2	1.7	0.3	1.5

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

### ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.4	2.1	4.4	4.9	6.6	6.3	5.8	4.6	3.8	0.0	0.4	1.9
0.3	-77.0	4.3	5.2	7.5	5.9	5.7	5.3	3.9	0.6	0.2	2.0
0.2	-77.0	3.9	4.8	7.8	5.1	6.3	5.7	3.8	0.0	0.0	1.3
0.1	-77.0	3.1	-77.0	7.3	-77.0	5.4	5.3	-77.0	0.3	-77.0	1.0
Jan_2020	Fev_2020	Mar_2020	Abr_2020	Mai_2020	Jun_2020	Jul_2020	Ago_2020	Set_2020	Out_2020	Nov_2020	Dez_2020
1.0	0.3	0.4	0.5	2.3	3.2	5.7	6.3	5.6	2.1	0.9	1.7
0.7	1.5	1.8	2.3	4.3	3.3	5.8	6.3	5.8	1.7	0.9	1.6
0.8	1.7	0.5	3.6	5.4	4.3	6.1	6.4	6.6	2.3	2.2	1.4
1.0	1.8	0.7	1.8	2.6	4.0	7.1	6.4	5.8	2.0	0.8	0.2
1.2	2.4	1.6	0.0	3.1	5.1	8.3	7.2	5.5	2.0	0.1	0.8
1.1	1.5	2.4	0.3	4.5	4.2	7.5	6.7	5.6	3.0	0.0	0.1
1.2	0.9	2.8	1.9	4.6	3.7	7.0	5.8	6.3	3.5	0.6	0.5
1.2	0.4	1.3	1.5	2.4	5.0	6.1	5.7	6.2	3.1	0.0	0.9
1.0	0.4	2.9	0.3	1.4	5.5	5.8	5.5	5.5	3.4	1.0	0.1
1.4	1.4	3.3	2.5	2.6	5.2	6.4	4.5	5.2	3.6	1.6	0.0
1.4	1.4	3.1	2.8	1.8	2.6	5.7	4.0	4.8	3.9	1.2	0.2
1.2	0.0	3.0	2.2	2.4	3.0	6.6	3.8	5.2	4.4	1.1	0.9
0.9	0.9	2.2	1.4	0.5	2.9	7.2	5.6	5.1	3.0	0.8	0.1
0.1	1.8	3.5	1.6	1.9	4.5	7.3	5.4	3.1	2.9	0.2	0.1
0.1	1.5	2.6	1.6	2.3	4.7	8.3	4.7	3.7	3.0	0.1	0.3
0.4	0.5	2.7	1.2	4.1	4.6	8.3	4.4	2.8	2.8	1.3	0.5
0.8	1.4	3.2	2.3	5.7	5.0	8.2	3.7	1.5	2.7	0.8	1.2
0.2	2.0	3.5	3.3	5.6	5.4	8.4	4.3	0.9	2.7	1.2	0.3
2.2	2.4	2.4	3.6	5.9	5.9	6.4	5.5	1.0	1.1	2.3	0.4
2.1	2.2	0.0	0.9	4.9	6.1	6.6	1.5	2.5	-0.1	2.2	0.5
1.6	2.7	1.4	2.2	4.9	6.2	5.4	3.7	3.3	0.8	2.3	0.0
0.3	2.8	2.2	3.0	5.4	7.1	6.6	5.7	2.7	1.3	1.9	0.2
0.0	3.4	2.1	2.8	5.7	6.8	6.6	6.2	1.5	1.6	1.5	-0.1
0.2	3.4	2.8	3.4	5.7	4.7	7.0	6.4	2.0	0.8	0.9	0.9
0.8	1.4	3.1	2.2	5.7	5.0	7.0	6.2	3.5	0.4	-0.1	1.3
0.9	2.3	3.3	1.9	6.6	4.9	6.1	5.9	3.2	1.8	0.1	1.7
-0.1	2.5	3.1	2.6	7.2	5.2	6.2	5.6	3.7	0.6	0.9	0.9
0.1	2.7	3.3	2.3	7.1	6.0	5.9	5.5	3.7	0.9	0.6	0.7
0.1	1.1	2.8	1.3	6.2	6.1	6.3	5.1	4.0	1.2	0.5	0.6
-0.1	-77.0	0.5	2.0	5.5	6.2	6.6	5.4	3.6	2.2	0.9	1.0
0.0	-77.0	0.2	-77.0	4.1	-77.0	6.7	6.0	-77.0	2.1	-77.0	0.1

#### 2.2.9 BELVER

Tabela 22. Evapotranspiração de referência diária na região de cálculo de Belver (mm)

Jan_2003	Fev_2003	Mar_2003	Abr_2003	Mai_2003	Jun_2003	Jul_2003	Ago_2003	Set_2003	Out_2003	Nov_2003	Dez_2003
-0.1	1.3	0.0	3.0	4.0	3.8	4.2	6.0	3.4	0.9	1.7	0.7
0.2	1.2	0.5	2.9	4.1	4.4	3.6	4.2	3.2	2.1	0.8	1.0

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

## ANEXO 8 – Necessidades Hídricas das Culturas

### ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.8	1.1	1.3	4.2	4.6	2.1	5.4	5.4	3.3	1.6	0.6	0.0
0.4	0.8	1.9	4.0	3.0	3.0	5.6	5.2	3.3	2.9	0.5	0.9
0.1	1.6	1.6	3.7	3.2	5.2	5.4	5.2	3.8	3.3	0.8	-0.1
1.0	1.1	2.0	3.9	4.2	5.6	5.2	5.5	4.3	3.7	1.8	-0.1
0.4	0.4	1.2	4.1	2.6	5.6	5.3	5.3	4.2	3.4	0.8	0.3
0.5	1.4	2.3	3.9	4.2	6.1	5.9	5.9	3.5	3.2	0.9	-0.1
0.9	1.1	2.3	2.8	4.3	5.6	5.9	5.2	4.6	3.4	-0.1	0.2
1.5	1.1	2.7	1.2	4.6	5.5	5.7	5.8	5.3	2.9	0.5	1.0
0.9	0.0	2.7	2.1	4.7	5.9	5.1	5.5	5.4	0.2	0.9	0.8
0.9	0.8	1.8	0.7	4.9	6.8	2.7	6.3	5.7	2.0	0.3	0.9
1.1	1.9	2.8	0.5	5.0	7.1	2.0	6.2	5.8	1.8	0.7	0.9
1.0	1.5	2.5	1.4	5.2	6.3	4.0	6.6	5.3	2.0	0.0	0.7
1.0	1.5	2.5	2.1	5.0	5.4	3.8	4.3	5.3	0.7	0.7	0.5
1.0	1.5	2.3	2.7	4.8	3.8	4.6	3.9	4.6	1.9	2.0	0.8
0.3	1.4	1.3	2.8	4.8	5.4	5.5	4.5	4.8	1.0	2.1	0.0
-0.1	-0.1	2.3	1.9	4.8	6.5	5.8	5.1	5.0	0.1	1.8	0.2
1.0	0.3	2.4	1.9	4.7	8.5	5.5	5.2	4.2	1.3	1.5	0.0
0.1	0.9	3.3	1.8	5.2	7.2	5.7	5.3	2.8	0.8	1.1	0.2
1.0	0.4	3.5	3.3	6.0	6.0	5.3	4.9	2.3	1.3	0.2	0.7
0.6	0.9	2.2	1.9	6.4	4.6	5.7	5.0	2.7	1.9	0.1	1.3
1.5	0.8	1.0	1.5	6.2	5.1	5.7	5.3	3.1	2.1	0.4	1.2
2.1	0.1	1.6	2.0	5.5	3.3	5.8	4.5	3.7	1.4	0.5	1.1
1.4	0.8	0.7	0.5	5.4	5.5	5.5	4.9	3.6	0.3	0.9	0.8
1.6	0.3	0.8	3.9	5.9	5.5	5.3	5.2	3.0	0.8	0.0	0.2
1.6	1.0	1.4	3.1	6.3	6.0	5.7	1.9	3.2	0.5	0.8	0.1
1.5	0.8	1.3	1.5	6.2	5.1	5.6	1.6	2.7	1.0	0.2	0.5
1.6	-77.0	0.6	1.7	5.8	2.3	6.2	3.0	1.8	1.5	0.2	0.4
1.5	-77.0	1.4	3.2	1.8	3.8	5.8	3.3	0.1	0.3	0.2	0.7
1.8	-77.0	2.5	-77.0	4.9	-77.0	6.0	2.4	-77.0	0.5	-77.0	0.1
Jan_2004	Fev_2004	Mar_2004	Abr_2004	Mai_2004	Jun_2004	Jul_2004	Ago_2004	Set_2004	Out_2004	Nov_2004	Dez_2004
0.2	0.1	1.7	1.5	2.8	5.7	6.9	5.9	4.1	3.0	1.9	0.4
0.8	0.4	2.2	1.4	3.3	5.9	7.0	5.1	1.4	3.2	0.5	0.4
1.0	1.4	1.3	1.8	2.6	6.6	6.9	4.6	3.1	3.5	0.0	1.1
0.9	1.0	2.4	3.2	3.5	6.2	6.5	5.6	2.2	3.7	1.2	0.9
1.0	1.5	1.0	3.3	0.5	4.1	5.9	5.6	2.1	3.1	1.7	1.3
0.8	1.4	1.5	4.0	2.9	5.1	5.2	5.7	2.9	1.9	2.1	1.0
0.4	0.6	2.1	3.5	3.3	5.1	4.5	5.5	3.0	3.4	1.4	0.9
-0.1	1.3	2.3	3.0	4.2	5.6	5.2	1.4	2.7	1.7	1.6	0.9
0.5	1.5	1.6	4.6	1.3	5.6	5.6	1.9	3.8	1.8	1.7	0.8
0.6	1.8	1.3	4.2	2.3	5.9	4.7	2.3	2.9	1.2	2.1	0.8
0.8	1.9	0.2	3.7	2.6	6.0	5.9	1.9	3.6	0.8	1.8	0.9
0.8	1.7	0.3	3.7	3.9	6.2	6.4	4.5	4.2	2.3	2.2	1.4
0.3	1.6	2.6	4.2	5.0	6.5	7.1	5.3	3.8	2.4	2.5	0.5
0.4	1.3	2.9	4.1	5.2	8.7	6.5	5.6	3.3	1.4	2.5	1.1

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

## ANEXO 8 – Necessidades Hídricas das Culturas

### ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.0	1.3	3.0	4.1	5.3	7.9	5.9	5.0	4.2	0.9	1.8	1.1
1.0	1.1	2.7	2.7	5.9	7.2	5.4	2.7	4.6	1.4	1.5	0.9
0.9	1.2	2.3	2.4	5.5	7.0	5.7	2.6	4.6	0.9	1.3	1.0
1.3	1.6	2.7	1.2	6.0	5.5	5.9	3.1	4.1	0.2	1.4	1.1
1.9	2.6	2.9	1.3	6.2	4.9	4.6	3.2	3.9	0.1	1.0	0.8
1.4	1.6	3.1	1.3	4.8	5.7	5.9	4.0	3.5	1.3	1.5	1.4
1.0	1.8	2.8	0.5	2.2	4.6	5.4	5.1	4.2	1.2	1.1	1.3
0.9	0.2	3.5	2.8	2.6	4.4	4.4	4.7	4.5	2.1	1.2	1.4
1.0	0.0	3.0	4.5	2.1	3.1	5.1	5.1	4.4	2.0	1.1	1.0
1.2	0.6	1.2	4.6	1.8	4.4	6.1	5.0	3.3	0.5	1.2	0.9
0.5	0.0	3.7	4.8	1.8	6.1	7.0	5.3	4.5	0.5	1.1	1.0
0.1	2.0	3.0	5.0	4.4	6.7	7.5	5.3	5.4	1.3	1.1	1.1
0.2	1.8	2.7	4.9	4.8	6.9	6.9	5.1	4.5	1.1	0.8	1.0
1.4	1.0	2.1	3.5	4.6	6.9	5.7	5.7	4.4	0.6	0.4	0.1
0.8	1.2	0.9	4.1	4.5	6.8	6.1	5.2	4.3	0.8	0.3	0.9
0.0	-77.0	1.4	2.6	5.2	7.3	5.6	4.8	3.6	1.0	0.2	1.1
-0.1	-77.0	1.4	-77.0	5.7	-77.0	5.7	4.0	-77.0	0.2	-77.0	0.9
Jan_2005	Fev_2005	Mar_2005	Abr_2005	Mai_2005	Jun_2005	Jul_2005	Ago_2005	Set_2005	Out_2005	Nov_2005	Dez_2005
0.6	1.5	2.4	2.3	2.0	6.6	6.3	5.8	5.2	4.3	0.5	0.1
0.8	1.8	2.0	0.8	3.4	6.1	7.3	6.7	5.3	4.7	0.9	0.6
1.2	1.5	1.9	1.5	3.1	6.2	6.2	7.2	5.3	4.7	-0.1	0.2
1.0	1.5	3.2	2.0	4.8	6.1	6.1	8.1	5.3	4.3	1.7	0.1
0.9	0.7	2.5	2.8	5.7	6.7	6.9	6.6	4.3	3.9	1.8	0.6
1.1	0.9	2.4	2.9	6.1	7.1	7.0	5.9	1.6	3.7	1.9	1.0
1.3	0.7	2.9	3.2	5.2	8.4	6.3	6.0	2.9	3.8	1.8	1.0
0.9	1.4	2.7	3.4	3.7	6.9	7.1	4.4	4.2	3.0	1.0	0.9
0.9	1.6	2.7	4.4	3.7	6.4	6.6	3.1	1.3	1.1	1.7	1.5
0.6	1.8	2.0	4.5	3.0	5.8	7.3	3.1	2.6	0.2	1.9	2.3
0.8	1.8	2.6	4.1	1.7	5.2	6.7	4.8	3.1	1.0	1.7	1.4
0.8	1.7	1.3	4.1	2.2	2.7	6.1	6.2	3.9	1.2	0.8	2.0
0.0	2.2	1.4	3.7	2.8	2.5	6.4	5.7	5.0	2.3	0.3	1.3
0.2	2.6	1.1	2.6	3.0	4.0	6.1	6.6	5.2	1.3	1.0	1.3
0.1	1.9	2.7	2.6	3.7	5.9	6.5	6.5	4.7	1.2	0.8	1.3
1.2	2.9	2.6	3.2	2.0	6.5	5.9	5.5	3.9	2.0	1.0	1.2
1.5	2.5	4.0	1.2	4.6	7.3	5.7	5.0	5.0	0.2	0.1	1.1
1.0	2.3	3.9	2.6	5.0	6.7	6.0	5.7	5.3	1.8	0.2	1.2
1.3	2.1	2.0	1.9	5.4	5.8	6.9	4.3	4.5	2.4	-0.1	1.2
1.5	2.0	1.5	1.7	5.3	6.4	7.1	6.2	4.7	0.3	0.1	1.2
1.4	1.8	0.1	3.3	3.4	6.8	6.6	6.8	4.4	0.4	0.6	1.5
1.3	0.5	2.4	2.6	4.1	6.9	5.4	6.2	4.0	0.9	0.5	1.7
1.1	0.6	1.0	0.8	5.2	5.2	6.0	5.2	4.0	1.8	1.3	1.2
1.4	1.4	1.9	2.4	6.3	4.4	4.8	5.4	3.7	2.1	1.3	0.4
1.7	2.1	1.1	3.4	6.2	5.1	4.0	5.3	3.8	2.0	0.6	0.0
1.3	1.3	1.9	4.3	5.9	5.0	3.4	5.2	4.0	2.8	0.5	-0.1



Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

1.9	1.7	1.9	4.6	3.9	5.0	3.6	5.3	4.0	0.1	0.5	0.6
1.5	3.2	0.7	4.6	3.9	3.8	4.3	5.2	4.0	0.6	0.1	0.5
1.2	-77.0	1.3	4.5	3.3	4.8	4.8	5.0	3.9	0.5	1.2	0.7
2.0	-77.0	2.8	4.4	3.6	5.8	5.8	5.7	4.5	-0.1	1.2	0.4
1.8	-77.0	4.0	-77.0	4.2	-77.0	6.1	5.2	-77.0	0.6	-77.0	0.0
Jan_2006	Fev_2006	Mar_2006	Abr_2006	Mai_2006	Jun_2006	Jul_2006	Ago_2006	Set_2006	Out_2006	Nov_2006	Dez_2006
0.5	1.3	2.5	2.7	4.9	4.9	5.2	6.3	5.1	2.3	1.4	1.0
1.0	1.2	1.6	3.4	4.3	5.9	4.1	6.1	5.5	1.7	0.1	0.3
1.0	0.7	0.8	3.3	3.7	7.3	4.9	6.3	5.6	2.0	0.4	0.1
1.2	1.5	0.8	3.0	3.6	7.5	5.5	7.3	5.9	1.7	-0.1	0.2
0.9	2.0	2.5	0.9	4.3	6.9	6.0	7.4	6.2	2.8	0.1	0.2
0.6	1.8	1.9	1.0	4.7	6.3	6.4	7.8	5.6	2.4	0.0	0.4
0.7	1.7	2.0	0.8	3.8	6.2	7.1	7.0	4.9	2.2	0.6	0.0
0.9	1.5	1.8	3.3	4.2	5.7	6.9	7.4	4.7	2.7	0.7	0.9
0.9	1.0	1.3	2.6	5.1	3.8	7.1	7.9	4.1	2.5	1.1	0.8
1.1	1.4	2.5	3.4	5.5	4.8	5.7	7.2	4.9	0.6	1.7	1.0
1.2	1.8	2.8	4.2	4.9	6.2	5.7	7.3	2.4	2.4	1.8	1.1
0.8	1.9	2.8	4.0	4.4	5.2	6.0	7.0	4.0	2.9	1.5	0.9
0.6	1.8	2.9	4.4	5.2	1.9	5.1	6.3	1.5	3.3	1.5	1.0
0.6	1.7	3.2	1.0	4.6	2.2	6.3	5.1	3.3	3.1	1.3	1.0
-0.1	1.4	2.9	1.6	4.1	3.9	6.7	4.8	3.6	1.2	0.0	1.0
0.9	1.2	0.6	2.3	5.2	3.1	6.1	2.3	4.2	0.1	1.0	0.8
0.2	0.9	-0.1	2.9	4.7	2.0	6.6	3.8	4.0	1.4	0.6	0.7
1.2	0.8	0.6	3.0	5.7	5.2	2.7	3.1	4.3	0.7	0.4	0.8
1.3	0.7	1.1	3.9	5.3	5.3	5.6	3.9	4.1	0.5	0.6	0.9
1.2	0.7	0.7	2.4	4.8	5.5	6.1	5.6	3.9	0.5	1.0	0.9
1.1	1.9	1.2	3.0	3.6	5.9	6.2	6.3	1.4	0.8	0.6	1.0
0.6	2.3	0.9	1.5	4.4	6.7	6.7	6.3	1.9	0.4	0.5	1.0
0.9	1.6	0.0	3.6	5.0	6.1	6.3	6.2	2.0	1.5	0.2	1.0
0.5	1.8	1.5	4.6	5.5	5.3	5.8	5.6	1.0	0.6	0.3	0.9
1.5	0.0	1.0	4.2	6.1	5.2	6.3	5.5	2.2	0.8	0.9	1.0
1.5	1.6	2.7	4.5	7.1	4.0	6.0	5.7	3.5	0.3	0.7	1.1
1.7	2.3	2.0	4.8	7.0	5.1	6.1	5.7	3.1	1.8	0.8	1.2
1.6	2.5	2.4	5.5	6.4	5.4	6.3	5.9	1.9	2.6	0.7	1.1
0.3	-77.0	0.6	5.0	4.9	5.6	6.5	6.1	0.6	2.7	1.0	0.2
1.2	-77.0	2.6	5.1	5.7	5.7	6.4	6.2	1.1	1.2	1.0	0.0
1.4	-77.0	1.5	-77.0	6.6	-77.0	6.7	6.4	-77.0	0.8	-77.0	0.3
Jan_2007	Fev_2007	Mar_2007	Abr_2007	Mai_2007	Jun_2007	Jul_2007	Ago_2007	Set_2007	Out_2007	Nov_2007	Dez_2007
0.6	1.1	1.5	2.9	1.7	5.1	4.8	5.3	5.8	1.9	2.4	0.3
1.0	1.4	1.0	0.7	1.0	5.6	5.6	6.1	5.4	0.4	2.3	0.7
0.9	0.2	1.0	1.6	3.2	5.4	4.6	7.3	5.1	0.8	2.4	0.9
0.7	0.9	0.4	2.6	3.4	6.5	6.3	6.4	5.3	1.6	2.3	1.0
0.8	0.9	1.8	2.8	4.7	6.4	7.2	4.9	7.5	2.1	2.1	0.7
0.8	1.1	0.3	2.8	5.5	6.7	7.1	4.8	6.2	2.5	2.5	0.7

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

## ANEXO 8 – Necessidades Hídricas das Culturas

### ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.2	0.2	2.8	2.9	5.1	5.5	6.4	5.2	4.7	2.5	2.4	0.9
0.3	0.8	3.0	2.3	5.5	3.0	6.5	6.3	4.1	2.9	2.0	1.1
0.1	1.7	2.7	1.9	5.9	4.6	6.6	6.7	2.3	3.4	2.3	0.9
0.1	1.0	3.6	1.8	4.9	3.4	6.7	6.2	3.2	3.2	2.8	1.0
0.9	0.1	4.0	1.6	4.3	4.5	6.5	4.4	4.6	3.4	1.4	1.1
0.9	1.4	2.1	2.2	3.8	4.7	6.8	4.8	3.3	3.0	1.6	1.0
0.9	0.2	3.0	2.9	3.6	3.0	6.5	4.1	3.3	2.9	1.7	1.2
0.7	2.0	3.3	3.9	3.8	2.5	5.4	5.0	3.6	2.4	1.7	1.4
0.3	0.7	3.2	3.9	4.7	4.5	2.5	2.6	3.3	2.7	1.8	1.0
0.2	0.6	3.2	4.5	5.4	0.9	1.8	5.3	2.3	2.5	1.4	1.1
0.3	1.4	3.3	4.7	6.4	3.3	5.3	5.8	1.5	2.5	1.4	0.8
0.8	1.9	3.4	5.2	6.3	3.3	5.9	6.1	2.2	2.9	1.5	0.1
1.2	0.2	2.5	3.2	5.3	1.8	5.5	5.8	3.6	2.8	0.0	0.2
0.9	1.3	3.2	1.2	2.9	3.7	5.6	5.9	3.8	2.6	0.1	0.5
1.1	1.6	3.3	4.1	2.7	4.6	5.8	5.6	1.9	2.7	0.7	0.8
0.9	1.2	3.0	4.7	1.4	5.5	5.5	6.1	3.7	2.6	1.0	0.9
0.8	0.5	3.0	4.8	2.2	5.9	4.4	5.8	3.5	1.7	1.2	0.9
1.1	1.2	2.9	2.9	3.6	5.1	5.7	6.5	4.2	0.8	1.9	0.9
1.1	1.2	2.4	2.4	3.6	4.5	6.2	3.9	3.8	2.3	2.3	0.3
2.2	2.2	1.8	3.3	3.2	5.7	6.3	4.1	4.1	2.3	2.0	1.2
2.1	2.0	2.8	2.9	2.2	5.8	6.5	5.3	3.7	2.6	1.7	1.1
1.1	0.2	2.5	3.6	4.7	5.9	6.8	4.4	4.6	2.4	1.1	0.8
0.4	-77.0	3.2	3.8	4.9	5.8	7.7	3.2	1.2	2.2	1.0	0.7
0.3	-77.0	2.1	2.4	3.0	5.5	7.5	4.9	0.5	2.8	1.1	0.6
0.9	-77.0	1.2	-77.0	3.1	-77.0	6.2	6.5	-77.0	2.7	-77.0	0.8
Jan_2008	Fev_2008	Mar_2008	Abr_2008	Mai_2008	Jun_2008	Jul_2008	Ago_2008	Set_2008	Out_2008	Nov_2008	Dez_2008
0.1	0.3	2.1	3.7	4.2	3.9	6.3	5.8	4.4	3.0	0.8	0.7
0.4	0.7	2.2	4.4	4.5	4.2	4.7	6.1	4.2	3.4	1.5	1.1
0.1	0.2	1.5	4.8	4.3	4.7	5.8	6.0	3.4	3.4	1.1	0.1
0.5	0.4	3.6	4.6	4.2	4.6	5.4	6.2	2.5	3.4	0.4	0.1
-0.1	0.4	3.4	4.1	3.5	4.9	5.8	6.0	1.4	3.4	1.5	0.3
0.0	1.6	3.2	4.0	2.8	5.5	5.8	4.9	3.2	3.2	0.8	-0.1
0.4	2.1	3.0	1.2	1.2	5.8	5.9	5.5	3.7	0.8	0.6	0.1
0.3	2.2	2.7	0.6	3.4	5.5	5.4	5.5	4.2	2.4	1.3	0.7
0.2	2.4	2.4	1.3	2.6	5.5	5.8	6.1	3.6	3.5	1.5	1.3
0.6	2.3	0.2	1.0	2.7	5.6	6.0	5.9	4.1	4.8	1.4	1.1
0.8	2.3	1.4	3.5	2.6	5.4	4.0	3.4	3.9	1.8	0.7	0.5
0.9	2.5	2.6	2.7	3.3	6.7	5.8	4.4	4.6	0.4	1.5	0.5
-0.1	2.3	2.7	1.9	2.7	6.4	5.9	5.3	4.3	1.9	1.5	0.3
0.5	2.1	2.3	3.7	2.2	6.2	6.5	4.8	4.8	2.5	1.7	0.6
0.0	2.0	2.4	3.3	1.1	4.7	6.6	5.3	4.5	2.4	1.7	1.2
0.8	1.6	2.2	2.9	3.7	2.9	6.5	2.1	3.4	2.4	1.6	0.9
0.0	0.6	1.2	1.2	4.2	5.4	6.1	4.7	2.5	1.8	1.6	0.7
0.8	-0.1	1.4	2.0	2.6	5.8	6.2	5.1	2.5	1.9	1.2	0.7

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

1.3	0.5	0.4	1.2	3.5	6.1	6.3	5.5	3.8	2.1	2.0	1.0
1.3	0.6	3.2	1.2	2.3	6.2	4.3	5.3	2.6	1.2	1.8	1.1
1.2	1.4	3.3	2.6	2.7	6.3	5.5	4.4	1.8	2.0	1.5	1.3
1.5	2.3	1.6	2.2	1.5	6.0	6.3	4.9	1.8	2.7	1.7	1.4
1.5	0.5	3.1	2.3	1.3	5.1	5.8	5.7	2.0	2.9	1.5	1.0
1.2	0.6	2.8	4.2	2.3	6.1	5.6	5.7	2.5	2.4	0.9	0.9
1.4	1.9	2.5	5.3	2.8	6.4	3.0	5.0	4.0	2.8	1.4	1.0
1.3	2.0	2.1	5.0	1.7	6.5	5.1	4.5	3.8	2.8	1.9	0.8
1.4	0.6	2.0	4.9	2.2	6.5	5.7	4.9	3.5	2.3	1.4	0.0
1.5	1.7	2.6	3.4	3.4	7.2	5.8	4.9	3.4	2.4	0.2	-0.1
1.5	2.2	3.3	2.3	2.7	6.6	5.7	4.4	3.6	2.1	0.2	-0.1
1.4	-77.0	2.2	3.2	2.5	6.8	5.8	3.0	3.6	0.4	0.5	0.7
1.6	-77.0	2.9	-77.0	3.9	-77.0	3.8	4.2	-77.0	0.3	-77.0	-0.1
Jan_2009	Fev_2009	Mar_2009	Abr_2009	Mai_2009	Jun_2009	Jul_2009	Ago_2009	Set_2009	Out_2009	Nov_2009	Dez_2009
0.0	0.0	0.7	3.5	5.0	6.8	5.4	2.8	4.9	2.5	1.2	0.0
-0.1	0.6	1.4	3.6	5.9	6.0	5.9	5.0	4.9	3.7	1.8	0.4
0.4	0.1	2.3	3.6	6.0	4.7	5.4	5.9	5.1	3.3	1.4	0.6
1.0	0.4	1.4	3.9	6.0	4.5	5.8	5.5	5.3	3.0	1.8	0.9
0.2	0.4	2.1	3.5	6.1	1.9	4.0	5.2	4.9	1.3	0.9	0.0
1.0	0.7	1.2	2.3	5.9	2.1	5.7	5.3	5.2	1.2	0.2	0.1
0.9	1.0	3.0	3.1	5.1	2.9	5.8	5.5	5.2	2.4	1.4	0.8
1.1	0.3	2.7	3.6	3.3	3.2	5.9	4.7	4.6	2.0	0.4	0.7
0.8	0.3	3.1	2.6	2.5	3.2	6.0	5.2	4.2	2.5	1.6	0.3
0.8	1.4	3.2	2.8	1.8	3.0	5.7	6.0	4.0	2.9	1.3	0.1
1.1	1.5	3.1	2.9	1.8	6.0	5.7	6.5	4.0	3.3	1.0	0.8
1.0	1.9	3.8	3.6	2.1	6.7	6.1	6.2	2.6	4.1	0.9	0.9
0.1	1.9	3.5	1.5	2.3	5.9	5.7	3.5	3.4	4.7	0.6	1.3
0.4	1.6	3.3	1.3	4.3	1.4	5.3	5.7	3.6	3.3	0.7	1.5
0.0	2.0	3.5	1.3	4.9	4.6	5.9	4.8	4.8	3.4	0.5	1.0
0.6	1.9	3.9	1.8	4.0	2.3	6.1	5.8	4.0	4.7	0.5	0.0
1.2	2.0	5.0	1.1	4.2	6.3	5.9	6.0	3.0	3.4	1.0	0.6
0.0	2.2	4.7	0.8	4.8	4.9	6.6	6.1	1.4	2.8	0.5	0.1
0.4	1.6	3.6	3.2	5.0	7.0	6.6	5.8	3.4	2.5	0.5	1.3
0.4	1.8	3.8	4.0	4.9	7.0	5.0	5.7	3.7	0.7	0.5	1.2
0.6	1.9	3.3	4.3	5.2	7.7	5.7	5.5	3.8	0.3	0.1	0.2
0.1	2.3	3.4	5.2	4.2	6.3	1.8	5.8	4.4	1.8	0.8	0.2
0.3	2.2	2.7	5.3	1.9	5.6	4.3	5.6	4.5	1.0	1.0	0.3
1.2	2.3	3.8	4.5	2.2	4.7	5.4	4.1	4.5	1.0	1.2	0.3
0.6	2.3	4.5	3.0	1.8	3.2	6.0	5.4	4.0	1.5	0.0	0.1
0.8	2.3	3.7	3.7	5.2	5.3	6.0	4.9	3.9	2.0	0.3	0.7
0.1	2.6	2.8	2.9	6.7	5.2	6.3	5.0	3.8	1.9	0.4	0.2
0.0	0.9	3.9	3.0	8.2	1.1	6.0	5.1	3.9	2.3	0.1	0.0
0.1	-77.0	2.7	1.3	8.0	3.0	6.0	5.8	3.0	1.5	0.4	0.1
0.1	-77.0	3.4	1.6	6.8	4.7	6.0	5.7	1.9	1.4	0.9	0.4

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

1.0	-77.0	3.1	-77.0	7.4	-77.0	6.0	5.5	-77.0	1.9	-77.0	0.3
Jan_2010	Fev_2010	Mar_2010	Abr_2010	Mai_2010	Jun_2010	Jul_2010	Ago_2010	Set_2010	Out_2010	Nov_2010	Dez_2010
0.4	1.4	1.5	2.2	4.1	6.2	6.4	5.0	4.7	3.4	2.1	0.5
0.0	1.7	1.0	1.9	4.2	3.5	5.0	5.6	4.8	2.8	1.9	0.9
-0.1	0.7	0.7	1.4	4.9	5.7	5.8	7.0	5.0	0.3	1.8	0.9
0.0	0.1	1.3	3.4	4.7	5.7	7.5	7.2	4.9	2.2	2.2	0.5
0.4	0.9	0.0	4.1	5.0	5.1	7.9	6.5	4.8	2.6	2.0	0.0
0.4	1.0	0.2	2.8	4.7	5.5	7.6	7.2	4.2	0.6	1.8	0.4
1.1	0.5	0.6	3.9	2.2	5.5	5.2	7.0	1.9	1.6	1.3	0.4
1.5	1.0	0.1	4.4	0.3	1.7	6.3	3.1	3.5	0.3	0.3	0.2
1.2	0.9	2.4	4.7	2.5	2.3	5.7	5.4	4.2	1.3	1.2	0.2
0.2	0.0	2.3	5.0	3.1	2.4	6.7	6.7	4.9	1.3	1.2	0.9
0.2	1.6	2.1	4.8	2.1	2.6	6.8	7.2	5.1	2.4	0.9	0.6
-0.1	1.0	2.0	3.6	3.0	3.7	6.1	6.3	4.8	2.3	0.6	0.0
0.0	1.6	2.4	1.9	3.3	4.3	5.6	5.9	4.8	2.5	0.4	0.6
0.9	1.1	2.6	0.2	2.2	5.3	5.6	6.4	4.4	1.7	0.8	0.8
0.0	0.1	2.8	2.5	4.5	6.3	6.0	6.4	1.7	2.2	1.2	1.8
0.0	0.2	2.8	1.6	4.9	5.2	6.3	5.4	3.3	2.2	0.9	1.3
0.2	0.6	2.5	1.5	5.8	5.6	6.4	3.4	2.6	2.7	1.2	0.7
0.0	0.2	1.7	1.6	6.1	4.2	6.8	4.6	3.2	2.7	0.6	0.6
0.4	1.8	0.9	1.9	6.4	4.9	6.2	5.1	4.1	2.7	-0.1	0.7
0.9	1.2	0.7	3.8	6.5	5.5	6.5	5.5	3.2	2.5	1.1	0.0
0.2	0.8	2.2	2.9	7.1	6.9	5.5	6.0	2.8	2.5	0.8	0.1
0.3	0.8	2.7	2.6	6.0	6.6	5.6	5.3	3.2	1.3	0.9	-0.1
0.6	0.6	2.2	3.5	5.7	6.2	6.4	3.1	1.8	2.1	0.0	1.1
1.2	1.1	0.9	3.2	4.5	5.4	7.5	5.4	3.3	2.1	0.6	0.7
1.3	0.7	1.2	4.5	1.4	4.4	7.6	5.8	3.4	1.7	0.4	0.4
1.5	0.8	1.5	4.9	3.6	4.2	8.5	5.7	3.9	2.8	1.1	1.0
2.4	0.4	2.5	4.5	3.8	5.7	8.3	5.5	3.5	2.0	1.3	0.4
1.7	0.4	3.2	5.0	4.9	5.7	7.1	5.5	3.3	1.4	1.0	0.4
1.2	-77.0	1.1	4.1	5.3	6.5	7.2	6.2	3.2	0.0	0.0	0.2
1.1	-77.0	1.4	3.5	5.7	6.6	6.8	6.3	3.3	0.1	0.4	0.0
0.6	-77.0	1.4	-77.0	6.2	-77.0	5.9	4.3	-77.0	0.8	-77.0	0.0
Jan_2011	Fev_2011	Mar_2011	Abr_2011	Mai_2011	Jun_2011	Jul_2011	Ago_2011	Set_2011	Out_2011	Nov_2011	Dez_2011
0.1	1.5	2.3	4.2	2.7	6.4	3.5	2.3	1.7	4.6	0.4	0.6
0.5	1.6	2.3	1.3	2.8	6.7	5.6	4.2	1.7	4.1	0.1	1.2
0.1	1.6	2.3	1.8	4.3	5.6	4.6	5.1	3.3	3.7	1.0	0.9
-0.1	1.8	1.8	3.4	4.3	5.8	5.8	6.0	4.1	3.9	0.7	0.5
-0.1	1.8	0.5	4.6	4.2	3.1	5.9	4.9	4.4	4.1	1.7	0.7
0.4	1.7	1.5	5.6	3.3	2.8	5.9	2.6	5.0	4.2	1.7	0.8
0.5	1.7	2.2	4.6	3.2	4.5	5.8	6.1	5.1	4.0	1.3	0.9
0.0	1.0	0.2	4.9	3.2	5.0	5.2	6.3	4.8	4.5	0.2	0.5
0.5	0.7	0.9	3.8	4.9	2.9	4.6	7.3	5.1	4.0	0.0	0.3
0.1	1.3	2.0	4.5	5.5	5.2	5.8	7.5	2.6	4.0	0.2	-0.1

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.5	1.1	0.5	4.7	5.7	5.6	5.0	6.5	3.7	4.0	0.5	0.1
0.6	1.1	1.1	4.7	5.6	5.6	5.3	5.0	4.6	3.6	1.1	0.4
0.7	0.2	0.4	4.6	5.7	5.3	6.2	5.5	4.9	3.6	1.6	0.0
0.5	0.2	0.1	4.9	5.2	5.6	6.2	5.3	4.9	3.7	0.2	0.4
0.5	0.5	2.1	4.4	6.9	5.6	6.2	5.5	4.3	3.4	0.6	0.6
0.2	0.2	2.0	5.1	5.4	5.6	6.0	4.2	3.5	2.4	0.9	0.2
0.2	1.4	2.7	4.3	2.8	5.3	5.9	5.1	3.5	2.6	1.3	0.8
0.4	0.4	2.9	3.1	1.8	5.7	5.5	4.9	4.2	2.6	0.8	0.8
0.7	0.0	3.5	1.0	4.0	6.2	6.2	5.4	5.3	2.6	0.0	0.7
1.2	0.9	3.7	0.7	5.2	6.2	6.5	5.1	5.4	3.3	0.4	0.8
2.1	1.1	3.5	0.8	4.9	6.4	6.3	2.8	4.2	3.4	0.7	0.7
2.3	2.0	3.3	0.9	5.3	6.1	6.3	2.9	3.7	2.0	0.3	0.9
2.2	2.1	3.0	2.6	5.0	6.4	5.9	4.0	3.4	1.0	1.3	0.7
2.6	2.3	1.7	3.8	5.8	6.8	6.7	5.2	3.5	1.6	1.4	1.4
2.0	2.5	1.2	4.4	5.3	7.2	6.4	4.0	3.7	1.1	1.4	1.4
1.6	2.4	0.6	4.8	2.8	5.9	6.3	5.1	4.0	0.2	1.2	1.1
0.0	2.6	1.1	4.8	3.5	6.2	6.9	5.2	3.4	1.4	1.2	0.9
0.5	2.3	0.6	3.2	3.0	5.5	7.2	5.2	3.3	2.1	1.1	0.9
0.7	-77.0	2.5	1.4	3.5	6.0	6.4	4.8	4.0	1.8	1.0	1.1
1.0	-77.0	3.0	1.3	2.2	6.9	5.7	3.9	3.5	2.2	0.5	1.0
1.1	-77.0	3.6	-77.0	4.3	-77.0	5.6	2.3	-77.0	1.1	-77.0	1.0
Jan_2012	Fev_2012	Mar_2012	Abr_2012	Mai_2012	Jun_2012	Jul_2012	Ago_2012	Set_2012	Out_2012	Nov_2012	Dez_2012
0.3	0.4	1.7	1.4	1.6	5.7	6.3	6.0	6.4	3.2	1.3	1.0
0.9	1.7	1.5	2.0	0.4	2.0	6.4	6.0	7.0	2.7	0.7	1.0
0.5	1.9	1.1	1.4	1.3	5.2	6.2	6.2	6.4	2.8	0.1	1.0
0.9	1.8	1.4	2.0	2.3	5.9	5.6	6.4	5.8	3.0	0.5	0.4
0.8	1.7	2.6	2.9	2.6	5.4	5.9	5.1	5.7	3.6	0.8	0.3
1.0	1.8	2.4	1.9	2.9	3.2	5.8	5.5	6.0	2.2	1.7	-0.1
1.2	1.7	2.9	2.6	0.3	4.4	4.1	6.2	4.7	3.0	0.9	0.1
1.3	2.1	2.6	3.9	3.6	4.6	5.8	6.2	3.9	2.9	0.0	0.8
1.2	1.5	4.1	4.2	4.9	4.4	5.7	5.9	3.9	1.9	0.6	0.8
1.2	1.9	3.9	1.6	5.5	3.8	5.4	5.7	4.3	2.2	0.4	0.6
1.0	2.2	3.4	1.2	2.7	4.0	5.9	6.1	4.3	1.6	1.6	0.8
0.9	2.6	3.4	2.4	4.0	4.0	6.3	5.6	5.0	2.9	1.7	0.5
0.6	2.4	3.4	1.6	4.3	5.8	6.0	5.4	4.4	2.9	1.5	0.2
0.6	1.8	3.2	2.2	5.8	4.7	6.3	3.6	5.6	1.5	1.6	0.2
0.1	2.3	2.1	3.6	5.4	5.2	6.4	3.5	5.5	2.7	1.2	0.2
0.9	2.3	2.2	4.1	6.3	3.8	7.4	5.2	4.4	1.5	0.2	0.2
1.2	2.2	0.8	2.8	4.2	4.8	7.9	5.7	3.4	0.1	0.2	-0.1
1.2	2.0	2.2	1.1	4.8	3.8	7.8	5.2	4.1	-0.1	1.4	0.1
1.2	2.0	3.4	1.3	3.1	5.3	7.2	5.0	4.0	1.0	1.1	0.2
1.0	2.3	3.6	1.1	2.1	4.5	7.1	5.6	3.7	2.0	0.3	0.7
1.4	2.1	3.2	1.3	2.9	5.7	6.8	5.6	2.4	0.7	0.9	0.1
1.3	2.5	3.4	2.4	4.8	6.0	6.5	5.4	4.0	0.5	1.0	0.0

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

1.2	2.7	3.7	1.5	5.7	6.4	6.5	5.0	1.9	2.2	0.2	1.0
1.4	2.7	1.8	3.2	5.6	6.9	5.6	4.7	2.3	0.6	-0.1	0.9
1.2	2.8	4.0	0.8	4.4	6.6	6.0	5.2	1.0	0.5	0.1	0.9
0.6	2.3	4.8	1.0	4.4	5.5	5.5	5.1	2.7	0.9	0.8	0.8
1.5	2.2	5.2	1.7	4.4	6.9	4.5	4.0	2.0	1.9	1.3	0.8
1.5	2.0	5.5	2.4	5.6	5.6	4.4	4.0	0.3	2.7	1.2	0.9
1.5	2.3	5.1	1.5	5.0	4.7	6.0	5.1	3.1	1.6	1.3	0.4
1.5	-77.0	2.4	3.0	5.7	4.3	5.8	5.5	3.4	1.4	0.6	0.6
1.3	-77.0	1.6	-77.0	5.9	-77.0	5.6	5.9	-77.0	1.4	-77.0	0.0
Jan_2013	Fev_2013	Mar_2013	Abr_2013	Mai_2013	Jun_2013	Jul_2013	Ago_2013	Set_2013	Out_2013	Nov_2013	Dez_2013
0.7	0.7	1.9	2.8	2.8	6.0	6.0	6.2	6.3	0.2	1.1	2.0
0.8	1.9	1.6	2.3	4.3	6.3	5.7	5.5	6.3	0.9	0.6	1.4
1.5	1.4	0.6	1.4	4.6	6.6	6.4	5.7	5.9	2.4	1.8	1.6
1.5	1.6	0.9	1.1	5.0	5.9	7.3	6.2	5.2	2.2	0.5	1.5
1.1	1.6	1.2	2.8	4.9	5.7	7.5	5.3	4.7	2.5	0.9	1.3
0.8	1.6	1.1	3.4	2.5	2.9	7.0	5.0	4.2	3.5	0.8	1.2
0.2	1.5	1.5	2.3	2.6	2.1	7.3	5.0	4.4	3.3	0.7	1.2
0.5	1.8	0.6	2.2	2.3	1.7	7.1	6.2	4.7	3.2	1.3	1.1
0.0	1.7	1.6	1.1	2.0	1.5	7.3	7.1	5.3	4.2	1.2	1.2
0.2	0.4	1.0	1.1	4.9	1.5	7.2	7.5	5.0	4.1	1.3	1.3
0.2	1.2	1.2	1.5	5.2	3.8	5.8	7.1	5.4	3.4	1.8	1.2
0.6	1.3	1.7	2.4	5.2	5.4	3.4	6.0	5.9	0.8	2.1	0.8
0.6	1.9	2.5	3.7	5.6	5.9	2.6	5.7	5.7	1.3	1.9	0.1
1.1	1.4	2.6	4.0	4.9	6.2	5.2	6.5	5.3	1.2	2.5	1.1
1.0	1.7	2.6	3.2	4.0	6.4	5.2	6.2	4.7	0.8	1.8	1.2
0.1	0.9	1.1	4.0	2.4	5.5	5.1	4.5	4.7	2.2	1.3	1.0
0.2	0.0	0.9	4.3	2.4	4.1	5.5	5.7	4.5	1.8	1.2	0.0
0.3	0.5	1.8	4.5	3.0	3.5	5.5	5.7	4.7	0.9	1.2	0.2
0.8	0.4	0.2	4.7	2.4	4.8	5.1	6.2	4.7	1.4	1.2	0.6
0.1	0.5	2.4	4.9	3.3	5.7	6.0	7.1	5.3	1.2	1.5	1.3
0.9	0.8	2.4	4.5	4.2	5.2	5.7	6.5	5.2	0.8	0.8	1.0
0.6	0.5	2.1	4.3	4.9	6.3	5.5	5.4	4.7	0.6	0.3	0.8
0.3	1.5	0.9	4.6	5.0	6.5	6.0	5.4	4.5	0.8	1.4	0.0
0.7	1.9	2.0	4.7	5.4	7.6	6.2	5.5	3.1	0.2	1.8	0.0
0.3	2.0	0.6	4.7	5.6	7.9	4.8	6.0	2.2	0.2	1.9	0.4
1.2	2.1	0.7	4.1	4.5	7.3	4.9	5.5	2.6	1.6	1.9	0.5
0.4	0.8	1.4	4.5	4.5	6.9	4.6	5.7	0.4	2.1	1.7	0.2
1.0	1.6	1.2	3.6	5.3	6.9	3.7	5.0	0.8	0.4	1.5	0.8
1.2	-77.0	0.6	1.5	2.7	7.5	5.5	5.5	0.3	1.9	1.6	0.7
1.1	-77.0	3.1	2.2	5.2	7.5	6.4	5.7	0.1	2.2	1.3	0.5
1.5	-77.0	0.1	-77.0	5.5	-77.0	6.4	6.2	-77.0	2.1	-77.0	0.0
Jan_2014	Fev_2014	Mar_2014	Abr_2014	Mai_2014	Jun_2014	Jul_2014	Ago_2014	Set_2014	Out_2014	Nov_2014	Dez_2014
-0.1	0.6	0.2	0.1	5.1	5.9	4.7	4.2	5.5	3.8	0.8	1.6
0.0	9.4	0.5	1.3	5.6	5.5	4.0	3.6	5.4	3.7	1.0	0.9

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.0	8.3	2.4	1.9	6.1	6.2	4.8	4.3	3.5	3.3	0.4	0.6
0.4	-0.1	1.8	0.3	5.9	5.5	5.7	5.6	4.7	3.0	1.2	1.0
0.1	0.8	2.6	1.4	5.6	5.2	5.9	6.5	4.6	2.6	1.8	1.0
0.0	0.2	2.4	2.6	5.1	1.6	2.5	6.4	1.2	2.4	0.5	1.2
-0.1	0.6	2.8	3.8	4.7	4.3	6.0	6.1	3.0	0.8	0.8	1.1
0.6	0.8	3.1	4.2	5.5	3.3	6.5	5.2	3.3	1.0	0.4	1.1
1.1	0.2	2.2	2.6	5.5	3.9	7.3	5.3	4.0	1.3	1.1	0.1
0.7	1.6	3.9	4.5	5.7	4.7	8.1	5.2	1.1	2.1	0.0	1.0
0.8	-0.2	3.6	2.9	6.0	6.5	7.9	5.6	1.9	1.1	0.8	0.9
0.0	0.0	3.3	3.1	6.1	7.1	7.2	5.8	3.2	0.1	0.9	0.3
0.7	1.2	2.7	3.9	6.0	7.2	6.8	5.9	3.5	0.1	0.0	0.2
0.3	0.3	3.0	1.7	6.9	7.5	6.7	5.9	2.5	1.5	0.6	0.6
0.1	1.1	3.2	4.3	6.6	8.3	6.5	6.2	2.0	0.5	0.7	1.0
0.6	1.6	3.5	3.4	6.1	7.9	6.8	6.6	1.0	1.4	0.7	1.1
0.1	1.0	3.4	4.1	6.7	6.8	5.9	6.9	1.8	1.2	0.6	0.6
0.6	1.0	3.2	1.9	5.9	3.8	4.0	6.2	2.5	1.1	0.5	0.8
1.3	2.1	3.1	1.3	2.9	5.0	3.5	4.9	2.6	2.5	-0.1	0.6
0.7	0.4	1.8	1.4	1.5	5.1	4.5	5.8	2.3	2.9	0.2	0.9
0.0	1.5	1.1	3.5	1.8	3.8	6.1	5.7	2.5	2.5	1.1	1.0
1.1	0.8	2.2	2.5	2.6	3.2	6.9	5.8	0.7	2.7	0.2	1.0
1.4	1.9	2.6	2.3	3.9	2.5	6.1	5.4	1.9	2.9	0.2	0.8
1.2	1.5	1.1	2.3	5.0	2.6	5.6	5.7	2.7	2.4	0.5	0.8
1.1	1.4	1.9	3.4	4.7	4.5	4.4	5.7	3.9	2.7	0.3	0.9
0.5	1.8	3.2	1.3	5.0	6.1	5.3	5.2	3.8	2.4	0.1	0.9
1.2	0.2	1.1	4.4	4.3	6.1	6.0	5.3	1.2	2.0	0.5	0.4
0.5	1.3	1.2	4.5	3.5	3.8	5.1	5.5	2.0	1.3	0.6	0.5
1.3	-77.0	2.1	4.7	3.0	5.8	6.6	5.6	2.8	2.2	1.0	1.5
1.2	-77.0	0.9	4.7	5.4	6.1	6.9	5.0	3.1	2.5	0.1	1.2
3.1	-77.0	0.6	-77.0	5.9	-77.0	4.7	4.9	-77.0	1.8	-77.0	1.1
Jan_2015	Fev_2015	Mar_2015	Abr_2015	Mai_2015	Jun_2015	Jul_2015	Ago_2015	Set_2015	Out_2015	Nov_2015	Dez_2015
1.1	1.0	1.5	4.7	1.8	5.8	4.1	5.8	4.4	3.5	1.7	1.0
0.9	0.5	2.0	5.0	3.9	6.0	6.2	6.6	4.6	3.6	0.1	1.2
1.2	0.9	2.2	3.2	0.8	6.3	6.8	5.8	4.3	2.5	0.6	1.3
1.1	1.8	3.3	4.6	1.5	6.2	6.7	6.1	4.3	1.1	0.3	0.9
1.0	1.7	4.1	4.8	3.2	6.0	6.2	6.3	3.7	1.5	0.0	1.2
0.7	0.8	3.4	1.5	4.3	6.7	6.9	6.2	4.6	1.9	1.5	1.1
0.9	1.3	3.4	4.3	5.6	5.6	6.9	6.3	4.8	2.8	2.0	0.4
1.0	1.8	3.4	2.2	3.3	4.2	6.8	5.9	4.6	2.9	2.0	0.6
1.4	2.1	3.5	0.6	4.6	3.3	6.9	7.0	3.7	2.8	1.9	0.8
1.3	1.6	3.1	1.5	5.7	5.4	6.3	6.8	4.5	0.4	1.9	0.9
1.1	1.0	3.0	3.8	5.8	2.0	6.7	5.4	4.2	0.8	1.7	0.9
1.2	1.6	2.7	4.2	5.5	3.8	6.3	4.3	3.6	0.6	1.6	0.8
1.0	0.8	3.3	4.8	5.0	2.8	6.4	4.8	1.5	1.9	1.2	0.2
0.2	0.5	3.3	3.4	5.7	2.1	6.7	5.3	3.7	2.9	1.8	0.1

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

## ANEXO 8 – Necessidades Hídricas das Culturas

### ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.2	0.7	3.1	1.8	5.9	3.1	6.5	5.3	0.7	2.7	1.6	1.0
0.4	1.6	3.1	2.0	6.8	5.7	6.6	4.6	2.8	1.9	1.3	0.9
0.4	3.1	0.6	3.2	7.1	6.9	4.5	5.6	3.4	1.2	1.3	1.0
0.2	2.8	0.9	2.5	6.1	7.7	6.5	5.4	4.0	0.7	1.4	1.0
1.9	2.5	2.7	3.8	5.9	7.6	6.5	5.8	4.5	1.9	1.2	1.0
0.5	0.9	3.0	4.1	5.3	8.1	6.5	5.7	4.6	2.5	1.2	0.5
0.5	2.3	2.2	4.0	6.2	7.2	6.5	5.9	4.7	3.0	2.0	0.7
0.9	2.2	1.4	3.4	6.6	5.7	7.2	5.1	4.3	2.6	0.6	0.5
0.9	0.9	2.4	4.5	6.7	5.8	7.1	2.9	3.9	0.9	1.5	0.4
1.4	1.2	2.0	0.6	6.4	5.9	5.1	4.0	4.3	0.2	1.0	0.0
1.5	1.6	2.6	1.6	6.3	6.5	6.6	5.2	4.0	1.4	1.3	1.0
1.6	1.9	1.4	2.2	6.9	7.2	6.8	4.9	3.7	1.1	1.6	1.0
1.5	2.8	3.7	2.8	7.0	7.6	7.0	4.1	3.9	0.9	1.2	1.5
1.6	1.6	4.1	3.7	6.6	7.6	7.1	5.3	4.2	1.4	1.2	0.4
0.8	-77.0	3.6	3.6	6.6	7.5	6.6	5.4	2.9	1.0	1.4	0.5
0.3	-77.0	4.5	4.6	6.3	6.4	5.2	5.4	3.3	1.0	1.4	0.2
1.4	-77.0	4.2	-77.0	6.3	-77.0	4.6	2.5	-77.0	1.0	-77.0	0.2
Jan_2016	Fev_2016	Mar_2016	Abr_2016	Mai_2016	Jun_2016	Jul_2016	Ago_2016	Set_2016	Out_2016	Nov_2016	Dez_2016
0.2	1.5	2.6	3.4	5.2	4.2	6.2	6.2	5.3	3.6	2.3	0.3
0.6	1.2	2.5	2.1	5.6	5.2	6.6	6.6	5.5	3.4	1.8	0.5
0.2	1.6	2.7	1.3	6.1	5.6	7.1	6.5	5.6	3.5	1.6	0.1
0.5	2.1	0.9	1.1	4.6	5.5	6.2	5.7	5.5	3.4	0.2	0.7
0.5	1.8	1.5	3.7	0.3	5.5	6.3	6.4	5.7	3.1	0.6	1.6
0.2	0.9	2.3	4.0	0.5	5.6	5.0	7.3	6.4	3.4	1.6	1.3
0.4	1.3	2.6	4.1	0.5	5.9	2.6	7.9	5.4	3.0	1.6	0.7
0.3	0.6	2.5	3.6	1.8	6.6	6.7	7.6	5.2	3.2	1.3	1.2
0.3	0.6	1.0	2.6	1.6	5.8	7.2	6.4	5.1	2.9	0.9	1.4
0.6	0.4	2.9	1.9	1.7	4.9	7.3	7.1	5.0	2.5	1.5	0.8
0.9	1.1	2.8	2.3	1.0	6.1	6.9	7.4	4.6	2.1	0.9	1.0
0.7	0.4	2.9	2.2	1.5	6.1	6.6	6.9	4.5	0.5	0.9	1.0
1.0	0.5	3.0	2.6	2.0	5.1	6.9	6.5	3.6	1.5	1.6	0.3
0.5	1.1	2.8	1.1	3.4	4.5	7.4	6.4	3.2	2.8	2.1	0.6
1.3	1.8	0.2	1.0	4.0	3.5	8.0	5.5	2.2	1.4	2.1	0.3
1.3	2.0	2.4	2.5	4.5	3.7	7.5	5.2	4.0	1.4	1.6	0.5
0.5	0.7	2.4	2.3	4.9	4.6	7.2	5.2	4.3	1.8	1.6	1.1
0.7	1.8	0.1	3.0	5.0	5.9	7.0	5.9	4.5	2.3	0.4	1.7
0.4	2.1	1.0	1.2	5.4	6.5	6.5	3.7	4.7	2.1	1.0	1.0
0.3	2.5	1.1	2.1	5.7	6.7	6.7	5.9	4.1	1.4	0.0	0.9
0.1	2.4	1.3	1.9	3.7	6.9	6.4	5.9	3.8	0.6	0.9	0.7
0.0	2.2	1.7	2.8	5.3	6.9	6.5	6.3	3.1	0.8	0.8	0.9
0.4	1.9	2.2	3.3	4.0	5.5	7.2	5.9	3.8	1.2	1.0	0.9
1.0	0.6	3.5	3.8	2.0	5.9	7.4	5.4	3.8	1.3	0.6	0.9
-0.1	0.9	2.4	4.9	3.0	5.7	7.6	5.1	3.5	1.1	0.4	1.1
0.9	0.3	0.6	4.5	3.8	6.6	7.2	5.3	3.7	2.6	0.6	1.0



Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.5	1.5	2.5	3.4	2.2	6.9	6.1	5.4	4.4	2.0	0.6	1.1
0.6	2.4	0.8	4.1	2.7	6.9	6.8	5.8	4.9	2.6	1.0	1.4
1.1	2.4	2.5	3.8	2.4	6.7	6.6	5.6	4.4	2.5	0.7	1.3
1.1	-77.0	2.2	5.0	3.9	6.4	4.0	5.3	3.7	2.6	1.3	1.2
1.5	-77.0	3.4	-77.0	5.6	-77.0	5.6	4.7	-77.0	2.5	-77.0	1.2
Jan_2017	Fev_2017	Mar_2017	Abr_2017	Mai_2017	Jun_2017	Jul_2017	Ago_2017	Set_2017	Out_2017	Nov_2017	Dez_2017
0.4	1.1	0.7	3.2	4.4	6.0	6.7	6.2	5.5	3.8	1.4	1.2
0.5	0.8	1.8	3.8	5.2	6.2	7.9	6.3	6.3	4.3	0.1	1.2
0.0	0.6	0.5	4.1	5.8	5.5	8.5	6.7	5.9	4.4	0.4	1.5
0.3	0.6	1.4	4.3	4.4	5.7	7.7	7.0	4.5	3.7	0.8	1.5
0.8	1.9	0.6	4.9	2.3	5.8	3.9	6.8	4.9	3.8	1.9	1.5
1.2	1.4	1.0	4.7	2.6	5.5	3.7	6.4	5.1	4.1	2.1	1.3
1.3	1.4	2.7	4.7	4.9	6.9	5.0	5.6	5.9	4.8	2.0	1.2
1.2	1.8	3.2	4.6	5.8	5.6	4.6	5.9	5.4	3.9	1.9	0.2
1.3	1.3	3.8	4.9	3.1	6.3	5.5	6.1	4.2	2.4	2.4	0.4
0.9	0.1	3.8	4.9	1.5	6.8	6.3	7.1	4.7	2.9	2.0	0.0
1.2	1.0	2.8	4.9	1.5	6.4	6.7	6.9	5.0	3.2	1.8	0.5
0.7	0.5	3.0	5.1	2.8	6.9	7.1	7.1	4.7	4.1	1.7	1.1
1.5	1.4	3.8	4.2	2.8	6.3	7.1	5.9	4.8	2.7	1.8	0.4
1.3	0.9	2.9	4.4	2.5	6.5	7.5	5.4	4.8	2.4	2.1	0.0
1.3	1.4	4.2	4.3	4.4	6.6	6.8	5.9	4.5	5.1	1.8	0.3
1.3	2.4	3.6	4.5	5.1	7.3	7.1	5.6	4.2	2.3	1.7	1.0
1.5	2.1	3.6	4.4	4.8	6.8	6.6	6.2	3.8	2.4	1.7	1.1
2.1	1.1	3.8	2.4	5.5	7.0	5.6	6.0	3.3	2.1	1.8	1.1
1.4	2.0	3.5	5.8	5.3	5.8	5.2	6.1	3.9	0.7	2.0	1.4
1.0	2.6	2.9	5.3	6.6	7.6	5.6	7.1	4.1	0.6	2.0	1.3
1.3	2.9	2.5	5.2	5.5	6.7	6.2	6.2	3.3	2.4	1.9	1.3
1.1	2.8	1.2	4.4	5.2	6.1	6.3	6.0	3.7	2.4	1.2	1.0
1.4	1.7	1.4	4.6	6.7	6.7	6.5	6.1	4.0	3.0	0.9	1.3
1.4	2.1	1.5	4.4	6.7	4.9	5.9	5.6	4.3	3.3	0.5	0.9
1.3	2.2	1.6	3.7	5.4	3.2	6.1	4.9	4.1	3.1	0.3	0.1
0.0	1.5	0.1	3.4	3.9	5.6	6.4	5.2	4.0	2.6	1.6	0.0
0.6	0.8	1.1	5.2	3.0	4.9	7.1	4.4	4.0	3.7	1.3	0.7
0.3	1.0	2.4	5.6	2.6	4.1	6.9	2.5	4.0	3.8	0.0	0.0
0.1	-77.0	3.6	2.9	3.5	4.2	6.3	3.8	4.1	3.4	1.0	0.1
0.6	-77.0	3.2	2.6	5.5	5.6	6.5	3.8	3.6	3.0	1.4	0.3
0.2	-77.0	3.5	-77.0	5.8	-77.0	3.5	4.6	-77.0	2.7	-77.0	0.4
Jan_2018	Fev_2018	Mar_2018	Abr_2018	Mai_2018	Jun_2018	Jul_2018	Ago_2018	Set_2018	Out_2018	Nov_2018	Dez_2018
0.3	1.8	0.6	2.7	3.4	4.3	2.7	6.3	5.9	4.1	1.3	0.7
0.3	1.9	0.4	1.1	2.1	4.8	2.0	6.7	5.1	5.1	1.0	0.5
0.2	1.2	0.2	1.8	3.3	2.8	4.4	6.7	2.6	4.3	1.4	0.0
0.4	1.4	0.7	2.3	4.9	2.0	4.7	6.9	2.5	4.2	0.2	1.2
0.0	1.4	1.2	3.1	4.9	2.2	5.5	6.6	1.9	3.8	0.8	0.9
1.3	1.8	1.5	1.4	4.5	4.3	5.5	6.4	3.8	3.8	0.5	1.0

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.8	1.8	1.1	1.3	4.0	1.2	5.7	6.1	3.5	3.4	1.2	0.9
1.1	1.8	0.3	1.1	4.1	2.2	5.1	5.5	3.9	4.2	0.3	1.0
-0.1	0.4	0.1	0.6	3.1	2.4	5.2	5.9	4.0	3.7	0.6	1.0
0.3	1.7	1.8	1.1	5.0	1.4	4.4	5.9	4.8	1.8	0.3	1.5
0.9	0.6	1.3	2.4	4.6	3.4	5.5	6.2	5.3	1.6	0.1	0.4
0.5	2.1	2.0	0.5	4.3	4.6	4.6	5.9	4.8	2.0	1.0	0.3
0.4	0.9	1.7	1.9	4.6	5.4	5.3	5.5	5.2	3.0	1.3	0.9
0.6	0.6	0.1	3.3	4.8	5.6	4.3	5.6	5.0	1.9	1.6	0.5
1.1	0.4	1.3	0.7	5.6	5.7	3.2	5.8	4.7	0.7	1.2	0.0
0.2	1.6	1.7	3.0	5.9	6.0	5.7	5.4	4.2	1.6	1.1	0.8
1.2	1.2	1.0	3.9	5.2	6.7	5.9	4.5	4.2	1.9	0.6	0.8
1.4	2.4	2.0	4.6	3.3	7.4	5.0	6.1	4.2	2.0	0.0	-0.1
1.3	2.0	1.6	4.2	5.1	7.0	5.3	6.4	4.1	1.9	0.3	0.4
1.1	2.4	2.9	4.6	3.1	5.9	5.8	6.1	4.4	2.5	0.5	0.3
1.2	2.8	3.5	1.4	3.7	4.8	5.9	5.4	4.3	1.4	0.6	0.5
1.2	2.5	2.9	2.3	3.1	4.7	5.9	5.8	4.4	2.0	0.3	0.5
0.9	2.5	0.6	4.0	4.5	5.9	5.5	5.7	4.8	2.2	0.7	0.7
0.9	2.5	2.2	4.8	0.1	5.6	4.7	5.6	4.9	2.3	0.4	0.6
0.5	2.6	2.7	4.6	2.3	3.0	4.2	5.7	4.8	1.9	0.2	0.8
1.4	2.1	3.2	4.6	2.7	4.9	5.6	5.6	4.7	0.8	1.3	0.9
1.4	0.5	3.7	3.9	3.9	5.4	5.8	2.7	4.1	2.4	1.0	0.0
2.1	0.3	2.8	2.2	3.9	4.8	5.8	3.3	3.7	2.2	1.0	0.8
2.5	-77.0	2.0	2.3	2.7	3.9	5.8	4.5	3.9	1.9	-0.1	1.1
2.2	-77.0	1.4	2.8	2.7	2.5	5.7	4.9	3.5	0.8	0.5	1.4
1.7	-77.0	2.7	-77.0	3.4	-77.0	5.7	5.4	-77.0	0.1	-77.0	1.2
Jan_2019	Fev_2019	Mar_2019	Abr_2019	Mai_2019	Jun_2019	Jul_2019	Ago_2019	Set_2019	Out_2019	Nov_2019	Dez_2019
1.1	0.6	2.4	1.7	4.7	6.6	5.9	6.4	5.1	3.5	0.4	0.2
0.9	1.8	2.7	2.8	5.2	6.7	4.5	6.0	5.4	3.4	1.0	1.4
1.1	1.5	2.2	3.7	5.4	5.9	5.4	5.9	5.7	3.6	1.2	1.1
1.0	1.5	1.5	2.6	5.5	3.2	4.3	5.9	6.0	3.3	0.5	0.8
1.0	1.6	0.4	1.3	4.9	4.5	5.2	6.0	6.6	3.3	1.2	1.1
1.1	1.6	1.0	1.4	3.3	2.0	5.1	4.8	6.5	3.6	0.5	1.1
1.4	1.7	0.8	0.5	1.1	4.1	4.4	2.5	5.9	3.5	1.6	0.9
1.3	1.1	2.3	1.9	2.8	5.1	4.8	3.0	5.6	3.8	1.6	0.0
1.3	1.0	2.7	2.1	0.6	5.7	5.7	3.1	4.6	3.8	0.3	0.9
1.5	0.2	2.9	2.5	3.7	5.7	6.9	5.0	4.9	3.3	0.6	0.8
1.7	1.7	2.9	3.8	5.3	6.3	7.2	5.3	5.6	2.9	0.6	1.1
1.2	2.1	2.6	3.8	7.0	5.8	3.1	5.8	5.8	2.6	1.3	-0.1
1.1	2.0	3.3	2.3	6.7	5.6	3.8	6.0	4.9	2.0	1.0	0.1
1.1	2.2	3.2	1.4	6.4	3.6	5.7	6.2	4.5	1.1	1.0	0.2
0.8	1.9	3.4	2.2	5.9	5.0	5.8	6.4	3.1	1.6	1.6	0.0
-0.1	2.2	3.7	3.7	4.3	5.3	4.3	6.5	3.6	1.4	1.3	-0.1
0.8	1.5	2.5	0.2	3.6	4.2	4.6	6.0	3.9	0.5	0.1	0.9
0.4	0.0	3.3	2.3	4.0	2.5	6.2	4.4	4.0	1.7	1.4	0.0

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

-0.1	1.2	3.5	1.7	4.9	3.0	6.5	4.7	3.5	0.4	0.3	0.0
1.7	1.5	3.6	4.3	4.9	4.3	6.6	5.7	2.0	1.9	0.0	0.0
1.1	1.8	3.4	4.3	4.3	6.0	5.5	5.7	0.6	1.7	0.4	0.7
0.5	2.2	3.5	3.0	5.3	5.7	5.5	5.9	2.5	2.3	0.8	0.7
0.9	1.9	3.7	1.3	5.0	2.4	5.6	6.3	3.4	1.7	1.0	0.1
1.7	2.7	3.9	1.0	5.9	1.3	6.4	6.1	1.6	1.8	0.5	1.1
1.5	2.7	4.4	2.5	6.6	4.4	4.0	3.8	3.6	2.4	0.6	1.0
1.6	2.7	4.9	3.3	6.5	3.3	5.5	2.8	3.8	2.5	0.1	0.8
1.7	1.9	5.0	4.5	6.1	5.6	2.8	4.8	4.0	1.6	0.4	1.3
0.6	1.9	4.1	4.6	6.4	6.1	5.9	4.6	3.6	0.0	0.4	1.5
0.3	-77.0	4.0	5.0	7.3	5.9	5.9	5.3	3.6	0.7	0.3	1.6
0.2	-77.0	3.8	4.7	7.5	4.9	6.4	5.6	3.6	0.1	0.1	1.0
0.2	-77.0	3.2	-77.0	6.7	-77.0	5.5	5.3	-77.0	0.3	-77.0	0.9
Jan_2020	Fev_2020	Mar_2020	Abr_2020	Mai_2020	Jun_2020	Jul_2020	Ago_2020	Set_2020	Out_2020	Nov_2020	Dez_2020
0.9	0.3	0.5	0.6	2.6	3.2	5.8	6.3	5.5	2.2	0.9	1.5
0.6	1.5	2.0	2.5	4.4	3.4	6.0	6.2	5.5	1.8	0.9	1.4
0.8	1.7	0.6	3.4	5.3	4.6	6.1	6.4	6.0	2.3	2.2	1.4
1.0	1.6	0.9	1.8	2.6	4.1	6.8	6.4	5.3	2.1	0.8	0.2
1.0	2.2	1.9	0.2	3.1	5.1	7.5	6.8	5.1	2.1	0.1	0.8
0.9	1.5	2.5	0.4	4.5	4.5	7.2	6.5	5.2	3.2	-0.1	0.1
1.0	0.9	2.6	2.1	4.4	3.9	6.7	5.8	5.9	3.3	0.7	0.5
1.0	0.5	1.4	1.5	2.4	5.1	6.1	5.7	6.3	3.1	0.1	1.0
0.9	0.5	2.8	0.4	1.5	5.6	5.8	5.5	5.0	3.3	1.1	0.1
1.2	1.3	3.1	2.7	2.7	5.3	6.3	4.7	4.7	3.3	1.5	0.0
1.3	1.3	2.8	2.9	2.0	2.8	5.5	4.3	4.5	3.9	1.1	0.2
1.1	0.0	2.9	2.5	2.5	3.2	6.5	3.9	4.8	4.1	1.1	0.9
0.8	1.0	2.2	1.5	0.5	3.0	7.0	5.6	5.2	3.0	0.6	0.1
0.2	1.7	3.3	1.7	1.8	4.6	7.0	5.5	3.1	3.0	0.2	0.1
0.2	1.5	2.5	2.0	2.4	4.9	7.7	4.8	3.7	2.8	0.2	0.4
0.6	0.5	2.9	1.4	4.1	4.8	7.9	4.6	2.5	2.7	1.3	0.5
0.8	1.4	3.2	2.5	5.5	5.2	7.7	4.0	1.5	2.5	0.7	1.1
0.3	1.9	3.6	3.3	5.5	5.6	7.8	4.3	1.1	2.8	1.2	0.3
2.4	2.3	2.6	3.7	5.7	6.0	6.2	5.4	1.2	1.1	2.1	0.3
2.5	2.0	0.0	0.9	5.0	6.2	6.3	2.2	2.6	-0.1	2.1	0.5
1.8	2.5	1.5	2.3	5.0	6.3	5.5	3.8	3.3	1.0	2.1	0.0
0.4	2.6	2.3	3.0	5.4	7.1	6.3	5.7	2.7	1.3	1.6	0.2
0.1	3.0	2.1	2.8	5.8	6.8	6.5	6.0	1.5	1.5	1.4	0.0
0.3	3.0	2.8	3.5	5.6	4.8	6.8	6.0	1.9	0.9	0.9	0.9
0.8	1.4	3.0	2.2	5.8	5.1	6.8	5.9	3.6	0.4	-0.1	1.3
0.8	2.4	3.3	2.0	6.5	5.1	6.0	5.6	3.3	1.9	0.1	1.5
0.0	2.4	3.1	2.6	7.0	5.5	6.0	5.6	3.7	0.6	0.9	0.8
0.2	2.4	3.2	2.4	7.0	6.2	5.9	5.7	3.4	0.8	0.6	0.8
0.2	1.3	2.7	1.4	6.2	6.2	6.1	5.2	3.8	1.3	0.6	0.7
0.0	-77.0	0.6	2.2	5.6	6.2	6.4	5.2	3.4	2.1	0.8	0.9

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

## ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.0 -77.0 0.3 -77.0 4.3 -77.0 6.5 5.5 -77.0 1.9 -77.0 0.1

### 2.2.10 PRACANA

Tabela 23. Evapotranspiração de referência diária na região de cálculo de Pracana (mm)

Jan_2003	Fev_2003	Mar_2003	Abr_2003	Mai_2003	Jun_2003	Jul_2003	Ago_2003	Set_2003	Out_2003	Nov_2003	Dez_2003
-0.1	1.5	0.0	3.3	3.9	4.0	4.0	6.5	3.3	0.9	1.7	0.7
0.2	1.3	0.5	2.9	4.1	4.5	3.6	4.8	3.2	1.9	0.9	1.1
0.9	1.2	1.5	4.3	4.8	2.2	5.5	5.5	3.4	1.8	0.7	0.0
0.5	1.1	1.9	4.1	3.0	3.0	5.8	5.2	3.3	3.2	0.6	0.9
0.1	1.7	1.6	3.8	2.8	5.3	5.6	5.3	3.8	3.9	0.8	-0.1
1.0	1.3	2.1	4.1	4.0	5.9	5.3	5.7	4.6	4.0	1.8	-0.1
0.4	0.3	1.3	4.5	2.7	5.9	5.6	5.6	4.5	4.0	0.8	0.3
0.4	1.5	2.5	4.2	4.3	6.3	6.4	6.3	3.8	3.8	1.0	-0.1
0.8	1.3	2.4	3.0	4.4	5.8	6.2	5.6	5.0	3.8	-0.1	0.2
1.4	1.2	2.8	1.4	4.8	5.8	6.1	6.7	6.3	3.3	0.4	1.0
1.0	0.1	2.9	2.2	4.9	6.3	5.7	6.3	6.4	0.4	1.0	0.8
1.1	0.8	2.2	0.6	5.2	6.8	3.2	7.1	6.6	2.1	0.2	1.0
1.2	1.9	3.0	0.4	5.2	7.3	2.4	7.0	6.6	2.0	0.8	0.9
1.1	1.5	2.5	1.4	5.4	6.5	3.8	7.7	6.4	2.3	0.0	0.8
1.1	1.6	2.6	2.0	5.2	5.7	3.7	4.5	5.6	0.6	0.6	0.5
1.1	1.6	2.3	2.6	4.8	4.3	4.8	4.2	5.4	2.0	2.1	0.8
0.6	1.5	1.3	2.7	4.8	5.8	5.6	4.6	5.6	0.8	2.2	0.0
-0.1	-0.1	2.1	1.7	4.8	7.1	6.0	5.3	5.8	0.0	1.9	0.4
0.9	0.3	2.5	1.8	4.7	9.0	5.6	5.6	4.6	1.3	1.6	0.0
0.1	0.7	3.5	1.7	5.5	7.9	5.7	5.5	3.0	1.0	1.2	0.3
0.9	0.4	3.8	3.2	6.4	6.2	5.3	5.2	2.6	1.5	0.2	0.8
0.6	0.8	2.4	1.9	6.6	5.3	5.9	5.2	2.8	2.0	0.0	1.6
1.6	0.7	0.9	1.6	6.6	5.4	5.9	5.4	2.9	2.3	0.5	1.6
2.2	0.1	1.7	2.0	5.6	3.2	6.0	4.7	4.0	1.5	0.5	1.4
2.0	0.7	0.5	0.5	5.9	5.6	5.7	5.2	4.1	0.3	0.9	0.9
2.0	0.3	0.6	3.9	6.4	5.5	5.3	5.5	3.4	1.1	0.1	0.2
2.0	1.0	1.5	3.1	6.9	6.2	6.0	1.8	3.7	0.4	1.0	0.2
1.8	0.9	1.4	1.4	6.7	5.3	6.1	1.5	2.7	0.9	0.2	0.8
1.8	-77.0	0.7	1.8	6.3	2.6	7.0	3.2	2.0	1.5	0.2	0.5
1.7	-77.0	1.4	3.2	2.4	3.8	6.5	3.4	0.1	0.2	0.2	0.8
1.9	-77.0	2.5	-77.0	5.1	-77.0	6.5	2.5	-77.0	0.5	-77.0	0.2
Jan_2004	Fev_2004	Mar_2004	Abr_2004	Mai_2004	Jun_2004	Jul_2004	Ago_2004	Set_2004	Out_2004	Nov_2004	Dez_2004
0.2	0.2	1.9	1.4	2.7	5.9	7.5	6.3	4.1	3.3	2.0	0.4
0.8	0.3	2.4	1.3	3.3	6.4	7.5	5.2	1.7	3.8	0.6	0.4
1.0	1.3	1.6	1.7	2.9	7.0	7.2	4.5	3.1	4.1	0.0	1.0
1.1	0.9	2.6	3.2	3.7	6.7	7.0	5.8	2.2	4.4	1.2	0.8
1.1	1.8	1.1	3.6	0.6	4.6	6.4	5.9	2.4	3.8	1.6	1.3

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.9	1.5	1.6	4.4	2.9	5.3	5.7	6.0	3.1	1.9	2.0	1.0
0.3	0.7	2.3	3.7	3.3	5.2	4.6	5.9	3.1	3.8	1.6	0.9
-0.1	1.4	2.4	2.9	4.3	5.6	5.2	1.3	2.8	1.4	1.8	1.0
0.5	1.7	1.8	4.6	1.4	5.5	5.8	1.8	4.0	1.5	1.8	0.8
0.7	1.9	1.3	4.3	2.0	6.2	5.0	1.9	3.0	1.0	2.3	0.9
0.7	2.4	0.3	4.0	2.8	6.5	6.1	1.7	3.7	0.8	2.0	0.9
0.8	2.1	0.3	4.0	4.1	6.8	6.9	4.5	4.5	2.5	2.3	1.3
0.3	1.9	2.5	4.6	5.4	7.3	7.9	5.6	3.9	2.6	2.8	0.4
0.4	1.6	2.9	4.4	5.7	8.8	6.7	6.0	3.6	1.6	2.8	1.1
0.1	1.5	3.4	4.5	5.8	7.7	6.1	5.3	4.9	1.0	2.3	1.1
1.0	1.4	2.8	3.2	6.4	7.7	5.7	2.7	5.2	1.6	1.8	0.9
0.9	1.4	2.4	2.7	6.0	7.7	5.9	2.4	5.1	0.9	1.3	1.0
1.6	1.7	2.8	1.4	6.4	6.0	6.1	2.9	4.5	0.1	1.4	1.1
2.3	2.6	3.0	1.4	6.8	5.4	4.7	3.2	4.1	0.1	1.2	0.9
1.9	1.7	3.4	1.4	5.4	5.8	6.1	4.3	3.8	1.2	1.7	1.3
1.4	2.0	3.0	0.6	2.2	4.7	5.6	5.5	4.6	1.3	1.1	1.2
1.3	0.0	3.7	2.6	2.2	4.6	4.6	5.6	5.3	2.1	1.2	1.5
1.3	-0.1	3.2	4.8	2.5	3.4	5.4	5.6	4.8	2.1	1.2	1.2
1.3	0.4	1.2	5.0	1.2	5.4	6.7	5.4	3.6	0.4	1.2	1.1
0.6	0.0	3.8	5.1	1.9	6.3	7.8	6.0	5.1	0.5	1.2	1.2
0.0	1.9	3.2	5.4	4.4	7.2	8.6	5.8	5.8	1.4	1.2	1.3
0.2	1.7	2.6	5.2	4.9	7.4	7.9	5.7	5.2	1.1	0.8	1.2
1.4	1.0	1.9	3.9	4.5	7.6	6.4	6.5	5.1	0.6	0.3	0.2
0.8	1.3	0.6	4.3	4.6	8.0	6.3	5.5	4.9	0.7	0.3	1.1
0.0	-77.0	1.4	2.5	5.3	8.0	5.9	5.1	4.0	1.1	0.2	1.4
-0.1	-77.0	1.2	-77.0	5.7	-77.0	5.9	4.2	-77.0	0.3	-77.0	0.9
Jan_2005	Fev_2005	Mar_2005	Abr_2005	Mai_2005	Jun_2005	Jul_2005	Ago_2005	Set_2005	Out_2005	Nov_2005	Dez_2005
0.8	1.9	2.4	2.1	1.8	6.9	6.7	5.9	5.2	4.9	0.3	0.0
1.0	2.3	2.2	0.7	3.4	6.5	8.3	7.7	5.9	5.5	1.0	0.5
1.3	1.8	2.1	1.3	3.1	6.6	6.9	8.2	6.3	4.9	-0.1	0.3
1.1	1.8	3.2	1.9	4.9	6.3	6.4	9.1	6.2	4.8	1.7	0.1
1.0	1.0	2.7	2.9	6.0	7.3	7.4	7.2	4.4	4.5	1.9	0.7
1.2	0.8	2.5	3.1	6.2	7.8	7.7	7.3	1.6	4.5	2.1	1.1
1.5	0.7	3.1	3.3	5.5	9.1	6.7	6.8	3.3	4.5	1.9	1.0
1.0	1.5	3.0	3.5	4.0	7.4	8.0	4.7	4.6	3.0	1.0	0.9
1.1	1.9	3.2	4.4	3.7	6.7	7.4	3.5	1.5	1.4	1.8	1.9
0.7	2.0	2.2	4.6	2.9	6.2	8.2	3.3	3.2	0.0	2.1	2.4
0.9	2.0	2.7	4.6	1.6	5.4	7.6	4.9	3.8	0.7	1.8	1.7
0.8	2.0	1.7	4.5	2.1	3.4	6.3	7.1	4.1	0.8	1.0	3.2
0.1	2.5	1.1	3.9	2.6	2.4	6.9	6.5	5.6	2.4	0.5	1.8
0.1	2.9	1.1	2.9	2.9	4.2	6.5	7.6	6.0	1.0	1.0	1.7
0.1	2.2	2.9	2.7	3.7	6.2	7.0	7.5	5.6	1.4	0.8	1.5
1.2	2.9	2.8	3.4	2.1	6.9	6.3	5.8	4.3	2.3	1.1	1.4
1.5	2.9	4.2	1.3	4.7	8.2	6.0	5.7	5.3	0.2	0.2	1.4

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

1.1	2.5	4.4	2.5	5.1	7.7	6.4	6.2	5.7	1.8	0.1	1.5
1.5	2.6	2.1	1.7	5.9	6.4	7.7	5.2	5.1	2.5	-0.1	1.3
2.0	2.4	1.5	1.7	5.7	7.2	8.0	7.7	5.5	0.2	0.2	1.2
1.5	2.1	0.0	3.4	3.5	7.5	7.3	7.6	5.1	0.4	0.6	1.5
1.4	0.6	2.3	2.8	4.1	7.5	5.5	7.0	4.9	0.8	0.6	1.8
1.3	0.5	0.6	0.9	5.4	5.5	6.4	6.2	4.6	1.9	1.5	1.4
1.7	1.5	1.9	2.2	6.9	4.8	5.4	6.2	3.9	2.2	1.5	0.4
1.7	2.3	1.0	3.6	6.9	5.3	4.5	5.8	4.1	2.0	0.5	0.0
1.4	1.4	1.7	4.5	6.4	5.1	3.6	5.5	4.5	2.9	0.7	-0.1
2.0	1.8	1.6	5.0	4.7	5.0	3.6	5.7	4.7	0.1	0.5	0.6
1.7	3.0	0.5	5.0	4.0	3.9	4.2	5.5	4.8	0.5	0.0	0.5
1.4	-77.0	1.3	5.0	3.3	5.2	5.2	5.7	4.5	0.2	1.2	0.7
2.6	-77.0	2.9	4.4	3.9	6.1	6.0	5.8	5.1	-0.1	1.3	0.4
2.2	-77.0	4.1	-77.0	4.3	-77.0	6.6	5.2	-77.0	0.5	-77.0	0.1
Jan_2006	Fev_2006	Mar_2006	Abr_2006	Mai_2006	Jun_2006	Jul_2006	Ago_2006	Set_2006	Out_2006	Nov_2006	Dez_2006
0.6	1.5	2.5	2.9	5.3	5.6	5.4	6.4	5.8	2.3	1.6	0.9
1.1	1.3	1.7	3.6	4.6	6.4	4.3	6.4	6.2	1.6	0.1	0.3
1.1	0.8	0.8	3.6	3.7	8.2	5.3	6.7	6.3	1.9	0.2	0.0
1.5	1.8	0.7	3.1	3.8	8.1	5.4	8.2	6.9	1.5	-0.1	0.3
1.0	2.4	2.5	0.7	4.3	7.7	6.1	8.2	7.1	3.1	0.0	0.2
0.6	1.9	2.0	0.9	4.8	7.0	6.6	8.6	6.3	2.8	0.0	0.5
0.7	2.1	2.1	0.9	3.7	6.8	7.7	8.0	5.4	2.4	0.5	0.0
0.9	1.7	1.8	3.5	4.4	6.0	7.3	8.4	5.3	2.9	0.6	1.0
1.0	1.2	1.3	2.6	5.4	4.0	7.6	8.1	4.9	2.7	1.2	0.9
1.3	1.5	2.5	3.6	5.9	5.1	6.4	7.8	5.2	0.6	1.7	1.3
1.2	1.9	2.9	4.3	5.3	6.6	6.6	8.3	2.5	2.4	1.9	1.3
0.9	2.0	3.1	4.2	4.5	5.7	6.9	8.2	3.8	3.3	1.6	1.1
0.6	2.0	3.3	4.7	5.5	2.7	5.7	7.1	1.7	3.7	1.7	1.2
0.5	1.7	3.6	1.2	5.1	2.3	6.7	5.3	3.5	3.6	1.4	1.2
-0.2	1.4	3.2	1.5	4.5	4.0	7.0	4.7	3.7	1.0	-0.1	1.2
0.9	1.2	0.6	2.3	5.5	3.2	7.2	1.5	4.4	0.1	1.1	1.0
0.3	0.8	-0.1	3.0	5.1	2.4	7.1	3.5	4.3	1.1	0.4	0.9
1.2	0.7	0.5	3.1	5.9	5.0	3.0	2.8	4.5	0.5	0.1	1.0
1.4	0.6	0.9	4.0	5.7	5.9	6.0	4.0	4.4	0.4	0.6	1.1
1.2	0.7	0.7	2.6	5.1	5.8	6.3	6.0	4.3	0.5	1.1	1.1
1.1	1.9	1.0	3.1	3.8	6.3	6.4	6.9	1.4	0.7	0.6	1.2
0.6	2.2	0.9	1.6	4.6	7.4	6.9	7.1	1.7	0.3	0.6	1.4
1.0	1.7	0.0	4.1	5.3	6.9	6.6	7.0	1.7	1.5	0.1	1.2
0.5	1.9	1.5	4.8	5.8	5.3	5.9	6.1	0.8	0.5	0.2	1.1
1.5	0.0	1.0	4.5	6.6	5.4	6.4	5.8	2.5	0.7	0.8	1.3
1.5	1.5	2.7	4.7	7.8	3.7	6.3	5.8	3.8	0.3	0.6	1.4
1.8	2.4	2.1	5.1	7.8	5.4	6.2	6.1	3.4	1.8	0.7	1.4
1.7	2.6	2.9	5.9	7.0	5.4	6.4	6.4	1.9	2.6	0.6	1.2
0.4	-77.0	0.6	5.5	5.0	5.7	6.9	6.8	0.4	3.3	1.0	0.1

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

1.4	-77.0	2.7	5.4	6.2	6.1	6.5	7.0	1.1	1.5	1.1	0.0
1.7	-77.0	1.8	-77.0	7.1	-77.0	6.9	7.5	-77.0	1.0	-77.0	0.3
Jan_2007	Fev_2007	Mar_2007	Abr_2007	Mai_2007	Jun_2007	Jul_2007	Ago_2007	Set_2007	Out_2007	Nov_2007	Dez_2007
0.6	1.2	1.7	2.8	1.6	5.3	4.6	5.3	6.3	1.7	2.8	0.4
1.0	1.4	1.0	0.7	1.0	5.9	5.7	6.6	6.1	0.3	2.7	1.0
0.9	0.1	1.1	1.4	3.1	5.6	4.7	8.1	5.7	0.5	2.8	1.1
0.9	0.9	0.4	2.7	3.4	6.9	6.4	7.0	6.5	1.7	2.7	1.2
1.0	1.0	2.0	2.9	4.8	6.8	8.1	5.3	7.4	2.2	2.4	1.0
1.0	1.3	0.4	2.9	5.9	6.9	7.9	4.4	6.6	2.6	3.1	0.8
0.3	0.1	2.6	2.7	5.5	5.8	7.0	5.2	5.1	2.6	2.8	1.0
0.3	0.8	3.1	2.2	5.8	2.9	6.8	6.9	4.3	3.3	2.4	1.2
0.1	1.8	3.1	1.9	6.3	4.7	7.0	7.2	2.2	3.9	2.7	1.0
0.2	1.1	4.2	1.8	5.4	3.0	7.4	6.8	3.3	3.7	3.0	1.2
0.9	0.1	4.6	1.5	4.3	4.6	7.0	4.5	5.2	3.8	1.8	1.4
0.9	1.6	2.6	2.2	3.8	4.8	7.5	4.7	3.5	3.4	1.9	1.2
1.1	0.1	3.4	2.8	3.5	2.8	7.3	4.2	3.1	3.2	2.2	1.5
0.9	2.1	3.7	4.0	3.9	2.6	6.3	5.0	3.6	2.9	2.2	1.6
0.3	0.7	3.6	4.3	5.0	4.5	2.5	2.7	3.5	2.8	2.3	1.1
0.1	0.6	3.7	4.7	5.8	0.8	1.6	5.6	2.3	2.7	1.6	1.4
0.2	1.4	3.5	4.7	6.9	3.0	5.2	6.5	1.8	2.7	1.6	0.9
0.7	2.0	3.8	5.1	6.7	2.9	5.9	6.8	2.4	3.4	2.0	0.0
1.2	0.2	2.5	3.4	5.5	1.5	5.5	6.3	3.9	3.1	0.0	0.2
1.0	1.3	3.3	1.3	2.7	3.5	5.8	6.7	3.9	3.0	0.1	0.3
1.4	1.7	3.5	4.3	2.4	4.6	5.9	6.3	2.1	3.3	0.6	0.8
1.0	1.1	3.2	4.9	1.5	5.5	5.7	6.5	3.7	3.0	1.1	1.0
1.1	0.5	3.2	5.0	2.1	6.1	4.3	6.2	3.9	2.2	1.3	1.0
1.4	1.1	3.1	3.3	3.2	5.1	5.9	6.8	4.7	0.9	2.0	1.0
1.3	1.2	2.5	2.1	3.6	4.4	6.5	3.8	3.9	2.6	2.3	0.4
2.2	2.3	1.4	2.8	2.9	5.9	6.6	3.9	4.7	2.5	2.3	1.2
2.2	2.2	2.8	2.6	2.3	6.1	6.8	5.5	4.2	2.6	1.8	1.2
1.2	0.4	2.5	3.4	4.7	6.0	7.2	4.9	4.7	2.6	1.2	0.8
0.3	-77.0	3.4	3.8	4.9	5.9	8.4	3.2	1.0	2.4	1.2	0.7
0.2	-77.0	2.0	2.3	2.9	5.9	8.2	5.5	0.3	3.1	1.3	0.5
0.9	-77.0	1.3	-77.0	3.1	-77.0	6.8	6.7	-77.0	3.3	-77.0	0.9
Jan_2008	Fev_2008	Mar_2008	Abr_2008	Mai_2008	Jun_2008	Jul_2008	Ago_2008	Set_2008	Out_2008	Nov_2008	Dez_2008
0.1	0.4	2.5	4.0	4.4	4.1	6.4	5.9	4.5	3.4	0.6	0.8
0.3	0.6	2.6	4.8	4.7	4.3	4.7	6.3	4.2	3.6	1.8	1.3
0.0	0.1	1.8	5.3	4.5	4.6	5.8	6.4	3.5	3.8	1.2	0.1
0.6	0.5	4.0	5.3	4.5	4.8	5.7	6.5	2.4	3.8	0.4	0.1
-0.1	0.3	3.5	4.7	3.7	5.1	5.7	6.3	1.2	3.9	1.6	0.5
0.0	1.7	3.7	4.4	3.1	5.7	5.6	5.1	3.2	3.6	1.0	-0.1
0.6	2.2	3.4	0.9	1.3	6.2	5.9	5.5	3.9	0.7	0.5	0.0
0.3	2.5	2.9	0.4	3.6	6.1	5.7	5.7	4.4	2.5	1.5	0.8
0.1	2.6	2.5	0.8	2.8	5.3	6.1	6.5	3.6	4.1	1.6	1.2

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.5	2.5	0.3	0.9	2.7	5.4	6.2	6.2	4.4	5.0	1.5	1.4
0.8	2.4	1.5	3.2	2.1	5.6	4.5	3.7	4.0	1.5	0.8	0.7
1.0	2.3	2.7	2.7	3.3	7.1	5.9	4.7	4.7	0.3	1.7	0.5
-0.1	2.0	2.9	1.9	2.6	6.8	6.2	5.5	4.8	1.8	1.8	0.5
0.4	1.9	2.5	3.9	2.3	6.7	6.9	4.9	5.4	2.7	2.3	0.7
0.0	1.9	2.4	3.5	1.1	5.1	7.1	5.2	5.0	2.7	1.9	1.3
0.7	1.6	2.4	3.2	3.2	2.7	6.7	2.5	3.5	2.4	1.8	1.1
0.0	0.5	1.6	1.1	4.4	5.4	6.1	4.9	2.7	1.9	2.0	0.8
1.1	-0.1	1.4	1.7	2.5	6.1	6.4	5.2	2.7	1.8	1.7	1.0
1.4	0.4	0.4	1.0	3.7	6.4	6.4	5.5	4.1	2.2	2.3	1.3
1.5	0.6	3.3	1.0	2.4	6.7	4.9	5.6	2.8	1.3	2.0	1.4
1.4	1.4	3.6	2.4	3.1	6.8	6.0	5.3	1.9	2.1	1.9	1.8
1.8	2.3	1.5	2.1	1.9	6.6	6.8	5.1	1.6	2.6	2.3	1.9
1.9	0.4	3.2	2.4	1.4	5.6	6.1	6.4	2.0	3.1	2.0	1.2
1.4	0.2	3.0	4.4	2.0	6.1	5.8	6.1	2.6	2.7	1.1	1.1
1.4	1.8	2.8	5.6	2.4	6.9	3.5	5.3	4.5	3.3	1.6	1.3
1.4	1.9	2.3	5.4	1.5	6.9	5.3	5.0	4.0	3.3	2.2	1.1
1.6	0.6	2.0	5.3	2.2	6.9	5.9	5.0	3.9	2.7	1.7	0.0
1.8	1.9	2.8	3.4	3.2	8.2	5.9	5.2	3.3	2.5	0.2	-0.1
1.9	2.4	3.6	2.4	2.6	7.3	5.8	4.6	3.5	2.2	0.2	-0.1
1.7	-77.0	2.3	3.1	2.3	7.4	6.0	2.7	3.8	0.4	0.5	0.7
1.8	-77.0	3.0	-77.0	3.8	-77.0	4.2	4.5	-77.0	0.3	-77.0	-0.1
Jan_2009	Fev_2009	Mar_2009	Abr_2009	Mai_2009	Jun_2009	Jul_2009	Ago_2009	Set_2009	Out_2009	Nov_2009	Dez_2009
0.0	0.0	0.6	3.7	5.3	8.0	5.4	3.0	4.8	2.8	1.4	0.0
-0.1	0.9	1.2	3.8	6.2	6.9	5.9	5.1	5.0	4.6	2.0	0.4
0.3	0.1	2.4	3.7	6.5	4.8	5.4	6.2	5.1	3.9	1.7	0.6
1.0	0.4	1.3	4.1	6.7	4.5	5.8	5.7	5.6	3.0	1.8	1.0
0.3	0.3	2.0	3.7	6.8	1.9	4.6	5.5	5.5	1.5	1.0	-0.1
1.2	0.7	1.2	2.3	6.7	1.8	5.7	5.4	5.9	0.8	0.4	-0.1
1.0	1.1	3.1	3.1	5.8	2.8	5.9	5.7	6.1	2.2	1.3	0.8
1.2	0.3	3.1	3.8	3.5	3.2	6.1	4.6	5.0	2.3	0.6	0.6
0.9	0.1	3.5	2.8	2.8	3.2	6.4	5.3	4.7	2.6	1.7	0.3
0.8	1.5	3.5	2.6	1.6	3.1	6.1	6.8	4.2	3.3	1.5	0.0
1.3	1.7	3.5	2.9	1.5	6.1	6.0	7.0	4.0	3.7	1.0	0.8
1.2	2.2	4.5	3.6	2.1	7.2	6.4	7.1	2.6	4.7	0.9	0.8
0.1	2.2	3.9	1.7	2.2	6.8	5.8	3.9	3.7	4.8	0.5	1.5
0.5	1.8	3.7	1.5	4.4	1.6	5.5	6.2	3.9	3.6	0.7	1.6
-0.1	2.3	4.2	1.3	4.9	5.1	6.2	5.1	5.6	4.2	0.2	1.2
0.7	2.1	4.3	1.6	4.2	2.3	6.3	6.4	4.4	5.2	0.2	0.0
1.2	2.4	5.2	1.1	4.1	6.5	6.0	6.9	2.9	3.9	1.1	0.7
0.0	2.6	4.8	0.8	4.7	5.7	7.4	6.9	1.3	3.3	0.7	0.1
0.5	1.9	4.0	3.1	5.1	7.8	7.6	6.5	3.5	3.0	0.6	1.4
0.4	2.2	4.5	4.0	5.3	7.7	5.8	5.9	3.9	0.7	0.5	1.3
0.6	2.0	3.9	4.6	5.5	8.4	6.6	5.7	4.2	0.3	0.1	0.1



Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.1	2.9	4.0	6.0	4.4	6.9	1.6	6.6	4.8	1.8	0.9	0.0
0.3	2.5	3.1	5.8	2.1	5.5	4.1	6.4	5.0	1.1	1.2	0.2
1.2	2.7	4.2	5.0	2.0	5.1	5.6	4.4	4.8	1.0	1.3	0.3
0.6	2.6	4.8	2.9	2.2	3.0	6.4	5.3	4.5	1.7	0.0	0.1
0.9	2.6	3.9	3.6	5.4	5.5	6.5	5.2	4.4	2.1	0.2	0.7
0.1	2.9	3.1	3.0	7.2	5.5	6.6	5.3	4.2	2.1	0.5	0.2
0.1	1.3	3.9	3.1	8.7	0.8	6.4	5.5	4.3	2.5	0.0	0.0
0.1	-77.0	3.1	1.4	8.5	2.7	6.3	6.7	3.1	1.6	0.4	0.0
0.0	-77.0	3.7	1.6	7.7	5.1	6.3	6.6	1.7	1.5	1.0	0.3
0.9	-77.0	3.3	-77.0	8.2	-77.0	6.2	6.1	-77.0	2.1	-77.0	0.2
Jan_2010	Fev_2010	Mar_2010	Abr_2010	Mai_2010	Jun_2010	Jul_2010	Ago_2010	Set_2010	Out_2010	Nov_2010	Dez_2010
0.3	1.5	1.4	2.4	4.3	6.4	6.9	5.6	4.6	3.7	2.1	0.5
0.0	1.8	0.9	1.7	4.4	3.9	5.2	5.7	5.2	3.1	2.2	1.0
-0.2	0.8	0.5	1.6	4.8	6.1	5.8	7.9	5.4	0.2	2.1	0.9
-0.1	0.0	1.5	3.6	5.0	5.9	8.1	8.0	5.3	2.1	2.5	0.5
0.3	0.8	-0.1	4.5	5.0	5.2	8.6	7.2	5.1	2.8	2.3	-0.1
0.4	0.9	0.0	3.0	4.9	5.5	8.2	8.0	4.2	0.7	2.0	0.4
1.1	0.4	0.4	4.2	2.3	5.6	5.3	7.7	1.7	1.5	1.3	0.2
1.5	1.1	0.1	4.9	0.2	1.7	6.3	3.7	3.7	0.1	0.4	0.1
1.3	0.9	2.6	5.1	2.6	2.3	6.1	5.6	4.6	1.4	1.2	0.1
0.2	0.0	2.6	5.3	3.0	2.4	7.3	7.2	5.6	1.4	1.3	0.9
0.1	1.6	2.4	5.1	2.2	2.5	7.5	7.9	6.0	2.5	0.9	0.8
-0.1	1.1	2.2	3.9	2.8	3.4	6.2	7.0	5.7	2.4	0.6	0.0
-0.1	1.7	2.6	2.0	3.2	4.4	5.7	6.6	5.3	2.8	0.3	0.8
0.9	1.0	2.9	0.0	2.2	5.2	5.5	7.2	5.1	2.0	0.9	1.3
0.0	0.0	3.0	2.1	4.6	6.7	6.1	7.2	2.3	2.4	1.2	2.2
-0.1	0.1	3.1	1.2	5.0	5.1	6.3	5.9	3.3	2.6	1.0	1.4
0.1	0.5	2.8	1.5	6.2	5.6	6.6	3.5	2.2	3.2	1.2	0.9
-0.1	0.2	1.7	1.3	6.6	4.1	7.5	4.9	3.3	3.2	0.6	0.7
0.3	1.9	0.7	1.6	6.9	5.1	6.7	5.2	4.5	3.3	-0.1	0.8
0.9	1.1	0.6	3.8	6.8	5.5	6.9	6.0	3.3	3.0	1.1	0.0
0.3	0.7	2.1	2.8	7.6	7.5	5.7	6.9	2.6	2.9	0.8	0.0
0.3	0.5	2.7	2.2	6.4	7.2	5.7	5.7	3.6	1.5	1.0	-0.1
0.6	0.4	2.2	3.6	5.8	6.8	6.9	3.6	1.8	2.3	0.1	1.1
1.3	0.7	0.9	3.4	3.9	5.8	8.3	5.4	3.4	2.3	0.7	0.8
1.6	0.6	1.1	4.7	1.2	4.1	8.6	6.3	3.8	2.2	0.4	0.5
1.6	0.8	1.4	5.3	3.4	3.7	9.1	6.4	4.5	3.1	1.2	1.1
2.3	0.2	2.6	5.0	3.9	5.8	8.7	5.7	4.1	2.5	1.3	0.4
1.8	0.3	3.3	5.4	4.9	5.4	7.7	6.2	3.5	1.8	1.4	0.2
1.6	-77.0	0.8	4.2	5.4	6.8	7.6	7.1	3.5	0.0	0.0	0.1
1.3	-77.0	1.3	3.3	5.8	7.0	7.6	7.1	3.4	0.1	0.3	-0.1
0.7	-77.0	1.3	-77.0	6.6	-77.0	6.6	4.4	-77.0	0.9	-77.0	0.0
Jan_2011	Fev_2011	Mar_2011	Abr_2011	Mai_2011	Jun_2011	Jul_2011	Ago_2011	Set_2011	Out_2011	Nov_2011	Dez_2011
0.0	1.7	2.7	4.5	2.7	6.6	4.4	2.5	1.3	4.8	0.3	0.5

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.8	2.2	2.6	1.4	2.6	6.5	6.2	4.1	1.5	4.6	0.0	1.2
0.1	2.1	2.5	1.8	4.4	5.8	5.1	5.1	3.2	4.3	0.7	1.1
-0.1	2.1	1.6	3.5	4.4	6.0	5.8	6.2	4.0	4.6	0.6	0.7
0.0	2.0	0.2	4.9	4.4	2.8	6.1	4.7	4.6	4.8	1.6	0.8
0.4	1.8	1.4	5.7	3.6	3.0	6.0	2.4	5.6	4.9	1.9	0.9
0.3	1.9	2.2	5.1	3.0	4.3	5.8	6.2	5.7	4.5	1.8	1.0
0.0	0.8	0.3	5.4	3.3	4.9	5.4	6.6	5.4	4.8	0.2	0.6
0.5	0.5	0.7	4.0	5.1	2.8	5.1	8.1	5.5	4.5	-0.1	0.4
0.0	1.3	1.8	4.7	5.9	5.1	5.8	8.1	2.8	4.4	0.1	-0.1
0.7	1.1	0.4	5.3	5.9	5.7	4.9	7.0	3.8	4.6	0.4	0.2
0.7	1.1	1.0	5.0	5.7	5.9	5.4	5.6	4.9	4.3	0.9	0.6
0.9	0.1	0.3	5.1	5.8	5.5	6.4	5.7	5.4	4.3	1.2	0.0
0.6	0.2	0.1	5.4	5.6	5.6	6.4	5.3	5.5	4.4	0.2	0.4
0.8	0.5	2.2	4.8	6.7	5.7	6.8	5.5	4.4	4.1	0.6	0.6
0.1	0.2	2.2	5.2	5.4	5.5	6.5	4.5	3.5	2.8	0.9	0.1
0.1	1.3	2.6	4.5	2.6	5.3	5.9	5.0	3.8	3.0	1.3	0.9
0.3	0.4	3.1	3.2	1.7	5.6	5.7	5.3	4.5	3.0	0.9	1.0
0.6	0.0	3.8	0.6	3.5	6.5	6.2	5.9	5.6	2.8	-0.1	0.9
1.2	0.9	4.3	0.5	5.1	6.4	6.9	5.9	5.5	3.7	0.4	0.9
2.0	1.0	3.8	0.6	5.1	6.7	6.5	2.5	4.7	3.6	0.8	1.0
2.2	2.2	3.3	1.3	5.5	6.3	6.5	2.8	3.8	2.3	0.3	1.0
2.1	2.3	2.5	2.4	5.1	6.5	6.2	3.9	3.2	0.8	1.5	0.9
2.5	2.6	1.5	4.1	6.1	7.4	7.4	5.2	3.7	1.8	1.5	1.9
1.9	2.9	0.9	4.7	5.8	7.8	6.7	4.0	3.9	1.1	1.8	1.7
1.6	2.6	0.4	5.0	3.3	6.2	6.6	5.0	4.5	0.0	1.4	1.2
0.1	2.9	1.1	5.1	3.8	6.6	7.6	5.7	3.9	1.3	1.4	1.0
0.3	2.6	0.6	3.7	3.1	5.7	7.9	5.7	3.5	2.4	1.2	1.1
0.8	-77.0	2.5	1.2	3.5	6.0	6.8	5.1	4.7	2.1	1.0	1.5
1.0	-77.0	3.0	1.1	2.2	7.5	6.0	3.9	4.1	2.4	0.5	1.3
1.2	-77.0	3.8	-77.0	4.3	-77.0	5.6	2.2	-77.0	1.3	-77.0	1.2
Jan_2012	Fev_2012	Mar_2012	Abr_2012	Mai_2012	Jun_2012	Jul_2012	Ago_2012	Set_2012	Out_2012	Nov_2012	Dez_2012
0.5	0.5	2.0	1.6	1.4	5.9	6.3	6.0	7.0	3.4	1.2	1.2
0.9	1.9	1.6	1.9	0.1	1.8	6.9	6.0	7.8	3.0	0.7	1.3
0.7	2.0	1.0	1.4	1.1	5.0	6.4	6.6	7.1	3.1	0.1	1.2
1.2	2.1	1.2	1.7	2.1	6.1	5.5	6.5	6.4	3.4	0.5	0.7
1.1	2.0	2.8	2.7	2.2	5.3	5.8	5.0	6.2	3.8	0.9	0.4
1.5	1.9	2.7	1.6	2.5	3.3	5.8	5.6	6.5	2.2	1.9	-0.1
1.4	1.9	3.2	2.5	0.3	4.0	4.2	6.7	4.8	3.3	0.9	0.1
1.4	2.2	3.2	4.0	3.5	4.8	5.9	6.8	4.0	3.0	-0.1	1.0
1.3	1.7	5.0	4.5	5.1	4.4	5.6	6.4	3.7	2.3	0.8	0.9
1.3	2.5	4.7	1.4	5.9	3.5	5.4	6.3	4.3	2.1	0.6	0.6
1.0	2.8	3.9	1.1	3.1	3.8	5.9	6.4	4.5	1.5	1.8	0.8
1.0	2.8	3.9	2.4	4.3	4.0	6.7	5.5	5.4	2.9	2.0	0.4
0.5	2.7	3.8	1.5	5.1	6.0	6.2	5.4	5.3	3.0	1.6	0.1

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.6	2.0	3.5	2.1	6.4	4.9	6.2	3.4	6.6	1.5	1.8	0.1
0.1	2.5	1.9	3.4	5.9	5.2	6.8	3.3	6.2	2.8	1.2	0.2
1.0	2.7	2.2	4.4	6.5	3.6	8.2	5.4	5.0	1.7	0.1	0.2
1.4	2.4	0.9	3.0	4.3	4.8	8.4	6.2	3.8	0.1	0.1	0.0
1.3	2.3	2.2	1.0	4.7	3.6	8.7	5.7	4.3	0.0	1.4	0.0
1.4	2.3	3.6	1.0	2.9	5.2	8.3	5.2	4.3	0.9	1.2	0.1
1.3	2.8	3.9	1.1	2.1	4.4	7.5	6.1	4.1	2.0	0.2	0.8
1.7	2.5	3.4	1.2	3.0	5.5	7.0	6.2	2.5	0.6	1.1	0.1
1.5	3.1	3.4	2.6	4.8	6.1	6.9	5.8	4.2	0.4	1.1	0.1
1.3	3.2	3.8	1.3	6.0	6.6	7.1	4.9	1.6	2.3	0.2	0.9
1.5	3.2	1.8	3.1	6.2	7.5	5.7	4.7	2.3	0.6	-0.1	0.9
1.2	3.4	4.3	0.4	4.6	7.3	6.0	5.2	0.9	0.5	0.0	1.0
0.7	2.8	5.2	1.0	4.3	6.1	5.6	5.4	2.8	0.7	0.9	1.0
1.4	2.6	5.4	1.3	4.5	7.3	4.5	4.2	2.1	1.9	1.3	0.9
1.7	2.4	5.7	2.4	5.7	5.7	4.8	4.0	0.1	2.8	1.3	0.9
1.9	2.8	5.4	1.3	5.1	4.6	6.1	5.1	3.3	1.7	1.4	0.4
1.7	-77.0	2.7	2.9	5.8	4.2	6.2	5.8	3.7	1.4	0.7	0.6
1.6	-77.0	1.6	-77.0	6.6	-77.0	5.8	6.7	-77.0	1.6	-77.0	-0.1
Jan_2013	Fev_2013	Mar_2013	Abr_2013	Mai_2013	Jun_2013	Jul_2013	Ago_2013	Set_2013	Out_2013	Nov_2013	Dez_2013
0.7	1.0	2.2	2.7	3.1	6.3	6.5	6.5	6.5	0.2	1.2	2.1
1.0	2.0	1.8	2.4	4.3	6.6	6.0	5.8	6.5	0.9	0.7	1.5
1.8	1.6	0.6	1.2	4.8	6.7	6.9	5.9	6.1	2.5	1.9	1.6
1.6	1.8	0.8	1.2	5.2	6.2	7.8	6.5	5.2	2.4	0.6	1.6
1.3	1.8	0.9	2.9	5.1	6.2	8.0	5.6	4.7	2.6	1.1	1.4
1.1	1.6	1.0	3.4	2.7	3.1	7.3	5.3	4.1	3.7	0.9	1.2
0.2	1.6	1.4	2.3	2.7	2.1	7.9	5.3	4.4	3.4	0.8	1.3
0.5	2.0	0.5	2.2	2.6	2.1	7.7	6.5	4.7	3.4	1.3	1.1
0.0	1.9	1.6	1.2	2.1	2.1	7.7	7.2	5.3	4.2	1.3	1.2
0.1	0.5	0.9	1.1	4.9	2.0	7.8	7.7	5.1	4.0	1.4	1.3
0.0	1.3	1.2	1.5	5.4	3.9	6.1	7.5	5.5	3.4	2.0	1.2
0.6	1.3	1.7	2.4	5.5	5.6	3.9	6.5	5.9	1.0	2.3	0.7
0.7	1.8	2.5	3.8	5.9	6.1	3.2	6.2	5.7	1.5	2.1	0.1
1.3	1.8	2.7	4.1	5.1	6.3	5.2	6.9	5.3	1.3	2.7	1.2
1.2	1.9	2.7	3.5	3.8	6.7	5.5	6.6	4.8	1.0	1.9	1.2
0.2	1.0	1.1	4.2	2.4	5.7	5.4	5.2	4.9	2.3	1.3	1.1
0.3	0.0	0.8	4.5	2.3	4.1	6.0	6.2	4.7	1.7	1.2	0.0
0.2	0.4	2.0	4.5	3.0	3.6	5.9	6.0	4.8	0.9	1.2	0.2
0.9	0.3	0.3	4.8	2.5	4.6	5.7	6.5	4.9	1.6	1.3	0.7
0.2	0.4	2.5	4.9	3.3	5.7	6.3	7.4	5.4	1.2	1.6	1.3
1.0	0.5	2.4	4.5	4.3	5.3	5.9	6.9	5.2	0.8	0.8	1.0
0.6	0.4	2.1	4.5	5.1	6.6	5.7	6.1	4.8	0.7	0.5	0.7
0.3	1.6	1.0	4.7	5.2	7.0	6.1	5.8	4.7	0.9	1.5	0.0
0.9	2.0	2.0	4.9	5.6	8.0	6.4	6.0	3.2	0.1	2.0	0.0
0.3	2.2	0.5	4.9	5.9	8.2	5.0	6.4	2.4	0.2	2.1	0.4

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

1.3	2.2	0.6	4.1	4.5	7.7	5.0	5.8	2.7	1.5	2.0	0.5
0.1	0.8	1.4	4.5	4.7	7.4	4.7	5.9	0.4	2.1	1.8	0.1
1.1	1.7	1.2	3.7	5.2	7.4	3.7	5.2	1.0	0.5	1.5	0.9
1.2	-77.0	0.7	1.7	2.9	7.8	5.6	5.9	0.3	2.0	1.6	0.8
1.2	-77.0	3.1	2.3	5.3	7.8	6.6	5.8	0.0	2.3	1.4	0.4
1.6	-77.0	0.1	-77.0	5.8	-77.0	6.8	6.5	-77.0	2.2	-77.0	0.0
Jan_2014	Fev_2014	Mar_2014	Abr_2014	Mai_2014	Jun_2014	Jul_2014	Ago_2014	Set_2014	Out_2014	Nov_2014	Dez_2014
0.0	0.8	0.3	0.1	5.2	6.1	4.9	4.4	5.6	3.8	0.9	1.7
0.0	7.5	0.6	1.3	5.7	5.6	4.1	4.0	5.6	3.7	0.8	1.2
0.0	6.6	2.3	1.8	6.2	6.3	4.7	4.2	3.9	3.2	0.3	0.9
0.4	0.0	1.7	0.4	5.9	5.5	5.8	5.5	4.7	3.1	1.2	1.1
0.1	0.8	2.6	1.7	5.6	5.1	6.0	6.5	4.7	2.6	1.8	1.1
0.0	0.2	2.3	2.5	5.2	1.6	2.6	6.4	1.4	2.3	0.5	1.4
0.0	0.6	2.7	3.8	4.7	4.1	6.0	6.2	2.9	0.6	0.8	1.3
0.7	0.9	3.0	4.3	5.6	3.6	6.5	5.2	3.4	0.9	0.4	1.2
1.2	0.2	2.4	2.7	5.7	3.8	7.7	5.4	4.0	1.5	1.2	0.5
0.7	1.6	3.8	4.5	5.8	4.6	8.3	5.3	1.2	2.2	0.0	1.2
0.9	-0.2	3.7	3.2	6.0	6.6	8.1	5.7	1.5	1.1	0.8	1.0
0.0	0.0	3.3	3.3	6.1	7.1	7.3	6.0	3.1	0.0	0.9	0.4
0.8	1.2	2.7	4.1	6.2	7.4	6.8	6.0	3.6	0.1	0.0	0.1
0.4	0.3	3.0	2.2	6.9	7.7	6.8	6.1	2.7	1.3	0.6	0.4
0.1	1.2	3.2	4.4	6.7	8.3	6.7	6.3	1.8	0.3	0.5	1.0
0.7	1.7	3.6	3.4	6.3	7.9	7.1	6.9	0.9	1.3	0.8	1.2
0.1	1.1	3.5	4.3	6.8	6.9	6.0	7.1	1.7	0.9	0.5	0.7
0.6	1.2	3.2	2.5	6.0	4.0	4.0	6.5	2.3	0.9	0.4	0.9
1.4	2.1	3.2	1.2	3.0	5.1	3.6	5.0	2.5	2.6	-0.1	0.8
0.8	0.5	1.9	1.5	1.4	5.2	4.5	6.0	2.2	2.9	0.3	0.9
0.0	1.5	1.2	3.4	1.6	3.6	6.1	5.8	2.1	2.6	1.1	1.0
1.3	0.8	2.4	2.5	2.6	3.4	7.1	6.0	0.7	2.9	0.3	1.0
1.6	1.9	2.5	2.2	4.0	2.6	6.2	5.5	1.5	2.9	0.3	0.7
1.4	1.4	1.2	2.4	4.9	2.4	5.7	5.9	2.8	2.4	0.6	0.8
1.2	1.5	2.1	3.3	4.7	4.7	4.6	5.9	4.1	2.8	0.3	1.1
0.7	1.8	3.2	1.5	4.9	6.0	5.5	5.3	4.0	2.5	0.1	0.9
1.3	0.3	1.2	4.4	4.2	6.1	6.4	5.4	1.2	2.1	0.4	0.6
0.5	1.4	1.0	4.5	3.5	3.9	5.9	5.6	1.9	1.3	0.6	0.7
1.4	-77.0	1.9	4.7	3.1	5.9	7.0	5.7	3.1	2.3	1.1	1.7
1.3	-77.0	0.8	4.7	5.3	6.1	7.2	5.1	3.3	2.5	0.3	1.4
2.6	-77.0	0.6	-77.0	6.0	-77.0	5.2	5.1	-77.0	1.8	-77.0	1.2
Jan_2015	Fev_2015	Mar_2015	Abr_2015	Mai_2015	Jun_2015	Jul_2015	Ago_2015	Set_2015	Out_2015	Nov_2015	Dez_2015
1.2	1.0	1.8	5.0	1.8	5.8	4.0	5.8	4.3	3.7	1.9	1.1
1.0	0.5	2.3	5.2	3.8	6.0	6.1	6.9	4.6	3.9	0.2	1.1
1.2	1.0	2.1	3.4	0.8	6.3	6.9	5.9	4.1	2.7	0.7	1.2
1.2	1.9	3.3	4.8	1.1	6.5	6.7	6.1	4.3	0.9	0.2	0.9
1.1	1.8	4.1	4.8	3.1	5.9	6.1	6.4	3.9	1.3	0.0	1.3

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

## ANEXO 8 – Necessidades Hídricas das Culturas

### ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.8	0.9	3.6	1.6	4.3	7.0	7.1	6.4	4.5	2.0	1.2	1.1
0.9	1.2	3.7	4.2	5.6	5.3	7.2	6.2	4.7	2.8	2.0	0.3
1.1	1.7	3.8	2.2	3.3	4.9	6.8	6.1	4.8	3.0	2.1	0.5
1.6	2.0	3.9	0.4	4.8	3.6	7.2	7.4	3.8	2.8	2.0	0.8
1.4	1.6	3.6	1.6	5.9	5.7	6.4	7.0	4.3	0.4	1.9	1.0
1.2	0.9	3.2	3.9	6.0	2.0	6.6	5.8	4.3	0.5	1.7	0.8
1.3	1.6	2.8	4.3	5.6	3.8	6.3	4.1	3.8	0.4	1.6	0.8
1.0	0.9	3.5	4.9	5.2	2.8	6.6	4.8	1.5	1.8	1.5	0.1
0.3	0.5	3.5	3.5	5.7	1.9	6.9	5.1	3.8	2.9	1.8	0.1
0.2	0.9	3.2	1.6	5.8	3.1	6.8	5.2	0.7	2.7	1.6	1.0
0.4	1.7	3.2	1.8	7.2	5.6	6.6	4.4	2.7	1.9	1.4	1.0
0.5	3.1	0.5	3.3	7.3	7.2	4.7	5.4	3.2	1.0	1.4	0.9
0.1	2.7	0.7	2.5	6.5	7.7	6.4	5.4	4.1	0.5	1.4	0.7
1.8	2.4	2.8	3.9	5.9	7.9	6.6	6.1	4.7	1.9	1.2	1.1
0.4	1.0	2.8	4.1	5.5	8.4	6.4	5.7	4.8	2.2	1.4	0.5
0.4	2.2	2.0	4.0	6.3	7.6	6.3	6.1	5.0	2.9	2.0	0.6
0.9	2.0	1.5	3.3	6.8	6.0	7.2	5.1	4.4	2.8	0.6	0.7
0.9	1.0	2.3	4.5	6.8	5.6	7.4	2.7	4.1	1.0	1.6	0.4
1.6	1.2	1.9	0.7	6.8	5.7	5.3	4.0	4.6	0.2	1.1	0.0
1.8	1.8	2.1	1.4	6.2	6.7	6.6	5.3	4.2	1.5	1.4	0.8
1.9	1.9	1.3	2.1	7.3	7.5	6.9	5.0	3.8	1.1	1.8	0.9
1.8	2.7	3.7	2.7	7.3	8.0	6.8	4.5	4.3	0.8	1.4	1.4
1.7	1.9	4.3	3.6	6.5	8.0	7.1	5.5	4.5	1.3	1.3	0.3
0.9	-77.0	3.7	3.7	6.9	8.0	6.6	5.7	3.2	0.9	1.4	0.4
0.5	-77.0	4.6	4.6	6.5	6.8	5.5	5.5	3.5	0.9	1.5	0.1
1.5	-77.0	4.6	-77.0	6.2	-77.0	4.8	2.3	-77.0	0.9	-77.0	0.2
Jan_2016	Fev_2016	Mar_2016	Abr_2016	Mai_2016	Jun_2016	Jul_2016	Ago_2016	Set_2016	Out_2016	Nov_2016	Dez_2016
0.1	1.6	2.8	3.5	5.4	5.7	6.1	6.3	5.5	3.5	2.4	0.2
0.7	1.4	2.5	2.1	5.8	5.4	6.6	6.9	5.9	3.4	1.6	0.3
0.2	1.8	2.6	1.2	6.3	5.6	7.4	6.9	6.0	3.7	1.5	0.0
0.5	2.1	1.0	1.0	4.3	5.4	6.4	5.9	5.8	3.6	0.1	0.6
0.6	1.8	1.6	3.6	0.3	5.2	6.4	6.7	6.1	3.5	0.6	1.5
0.2	0.9	2.2	4.2	0.4	5.6	4.8	8.1	7.2	3.8	1.8	1.3
0.4	1.4	2.6	4.3	0.2	6.1	2.4	8.6	6.0	3.3	1.7	0.7
0.3	0.5	2.5	3.6	1.3	6.8	6.8	8.1	5.0	3.5	1.4	1.1
0.3	0.6	0.8	2.6	1.2	6.1	7.5	6.8	4.9	2.8	0.9	1.3
0.6	0.4	2.7	1.6	1.3	4.6	7.4	7.3	5.0	2.8	1.6	0.7
0.9	1.1	2.9	1.9	0.6	5.9	6.8	7.3	4.9	2.4	1.1	1.0
0.7	0.4	3.0	1.9	1.5	6.1	6.5	7.0	4.7	0.4	0.9	1.0
1.0	0.5	3.2	2.2	1.8	5.5	7.2	6.8	3.5	1.3	1.7	0.1
0.8	1.1	3.0	0.7	3.3	4.5	7.8	6.7	3.0	2.8	2.2	0.5
1.3	2.0	0.1	0.6	3.6	3.3	8.3	5.7	2.1	1.2	2.1	0.3
1.4	2.1	2.4	2.4	4.6	3.7	7.8	5.6	4.0	1.4	1.8	0.5
0.5	0.7	2.5	2.1	4.9	4.6	7.5	5.2	4.5	1.5	1.7	1.1

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.7	1.8	0.1	3.1	5.0	5.9	7.2	5.9	4.7	1.8	0.4	1.6
0.4	2.2	1.0	0.7	5.4	6.6	6.6	4.3	5.0	1.9	1.1	1.1
0.2	2.7	1.1	1.6	5.9	6.9	6.8	5.8	4.5	1.4	0.0	0.9
0.1	2.4	1.0	1.5	4.0	7.1	6.5	6.2	3.7	0.6	0.8	0.8
0.1	2.3	1.6	2.9	5.2	7.2	6.4	6.8	3.1	0.4	0.8	0.9
0.3	1.9	2.2	3.1	4.1	5.6	7.5	6.3	3.9	1.1	1.0	0.9
1.0	0.4	3.6	3.5	2.1	6.0	7.7	5.9	4.0	0.9	0.7	0.9
-0.1	0.9	2.2	4.9	2.8	5.8	7.9	5.1	3.5	0.9	0.1	1.1
0.8	0.2	0.3	4.6	3.9	6.8	7.6	5.4	3.9	2.6	0.4	1.0
0.4	1.7	2.3	3.3	2.4	7.1	6.4	5.6	4.8	2.1	0.4	1.1
0.5	2.4	0.5	3.6	2.4	7.1	7.1	5.9	5.2	2.6	1.1	1.5
1.2	2.6	2.4	3.7	2.1	6.8	6.8	5.9	4.7	2.5	0.6	1.3
1.2	-77.0	2.1	5.0	3.9	6.5	4.3	5.6	3.9	2.7	1.3	1.2
1.5	-77.0	3.1	-77.0	5.5	-77.0	5.7	4.8	-77.0	2.6	-77.0	1.1
Jan_2017	Fev_2017	Mar_2017	Abr_2017	Mai_2017	Jun_2017	Jul_2017	Ago_2017	Set_2017	Out_2017	Nov_2017	Dez_2017
0.4	0.9	0.7	3.3	4.4	6.2	6.8	6.1	5.7	4.2	1.4	1.3
0.4	0.8	1.9	3.9	5.3	6.2	8.2	6.4	6.4	4.4	0.1	1.4
0.0	0.5	0.3	4.3	5.8	5.4	8.6	6.7	6.1	4.6	0.2	1.6
0.2	0.4	1.3	4.4	4.4	5.5	7.9	7.2	4.9	4.3	0.9	1.5
0.9	1.9	0.5	5.1	2.1	5.6	3.8	7.0	4.9	4.1	1.9	1.5
1.2	1.4	1.3	4.7	2.2	5.6	3.2	6.5	5.4	4.6	2.3	1.3
1.3	1.5	2.7	4.8	4.5	7.0	5.0	5.7	6.4	5.3	2.1	1.2
1.3	1.8	3.3	4.8	5.8	5.9	5.3	5.8	6.0	4.4	2.1	0.4
1.6	1.3	3.8	5.1	3.4	6.1	5.6	6.1	3.9	2.8	2.4	0.7
1.0	0.1	4.0	5.1	1.7	6.8	6.2	7.2	4.7	3.4	2.3	0.1
1.3	0.8	2.9	5.1	1.2	6.4	6.7	7.1	5.0	3.6	2.0	0.5
1.0	0.2	3.0	5.4	2.6	7.1	7.3	7.4	4.8	4.4	2.0	1.1
1.6	1.2	3.7	4.4	2.8	6.1	7.5	6.3	5.1	3.1	2.1	0.4
1.4	0.5	2.7	4.3	2.5	6.6	7.9	5.7	4.7	2.2	2.1	0.0
1.4	1.4	4.0	4.3	4.2	6.7	7.1	5.9	4.5	5.1	2.0	0.4
1.5	2.3	3.5	4.7	5.1	7.6	7.5	6.3	4.3	2.4	1.8	1.2
1.8	2.1	3.8	4.7	4.7	6.2	7.0	6.5	4.0	2.5	1.9	1.2
2.1	1.3	4.0	2.7	5.3	6.5	5.7	6.6	3.5	2.1	2.0	1.2
1.4	2.1	3.7	5.7	5.3	5.4	5.3	6.6	4.0	0.9	2.1	1.6
1.1	2.7	3.1	5.0	6.7	7.4	5.6	7.6	4.4	0.6	2.1	1.5
1.3	2.9	2.6	4.6	5.4	6.7	6.1	6.4	3.6	2.3	2.0	1.4
1.2	3.0	1.2	4.2	4.8	6.1	6.2	6.3	3.8	2.6	1.2	1.2
1.6	1.8	1.4	4.7	6.8	6.7	6.6	6.3	4.3	3.2	0.8	1.5
1.6	2.1	1.3	4.4	7.0	5.0	6.4	5.7	4.6	3.5	0.3	0.8
1.4	2.5	1.3	3.7	5.3	3.2	7.1	5.1	4.2	3.3	0.3	0.0
-0.1	0.9	0.0	3.4	4.5	5.6	7.4	5.3	4.2	2.7	1.5	0.0
0.6	0.8	1.0	5.1	2.7	4.9	7.2	4.5	4.2	4.1	1.2	0.8
0.3	1.1	2.2	5.2	2.5	4.1	7.0	2.7	4.1	4.3	-0.1	0.0
0.0	-77.0	3.6	2.6	3.3	4.2	6.4	3.9	4.2	3.8	1.2	0.1

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.5	-77.0	3.2	2.5	5.3	5.6	6.5	4.0	3.5	3.2	1.6	0.4
0.1	-77.0	3.5	-77.0	5.8	-77.0	3.4	4.3	-77.0	2.8	-77.0	0.4
Jan_2018	Fev_2018	Mar_2018	Abr_2018	Mai_2018	Jun_2018	Jul_2018	Ago_2018	Set_2018	Out_2018	Nov_2018	Dez_2018
0.3	1.9	0.5	2.8	3.5	4.3	2.5	6.8	6.2	4.9	1.5	0.8
0.2	1.9	0.2	0.9	2.3	4.7	2.0	7.4	5.3	5.4	1.2	0.6
0.2	1.3	0.1	1.6	3.6	3.1	4.7	7.2	2.6	4.7	1.8	0.0
0.5	1.5	0.8	2.2	5.1	2.0	4.6	7.3	2.7	5.0	0.0	1.2
-0.1	1.4	1.0	3.2	5.2	2.1	5.6	7.0	1.7	4.4	0.8	1.1
1.3	2.0	1.5	1.6	4.9	4.6	5.5	7.3	3.8	4.3	0.4	1.2
0.8	1.9	1.2	1.2	4.1	1.3	5.9	6.3	3.9	3.8	1.3	1.2
1.1	2.0	0.3	1.2	4.4	2.3	5.6	5.8	3.9	4.4	0.3	1.2
-0.1	0.4	0.0	0.6	3.6	2.3	5.7	6.0	3.9	3.9	0.5	1.2
0.3	1.8	1.6	1.2	5.1	1.6	5.1	6.4	5.3	1.9	0.2	1.7
1.0	1.0	1.0	2.3	4.7	3.2	5.4	6.9	5.6	1.6	0.4	0.6
0.6	2.1	1.8	0.3	4.3	4.8	4.9	6.5	4.9	1.8	1.1	0.3
0.4	1.0	2.0	1.9	4.6	5.6	5.3	5.7	5.8	3.1	1.6	1.0
0.7	0.5	0.1	3.4	4.8	5.9	4.9	5.8	5.5	1.9	1.7	0.6
1.2	0.4	1.0	0.7	6.0	6.2	3.4	6.3	5.2	0.6	1.2	0.0
0.4	1.7	1.7	3.3	6.2	6.1	5.8	5.7	4.6	1.6	1.2	0.8
1.4	1.2	1.0	4.1	5.5	7.2	6.2	4.9	4.6	2.2	0.4	0.9
1.6	2.6	2.0	4.8	3.6	7.6	5.3	6.7	4.6	2.1	0.0	-0.1
1.6	2.1	1.9	4.6	5.1	7.2	5.4	6.8	4.4	1.8	0.4	0.3
1.4	2.7	2.9	4.8	3.0	6.1	5.9	6.5	5.0	2.4	0.5	0.3
1.3	3.0	3.5	1.3	3.8	5.1	6.1	5.3	4.7	1.2	0.6	0.3
1.3	2.6	3.1	2.4	3.7	4.8	6.1	6.0	5.0	2.1	0.2	0.3
1.2	2.7	0.5	4.1	4.7	6.0	5.7	6.3	5.6	2.3	0.7	0.5
1.0	2.6	2.4	5.0	0.1	5.8	5.1	6.3	5.6	2.5	0.2	0.6
0.5	2.7	2.6	5.0	2.2	3.9	4.9	6.3	5.1	2.2	0.2	0.9
1.5	2.3	3.3	4.8	2.6	4.9	5.5	6.3	4.9	0.9	1.5	1.0
1.5	0.3	4.0	4.1	4.1	5.4	5.9	3.6	4.2	2.4	1.1	0.0
2.2	0.1	3.3	2.3	3.5	4.9	5.9	4.5	3.8	2.2	1.2	1.0
2.4	-77.0	2.2	2.2	2.8	4.1	5.8	4.6	4.3	2.1	-0.1	1.4
2.1	-77.0	1.3	2.8	3.0	2.3	5.8	5.3	3.9	0.8	0.8	1.7
1.7	-77.0	2.8	-77.0	3.7	-77.0	5.7	5.9	-77.0	0.1	-77.0	1.5
Jan_2019	Fev_2019	Mar_2019	Abr_2019	Mai_2019	Jun_2019	Jul_2019	Ago_2019	Set_2019	Out_2019	Nov_2019	Dez_2019
1.4	0.5	2.7	1.5	4.9	7.2	6.1	6.7	5.3	3.6	0.3	0.3
1.4	2.0	3.0	2.9	5.5	7.4	5.2	6.1	5.8	3.6	0.9	1.7
1.4	1.8	2.1	3.8	5.7	6.3	5.5	6.2	6.1	4.0	1.4	1.4
1.1	1.7	1.6	2.6	5.8	3.5	4.5	6.0	6.7	3.4	0.4	1.0
1.2	1.8	0.2	1.1	5.2	4.6	5.3	6.1	7.0	3.4	1.2	1.5
1.5	1.9	0.9	1.2	3.8	1.9	5.5	5.0	6.4	4.0	0.6	1.2
2.2	2.0	0.7	0.3	1.1	4.1	4.7	2.4	6.1	4.1	1.6	1.1
1.7	1.4	2.2	1.9	2.8	5.5	5.2	2.8	6.2	4.2	1.7	0.1
1.8	1.1	2.9	2.1	0.6	5.9	5.8	3.1	5.3	4.0	0.3	1.0

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

2.1	0.2	3.1	2.4	3.7	6.0	7.6	5.1	4.9	3.8	0.6	0.9
2.1	1.9	3.2	4.0	5.6	6.5	7.9	5.5	6.1	3.3	0.7	1.2
1.5	2.4	3.0	4.0	7.4	6.2	3.3	6.0	5.9	2.8	1.5	0.0
1.4	2.2	3.4	2.5	7.3	5.7	4.1	6.4	4.9	1.8	1.2	0.2
1.3	2.4	3.7	1.6	6.9	3.9	6.0	6.6	4.3	1.1	1.1	0.2
1.1	2.0	3.9	2.2	6.6	4.9	6.0	6.7	2.9	1.7	1.7	0.0
-0.1	2.5	4.2	3.8	4.4	5.7	5.2	6.8	3.5	1.3	1.4	-0.1
0.9	1.8	2.6	0.1	3.6	4.5	5.1	6.4	4.1	0.3	0.1	1.1
0.6	0.0	3.5	2.1	3.9	2.0	6.6	4.7	4.3	1.7	1.5	-0.1
-0.1	1.4	4.0	1.9	5.0	2.9	7.1	4.8	3.7	0.3	0.4	-0.1
1.7	1.6	3.8	4.4	5.3	4.5	6.9	5.9	2.1	2.0	0.0	0.0
1.3	1.9	3.7	4.5	4.4	6.1	5.4	5.9	0.5	1.7	0.4	0.7
0.7	2.4	3.9	3.2	5.6	6.1	6.0	6.1	2.6	2.5	0.9	0.8
0.8	2.1	4.1	1.3	5.2	2.5	6.3	6.8	3.5	1.9	1.1	0.2
1.9	3.1	4.3	0.9	6.2	1.2	6.8	6.6	1.8	2.0	0.4	1.1
2.0	3.1	4.8	2.3	6.8	4.4	4.4	4.0	3.7	2.5	0.6	1.0
2.0	3.3	4.8	3.2	7.0	3.5	5.6	2.6	4.0	2.7	0.1	1.0
1.8	2.2	5.1	4.7	6.6	5.6	3.2	4.9	4.3	1.8	0.4	1.5
0.5	2.1	4.6	5.0	6.9	6.6	6.0	4.9	4.0	0.0	0.4	1.9
0.4	-77.0	4.4	5.4	7.7	6.4	6.1	5.6	4.0	0.6	0.3	2.0
0.2	-77.0	4.1	5.0	7.9	5.6	6.5	6.0	4.0	0.0	0.1	1.2
0.1	-77.0	3.1	-77.0	7.2	-77.0	5.8	5.8	-77.0	0.4	-77.0	1.0
Jan_2020	Fev_2020	Mar_2020	Abr_2020	Mai_2020	Jun_2020	Jul_2020	Ago_2020	Set_2020	Out_2020	Nov_2020	Dez_2020
1.0	0.3	0.5	0.6	2.4	3.3	6.0	6.6	5.7	2.3	1.0	1.8
0.7	1.6	2.0	2.4	4.4	3.3	5.9	6.6	5.9	1.9	1.1	1.6
0.8	1.7	0.6	3.7	5.5	4.7	6.3	6.7	6.6	2.5	2.4	1.5
1.1	1.9	0.8	1.9	2.7	4.1	7.3	6.6	5.6	2.2	0.9	0.3
1.2	2.4	1.9	0.0	3.2	5.2	8.3	7.3	5.4	2.3	0.1	0.9
1.1	1.6	2.6	0.3	4.6	4.4	7.7	6.9	5.6	3.2	0.0	0.2
1.2	0.9	2.9	1.9	4.6	3.9	7.2	6.0	6.4	3.6	0.6	0.5
1.2	0.4	1.4	1.6	2.6	5.1	6.4	5.9	6.3	3.2	0.0	1.0
1.2	0.4	3.0	0.3	1.4	5.7	5.9	5.7	5.3	3.6	1.1	0.2
1.5	1.5	3.4	2.9	2.7	5.4	6.7	5.0	5.0	3.8	1.6	0.0
1.4	1.4	3.1	3.0	1.7	2.9	5.8	4.3	4.7	4.1	1.2	0.3
1.2	0.0	3.2	2.3	2.4	3.2	6.7	3.8	5.1	4.8	1.2	1.1
0.9	1.0	2.3	1.5	0.6	3.0	7.3	5.7	5.3	3.5	0.8	0.1
0.1	1.8	3.7	1.5	1.8	5.0	7.6	5.5	3.0	3.1	0.1	0.1
0.0	1.6	2.9	1.7	2.3	5.0	8.5	5.0	3.6	3.3	0.1	0.4
0.4	0.6	2.9	1.2	4.2	4.9	8.2	4.8	2.6	3.0	1.4	0.5
0.9	1.5	3.3	2.4	5.8	5.4	8.2	4.0	1.3	2.9	0.8	1.3
0.2	2.1	3.5	3.5	5.8	5.6	8.3	4.5	0.9	2.8	1.3	0.2
2.4	2.6	2.5	3.9	6.0	6.0	6.6	5.6	1.1	1.3	2.5	0.3
2.2	2.1	0.1	0.9	5.4	6.3	6.7	1.8	2.7	-0.1	2.5	0.5
1.7	2.8	1.4	2.4	5.3	6.4	5.5	3.8	3.5	0.9	2.5	0.0



Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

### ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.3	2.9	2.3	3.3	5.6	7.4	6.5	5.8	3.0	1.3	1.9	0.1
0.0	3.4	2.1	2.9	5.9	7.3	6.8	6.5	1.6	1.6	1.5	0.0
0.2	3.5	2.9	3.7	5.8	5.3	7.2	6.5	2.0	1.0	0.9	1.0
0.8	1.7	3.1	2.5	5.9	5.5	7.2	6.4	3.8	0.4	-0.1	1.4
1.0	2.5	3.6	2.1	6.6	5.0	6.5	6.1	3.5	2.0	0.0	1.8
-0.1	2.7	3.2	2.6	7.3	5.7	6.3	6.0	3.9	0.7	1.0	1.0
0.1	2.7	3.3	2.4	7.1	6.2	6.0	5.9	3.8	0.8	0.7	0.8
0.1	1.2	2.9	1.2	6.2	6.4	6.5	5.4	4.1	1.3	0.6	0.8
-0.1	-77.0	0.6	1.9	5.8	6.5	6.8	5.6	3.8	2.4	0.9	1.2
0.0	-77.0	0.2	-77.0	4.2	-77.0	6.9	5.8	-77.0	2.2	-77.0	0.1

#### 2.2.11 FRATEL

Tabela 24. Evapotranspiração de referência diária na região de cálculo de Fratel (mm)

Jan_2003	Fev_2003	Mar_2003	Abr_2003	Mai_2003	Jun_2003	Jul_2003	Ago_2003	Set_2003	Out_2003	Nov_2003	Dez_2003
-0.1	1.5	0.0	3.5	4.1	4.3	4.1	6.5	3.5	0.9	1.8	0.9
0.2	1.4	0.6	3.1	4.3	4.8	3.8	5.8	3.4	2.0	1.1	1.1
0.9	1.4	1.8	4.4	5.0	2.5	5.8	5.8	3.6	1.8	1.1	0.1
0.6	1.4	1.7	4.0	3.0	3.2	6.0	5.4	3.7	3.3	0.7	0.9
0.1	1.8	1.8	3.8	2.7	5.4	5.9	5.6	4.1	4.1	0.8	-0.1
1.1	1.5	2.3	4.2	4.1	6.1	5.6	6.2	4.8	4.0	1.8	-0.1
0.4	0.2	1.3	4.7	2.8	6.4	6.2	6.3	4.6	4.1	0.9	0.2
0.4	1.6	2.6	4.3	4.5	6.7	7.0	7.1	3.9	4.0	1.2	-0.1
0.9	1.4	2.5	3.2	4.6	6.1	7.0	6.4	5.2	3.9	-0.1	0.1
1.6	1.4	2.9	1.7	5.0	6.1	6.9	6.5	6.3	3.4	0.5	1.1
1.3	0.2	3.0	2.2	5.1	6.0	6.4	6.5	6.9	0.5	1.2	0.7
1.2	0.8	2.3	0.6	5.5	7.1	3.9	7.3	7.0	2.0	0.2	1.0
1.3	2.0	3.0	0.4	5.5	7.3	3.0	7.0	6.6	2.0	0.7	1.0
1.1	1.7	2.7	1.3	5.7	6.3	4.0	8.0	7.2	2.1	0.1	0.9
1.1	1.8	2.7	1.8	5.5	5.8	3.8	4.9	5.7	0.5	0.4	0.6
1.1	1.7	2.4	2.5	5.3	4.8	5.2	4.7	5.5	2.0	2.1	0.8
0.7	1.4	1.2	2.7	5.1	5.9	6.0	4.8	5.8	1.0	2.4	0.0
-0.1	-0.1	2.0	1.8	5.0	7.6	6.3	5.6	6.1	0.1	2.0	0.5
1.0	0.3	2.5	1.8	5.2	9.1	5.8	5.9	4.9	1.3	1.6	0.0
0.1	0.7	3.5	1.8	5.9	8.1	5.8	5.8	3.4	1.1	1.2	0.3
0.9	0.4	3.9	3.2	6.6	6.3	5.4	5.3	2.9	1.5	0.2	0.8
0.6	0.9	2.3	1.9	6.6	5.7	6.1	5.3	3.1	2.1	0.0	1.7
1.6	0.7	0.8	1.7	6.7	5.6	6.3	5.5	3.4	2.3	0.6	1.6
2.2	0.0	1.8	2.0	6.0	3.5	6.3	4.9	4.2	1.7	0.5	1.4
2.4	0.7	0.3	0.6	5.9	5.8	6.4	5.3	4.2	0.4	1.3	1.0
2.2	0.3	0.6	3.9	6.5	5.9	5.9	5.7	3.5	1.1	0.1	0.3
2.3	1.0	1.6	3.2	6.9	6.5	6.2	1.6	4.0	0.4	1.2	0.2
2.1	1.1	1.6	1.4	6.7	5.7	6.5	1.4	2.7	1.0	0.3	1.0

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

2.0	-77.0	0.7	1.8	6.4	2.8	7.5	3.3	2.1	1.5	0.1	0.5
1.9	-77.0	1.4	3.2	2.7	3.8	6.7	3.5	0.4	0.3	0.2	0.7
2.1	-77.0	2.8	-77.0	5.4	-77.0	6.6	2.8	-77.0	0.5	-77.0	0.3
Jan_2004	Fev_2004	Mar_2004	Abr_2004	Mai_2004	Jun_2004	Jul_2004	Ago_2004	Set_2004	Out_2004	Nov_2004	Dez_2004
0.3	0.1	1.9	1.4	2.7	6.2	7.7	6.6	3.9	3.7	2.0	0.5
1.1	0.3	2.5	1.5	3.0	6.7	7.9	5.5	2.0	4.0	0.6	0.4
1.1	1.4	2.0	1.8	3.1	7.4	7.6	4.4	3.2	4.3	-0.1	1.2
1.3	1.0	2.8	3.3	3.9	7.1	7.3	5.9	3.0	4.6	1.3	1.0
1.2	1.9	1.3	3.7	0.7	5.1	6.6	6.0	2.8	4.1	1.8	1.3
1.0	1.6	1.6	4.5	2.9	5.6	6.1	6.1	3.4	2.1	2.1	1.0
0.4	0.8	2.3	3.9	3.5	5.4	4.9	6.0	3.6	3.9	1.8	0.9
-0.1	1.5	2.5	3.2	4.5	5.7	5.3	1.4	3.0	1.6	1.9	1.0
0.6	1.7	1.9	4.6	1.4	5.5	6.1	1.8	4.1	1.5	2.0	0.8
0.8	1.9	1.5	4.2	2.0	6.4	5.2	2.2	3.1	1.1	2.5	0.8
0.9	2.5	0.4	4.1	2.8	6.8	6.4	1.9	3.9	0.9	2.2	0.9
0.7	2.3	0.3	4.1	4.1	7.2	7.4	4.8	4.8	2.6	2.3	1.2
0.3	2.1	2.1	4.6	5.3	7.5	8.2	5.8	4.1	2.7	2.8	0.3
0.4	1.5	2.9	4.4	5.9	8.8	7.5	6.2	3.5	1.8	3.0	1.1
0.0	1.5	3.6	4.6	5.8	7.7	6.5	5.6	5.2	1.5	2.5	1.1
1.0	1.3	2.9	3.3	6.5	7.7	6.3	3.3	5.3	1.8	1.9	1.0
1.1	1.4	2.5	2.8	6.3	7.7	6.2	2.7	5.4	1.0	1.4	1.0
1.7	1.6	2.9	1.6	6.6	6.4	6.3	2.8	4.7	0.2	1.4	1.1
2.4	2.5	3.2	2.1	6.9	5.4	4.8	3.4	4.3	0.1	1.3	1.0
2.1	1.8	3.5	1.6	5.4	5.9	6.2	4.4	4.0	1.1	1.7	1.3
1.7	2.0	3.2	0.9	2.6	4.9	5.8	5.9	4.7	1.3	1.1	1.3
1.5	0.0	3.8	2.7	2.3	4.9	5.1	5.8	5.6	2.1	1.2	1.5
1.4	0.0	3.2	4.8	2.6	3.5	5.5	5.8	4.8	2.0	1.3	1.3
1.4	0.1	1.3	5.2	1.6	5.7	6.8	5.7	3.6	0.2	1.3	1.1
0.6	0.0	3.8	5.3	2.5	6.4	8.7	6.4	5.6	0.4	1.2	1.3
0.2	2.1	3.2	5.6	4.5	7.6	8.7	6.0	5.9	1.5	1.2	1.5
0.3	1.9	2.4	5.3	5.2	7.8	8.2	6.0	5.4	1.1	0.8	1.4
1.6	1.1	1.5	3.7	4.6	8.0	6.9	6.7	5.1	0.6	0.3	0.3
0.9	1.4	0.6	4.4	4.5	8.3	6.4	5.7	4.9	0.7	0.3	1.3
-0.1	-77.0	1.3	2.7	5.3	8.5	6.1	5.3	4.2	1.2	0.2	1.7
-0.1	-77.0	1.5	-77.0	5.9	-77.0	6.1	4.3	-77.0	0.4	-77.0	1.1
Jan_2005	Fev_2005	Mar_2005	Abr_2005	Mai_2005	Jun_2005	Jul_2005	Ago_2005	Set_2005	Out_2005	Nov_2005	Dez_2005
1.0	2.0	2.4	1.8	2.0	6.8	7.0	6.2	5.5	5.4	0.3	0.1
1.1	2.4	2.1	0.9	3.4	6.6	8.6	8.1	6.2	6.0	1.2	0.4
1.4	2.0	2.2	1.1	3.3	6.9	7.5	8.5	6.5	4.9	0.0	0.4
1.1	1.9	3.2	2.1	5.0	6.6	6.6	9.4	6.7	4.8	1.9	0.2
1.0	1.1	2.9	3.2	6.3	7.7	7.9	7.6	4.6	4.8	2.1	0.9
1.3	0.8	2.5	3.1	6.2	8.3	8.1	7.7	2.2	4.7	2.2	1.1
1.6	0.7	3.2	3.5	5.8	9.4	7.1	7.2	3.6	4.3	1.9	1.1
1.0	1.6	3.0	3.9	4.2	7.6	8.3	5.0	4.8	3.2	1.2	1.1

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

1.0	2.0	3.3	4.3	4.0	6.8	7.5	3.9	1.7	1.6	1.8	1.9
0.7	2.1	2.3	4.6	3.1	6.5	8.2	3.3	3.3	0.1	2.2	2.4
0.9	2.1	2.8	4.8	1.7	5.8	7.5	5.0	3.9	0.9	1.9	1.9
0.8	2.1	1.9	4.5	2.3	4.1	6.5	7.3	4.4	0.8	1.1	3.2
0.0	2.6	1.0	4.2	2.6	2.7	7.1	7.0	5.7	2.4	0.5	1.8
0.1	3.1	1.4	3.0	3.3	4.7	6.8	7.8	6.2	1.0	1.1	1.7
0.1	2.5	3.0	2.9	3.8	6.3	7.3	7.8	5.7	1.4	0.8	1.5
1.2	2.8	2.9	3.4	2.2	7.3	6.7	5.7	4.5	2.4	1.2	1.4
1.5	2.9	4.3	1.6	4.7	8.4	6.1	5.9	5.1	0.1	0.4	1.6
1.5	2.5	4.5	2.5	5.3	7.9	6.6	6.6	5.8	1.9	0.2	1.6
1.7	2.7	2.3	2.2	6.1	6.0	8.1	6.1	5.2	2.6	-0.1	1.3
2.2	2.6	1.6	2.0	6.2	7.5	8.4	8.2	5.7	0.2	0.2	1.2
1.6	2.0	0.1	3.5	3.6	7.9	7.9	7.8	5.4	0.2	0.7	1.6
1.6	0.7	2.4	3.0	4.4	7.5	5.7	7.2	5.2	0.6	0.6	1.8
1.3	0.5	0.7	1.2	5.6	5.9	6.9	6.6	4.7	2.0	1.6	1.4
1.9	1.5	1.9	2.2	7.1	4.8	5.6	6.6	4.0	2.2	1.8	0.3
1.7	2.5	1.3	3.8	7.0	5.5	5.1	6.2	4.0	1.9	0.6	0.0
1.4	1.4	1.8	4.7	6.6	5.4	3.9	5.8	4.8	3.0	0.7	-0.1
1.9	1.8	1.7	5.2	5.3	5.1	3.7	6.0	4.8	0.2	0.5	0.7
1.8	2.9	0.5	5.2	4.4	4.4	4.4	5.7	4.9	0.5	0.0	0.6
1.5	-77.0	1.6	5.4	3.1	5.2	5.4	6.0	4.7	0.5	1.2	0.8
2.5	-77.0	3.1	4.6	4.2	6.2	6.3	6.0	5.3	0.0	1.4	0.5
2.2	-77.0	4.1	-77.0	4.4	-77.0	7.0	5.2	-77.0	0.4	-77.0	0.2
Jan_2006	Fev_2006	Mar_2006	Abr_2006	Mai_2006	Jun_2006	Jul_2006	Ago_2006	Set_2006	Out_2006	Nov_2006	Dez_2006
0.8	1.5	2.7	3.1	5.4	5.5	5.7	6.7	6.3	2.2	1.6	1.0
1.2	1.3	2.0	3.7	4.7	6.6	4.9	6.5	6.5	1.9	0.2	0.3
1.4	0.7	0.7	3.6	3.6	8.5	5.5	7.0	6.6	2.0	0.1	0.1
1.6	2.0	0.7	3.2	4.0	8.3	5.4	8.6	7.3	1.5	-0.1	0.3
1.0	2.5	2.5	0.9	4.4	8.0	6.1	8.5	7.3	3.2	-0.1	0.1
0.7	2.0	2.1	0.9	4.8	7.4	6.9	8.9	6.7	3.0	0.2	0.7
0.7	2.2	2.0	1.1	3.8	7.0	7.7	8.2	5.6	2.5	0.5	0.0
0.9	1.7	2.2	3.3	4.4	6.2	7.7	8.7	5.5	2.9	0.5	1.0
1.0	1.3	1.4	3.0	5.6	4.2	7.6	8.1	5.1	2.7	1.3	1.0
1.3	1.5	2.5	3.8	5.9	5.3	6.5	8.1	5.4	1.3	1.8	1.4
1.3	2.0	3.0	4.4	5.3	6.4	7.0	8.4	3.2	2.4	2.0	1.4
1.0	2.2	3.2	4.3	4.6	5.9	7.1	8.4	4.2	3.5	1.7	1.1
0.6	2.1	3.4	4.8	5.7	3.5	6.0	7.3	1.7	3.8	1.8	1.3
0.5	1.7	3.7	1.4	5.3	2.3	6.9	5.5	3.2	3.7	1.5	1.3
-0.1	1.5	3.3	1.8	4.8	4.3	7.0	5.0	3.6	1.2	0.0	1.2
0.9	1.2	0.8	2.2	5.7	3.2	7.7	1.5	4.5	0.1	1.0	1.0
0.4	0.9	-0.1	3.4	5.3	2.9	7.3	3.5	4.5	1.2	0.5	0.9
1.3	0.7	0.6	3.3	5.9	5.1	4.2	2.8	4.6	0.5	0.1	1.1
1.5	0.7	1.1	4.2	5.8	6.2	6.3	4.1	4.7	0.4	0.7	1.2
1.3	0.8	0.7	2.6	5.4	6.0	6.4	6.4	4.5	0.5	1.0	1.0

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

1.2	1.9	1.2	3.0	4.3	6.6	6.8	7.3	1.4	0.8	0.6	1.4
0.8	2.2	1.1	1.8	4.5	7.8	7.0	7.2	1.7	0.2	0.7	1.5
1.1	1.8	0.1	4.2	5.2	7.3	6.9	7.4	1.8	0.8	0.1	1.2
0.6	2.1	1.2	5.0	6.1	5.4	6.1	6.7	1.0	0.5	0.1	1.3
1.4	0.0	1.0	4.9	6.8	5.5	6.7	6.4	2.4	0.5	0.7	1.4
1.4	1.5	2.7	4.9	7.9	4.3	6.5	6.3	4.1	0.3	0.6	1.4
1.8	2.4	2.1	5.3	8.0	5.6	6.2	6.6	3.7	1.8	0.7	1.5
1.7	2.7	3.1	5.9	7.2	5.5	6.6	6.9	1.9	2.8	0.5	1.2
0.5	-77.0	0.8	5.5	6.0	5.9	7.3	7.4	0.5	3.4	1.2	0.1
1.4	-77.0	2.8	5.6	6.5	6.4	6.8	7.6	1.0	1.7	1.1	-0.1
1.9	-77.0	2.4	-77.0	7.3	-77.0	7.0	7.7	-77.0	1.1	-77.0	0.3
Jan_2007	Fev_2007	Mar_2007	Abr_2007	Mai_2007	Jun_2007	Jul_2007	Ago_2007	Set_2007	Out_2007	Nov_2007	Dez_2007
0.6	1.3	1.9	2.8	1.8	5.4	4.8	5.5	6.3	1.5	2.8	0.4
1.0	1.3	1.1	0.8	0.9	6.0	5.9	7.0	6.2	0.2	2.9	1.0
0.9	0.0	1.2	1.3	3.1	5.7	5.0	8.3	5.8	0.4	2.8	1.1
1.0	0.7	0.5	2.7	3.4	7.0	6.5	7.1	6.9	1.8	2.8	1.3
1.1	1.0	2.1	2.9	5.0	6.9	8.4	5.5	7.4	2.3	2.6	1.0
1.0	1.3	0.4	3.0	5.8	6.9	8.2	4.4	6.5	2.6	3.3	0.9
0.3	0.2	2.4	2.6	5.7	6.0	7.3	5.4	5.3	2.6	3.0	1.1
0.3	0.8	3.2	2.2	6.1	2.9	7.2	7.1	4.4	3.4	2.5	1.2
0.1	1.8	3.3	1.9	6.2	4.7	7.3	7.3	2.2	3.9	2.9	1.0
0.2	1.2	4.2	1.8	5.7	3.0	7.7	7.1	3.6	3.8	3.0	1.4
1.0	0.1	4.7	1.4	4.4	4.9	7.4	4.9	5.2	3.8	1.9	1.5
1.1	1.8	2.7	2.3	3.9	5.2	7.8	5.1	3.4	3.4	2.1	1.2
1.2	0.1	3.5	2.7	3.7	3.1	7.6	4.5	3.2	3.3	2.8	1.5
0.9	2.2	3.8	4.1	3.9	3.0	6.7	5.2	3.7	2.9	2.6	1.7
0.3	0.9	3.7	4.4	5.2	4.5	3.0	3.1	3.8	2.8	2.4	1.3
0.0	0.6	3.9	4.8	6.0	0.8	1.8	5.7	2.2	2.6	1.7	1.4
0.2	1.3	3.6	4.8	6.9	3.1	5.3	6.8	2.1	2.8	1.6	0.9
0.8	2.1	3.8	5.2	6.7	2.7	6.0	7.1	2.7	3.4	2.1	0.0
1.3	0.2	2.7	3.4	5.6	1.3	5.6	6.8	4.2	3.2	0.1	0.3
1.1	1.5	3.3	1.5	2.9	3.6	5.8	7.1	3.9	3.2	0.1	0.4
1.5	1.8	3.5	4.5	2.2	4.7	5.9	6.7	2.4	3.4	0.6	1.0
1.0	1.2	3.2	5.0	1.6	5.6	5.8	6.7	3.8	3.1	1.1	1.0
1.1	0.7	3.3	5.1	2.0	6.3	4.5	6.3	4.2	2.2	1.4	1.1
1.5	1.2	3.2	3.5	3.1	5.5	6.1	6.8	4.8	0.9	2.0	1.1
1.4	1.5	2.6	2.1	3.8	4.6	6.7	3.5	4.3	2.4	2.2	0.4
2.0	2.4	1.3	2.5	3.0	6.2	7.0	3.8	5.1	2.5	2.3	1.2
2.1	2.3	2.9	2.6	2.6	6.3	7.1	5.4	4.5	2.6	1.9	1.3
1.1	0.5	2.6	3.3	4.7	6.4	7.9	5.2	4.7	2.6	1.3	0.9
0.3	-77.0	3.5	3.9	5.1	6.1	8.5	3.5	1.1	2.6	1.3	0.8
0.2	-77.0	2.2	2.4	3.2	6.3	8.2	5.7	0.1	3.2	1.4	0.7
1.0	-77.0	1.4	-77.0	3.4	-77.0	7.1	6.7	-77.0	3.3	-77.0	0.9
Jan_2008	Fev_2008	Mar_2008	Abr_2008	Mai_2008	Jun_2008	Jul_2008	Ago_2008	Set_2008	Out_2008	Nov_2008	Dez_2008

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

## ANEXO 8 – Necessidades Hídricas das Culturas

### ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.1	0.5	2.6	4.2	4.5	4.0	6.9	6.0	4.9	3.7	0.6	0.8
0.3	0.4	2.7	4.9	4.8	4.3	5.2	7.1	4.4	3.5	1.9	1.4
0.0	0.1	1.9	5.4	4.6	4.9	6.1	7.4	3.8	4.2	1.3	0.2
0.7	0.5	3.9	5.6	4.4	5.0	5.9	7.2	2.6	3.9	0.5	0.3
-0.1	0.4	3.4	4.9	3.9	5.1	6.0	6.8	1.5	3.9	1.6	0.6
0.1	1.7	3.8	4.6	3.4	5.8	5.7	5.7	3.2	3.8	1.2	0.0
0.7	2.2	3.7	0.9	2.3	6.4	6.1	5.8	4.1	0.8	0.5	0.1
0.3	2.5	3.0	0.5	3.5	6.3	6.1	6.3	4.6	2.6	1.6	0.8
0.0	2.6	2.4	0.8	3.2	5.2	6.4	6.9	3.8	4.2	1.7	1.2
0.3	2.5	0.3	1.0	2.6	5.5	6.6	6.7	4.7	5.1	1.6	1.5
0.7	2.4	1.5	3.0	2.2	5.8	5.2	4.3	4.4	1.7	0.9	0.8
1.0	2.2	2.7	2.8	3.3	7.2	6.2	5.4	5.0	0.3	1.9	0.4
-0.1	2.0	3.0	2.0	2.8	7.1	6.4	6.2	5.2	1.8	2.0	0.4
0.5	1.9	2.6	3.6	2.5	7.2	7.2	5.2	5.6	2.7	2.5	0.8
0.0	1.9	2.6	3.7	1.2	5.5	7.3	4.9	5.3	2.9	2.0	1.4
0.9	1.5	2.6	3.4	3.5	2.6	6.7	2.8	3.6	2.7	2.0	1.3
0.0	0.6	1.7	1.3	4.5	5.0	6.4	5.2	3.1	1.8	2.3	1.1
1.1	0.0	1.4	1.8	2.7	6.3	7.0	5.6	3.1	1.9	2.0	1.2
1.5	0.4	0.6	1.0	3.8	6.6	6.9	5.7	4.2	2.3	2.3	1.5
1.6	0.7	3.4	1.0	2.7	7.0	5.3	5.9	3.1	1.3	2.1	1.5
1.5	1.4	3.6	2.5	3.2	7.1	6.3	5.3	2.1	2.1	2.1	1.9
2.1	2.0	1.9	2.1	2.0	7.0	7.2	5.1	1.8	2.4	2.7	2.0
2.1	0.5	3.2	2.8	1.6	6.0	6.4	6.8	2.2	3.2	2.3	1.4
1.5	0.3	3.0	4.5	2.1	6.3	6.0	6.4	2.9	3.1	1.3	1.2
1.3	1.8	2.9	5.6	2.4	7.2	3.9	5.5	5.0	3.5	1.7	1.3
1.4	2.0	2.4	5.6	1.5	7.2	5.7	5.4	4.2	3.4	2.3	1.3
1.6	0.6	2.2	5.7	2.2	7.3	6.4	5.2	4.2	2.9	1.8	0.1
1.9	1.8	3.0	3.6	3.2	8.6	6.4	5.5	3.3	2.2	0.4	0.1
2.0	2.4	3.5	2.7	2.7	7.6	6.2	4.7	3.6	2.3	0.2	-0.1
1.9	-77.0	2.3	3.4	2.8	7.8	6.4	2.9	4.1	0.7	0.5	0.9
1.7	-77.0	3.1	-77.0	3.7	-77.0	5.2	4.8	-77.0	0.4	-77.0	0.0
Jan_2009	Fev_2009	Mar_2009	Abr_2009	Mai_2009	Jun_2009	Jul_2009	Ago_2009	Set_2009	Out_2009	Nov_2009	Dez_2009
0.0	0.0	0.7	3.9	5.4	8.4	5.9	3.4	4.8	3.0	1.6	0.0
-0.1	1.0	1.2	4.0	6.3	7.4	6.3	5.3	5.2	4.9	2.2	0.5
0.5	0.2	2.4	3.9	6.6	5.0	6.0	6.4	5.3	4.0	1.9	1.0
1.1	0.5	1.4	4.3	6.8	4.5	6.2	6.1	5.8	3.2	2.1	1.0
0.2	0.4	2.3	4.0	7.1	2.2	5.0	5.9	6.1	1.9	1.3	0.0
1.3	0.9	1.4	2.7	6.9	2.0	5.9	5.9	6.1	1.2	0.7	0.0
1.1	1.3	3.2	3.4	6.2	3.1	6.3	6.0	5.7	2.1	1.6	0.8
1.3	0.6	3.3	3.9	3.9	3.3	6.4	4.9	5.2	2.3	0.8	0.6
1.0	0.2	3.8	3.1	3.0	3.5	6.7	5.6	4.8	2.6	1.8	0.4
0.9	1.6	3.6	2.7	2.0	3.6	6.5	7.0	4.7	3.7	1.7	0.1
1.4	2.0	3.6	3.0	1.6	6.4	6.3	7.1	4.3	4.0	1.2	0.9
1.2	2.3	4.7	3.7	2.1	7.7	6.8	7.1	2.8	5.0	1.0	0.9

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.1	2.3	4.0	2.1	2.5	7.2	6.1	4.4	3.7	4.7	0.9	1.7
0.4	2.0	3.7	1.6	4.5	2.0	5.8	6.3	4.2	3.7	0.8	1.6
-0.1	2.5	4.5	1.3	5.0	5.3	6.4	5.5	5.8	4.4	0.4	1.3
0.8	2.2	4.5	1.6	4.5	2.6	6.9	6.7	4.6	5.3	0.4	0.1
1.2	2.5	5.3	1.2	4.4	6.6	6.3	7.2	3.0	3.9	1.3	0.9
0.1	2.8	4.9	0.9	4.9	5.9	7.8	7.3	1.3	3.2	0.8	0.3
0.8	2.0	4.2	3.3	5.3	8.0	8.1	7.1	3.6	3.1	0.7	1.5
0.5	2.3	4.8	4.2	5.6	8.1	6.1	6.3	4.1	0.7	0.6	1.4
0.7	2.1	4.3	5.0	5.9	8.8	7.0	6.1	4.4	0.3	0.3	0.1
0.2	3.0	4.1	6.3	4.7	7.3	2.5	7.1	4.7	2.2	1.1	0.1
0.4	2.6	3.3	6.0	2.5	5.9	4.4	6.8	4.9	1.4	1.3	0.4
1.5	2.8	4.4	5.3	1.9	5.6	6.0	4.8	4.7	1.3	1.4	0.5
0.6	2.8	4.8	3.1	2.4	3.3	6.9	5.5	4.4	1.8	0.0	0.2
1.0	2.8	4.3	3.4	5.7	5.7	7.2	5.4	4.4	2.4	0.2	0.8
0.2	2.9	3.3	3.3	7.4	5.8	7.0	5.7	4.1	2.3	0.6	0.2
0.2	1.3	4.0	3.4	8.9	1.2	6.9	5.7	4.3	2.9	0.1	0.0
0.2	-77.0	3.4	1.9	8.7	3.3	7.1	6.9	3.2	1.6	0.5	0.1
0.2	-77.0	3.9	1.6	8.1	5.6	6.9	6.8	1.7	1.6	1.2	0.3
1.1	-77.0	3.5	-77.0	8.8	-77.0	6.8	6.3	-77.0	2.2	-77.0	0.3
Jan_2010	Fev_2010	Mar_2010	Abr_2010	Mai_2010	Jun_2010	Jul_2010	Ago_2010	Set_2010	Out_2010	Nov_2010	Dez_2010
0.5	1.7	1.4	2.7	4.4	6.8	7.6	6.2	4.7	3.9	2.3	0.6
0.0	2.0	1.1	1.9	4.5	4.3	5.8	6.2	5.5	3.4	2.5	1.1
-0.1	0.9	0.6	1.6	4.9	6.5	5.9	8.6	5.8	0.3	2.3	1.0
0.0	0.0	1.6	3.7	5.1	6.5	8.3	8.6	5.7	2.4	2.8	0.7
0.5	1.0	0.0	4.6	5.1	5.6	8.7	8.1	5.6	3.0	2.5	0.0
0.5	1.2	0.1	3.0	4.8	5.8	8.3	8.6	4.7	1.2	2.2	0.4
1.1	0.5	0.3	4.3	2.6	6.1	5.6	8.1	2.0	1.9	1.5	0.3
1.6	1.1	0.3	4.8	0.3	1.9	6.8	4.2	4.0	0.2	0.7	0.2
1.4	1.2	2.7	5.1	2.6	2.4	6.5	6.0	5.0	1.5	1.6	0.1
0.2	0.1	2.7	5.2	3.2	2.7	7.9	7.6	6.1	1.4	1.6	1.1
0.2	1.8	2.5	5.2	2.4	2.7	8.2	8.5	6.3	2.8	1.0	0.9
0.0	1.1	2.3	4.3	2.8	3.6	6.9	6.9	6.3	2.6	0.6	0.1
0.0	1.9	2.8	1.9	2.9	4.6	6.2	7.5	5.6	3.1	0.5	0.9
0.9	1.2	3.0	0.2	2.3	5.7	6.0	7.6	5.4	2.4	1.0	1.6
0.0	0.1	3.0	2.1	4.6	7.0	6.5	7.5	2.8	2.6	1.2	2.3
-0.1	0.1	3.0	1.4	5.1	5.5	6.8	6.2	3.3	2.9	1.1	1.5
0.2	0.5	2.9	1.5	6.2	5.7	7.1	3.3	2.7	3.5	1.3	1.0
-0.1	0.3	1.9	1.3	6.6	4.5	8.2	5.2	3.6	3.4	0.7	0.6
0.4	2.0	0.9	1.6	7.1	5.5	7.1	5.6	4.8	3.6	0.0	1.0
1.0	1.4	0.8	4.0	7.0	6.1	7.7	6.3	3.3	3.1	1.3	0.1
0.3	0.5	2.1	2.5	7.7	7.9	6.2	7.4	3.1	3.1	1.1	0.0
0.4	0.6	2.9	2.5	6.7	7.6	6.3	6.3	3.7	1.6	1.1	-0.1
0.7	0.6	2.3	3.7	6.2	7.3	7.6	4.5	1.9	2.5	0.1	1.3
1.3	0.9	0.7	3.5	4.0	6.2	8.9	5.7	3.7	2.5	0.6	1.0

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

1.9	0.8	1.2	4.8	1.4	4.3	9.3	6.6	4.3	2.6	0.7	0.6
1.7	0.9	1.5	5.2	3.7	4.5	9.4	6.9	4.8	3.3	1.4	1.2
2.3	0.4	2.6	5.0	4.0	6.1	9.0	6.0	4.4	2.7	1.4	0.5
2.0	0.4	3.4	5.5	5.0	6.0	8.0	6.9	3.8	2.1	1.5	0.3
1.9	-77.0	0.9	4.1	5.5	7.4	8.2	7.8	3.8	0.1	0.1	0.3
1.5	-77.0	1.6	3.2	6.2	7.3	8.1	7.8	3.6	0.2	0.3	-0.1
0.9	-77.0	1.5	-77.0	7.1	-77.0	7.3	4.9	-77.0	1.1	-77.0	0.0
Jan_2011	Fev_2011	Mar_2011	Abr_2011	Mai_2011	Jun_2011	Jul_2011	Ago_2011	Set_2011	Out_2011	Nov_2011	Dez_2011
0.0	1.9	2.8	4.7	2.9	6.7	4.9	2.9	0.9	5.0	0.1	0.6
0.9	2.5	2.6	1.7	3.1	6.5	6.7	3.7	2.0	4.8	0.0	1.4
0.1	2.6	2.6	1.7	4.5	5.9	5.3	5.3	3.3	4.5	0.6	1.4
-0.1	2.3	1.6	3.7	4.6	6.1	6.0	6.5	3.9	5.1	0.6	0.8
-0.1	2.1	0.3	5.2	4.7	3.3	6.5	5.4	5.0	5.2	1.6	1.0
0.3	2.0	1.7	5.9	3.3	3.2	6.2	3.1	5.9	5.5	2.0	1.0
0.4	2.0	2.4	5.2	3.1	4.3	5.9	6.3	6.0	4.9	2.0	1.0
0.0	0.9	0.4	5.8	3.5	5.0	5.6	7.3	5.6	4.9	0.3	0.4
0.7	0.6	0.7	4.2	5.3	3.0	5.5	8.5	5.7	4.6	-0.1	0.4
0.0	1.5	2.0	5.0	6.0	5.1	5.9	8.2	3.3	4.6	0.0	-0.1
0.8	1.3	0.6	5.5	5.8	5.9	5.3	7.2	4.0	4.9	0.5	0.2
0.9	1.3	1.1	5.2	5.8	6.3	5.9	4.5	5.2	4.5	1.0	0.7
0.7	0.2	0.2	5.4	5.9	5.9	6.8	5.9	5.7	4.5	1.6	0.1
0.7	0.3	0.0	5.7	5.6	5.9	6.6	5.6	5.7	4.7	0.3	0.5
0.8	0.5	2.4	5.5	6.7	6.1	7.1	5.8	4.5	4.2	0.6	0.7
0.2	0.2	2.4	5.3	5.2	5.7	7.0	4.9	3.6	3.0	0.7	0.3
0.2	1.4	2.7	4.8	2.8	5.5	6.1	5.2	4.0	3.2	1.4	1.1
0.3	0.5	3.3	3.6	1.8	5.8	5.9	5.4	4.8	3.3	1.0	1.2
0.6	-0.1	4.1	0.6	3.5	6.7	6.4	6.3	5.8	3.1	-0.1	1.0
1.3	1.0	4.6	0.7	5.3	6.8	7.4	6.1	5.7	4.0	0.6	0.9
2.0	1.2	4.0	0.6	5.3	7.0	7.1	2.0	4.9	3.6	1.0	1.1
2.1	2.3	3.4	1.5	5.8	6.6	6.9	3.1	4.2	2.5	0.3	1.2
2.1	2.5	2.7	2.6	5.4	6.7	6.5	4.0	3.3	1.0	1.6	1.0
2.4	2.8	1.7	4.3	6.4	7.8	7.8	5.3	3.8	1.9	1.7	2.1
1.9	3.2	1.0	5.1	5.9	8.0	7.2	4.6	4.1	1.2	2.0	1.8
1.7	2.8	0.6	5.1	3.4	6.5	7.1	5.3	4.6	0.0	1.6	1.3
0.2	3.2	1.2	5.3	3.8	6.9	8.3	6.1	4.3	1.4	1.4	1.1
0.3	3.0	0.7	4.3	3.3	5.9	7.9	6.1	3.6	2.6	1.3	1.2
0.9	-77.0	2.6	1.7	3.8	6.5	7.0	5.4	5.0	2.3	1.1	1.8
1.1	-77.0	3.0	1.1	2.4	7.8	6.4	4.2	4.4	2.5	0.6	1.4
1.5	-77.0	4.0	-77.0	4.7	-77.0	5.9	2.6	-77.0	1.4	-77.0	1.3
Jan_2012	Fev_2012	Mar_2012	Abr_2012	Mai_2012	Jun_2012	Jul_2012	Ago_2012	Set_2012	Out_2012	Nov_2012	Dez_2012
0.6	0.8	2.2	1.8	1.5	6.1	6.5	6.4	7.2	3.6	1.3	1.4
1.0	2.0	1.6	2.0	0.3	2.2	7.2	6.2	7.9	3.3	0.7	1.6
0.9	2.1	1.2	1.5	1.0	5.2	6.8	7.1	7.5	3.3	0.1	1.2
1.3	2.2	1.4	1.6	2.3	6.4	5.8	6.8	6.5	3.5	0.6	0.7

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

1.3	2.3	3.1	2.7	2.4	5.5	6.0	5.3	6.4	4.1	1.0	0.5
1.8	2.0	2.9	1.6	2.6	3.6	5.9	5.8	6.7	2.3	2.1	-0.1
1.5	2.1	3.3	2.5	0.4	4.3	4.8	7.0	4.8	3.4	0.8	0.1
1.5	2.3	3.8	4.1	3.5	4.7	6.2	7.1	4.3	3.3	-0.1	1.1
1.5	1.8	5.2	4.6	5.2	4.5	5.8	6.7	3.9	2.6	0.7	0.9
1.4	2.8	4.7	1.6	6.1	4.0	5.6	6.7	4.5	2.3	0.6	0.6
1.2	2.9	4.2	1.5	3.6	4.2	6.1	7.1	4.7	1.5	1.9	0.9
1.1	2.9	4.0	2.4	4.6	4.5	7.0	5.7	5.7	2.9	2.3	0.5
0.5	2.8	4.0	1.8	5.5	6.3	6.7	5.5	6.2	3.2	1.8	0.1
0.7	2.2	3.6	2.0	6.7	5.6	6.5	4.0	6.7	1.7	1.8	0.1
0.1	2.6	1.8	3.5	6.3	5.5	7.5	3.3	6.4	3.0	1.4	0.3
1.1	2.8	2.3	4.5	6.7	4.1	8.6	5.5	5.2	1.9	0.2	0.2
1.6	2.5	1.0	3.5	4.5	5.2	8.7	6.4	4.0	0.2	0.1	0.0
1.3	2.4	2.4	1.3	4.8	3.6	9.1	6.0	4.6	0.1	1.6	0.0
1.5	2.5	3.7	1.3	3.0	5.4	9.0	5.5	4.6	0.9	1.3	0.1
1.4	3.0	4.0	1.7	2.3	4.6	7.8	6.3	4.2	2.0	0.2	0.8
1.9	2.9	3.6	1.5	3.6	5.7	7.3	6.6	2.9	0.7	1.3	0.2
1.7	3.5	3.6	3.0	5.0	6.5	7.4	6.3	4.4	0.3	1.2	0.1
1.5	3.4	3.8	1.6	6.1	6.9	7.6	5.2	1.7	2.3	0.3	1.0
1.6	3.4	2.0	3.5	6.3	7.9	6.0	4.9	2.5	0.6	0.0	0.9
1.3	3.5	4.6	0.5	5.0	7.9	6.3	5.4	1.1	0.4	0.1	1.1
0.7	3.0	5.3	1.0	4.5	6.5	5.9	5.6	2.8	0.6	1.1	1.1
1.5	2.8	5.4	1.0	4.7	7.7	4.9	4.5	2.2	2.1	1.4	0.9
1.9	2.5	5.8	2.3	6.0	6.1	4.8	4.5	0.1	2.9	1.4	0.9
2.1	3.0	5.6	1.4	5.4	5.2	6.5	5.4	3.4	1.9	1.5	0.4
1.8	-77.0	3.1	3.0	6.0	4.6	6.7	6.2	3.9	1.4	0.7	0.7
1.7	-77.0	1.6	-77.0	7.0	-77.0	6.2	7.1	-77.0	1.7	-77.0	-0.1
Jan_2013	Fev_2013	Mar_2013	Abr_2013	Mai_2013	Jun_2013	Jul_2013	Ago_2013	Set_2013	Out_2013	Nov_2013	Dez_2013
0.7	1.2	2.3	2.8	3.2	6.6	7.0	6.9	6.7	0.2	1.4	2.1
1.2	2.1	1.8	2.5	4.4	6.8	6.7	6.2	6.5	1.0	0.8	1.6
1.8	1.8	0.6	1.1	4.9	6.7	7.2	6.1	6.3	2.4	2.0	1.6
1.6	2.0	0.8	1.4	5.3	6.5	8.1	6.8	5.4	2.5	0.6	1.6
1.3	1.9	0.8	3.0	5.2	6.7	8.1	6.0	4.8	2.7	1.4	1.4
1.0	2.0	1.1	3.5	2.9	3.4	7.4	5.8	4.2	3.9	1.1	1.3
0.2	1.9	1.4	2.5	2.8	2.3	8.1	5.9	4.5	3.6	0.8	1.2
0.6	2.1	0.4	2.2	2.8	2.5	8.0	6.8	4.8	3.6	1.4	1.1
0.0	2.0	1.6	1.3	2.3	2.6	8.0	7.4	5.4	4.3	1.5	1.2
0.0	0.6	0.9	1.2	5.0	2.4	8.5	7.8	5.3	3.9	1.4	1.2
0.0	1.5	1.2	1.6	5.6	4.5	6.4	7.9	5.9	3.5	2.3	1.2
0.6	1.6	1.8	2.4	5.9	5.9	4.4	7.0	6.2	1.2	2.6	0.6
0.9	2.0	2.6	3.9	6.1	6.4	3.4	6.6	5.9	1.8	2.4	0.1
1.4	1.9	2.8	4.3	5.5	6.7	5.2	7.2	5.5	1.4	3.0	1.2
1.4	1.9	2.8	3.8	3.7	7.1	5.7	7.0	4.9	1.2	2.0	1.2
0.3	1.1	1.1	4.3	2.5	6.1	5.8	6.1	5.1	2.4	1.4	1.0



Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.4	0.0	0.8	4.8	2.3	4.5	6.5	6.7	4.7	1.8	1.2	0.0
0.3	0.5	2.2	4.8	3.0	3.7	6.4	6.3	4.9	1.0	1.3	0.3
1.0	0.2	0.3	5.2	2.5	5.0	6.2	6.8	5.1	1.9	1.5	0.7
0.2	0.6	2.7	4.9	3.3	6.0	6.6	7.5	5.6	1.1	1.8	1.4
1.1	0.6	2.4	4.8	4.4	5.7	6.1	7.5	5.4	0.9	0.9	1.0
0.6	0.4	2.2	5.1	5.3	7.0	5.9	6.6	5.0	0.8	0.5	0.7
0.4	1.8	0.9	4.9	5.4	7.8	6.3	6.1	4.9	0.9	1.4	0.0
1.1	2.1	2.1	4.9	5.7	8.4	6.7	6.6	3.3	0.1	2.2	0.0
0.2	2.3	0.6	5.0	6.2	8.4	5.7	7.0	2.8	0.2	2.3	0.3
1.3	2.2	0.6	4.3	4.8	7.9	5.2	6.0	2.8	1.4	2.1	0.4
0.1	0.8	1.5	4.6	4.9	7.8	5.0	6.2	0.4	2.1	1.8	0.0
1.2	1.7	1.3	3.9	5.4	7.8	3.7	5.6	1.1	0.6	1.5	1.0
1.3	-77.0	0.8	1.9	3.3	8.0	5.7	6.0	0.4	2.2	1.7	0.8
1.2	-77.0	3.2	2.4	5.5	7.9	6.8	5.9	0.0	2.5	1.5	0.5
1.6	-77.0	0.1	-77.0	6.2	-77.0	7.3	6.6	-77.0	2.3	-77.0	-0.1
Jan_2014	Fev_2014	Mar_2014	Abr_2014	Mai_2014	Jun_2014	Jul_2014	Ago_2014	Set_2014	Out_2014	Nov_2014	Dez_2014
-0.1	1.2	0.4	0.1	5.3	6.5	4.8	4.9	5.4	3.9	1.0	1.7
0.0	3.9	0.9	1.3	6.3	6.0	3.7	3.8	5.8	3.8	0.9	1.3
0.0	3.5	2.5	2.0	6.4	6.4	4.6	4.2	4.4	3.2	0.3	0.9
0.4	0.0	1.8	0.4	6.1	5.6	5.7	5.7	4.7	3.1	1.4	1.1
0.0	0.8	3.1	2.0	5.9	5.3	6.2	6.7	4.8	2.6	1.8	1.0
0.0	0.2	3.0	2.5	5.3	2.1	2.7	6.6	1.5	2.5	0.6	1.5
-0.1	0.4	3.1	3.9	4.7	4.1	6.1	6.4	3.1	0.7	1.0	1.3
0.8	0.9	3.5	4.4	5.6	4.1	6.6	5.7	3.3	0.8	0.3	1.2
1.3	0.2	2.7	2.8	6.0	4.0	8.2	5.6	3.8	1.4	1.3	0.8
0.8	1.4	3.9	4.6	6.1	4.5	8.3	5.5	1.6	2.1	0.0	1.2
1.0	0.0	3.9	3.8	5.9	6.7	8.5	6.0	1.7	1.0	0.7	1.0
0.0	0.0	3.5	3.2	6.3	7.1	7.7	6.6	3.0	0.0	0.9	0.3
0.8	1.1	2.7	4.2	6.7	7.5	7.2	6.1	4.0	0.2	-0.1	0.0
0.4	0.3	3.0	2.5	7.1	7.9	7.0	6.3	3.1	1.2	0.5	0.4
0.1	1.2	3.4	4.4	7.1	8.5	7.2	6.6	1.8	0.3	0.5	1.1
0.7	1.7	3.9	3.7	6.7	8.0	7.5	7.1	0.8	1.3	0.7	1.2
0.1	1.2	3.6	4.5	7.1	7.2	6.6	7.1	1.6	1.1	0.6	0.7
0.7	1.4	3.3	3.1	6.4	4.5	4.3	6.7	2.6	1.2	0.4	0.9
1.5	2.1	3.4	1.0	3.1	5.4	3.3	5.2	2.7	2.7	-0.1	0.6
0.9	0.6	2.1	1.6	1.6	5.4	4.8	6.3	2.4	2.9	0.3	0.8
0.0	1.5	1.3	3.6	1.7	3.6	6.4	6.1	2.2	2.6	1.0	0.9
1.4	0.7	2.6	2.7	2.7	3.9	7.4	6.2	0.9	2.9	0.4	0.9
1.6	1.9	2.9	2.1	4.0	2.3	6.5	5.7	1.4	2.9	0.3	0.7
1.4	1.3	1.3	2.6	4.7	2.6	5.8	6.1	2.6	2.4	0.7	0.8
1.4	1.6	2.4	3.3	4.8	4.9	5.2	6.2	4.0	2.9	0.3	1.2
0.9	2.2	3.2	1.7	4.9	6.1	5.8	5.4	4.1	2.6	0.2	1.1
1.4	0.6	1.2	4.5	4.4	6.2	6.6	5.6	1.1	2.1	0.3	0.7
0.5	1.8	0.9	4.6	3.8	4.3	6.2	5.7	1.9	1.3	0.5	0.9

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

1.5	-77.0	1.7	4.7	3.5	6.1	7.3	5.7	3.1	2.3	1.0	1.9
1.4	-77.0	0.9	4.8	5.3	6.3	7.3	5.1	3.3	2.5	0.3	1.5
1.6	-77.0	0.5	-77.0	6.2	-77.0	5.7	5.2	-77.0	1.8	-77.0	1.4
Jan_2015	Fev_2015	Mar_2015	Abr_2015	Mai_2015	Jun_2015	Jul_2015	Ago_2015	Set_2015	Out_2015	Nov_2015	Dez_2015
1.5	1.2	1.9	5.6	1.8	6.1	3.9	6.0	4.4	3.9	2.1	1.2
1.1	0.4	2.2	5.3	3.7	6.3	6.3	7.1	4.7	4.2	0.1	1.1
1.2	0.9	1.9	3.7	0.6	6.6	7.2	6.3	4.2	2.9	0.7	1.2
1.1	2.0	3.4	5.1	1.0	6.8	7.1	6.3	4.4	0.6	0.2	1.0
1.0	2.0	3.9	4.7	3.1	6.3	6.3	6.6	4.1	0.9	0.0	1.4
0.7	1.2	3.7	1.5	4.3	7.3	7.5	6.8	4.9	2.0	1.2	1.1
0.8	1.5	3.9	4.2	5.8	5.8	7.8	6.4	4.9	2.9	2.0	0.2
0.9	1.7	4.2	2.0	3.3	5.6	7.2	6.9	5.0	3.2	2.1	0.5
1.6	2.1	4.2	0.4	4.8	4.3	7.5	7.7	4.2	2.9	2.1	0.8
1.4	1.5	3.9	1.5	6.1	5.9	6.4	7.4	4.3	0.5	2.0	0.9
1.4	0.9	3.3	3.9	6.1	1.9	6.9	5.9	4.3	0.4	1.8	0.8
1.3	1.6	2.7	4.4	5.8	3.9	6.6	4.1	4.0	0.3	1.7	0.8
0.9	0.9	3.6	5.1	5.5	2.9	6.9	5.1	1.6	2.0	1.7	0.0
0.5	0.4	3.8	3.7	6.1	1.8	7.3	5.1	3.9	3.0	1.9	0.0
0.0	1.0	3.3	1.6	6.1	3.3	7.5	5.3	0.5	2.8	1.6	1.0
0.4	1.7	3.3	1.7	7.6	5.8	7.3	4.6	2.6	2.1	1.4	1.0
0.6	3.2	0.4	3.2	7.6	7.7	5.0	5.5	3.3	1.0	1.4	0.9
0.1	2.7	0.5	2.4	6.9	7.9	6.4	5.7	4.3	0.4	1.4	0.8
1.8	2.5	2.7	3.9	6.1	8.2	6.9	6.4	5.2	1.8	1.2	1.2
0.4	1.0	2.5	4.2	5.9	8.9	6.6	6.2	5.0	2.2	1.4	0.4
0.5	2.3	1.9	4.1	6.6	8.0	6.5	6.5	5.5	3.1	2.1	0.5
1.0	2.1	1.4	3.3	7.1	6.2	7.5	5.4	4.5	2.9	0.8	0.5
0.8	1.1	2.3	4.6	6.9	5.7	8.0	2.9	4.5	1.0	1.9	0.4
1.9	1.6	2.1	0.8	7.1	5.9	5.9	4.2	5.0	0.2	1.4	-0.1
2.2	2.1	2.5	1.3	6.3	6.9	6.9	5.4	4.5	1.7	1.6	0.6
2.4	2.0	1.6	1.9	7.8	8.1	7.6	5.2	4.2	1.0	2.1	0.8
2.1	2.7	3.7	2.8	7.8	8.6	7.1	4.8	4.8	0.8	1.6	1.2
1.9	1.9	4.4	3.5	6.8	8.5	7.7	5.6	4.8	1.0	1.5	0.1
0.8	-77.0	4.1	3.8	7.3	8.6	7.1	5.9	3.4	0.7	1.5	0.3
0.2	-77.0	4.8	4.5	7.0	7.4	5.8	5.7	3.6	0.9	1.5	0.0
1.6	-77.0	5.1	-77.0	6.5	-77.0	5.1	2.5	-77.0	0.7	-77.0	0.1
Jan_2016	Fev_2016	Mar_2016	Abr_2016	Mai_2016	Jun_2016	Jul_2016	Ago_2016	Set_2016	Out_2016	Nov_2016	Dez_2016
0.0	1.5	3.1	3.7	5.5	6.2	6.1	6.5	5.8	3.6	2.5	0.2
0.7	1.2	2.6	2.2	6.0	5.6	6.9	7.3	6.1	3.5	1.6	0.3
0.0	2.0	2.6	1.2	6.4	5.6	8.0	7.4	6.2	3.9	1.5	0.0
0.2	2.2	1.1	0.9	4.4	5.4	6.6	6.4	6.0	3.9	0.1	0.7
0.5	1.9	1.7	3.6	0.3	5.2	6.4	7.2	6.6	3.9	0.6	1.4
0.1	0.6	2.2	4.3	0.4	5.6	4.7	8.7	7.4	4.2	1.9	1.3
0.1	1.5	2.6	4.6	0.3	6.3	2.3	8.9	6.4	3.5	1.8	0.7
0.0	0.4	2.7	3.7	1.1	6.9	7.0	8.4	5.1	3.8	1.6	0.9

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.1	0.3	0.9	2.7	1.2	6.4	8.0	7.5	5.1	2.9	1.0	1.3
0.3	0.3	2.7	1.5	1.2	4.8	7.9	7.8	5.2	2.9	1.6	0.7
1.0	1.2	3.0	1.7	0.6	5.9	7.1	7.5	5.1	2.3	1.1	1.0
0.7	0.1	3.2	1.8	1.4	6.3	6.7	7.2	4.9	0.3	1.0	0.9
1.0	0.3	3.4	2.1	1.9	5.7	7.8	7.0	3.6	1.3	1.7	0.1
0.8	1.0	3.1	0.7	3.2	4.7	8.2	7.1	3.2	2.9	2.4	0.5
1.4	2.3	0.2	0.5	3.7	3.3	8.6	6.0	2.3	1.4	2.2	0.4
1.5	2.3	2.4	2.2	4.8	3.5	8.0	5.9	4.2	1.4	1.9	0.5
0.5	0.9	2.6	2.1	5.0	4.7	7.7	5.5	4.8	1.5	1.7	1.2
0.8	1.8	0.2	3.1	5.2	6.2	7.6	6.1	5.1	1.7	0.4	1.7
0.3	2.4	0.9	0.5	5.6	6.9	6.8	4.9	5.2	1.8	1.3	1.4
0.2	2.8	1.2	1.4	6.0	7.1	6.9	6.0	4.8	1.5	-0.1	1.1
0.0	2.3	0.9	1.4	4.2	7.3	6.9	6.7	3.8	0.7	0.8	0.8
0.1	2.3	1.6	2.8	5.2	7.6	6.6	7.0	3.1	0.4	0.8	1.0
0.4	2.0	2.3	3.0	4.2	5.8	8.0	6.6	4.0	1.2	1.3	0.9
1.0	0.3	3.8	3.6	2.2	6.2	8.1	6.4	4.3	1.0	0.7	1.0
-0.1	1.0	2.3	5.0	2.9	6.0	8.4	5.2	3.6	0.9	0.1	1.1
0.6	0.3	0.3	4.8	4.1	7.3	8.1	5.5	4.1	2.6	0.3	1.0
0.3	1.8	2.4	3.2	2.5	7.4	6.7	5.8	5.3	2.2	0.5	1.1
0.5	2.5	0.5	3.6	2.3	7.7	7.4	6.2	5.5	2.6	1.0	1.4
1.1	2.8	2.4	3.8	2.1	7.2	7.1	6.2	4.8	2.6	0.6	1.3
1.2	-77.0	2.2	5.3	3.9	6.8	4.4	6.0	4.1	2.8	1.2	1.2
1.4	-77.0	3.2	-77.0	5.6	-77.0	5.6	5.0	-77.0	2.8	-77.0	1.1
Jan_2017	Fev_2017	Mar_2017	Abr_2017	Mai_2017	Jun_2017	Jul_2017	Ago_2017	Set_2017	Out_2017	Nov_2017	Dez_2017
0.3	0.9	0.9	3.4	4.4	6.5	7.2	6.4	6.4	4.8	1.5	1.5
0.5	0.8	1.8	4.1	5.3	6.5	8.5	6.7	6.7	4.8	0.3	1.5
0.0	0.4	0.3	4.4	5.9	5.6	9.0	7.1	6.6	5.0	0.3	1.7
0.2	0.4	1.2	4.7	4.5	5.7	8.1	7.7	5.1	4.8	1.0	1.6
0.9	2.0	0.6	5.3	2.0	5.8	4.0	7.5	5.1	4.3	2.1	1.5
1.2	1.4	1.4	4.7	2.3	5.8	3.5	7.0	6.0	5.4	2.5	1.3
1.3	1.5	2.8	4.8	4.8	7.4	4.8	6.2	7.3	5.8	2.4	1.3
1.4	2.0	3.4	4.8	5.8	6.2	5.6	6.0	6.6	4.7	2.5	0.6
1.9	1.4	4.0	5.1	3.7	6.4	5.8	6.6	4.3	3.3	2.7	0.9
1.2	0.2	4.1	5.2	1.7	7.0	6.4	7.7	5.0	3.6	2.6	0.2
1.4	0.8	2.9	5.2	1.1	6.7	7.1	7.6	5.4	3.8	2.2	0.5
1.0	0.2	3.2	5.6	2.6	7.4	7.7	7.8	5.1	4.6	2.3	1.2
1.7	1.2	3.9	4.7	2.9	6.4	8.0	6.8	5.4	3.3	2.4	0.4
1.6	0.6	2.6	4.3	2.8	6.8	8.5	6.2	5.0	2.2	2.3	0.1
1.5	1.3	4.0	4.4	4.3	7.1	7.5	6.4	4.9	5.2	2.0	0.6
1.7	2.3	3.5	4.8	5.2	7.9	7.8	6.8	4.8	2.4	1.9	1.5
2.1	2.0	3.9	4.9	4.7	6.3	7.3	7.1	4.2	2.5	2.0	1.4
2.2	1.4	4.1	3.3	5.4	6.5	6.0	7.3	3.9	2.1	2.2	1.4
1.6	2.0	3.9	5.7	5.4	6.1	5.5	7.3	4.2	1.0	2.2	1.9
1.2	2.7	3.2	5.1	6.9	7.5	5.7	8.0	4.6	0.6	2.1	1.6

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

1.4	2.9	2.7	4.6	5.4	6.9	6.3	6.7	3.8	2.4	2.1	1.6
1.4	3.1	1.2	3.7	4.6	6.3	6.5	6.7	4.0	3.0	1.4	1.4
1.9	1.9	1.5	4.8	7.1	6.9	7.1	6.6	4.5	3.4	0.9	1.7
1.8	2.2	1.4	4.5	7.2	5.5	6.9	5.9	4.9	3.6	0.3	0.8
1.5	2.6	1.2	3.8	5.5	3.3	8.0	5.4	4.4	3.6	0.4	0.0
-0.1	0.7	0.0	3.5	4.6	5.7	8.1	5.4	4.5	2.8	1.5	0.0
0.6	0.9	1.1	5.3	2.9	5.2	7.6	4.8	4.2	4.3	1.1	1.0
0.3	1.2	2.3	4.9	2.7	4.3	7.5	2.9	4.3	5.1	-0.1	0.1
0.0	-77.0	3.7	2.6	3.5	4.5	6.8	3.9	4.5	4.2	1.4	0.1
0.5	-77.0	3.1	2.7	5.4	5.7	6.9	4.2	3.7	3.5	1.9	0.5
0.3	-77.0	3.6	-77.0	6.0	-77.0	3.9	4.5	-77.0	2.9	-77.0	0.4
Jan_2018	Fev_2018	Mar_2018	Abr_2018	Mai_2018	Jun_2018	Jul_2018	Ago_2018	Set_2018	Out_2018	Nov_2018	Dez_2018
0.4	2.1	0.5	2.9	3.6	4.2	2.4	7.1	6.5	5.7	1.6	0.8
0.2	2.1	0.2	0.9	2.6	4.7	2.0	7.9	5.4	5.7	1.2	0.6
0.3	1.4	0.0	1.6	3.8	3.3	4.8	7.3	2.7	5.0	1.8	0.2
0.6	1.7	0.8	2.1	5.3	2.0	4.7	7.9	2.8	5.2	0.0	1.2
0.0	1.5	0.9	3.2	5.3	2.1	5.7	7.6	1.9	4.6	0.8	1.2
1.3	2.2	1.5	1.9	5.0	4.5	5.6	7.7	3.9	4.6	0.4	1.4
0.7	2.0	1.3	1.1	3.8	1.4	6.1	6.5	4.1	4.3	1.3	1.2
1.1	2.1	0.3	1.3	4.5	2.3	5.9	6.0	3.8	4.6	0.2	1.2
-0.1	0.5	0.0	0.5	3.5	2.2	6.0	6.1	4.0	4.0	0.5	1.3
0.3	2.0	1.5	1.1	5.2	1.7	5.3	6.7	5.5	2.0	0.1	1.7
1.1	1.2	1.0	2.4	4.9	3.1	5.1	7.2	5.8	1.4	0.1	0.6
0.6	2.3	1.9	0.3	4.5	5.0	5.0	7.0	5.1	1.9	1.0	0.2
0.3	1.1	2.0	2.0	4.7	5.7	5.3	5.8	5.8	3.2	1.6	1.0
0.7	0.5	0.0	3.4	4.6	6.2	5.0	6.0	5.9	2.1	1.7	0.7
1.3	0.4	0.9	0.7	6.3	6.5	3.5	6.8	5.2	0.5	1.2	-0.1
0.5	1.7	1.7	3.5	6.4	6.5	5.9	5.9	4.8	1.7	1.2	0.8
1.5	1.4	0.9	4.2	5.7	7.7	6.4	5.2	4.7	2.4	0.6	0.9
1.8	2.8	2.0	5.0	3.4	7.8	5.4	7.2	4.8	2.0	0.0	-0.1
1.9	2.4	1.8	4.8	5.0	7.1	5.4	7.2	4.5	1.9	0.4	0.2
1.7	3.1	3.1	4.8	2.9	6.1	5.8	6.7	5.2	2.3	0.4	0.2
1.4	3.2	3.6	1.2	3.9	5.2	6.2	5.6	5.1	1.3	0.5	0.3
1.4	2.7	3.4	2.4	4.0	5.0	6.3	5.8	5.3	2.2	0.2	0.3
1.2	2.8	0.6	4.1	4.7	6.0	5.9	6.4	5.9	2.3	0.6	0.4
1.1	2.7	2.5	5.3	0.2	6.0	5.2	7.1	6.3	2.5	0.3	0.5
0.5	2.8	2.7	5.3	2.3	4.3	5.1	6.9	5.4	2.2	0.3	0.8
1.6	2.5	3.5	5.1	2.6	5.0	5.5	6.5	4.9	0.9	1.6	1.0
1.7	0.3	4.2	4.3	4.1	5.5	6.2	4.0	4.4	2.4	1.2	0.1
2.4	0.1	3.7	2.4	3.6	5.0	6.0	4.8	4.0	2.1	1.2	1.1
2.3	-77.0	2.4	2.2	2.7	4.4	5.8	4.7	4.5	2.3	0.0	1.4
2.1	-77.0	1.4	2.8	3.2	2.5	5.9	5.7	4.2	0.8	0.9	1.8
1.8	-77.0	2.9	-77.0	3.8	-77.0	5.9	6.2	-77.0	0.2	-77.0	1.7
Jan_2019	Fev_2019	Mar_2019	Abr_2019	Mai_2019	Jun_2019	Jul_2019	Ago_2019	Set_2019	Out_2019	Nov_2019	Dez_2019

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

1.4	0.5	2.8	1.5	5.0	7.4	6.2	7.0	5.6	3.7	0.4	0.2
1.8	2.0	3.1	3.1	5.6	7.8	5.4	6.3	6.2	3.7	0.8	1.7
1.4	1.9	2.2	3.7	6.0	6.7	5.4	6.4	6.5	4.0	1.5	1.5
1.2	1.8	1.6	2.8	5.8	3.6	4.4	6.3	7.2	3.5	0.4	1.1
1.2	1.8	0.2	1.1	5.4	4.8	5.4	6.3	7.8	3.5	1.3	1.6
1.8	1.9	0.8	1.0	3.8	2.3	5.7	5.2	6.9	4.2	0.7	1.4
2.8	2.1	0.7	0.4	1.1	4.2	4.9	2.5	6.6	4.6	1.6	1.1
1.9	1.3	2.3	1.9	2.6	5.7	5.3	3.1	6.5	4.4	1.8	0.1
2.2	1.1	3.0	2.1	0.6	5.9	6.0	2.9	5.8	4.4	0.4	1.1
2.3	0.1	3.1	2.5	3.6	6.0	7.8	5.2	5.2	4.2	0.8	0.9
2.1	2.0	3.4	3.9	5.9	6.5	8.1	5.5	6.3	3.5	0.7	1.2
1.6	2.6	3.2	4.1	7.7	6.4	3.8	6.4	6.2	3.0	1.6	0.0
1.6	2.3	3.4	2.8	7.8	5.6	4.4	6.8	4.9	1.8	1.5	0.3
1.4	2.5	3.9	1.8	7.0	4.0	6.2	6.9	4.2	1.2	1.1	0.2
1.1	2.1	4.0	2.3	6.8	5.1	6.2	7.1	2.9	1.7	1.8	-0.1
-0.1	2.6	4.3	3.9	4.9	5.9	5.4	7.1	3.3	1.4	1.5	-0.1
1.0	2.0	2.7	0.2	3.7	4.8	4.9	6.7	4.2	0.5	0.1	1.2
0.6	0.1	3.8	1.9	4.1	2.3	6.9	5.0	4.4	1.9	1.5	-0.1
-0.1	1.4	4.2	1.9	5.0	2.9	7.5	4.9	3.8	0.5	0.4	-0.1
1.6	1.7	3.8	4.4	5.4	4.6	7.3	6.4	2.2	2.1	0.0	-0.1
1.5	2.1	3.8	4.4	4.7	6.1	5.9	6.1	0.4	1.8	0.4	0.7
0.8	2.7	4.0	3.3	5.7	6.3	6.5	6.5	2.5	2.7	0.9	0.8
1.0	2.2	4.3	1.3	5.4	3.0	6.6	6.9	3.5	1.9	1.2	0.2
2.1	3.4	4.5	0.8	6.5	1.2	7.1	6.8	1.8	2.1	0.4	1.1
2.3	3.2	5.0	2.2	7.1	4.6	4.8	4.5	3.8	2.7	0.5	1.0
2.2	3.6	5.0	3.3	7.3	3.9	5.7	3.1	4.1	2.8	0.0	1.1
1.9	2.3	5.1	4.8	6.8	5.5	3.3	5.0	4.6	2.0	0.4	1.5
0.7	2.3	4.7	5.2	7.4	6.9	6.1	5.1	4.2	0.1	0.2	1.9
0.5	-77.0	4.5	5.5	7.8	6.7	6.4	5.8	4.2	0.7	0.2	2.0
0.3	-77.0	4.2	5.2	8.0	5.9	6.9	6.3	4.2	0.0	0.0	1.3
0.0	-77.0	3.1	-77.0	7.3	-77.0	6.3	6.1	-77.0	0.3	-77.0	1.0
Jan_2020	Fev_2020	Mar_2020	Abr_2020	Mai_2020	Jun_2020	Jul_2020	Ago_2020	Set_2020	Out_2020	Nov_2020	Dez_2020
1.0	0.3	0.4	0.8	2.5	3.4	6.3	7.0	5.9	2.4	1.1	1.9
0.6	1.6	2.1	2.5	4.5	3.5	6.1	6.7	6.1	2.0	1.0	1.8
0.8	1.6	0.5	3.8	5.6	4.8	6.6	6.9	6.5	2.7	2.4	1.6
1.2	1.9	0.8	2.0	2.8	4.1	7.4	6.8	5.5	2.3	1.2	0.4
1.2	2.5	1.9	0.0	3.4	5.3	8.1	7.3	5.6	2.6	0.1	1.0
1.1	1.6	2.7	0.3	4.6	4.5	8.0	7.1	5.8	3.2	0.1	0.2
1.3	1.0	2.9	1.7	4.4	3.8	7.1	6.3	6.8	3.7	0.7	0.5
1.3	0.5	1.5	1.7	2.9	5.2	6.6	6.1	6.2	3.5	0.1	1.0
1.3	0.4	3.0	0.2	1.5	5.9	6.0	6.0	5.3	3.6	1.0	0.5
1.7	1.5	3.5	2.8	2.5	5.7	6.9	5.2	5.1	3.8	1.6	0.1
1.5	1.4	3.1	3.1	1.6	3.2	6.2	4.4	3.6	4.4	1.3	0.3
1.2	0.0	3.2	2.4	2.2	3.1	6.8	3.7	4.1	5.0	1.2	1.3

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.9	0.9	2.4	1.6	0.9	3.1	7.7	5.8	4.5	3.6	0.8	0.1
0.1	1.7	3.9	1.6	1.8	5.1	8.1	5.6	2.2	3.1	0.2	0.1
0.0	1.6	3.1	1.7	2.3	5.0	8.5	5.2	2.5	3.4	0.2	0.4
0.4	0.9	2.7	1.1	4.3	4.9	7.9	4.9	1.7	3.3	1.2	0.3
0.8	1.4	3.1	2.1	5.8	5.4	8.3	4.1	1.3	3.1	0.6	1.2
0.2	2.3	3.4	3.5	5.9	5.7	8.3	4.5	1.0	2.9	1.2	0.2
2.3	2.7	2.6	3.9	6.0	6.1	6.8	5.6	1.0	1.6	2.3	0.2
2.2	2.2	0.3	1.0	5.7	6.5	6.8	2.1	2.6	-0.1	2.6	0.6
1.7	3.0	1.4	2.5	5.5	6.6	4.9	3.7	3.6	0.8	2.7	0.0
0.4	3.1	2.4	3.5	5.7	7.7	6.3	6.1	3.0	1.4	2.0	0.1
0.0	3.6	2.2	3.1	6.0	7.6	7.2	6.8	1.6	1.5	1.6	0.0
0.2	3.6	3.0	4.0	6.0	5.7	7.6	6.6	2.0	1.2	1.0	0.9
0.6	1.9	3.2	2.5	6.0	5.7	7.5	6.6	3.8	0.4	-0.1	1.5
0.9	2.5	3.7	2.1	6.5	5.2	7.0	6.3	3.6	2.1	0.0	1.9
0.0	2.8	3.2	2.3	7.3	5.7	6.7	6.2	4.0	0.8	1.0	1.1
0.0	2.8	3.3	2.3	7.1	6.4	6.2	6.0	4.0	0.9	0.7	0.9
0.0	1.1	3.0	1.2	6.3	6.6	6.7	5.4	4.2	1.3	0.6	0.9
-0.1	-77.0	0.8	1.9	5.4	6.8	6.9	5.8	3.8	2.5	1.0	1.2
-0.1	-77.0	0.3	-77.0	3.9	-77.0	7.1	5.6	-77.0	2.2	-77.0	0.2

## 2.2.12 Lis

Tabela 25. Evapotranspiração de referência diária na região de cálculo de Lis (mm)

Jan_2003	Fev_2003	Mar_2003	Abr_2003	Mai_2003	Jun_2003	Jul_2003	Ago_2003	Set_2003	Out_2003	Nov_2003	Dez_2003
-0.1	1.5	0.2	3.2	2.8	2.6	3.3	8.6	2.4	1.3	1.0	0.2
0.2	0.8	0.8	2.4	3.1	3.1	2.5	3.0	2.7	1.5	0.6	0.9
0.8	0.3	1.5	4.0	4.5	0.9	4.2	5.0	2.4	1.7	0.9	0.1
0.4	0.0	2.3	4.6	3.7	2.2	4.8	5.4	3.2	2.3	0.6	0.7
0.2	0.9	1.5	4.4	2.6	4.3	4.0	5.4	2.3	2.9	0.4	0.1
0.6	1.0	1.3	4.6	3.6	4.8	4.9	5.6	3.5	3.5	1.6	0.0
0.2	0.3	1.3	5.0	3.0	3.9	5.5	5.5	2.3	3.4	0.6	0.0
0.4	1.4	2.4	4.2	4.0	4.9	5.7	6.8	0.8	3.6	0.7	-0.1
0.6	1.0	2.7	2.7	3.3	5.1	5.8	4.6	3.4	4.0	-0.1	0.5
1.0	0.5	3.4	0.6	3.6	4.6	5.5	4.2	5.0	2.6	0.9	0.8
0.8	-0.1	3.2	1.8	3.6	4.8	2.9	5.4	6.6	0.5	0.8	0.7
1.1	0.4	2.8	0.7	3.6	7.0	0.9	5.7	7.0	1.3	0.0	0.7
1.4	1.4	3.4	0.3	4.1	7.0	0.2	5.0	7.1	1.7	0.6	1.0
1.7	1.2	1.6	0.8	4.9	5.3	2.2	4.4	6.8	0.8	0.1	1.3
1.5	1.9	2.0	1.6	3.8	4.4	2.7	2.7	5.6	1.0	0.3	0.6
1.5	1.8	2.3	2.2	2.3	1.2	3.2	2.4	5.1	1.7	1.6	0.9
0.5	1.2	1.5	2.6	3.6	2.8	4.2	3.5	5.5	0.9	1.3	0.1
-0.1	0.0	2.2	0.7	3.2	6.1	5.2	4.4	5.9	0.0	1.6	0.3
0.6	0.3	2.8	1.6	2.5	8.6	4.4	4.5	5.5	1.0	2.0	0.0

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.3	0.2	4.0	1.7	4.6	7.4	4.8	3.6	2.4	0.9	1.3	0.3
0.6	0.1	4.2	3.3	6.4	5.6	4.6	4.4	2.3	1.2	-0.1	0.7
0.4	0.3	3.5	2.1	7.8	2.0	4.5	5.6	1.9	1.3	0.1	1.1
1.3	0.5	1.4	1.6	7.5	4.0	3.6	5.5	3.2	1.8	0.4	0.9
1.4	0.4	1.6	2.1	4.0	2.0	4.4	2.7	3.3	0.6	0.9	1.2
2.0	0.5	0.6	0.3	4.6	4.7	2.6	3.5	3.3	0.5	1.2	0.9
2.3	0.3	0.3	3.3	5.5	3.1	2.4	4.2	3.3	1.0	0.0	0.8
2.1	0.9	1.0	2.9	7.2	4.7	4.5	2.7	2.4	0.3	0.6	0.2
1.6	1.5	1.0	1.2	7.2	3.1	5.3	1.8	1.8	0.9	0.3	0.6
1.4	-77.0	0.2	1.5	6.5	2.5	6.3	2.5	1.4	1.2	0.2	0.3
1.2	-77.0	0.6	2.8	1.9	3.5	7.8	2.4	0.2	0.4	0.2	0.4
1.4	-77.0	2.0	-77.0	4.0	-77.0	7.3	2.3	-77.0	0.6	-77.0	0.1
Jan_2004	Fev_2004	Mar_2004	Abr_2004	Mai_2004	Jun_2004	Jul_2004	Ago_2004	Set_2004	Out_2004	Nov_2004	Dez_2004
0.3	0.4	1.0	1.5	2.3	4.1	4.8	5.3	2.9	3.3	1.5	0.2
1.7	0.3	1.4	1.1	3.2	4.4	5.2	3.8	1.1	3.5	0.5	0.3
1.3	0.8	2.0	1.6	2.6	5.7	5.5	3.7	3.0	3.6	0.2	0.6
0.9	1.1	3.4	3.2	2.0	6.0	4.9	4.2	1.4	3.4	0.8	0.4
1.5	1.7	1.4	3.8	0.0	2.8	3.4	4.3	1.1	2.7	1.0	1.1
1.2	1.5	1.6	3.7	1.4	3.9	2.1	4.5	2.2	2.4	1.6	0.9
0.5	0.6	2.3	2.5	2.3	4.1	3.1	4.9	2.0	4.1	1.3	0.8
0.0	1.2	2.4	2.9	3.5	5.0	3.9	0.7	1.9	1.3	1.5	1.0
0.3	1.6	0.9	3.9	1.0	5.0	4.7	2.4	3.0	1.6	1.5	1.2
0.4	2.1	1.1	3.7	2.2	4.3	2.7	2.4	2.4	0.4	1.7	1.3
0.4	2.3	0.9	4.0	3.0	4.0	4.9	1.0	2.6	1.0	1.7	1.3
0.6	1.9	0.5	3.6	2.7	4.6	5.4	3.5	2.7	1.5	1.9	1.7
0.6	1.7	2.4	4.0	4.7	5.6	7.3	4.6	2.6	2.0	1.9	0.8
0.3	0.6	2.7	4.2	5.5	7.7	6.2	4.6	2.8	1.1	1.9	0.8
0.1	1.4	3.3	3.3	5.6	8.0	5.2	2.5	3.3	0.8	1.8	0.7
1.0	1.2	3.1	0.9	6.0	7.8	4.6	2.4	4.7	0.5	1.7	1.0
0.3	1.6	2.3	1.9	5.9	6.8	5.5	2.0	5.0	1.0	1.8	1.0
1.3	1.5	1.5	0.7	6.3	3.3	5.2	2.7	3.2	0.1	1.6	1.1
1.3	3.0	2.1	1.3	6.6	2.9	3.8	3.3	3.6	0.2	0.9	0.4
1.6	1.4	2.5	1.3	5.1	4.2	5.2	3.4	3.7	1.4	1.4	1.2
1.1	1.4	2.0	0.2	1.2	3.0	5.0	4.5	4.7	1.4	1.4	1.2
1.1	0.2	2.6	2.7	2.0	3.2	3.0	4.2	5.0	1.8	1.4	1.3
0.1	0.0	2.4	4.2	1.3	1.9	5.4	3.2	5.1	2.4	1.6	1.3
1.2	1.0	1.3	5.0	1.5	1.7	6.4	3.9	3.2	1.0	1.7	1.2
0.6	0.7	3.4	5.2	1.6	4.8	7.0	4.0	3.5	0.6	1.7	0.4
0.2	1.4	3.0	5.6	3.2	5.3	6.6	4.5	4.2	1.2	1.6	0.5
0.1	1.0	2.9	4.8	3.5	5.3	5.7	3.8	3.8	0.8	1.1	1.0
1.3	0.9	2.5	2.7	3.4	5.7	3.2	3.7	4.0	0.3	0.8	0.4
0.3	1.0	1.5	3.4	1.5	5.8	4.5	3.5	4.2	0.7	0.3	1.1
0.1	-77.0	0.8	1.5	3.8	4.7	4.6	3.3	3.5	0.3	0.2	0.9
-0.1	-77.0	1.1	-77.0	4.3	-77.0	4.9	2.3	-77.0	0.0	-77.0	1.2

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

Jan_2005	Fev_2005	Mar_2005	Abr_2005	Mai_2005	Jun_2005	Jul_2005	Ago_2005	Set_2005	Out_2005	Nov_2005	Dez_2005
0.6	1.8	2.4	3.8	2.8	7.1	5.6	5.1	4.3	4.3	0.6	0.1
0.9	2.2	2.4	0.6	3.1	5.8	6.5	6.3	4.4	4.3	0.5	0.3
1.5	1.9	2.1	1.4	2.3	4.4	3.5	8.1	5.7	5.0	0.4	0.3
1.6	1.8	3.0	1.7	3.9	4.9	4.3	9.1	5.1	5.0	1.1	0.1
1.3	0.6	2.4	2.9	5.2	6.4	5.6	7.7	3.2	5.3	1.5	0.5
1.3	0.8	2.0	3.5	6.5	7.2	4.7	6.9	1.3	4.4	2.4	1.0
2.0	1.1	3.4	3.6	5.6	8.5	5.6	5.6	2.5	4.6	2.6	0.9
1.4	1.5	3.3	3.2	2.3	6.8	6.9	4.1	3.1	3.1	1.2	0.8
1.7	2.2	3.4	3.9	3.4	6.3	7.3	2.0	1.2	1.8	1.5	1.4
1.1	2.4	2.9	4.3	2.7	5.2	7.5	2.4	2.7	0.4	1.7	2.4
1.4	2.5	3.1	4.0	2.0	4.1	7.4	4.6	1.8	0.9	1.7	2.0
1.2	1.4	2.5	4.4	2.0	2.1	6.3	6.8	3.9	0.7	0.5	1.7
0.0	1.6	1.2	2.9	2.3	2.2	5.6	8.5	5.9	2.3	0.3	1.4
0.5	2.5	2.2	1.6	3.1	3.5	5.1	8.2	5.9	1.9	1.1	1.3
0.1	2.0	3.0	2.1	3.2	5.1	5.9	7.3	6.4	1.4	1.2	1.5
0.8	3.0	2.8	2.0	1.8	5.8	5.2	5.3	4.1	2.1	1.0	1.4
1.4	2.3	4.6	0.1	4.0	7.3	4.4	4.2	4.8	0.5	1.0	1.1
0.7	2.4	4.8	2.1	4.4	5.4	4.8	4.7	5.3	2.0	0.7	1.5
1.4	2.2	2.5	1.1	4.4	4.6	6.7	5.0	5.3	2.5	0.1	1.5
1.4	2.0	1.7	1.4	4.0	4.8	7.7	6.2	5.5	0.5	0.1	1.6
1.9	1.8	0.2	1.4	2.4	6.2	5.4	6.5	4.4	0.5	0.2	1.9
2.1	0.3	2.7	1.3	3.3	8.6	4.9	6.9	3.2	1.0	0.4	2.1
1.6	0.3	1.4	0.8	4.7	4.5	4.5	5.4	2.6	2.0	1.4	1.8
1.4	1.2	2.4	2.1	5.8	1.4	1.6	4.7	2.5	2.1	1.1	1.2
2.2	1.9	1.2	2.4	5.0	4.2	2.8	4.2	2.9	1.8	0.5	-0.1
1.7	1.1	1.4	3.6	5.7	4.4	3.2	3.9	3.8	3.1	0.3	0.1
2.1	2.3	1.6	3.9	1.8	4.5	3.9	4.4	4.1	0.3	0.2	0.7
1.6	3.2	1.1	4.5	3.3	3.4	3.5	4.4	3.1	0.5	0.2	0.5
1.5	-77.0	0.7	4.1	2.7	3.2	4.2	4.2	4.3	0.3	0.9	0.6
2.3	-77.0	2.4	4.7	4.3	3.9	5.2	5.6	5.6	0.0	0.9	0.1
2.1	-77.0	5.0	-77.0	5.9	-77.0	5.0	4.3	-77.0	0.5	-77.0	0.0
Jan_2006	Fev_2006	Mar_2006	Abr_2006	Mai_2006	Jun_2006	Jul_2006	Ago_2006	Set_2006	Out_2006	Nov_2006	Dez_2006
0.4	1.8	1.8	2.6	3.8	3.7	4.4	4.5	3.3	2.5	1.4	1.0
0.8	1.4	1.4	2.8	4.0	5.4	2.7	5.3	4.4	1.4	0.6	0.2
0.8	0.9	0.4	3.0	2.9	6.4	3.8	2.9	5.1	1.6	0.3	0.5
0.9	1.4	1.2	2.7	3.4	6.1	4.3	7.5	6.6	1.7	0.0	0.3
0.9	2.0	2.4	0.7	3.3	5.9	4.0	8.2	7.5	2.8	1.0	0.0
0.2	2.2	1.5	1.3	3.7	5.7	5.4	8.3	6.0	2.5	-0.1	0.6
0.5	2.5	1.2	0.7	3.2	5.7	6.0	7.0	4.7	1.7	1.1	0.0
0.9	2.5	2.0	2.4	3.5	4.8	5.3	7.8	4.6	2.6	1.4	0.9
1.1	2.1	0.7	1.7	4.6	3.3	5.7	8.4	4.1	2.7	1.2	0.6
1.0	2.2	1.4	2.5	4.5	2.8	4.8	8.4	3.8	0.8	1.6	0.8
1.4	2.0	1.2	3.3	3.9	5.6	5.8	8.1	2.0	2.2	2.2	0.8



Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

1.3	1.9	2.7	3.6	4.0	4.2	7.0	6.5	3.2	2.8	2.0	0.7
0.8	1.9	2.8	4.0	4.8	1.4	5.5	6.2	1.2	4.0	1.8	0.6
1.0	1.5	3.1	0.7	4.0	2.8	6.9	4.9	2.2	3.9	1.5	0.7
-0.1	1.2	2.4	2.0	4.0	3.2	7.3	3.0	2.9	1.6	0.0	0.6
1.1	0.9	1.0	1.9	4.7	3.3	7.1	0.8	3.7	0.1	0.8	0.6
0.6	0.8	0.0	2.3	3.8	1.5	6.6	2.6	2.8	1.4	0.6	0.6
0.9	1.3	0.5	2.8	4.5	4.5	3.8	2.6	3.7	1.1	0.5	0.6
1.1	0.8	1.3	3.3	4.4	1.8	4.1	3.4	3.6	0.4	0.7	0.6
1.0	0.9	1.1	1.6	3.7	4.4	5.7	5.0	3.8	0.3	0.8	0.7
1.2	1.9	1.4	2.4	2.5	4.6	5.2	7.2	1.4	0.6	0.5	0.6
0.8	2.1	0.7	1.3	3.2	5.8	5.3	6.9	2.9	0.0	0.5	0.6
1.3	1.3	0.2	3.6	3.9	3.9	5.0	4.4	1.8	1.2	0.3	0.6
0.8	1.3	1.2	3.8	4.8	2.5	4.2	4.3	0.8	0.2	0.0	1.0
1.5	0.4	0.9	3.7	5.2	1.9	5.3	4.3	1.2	0.9	0.6	1.2
2.0	1.8	2.3	3.9	6.0	2.7	4.7	4.5	3.1	0.2	0.5	0.7
1.5	2.2	2.1	4.1	6.0	4.5	3.3	4.8	1.9	2.3	0.1	0.6
1.3	2.2	2.7	4.5	5.4	2.7	5.3	4.8	1.4	2.5	0.8	0.6
0.5	-77.0	0.5	4.3	5.0	4.5	5.4	5.6	1.1	3.5	0.7	0.1
1.2	-77.0	2.4	4.5	5.2	4.5	5.3	5.8	1.9	1.4	0.5	0.1
2.0	-77.0	0.9	-77.0	4.4	-77.0	5.6	5.5	-77.0	1.3	-77.0	0.3
Jan_2007	Fev_2007	Mar_2007	Abr_2007	Mai_2007	Jun_2007	Jul_2007	Ago_2007	Set_2007	Out_2007	Nov_2007	Dez_2007
0.4	1.1	1.4	2.7	1.4	4.4	3.7	4.5	6.3	2.7	2.8	0.1
0.7	1.6	1.3	0.3	1.2	5.1	4.0	5.1	6.0	0.6	2.9	0.4
0.5	0.8	1.4	1.4	3.0	3.3	3.6	7.3	5.3	0.7	3.5	0.2
0.6	0.9	0.4	2.2	2.3	5.9	4.8	7.8	6.0	1.6	3.2	0.4
0.5	0.9	1.7	3.1	4.2	6.3	6.4	3.9	6.8	2.0	3.3	0.4
0.6	1.0	0.4	2.3	5.0	6.8	6.0	2.8	6.4	2.5	3.4	0.6
0.1	0.0	2.0	2.5	4.5	5.4	4.7	4.8	4.7	2.7	3.5	0.7
0.2	0.9	2.5	2.6	5.3	3.0	4.4	5.9	3.8	2.7	3.2	1.5
0.3	1.4	2.6	1.9	6.2	4.5	4.8	6.9	2.1	3.4	2.0	0.8
-0.1	0.9	4.1	2.1	4.2	2.4	5.5	5.8	2.1	3.8	3.3	1.0
0.6	0.1	4.6	1.9	3.5	3.8	5.6	2.7	5.1	4.1	2.4	1.0
0.6	1.3	2.5	2.2	3.5	3.3	6.0	2.0	4.0	3.5	2.5	1.1
1.2	0.2	3.5	2.6	2.8	1.9	5.0	3.3	2.4	3.6	2.3	1.0
0.8	1.8	3.8	3.6	2.9	2.0	5.4	4.2	3.0	3.4	2.1	1.1
0.3	0.2	3.7	3.9	4.1	4.6	1.2	1.4	3.6	2.9	2.0	1.2
0.3	0.2	3.1	4.8	4.8	0.6	0.6	4.2	3.1	2.4	2.2	0.9
0.4	1.6	3.5	4.6	6.6	3.0	3.9	4.9	0.9	2.7	2.4	0.6
0.9	1.8	3.6	5.3	6.1	3.4	4.7	4.1	1.9	3.3	1.8	0.1
1.2	0.3	1.6	3.4	4.3	2.4	3.7	4.7	3.7	3.8	0.3	0.1
1.2	1.3	2.7	1.0	1.6	3.0	4.4	4.9	4.1	3.6	0.5	0.5
0.8	1.7	2.8	3.8	2.7	3.6	4.5	4.7	1.7	3.5	0.6	0.9
0.4	1.0	2.8	4.5	1.3	4.6	4.7	5.3	2.8	3.1	0.7	0.7
0.7	0.4	2.6	5.0	2.4	4.8	3.2	5.8	3.1	1.5	0.8	0.8

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.9	1.1	2.4	2.5	3.4	2.0	4.9	6.1	3.1	1.1	1.2	0.6
0.9	1.0	2.0	1.3	2.8	3.2	5.3	4.6	2.9	2.2	1.8	0.1
1.7	2.1	1.2	2.1	2.3	4.6	5.6	3.9	3.8	2.5	1.5	0.9
1.7	2.2	2.1	2.2	0.7	4.7	6.5	5.5	4.1	3.0	1.7	0.7
1.0	0.5	2.1	3.0	4.0	4.2	6.6	3.8	4.5	2.8	1.3	0.5
0.1	-77.0	2.7	3.3	2.8	4.8	6.9	2.2	1.0	1.9	1.1	0.7
0.0	-77.0	1.2	2.2	1.7	2.9	7.3	4.9	1.1	2.5	1.4	0.6
0.9	-77.0	1.4	-77.0	2.8	-77.0	5.1	6.4	-77.0	2.9	-77.0	0.7
Jan_2008	Fev_2008	Mar_2008	Abr_2008	Mai_2008	Jun_2008	Jul_2008	Ago_2008	Set_2008	Out_2008	Nov_2008	Dez_2008
0.0	0.4	2.3	3.4	3.5	2.3	5.5	5.1	3.8	2.7	0.7	0.6
0.3	0.8	1.9	5.0	4.6	2.6	3.0	5.8	4.0	2.8	1.2	1.0
0.3	0.2	1.5	5.3	4.5	4.3	4.7	5.3	2.3	3.1	1.0	0.1
0.6	0.3	3.5	5.6	2.8	1.2	4.1	5.6	1.2	4.0	0.1	0.3
0.0	0.5	3.3	4.7	3.1	3.1	4.5	5.3	1.1	4.0	0.7	0.1
0.1	2.0	3.2	4.3	3.4	4.9	4.7	4.6	2.3	3.0	0.5	0.2
0.4	2.8	3.1	0.5	2.3	5.5	5.0	5.0	3.4	0.7	0.5	0.2
0.2	2.8	1.6	0.8	2.0	6.0	5.4	5.2	4.5	1.7	1.0	0.3
0.4	2.9	1.8	0.8	1.4	4.8	4.8	5.3	4.1	3.2	1.2	1.1
0.6	2.9	0.0	0.1	1.4	4.1	4.3	4.8	3.3	4.3	1.4	1.3
0.5	2.9	0.4	2.9	2.4	4.7	2.1	2.3	3.0	2.2	0.7	0.5
0.5	2.8	1.9	2.2	1.6	5.6	4.4	4.2	3.7	0.8	1.0	0.7
0.0	2.4	3.0	1.2	2.2	5.7	5.4	5.6	3.8	2.1	1.4	0.2
0.4	2.1	2.8	3.7	1.7	5.5	6.4	4.9	4.7	2.6	2.0	0.7
0.1	2.2	1.8	3.7	1.6	2.5	7.6	5.1	3.7	2.4	2.1	1.0
0.6	1.8	2.0	2.9	3.4	1.8	7.5	1.5	2.7	1.1	1.9	1.2
0.2	1.2	0.9	0.9	3.1	4.4	6.5	4.0	2.3	1.2	1.8	1.1
0.6	0.0	0.7	1.4	1.9	5.1	6.8	3.9	2.6	2.1	1.3	0.9
1.2	0.8	0.5	0.8	2.2	5.6	7.1	4.6	4.4	2.4	1.9	1.1
0.8	1.0	3.3	1.1	2.1	5.4	4.1	4.4	2.5	2.0	2.0	1.6
0.8	1.8	3.2	2.0	1.6	5.2	5.4	3.3	1.9	1.0	1.8	1.5
0.8	1.8	0.7	1.5	1.1	5.3	6.0	3.6	0.9	2.4	1.6	2.8
1.3	0.7	2.4	1.4	1.1	3.2	4.9	4.8	1.6	2.9	1.5	1.7
1.8	0.3	1.6	4.2	2.6	6.0	4.8	4.4	2.3	3.1	0.3	1.6
1.5	2.0	2.0	6.0	2.0	5.5	1.7	4.0	3.9	3.7	1.1	1.8
1.0	2.0	0.9	5.7	0.7	5.1	4.1	3.9	4.2	3.8	1.6	0.7
1.2	0.7	1.0	4.1	1.7	6.1	4.5	4.3	4.5	0.4	1.4	0.1
1.2	1.3	1.8	2.6	2.9	6.8	4.2	4.4	4.1	1.9	0.2	0.0
1.5	2.2	2.8	1.6	2.2	5.2	5.8	3.7	2.8	1.6	0.1	0.2
1.5	-77.0	1.8	3.0	2.0	5.6	4.9	2.7	4.0	0.3	0.5	0.5
1.7	-77.0	2.3	-77.0	2.8	-77.0	4.4	3.0	-77.0	0.4	-77.0	0.0
Jan_2009	Fev_2009	Mar_2009	Abr_2009	Mai_2009	Jun_2009	Jul_2009	Ago_2009	Set_2009	Out_2009	Nov_2009	Dez_2009
0.0	0.2	0.6	3.4	4.5	6.7	4.5	2.4	3.8	2.7	0.1	0.0
-0.1	1.0	1.2	3.1	6.0	5.1	5.1	4.3	3.9	2.9	1.1	0.3
0.2	0.3	2.1	2.9	6.7	3.8	3.9	5.2	4.3	3.3	0.7	0.3

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.9	0.5	0.2	2.8	6.3	3.8	4.9	3.9	4.0	3.5	1.6	0.7
0.3	0.7	1.4	3.0	6.2	1.7	1.4	2.1	4.7	1.8	1.2	0.3
0.7	0.5	0.8	1.5	5.9	1.4	4.7	3.8	4.8	1.4	0.0	0.1
0.8	0.7	2.5	2.2	4.1	2.4	5.1	4.2	5.0	2.1	1.0	0.5
1.3	0.0	3.0	2.4	3.1	3.3	5.5	4.2	6.0	1.4	0.1	0.9
1.3	0.4	2.8	2.1	2.6	2.5	5.3	5.0	4.9	2.0	0.6	0.6
0.9	1.1	2.9	1.8	1.4	2.6	5.0	6.3	2.0	2.7	0.5	0.8
1.5	1.6	4.2	2.0	1.4	5.4	3.5	7.7	4.1	3.3	0.7	1.2
1.8	2.0	5.2	3.0	1.5	5.9	5.2	7.2	2.2	4.7	1.2	1.5
0.3	2.6	4.7	0.6	1.6	4.8	4.9	5.8	2.6	5.6	0.2	1.2
0.7	2.3	3.9	1.2	2.5	1.5	4.4	6.7	3.4	4.5	0.9	1.3
0.0	2.5	3.6	1.1	4.3	4.2	5.7	5.1	4.6	3.9	0.2	1.5
0.5	2.7	4.8	1.1	2.1	2.4	5.3	4.6	4.1	5.0	-0.1	0.3
1.2	2.7	5.5	1.0	3.1	6.6	5.0	4.6	3.0	4.7	1.3	0.5
-0.1	2.7	5.5	0.6	4.2	4.2	6.0	4.7	1.1	3.5	0.7	0.2
0.4	1.7	4.2	2.8	4.6	7.0	6.1	4.4	2.0	2.7	1.0	1.2
0.4	2.4	3.9	3.5	3.8	6.7	5.6	4.7	3.4	0.6	0.9	1.8
0.4	2.3	2.1	4.2	5.1	7.8	3.9	4.5	3.1	0.3	0.2	0.3
0.1	2.7	3.2	5.4	3.6	5.8	1.1	5.4	5.3	2.1	0.9	0.1
0.6	2.9	2.5	6.3	2.1	5.0	3.9	4.1	5.5	0.8	0.9	0.3
1.2	2.7	4.0	2.9	2.8	3.1	4.1	3.7	5.3	0.9	1.6	0.1
0.6	3.0	4.8	1.8	0.5	3.0	5.2	4.5	5.4	1.4	0.2	0.2
0.6	3.2	4.8	3.3	4.5	4.2	4.8	4.8	4.9	2.4	0.8	0.8
0.0	3.2	3.4	1.9	6.2	5.4	4.8	4.7	4.3	2.3	0.5	0.4
-0.1	0.6	3.1	1.3	8.6	1.6	5.0	4.0	4.8	2.8	0.4	0.1
0.0	-77.0	2.8	0.8	8.8	1.9	4.9	6.0	3.6	1.4	0.2	0.2
0.1	-77.0	3.2	1.3	8.4	3.1	4.8	6.8	2.5	1.5	0.8	0.4
1.1	-77.0	3.1	-77.0	8.4	-77.0	5.2	5.9	-77.0	1.6	-77.0	0.3
Jan_2010	Fev_2010	Mar_2010	Abr_2010	Mai_2010	Jun_2010	Jul_2010	Ago_2010	Set_2010	Out_2010	Nov_2010	Dez_2010
0.3	1.6	1.5	2.3	2.6	5.9	5.1	4.0	4.6	3.1	1.4	0.5
0.1	2.2	1.7	1.8	3.2	3.2	4.1	4.3	3.4	2.6	1.7	0.8
0.0	1.3	1.1	1.3	3.9	5.1	4.6	6.8	4.4	0.3	1.7	0.9
0.1	0.1	0.9	3.2	4.5	4.5	7.2	7.2	4.1	1.7	2.7	1.0
0.3	0.8	0.1	4.6	4.7	3.7	8.2	6.1	4.4	2.5	2.7	0.0
0.2	1.2	1.2	3.2	4.6	4.4	8.2	7.4	3.3	0.1	2.3	0.2
0.9	0.6	0.4	3.5	1.0	4.4	5.8	8.1	1.7	1.6	0.7	0.3
1.6	0.6	0.0	5.0	0.7	0.8	5.6	3.3	3.2	0.1	0.1	0.4
1.2	0.5	2.4	5.1	2.8	1.2	3.5	6.1	4.1	1.4	0.9	0.7
0.5	0.1	2.4	5.5	3.3	1.8	5.1	7.7	5.2	1.1	1.3	1.4
0.4	1.6	2.8	5.0	1.7	1.9	4.8	8.1	5.2	2.3	0.8	1.1
0.0	1.4	2.2	3.9	2.8	3.0	5.2	3.9	5.1	2.7	0.6	0.3
0.2	1.7	2.7	2.5	3.0	4.0	4.6	5.4	5.3	2.7	1.0	1.0
0.9	1.4	2.7	0.9	1.2	4.8	4.4	6.1	4.5	2.1	0.8	0.8
0.1	0.5	3.6	2.5	3.8	5.8	5.4	6.5	1.8	2.3	1.2	1.8

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

## ANEXO 8 – Necessidades Hídricas das Culturas

### ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.3	0.4	2.9	1.8	4.5	5.5	5.3	5.4	2.9	2.6	1.2	1.5
0.5	0.3	3.3	1.6	6.2	5.4	6.0	4.9	2.4	3.0	1.1	1.5
0.3	0.6	2.2	1.5	6.6	4.1	5.9	2.7	3.6	3.0	0.7	1.1
0.6	1.6	1.0	1.9	7.1	2.4	5.2	4.5	4.4	3.1	0.3	0.6
0.7	1.3	0.6	3.5	7.6	4.9	4.8	4.9	3.6	3.4	1.1	0.1
0.2	0.9	2.4	2.9	7.9	6.4	4.2	5.6	3.0	3.7	0.9	0.0
0.3	0.3	2.0	3.0	7.1	6.2	5.2	3.9	3.3	1.7	0.7	0.1
0.7	0.6	2.5	2.3	5.8	4.9	6.3	1.6	2.2	2.2	0.5	0.8
0.7	1.0	1.4	2.8	5.0	4.6	7.5	4.7	2.7	1.4	1.2	1.0
0.9	0.7	1.2	4.2	1.9	4.8	8.2	5.9	3.5	1.2	0.4	0.8
1.4	1.0	1.2	5.7	2.4	5.0	9.0	5.4	3.9	3.2	1.1	1.2
1.6	0.2	2.6	5.7	1.5	5.2	9.5	4.9	3.3	2.7	1.1	0.8
1.6	0.7	3.4	5.5	3.6	5.8	8.1	5.3	3.4	2.6	1.3	0.5
0.5	-77.0	0.8	3.4	3.9	5.9	7.1	6.7	3.1	0.1	0.4	0.4
0.7	-77.0	1.9	2.4	5.1	5.9	6.3	7.4	2.8	0.5	0.4	0.0
0.4	-77.0	1.1	-77.0	5.7	-77.0	5.6	4.9	-77.0	0.5	-77.0	0.0
Jan_2011	Fev_2011	Mar_2011	Abr_2011	Mai_2011	Jun_2011	Jul_2011	Ago_2011	Set_2011	Out_2011	Nov_2011	Dez_2011
0.1	1.6	2.3	4.9	1.5	6.2	3.1	3.7	1.4	5.1	0.7	1.1
0.3	1.8	2.5	0.7	3.4	7.0	4.5	3.8	1.6	4.5	0.2	0.6
0.2	1.9	2.5	2.1	3.6	6.0	2.1	5.3	2.6	4.6	0.3	1.0
0.0	2.0	1.8	3.4	2.9	5.7	4.8	5.5	3.6	4.4	0.7	0.3
0.1	2.7	0.8	5.2	3.9	5.0	4.9	5.4	3.9	5.2	0.9	0.2
0.5	2.5	2.0	6.5	3.1	0.7	4.5	2.1	4.6	4.2	1.5	0.5
0.5	2.3	2.7	5.5	2.9	3.4	4.4	4.0	4.6	3.2	1.6	1.0
0.5	0.9	0.7	6.0	2.9	3.7	2.7	6.4	4.2	4.0	0.2	0.8
0.6	0.7	1.0	3.1	4.4	2.4	3.2	6.7	5.1	4.3	0.3	0.7
0.1	1.6	2.5	3.7	5.3	4.9	4.6	6.7	1.8	4.9	1.1	-0.1
0.2	1.1	1.7	4.4	6.0	5.0	4.3	5.3	3.2	5.1	0.1	0.2
0.3	1.2	0.9	5.0	6.4	5.1	4.3	4.9	4.0	5.6	2.0	0.7
0.0	0.3	0.5	5.5	6.0	3.8	5.4	5.4	4.0	5.5	1.9	0.3
0.0	0.2	0.1	5.5	5.3	4.8	5.4	4.9	4.7	5.4	0.4	0.3
1.0	0.4	1.5	4.6	7.2	4.2	5.1	4.9	3.9	4.9	0.5	0.7
0.7	0.5	0.9	5.8	5.3	4.7	2.5	2.9	3.0	3.8	0.9	0.2
0.4	1.3	1.8	4.9	2.9	4.0	4.6	5.0	2.4	3.6	1.6	0.9
0.8	0.5	2.8	3.6	2.0	5.2	3.8	4.5	3.1	2.6	0.8	1.1
1.4	0.4	4.3	1.3	4.0	5.9	4.8	5.2	4.2	2.1	-0.1	1.3
1.5	0.7	4.5	0.6	4.7	5.2	5.4	5.4	5.8	3.1	0.6	1.0
2.3	1.1	4.6	1.4	3.8	5.7	4.4	3.4	3.6	4.1	0.4	0.3
2.6	1.2	4.0	0.4	4.6	6.1	5.4	3.3	3.1	2.8	0.6	1.0
2.3	1.8	3.7	1.7	5.5	6.0	5.5	2.9	2.4	1.0	1.3	0.1
2.7	2.6	1.8	3.4	6.0	6.4	6.0	4.4	2.9	1.5	1.6	1.1
2.7	2.3	1.7	4.5	6.3	8.0	5.5	3.0	3.5	1.3	1.6	1.5
1.9	1.6	0.6	5.2	1.6	6.6	5.3	4.1	3.9	0.1	1.6	1.8
0.4	2.6	0.7	5.6	4.8	5.7	6.6	4.7	4.2	0.2	1.4	1.5

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.5	2.2	0.5	3.8	3.3	3.7	6.8	4.2	3.3	1.8	1.6	1.3
0.6	-77.0	1.4	2.1	3.5	5.7	5.2	4.0	4.5	2.0	0.9	1.2
1.1	-77.0	1.4	1.2	2.6	6.7	4.6	2.6	4.2	2.6	0.9	1.2
1.4	-77.0	4.0	-77.0	4.0	-77.0	5.6	1.9	-77.0	1.4	-77.0	1.0
Jan_2012	Fev_2012	Mar_2012	Abr_2012	Mai_2012	Jun_2012	Jul_2012	Ago_2012	Set_2012	Out_2012	Nov_2012	Dez_2012
0.3	0.1	1.9	1.5	1.8	5.9	5.1	5.1	7.0	3.0	0.7	0.9
0.7	1.5	1.4	1.4	0.9	1.8	5.3	5.0	7.4	2.7	0.7	1.0
0.2	1.9	0.6	1.0	2.3	4.1	4.8	4.9	6.1	2.9	0.0	1.0
1.0	1.9	0.2	2.5	2.4	4.9	2.8	4.9	5.8	3.0	0.7	0.1
0.7	1.5	2.3	2.2	2.0	3.6	3.8	3.9	6.0	4.2	0.5	0.3
1.0	1.0	2.0	1.4	2.8	2.1	4.3	4.9	6.6	2.3	1.6	-0.1
1.5	1.2	2.3	1.5	0.5	2.9	1.7	5.6	4.7	3.2	0.5	0.2
1.2	1.9	2.4	3.3	3.4	3.2	5.0	6.3	3.4	1.8	0.3	1.0
1.3	1.7	3.7	4.0	4.9	2.6	4.1	6.6	3.0	0.6	0.9	1.3
1.7	1.8	4.3	1.6	5.6	2.9	3.6	5.5	3.7	1.7	0.2	1.1
1.3	2.3	3.9	0.8	3.4	2.8	4.0	5.2	3.7	1.0	1.3	0.6
1.3	2.5	4.2	1.3	4.9	3.4	5.0	4.1	3.8	2.3	1.6	1.1
0.9	2.3	3.8	0.6	3.7	4.7	4.3	4.6	4.0	2.4	1.6	0.4
0.5	1.9	4.0	1.0	4.3	2.7	5.0	2.8	5.8	2.0	1.9	-0.1
0.1	2.2	2.6	2.6	5.0	3.0	5.6	3.9	7.3	2.3	1.0	0.0
0.8	2.4	1.1	3.6	7.1	2.7	7.2	4.6	4.9	1.2	0.2	-0.1
1.2	2.3	1.1	0.6	4.1	3.3	9.3	4.9	2.9	0.2	0.0	0.0
1.7	2.5	1.7	0.4	3.2	3.0	8.2	4.7	3.2	-0.1	1.1	0.4
1.8	2.0	3.0	0.9	2.4	3.7	5.3	4.4	3.8	1.3	1.0	0.2
0.8	2.4	3.5	0.4	1.7	3.1	5.2	5.0	3.7	1.8	0.3	0.6
1.3	2.4	3.1	0.2	2.7	4.4	5.5	4.1	2.1	0.7	0.9	-0.1
1.4	2.6	3.8	1.8	4.1	5.0	5.5	4.0	4.5	0.6	1.2	0.1
1.0	3.7	4.3	0.8	5.4	5.4	5.2	2.8	1.5	2.2	0.2	0.9
1.4	3.9	2.2	0.5	5.1	6.0	5.2	3.0	1.8	1.0	0.0	0.8
1.4	3.3	4.4	0.2	2.9	6.7	5.5	4.3	0.4	0.3	-0.1	0.3
0.4	1.7	5.5	1.0	3.0	6.7	4.7	4.4	2.5	0.2	0.6	0.9
1.5	2.1	5.7	2.5	3.5	6.5	3.4	3.7	1.8	1.4	0.8	1.0
1.5	2.1	5.6	1.5	4.5	4.3	3.7	1.9	0.2	2.8	0.9	1.2
1.8	2.6	5.3	1.2	4.2	3.4	5.0	3.6	2.9	1.0	1.0	0.7
2.1	-77.0	2.7	2.3	4.8	3.7	5.0	4.2	3.7	0.9	0.0	0.3
0.9	-77.0	1.6	-77.0	5.9	-77.0	4.2	5.5	-77.0	0.3	-77.0	0.0
Jan_2013	Fev_2013	Mar_2013	Abr_2013	Mai_2013	Jun_2013	Jul_2013	Ago_2013	Set_2013	Out_2013	Nov_2013	Dez_2013
0.4	0.5	2.0	1.8	2.9	5.4	5.0	5.2	5.9	0.3	0.3	1.6
0.7	1.4	2.2	2.0	3.4	6.0	3.4	4.5	6.1	0.8	0.6	1.2
1.5	1.4	1.1	1.4	4.9	6.6	5.8	4.7	4.6	2.1	1.6	1.5
1.7	1.8	0.9	1.1	5.2	5.9	7.3	5.2	4.1	1.6	0.4	1.4
1.7	1.1	0.5	2.3	4.9	4.6	8.4	4.2	3.5	2.2	0.6	0.8
1.1	1.1	0.3	3.0	2.0	1.8	7.9	3.5	3.7	2.8	0.5	1.0
0.5	1.5	0.8	1.3	2.7	1.4	8.2	3.5	3.4	2.7	0.6	1.3

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.6	1.5	0.7	1.5	1.8	0.8	7.3	5.2	4.1	2.7	1.1	1.1
0.0	1.7	1.5	0.8	1.0	0.4	7.7	6.6	5.1	3.6	0.9	1.2
0.5	0.1	0.8	0.7	3.9	0.6	6.1	7.5	4.2	3.7	1.4	1.4
0.0	0.5	0.8	1.2	4.1	1.6	4.5	6.6	4.0	2.7	1.4	1.4
0.1	0.1	1.0	2.0	4.6	4.6	2.2	4.8	4.4	0.5	1.5	1.1
0.2	0.8	1.9	3.7	5.8	4.4	2.9	5.1	4.4	1.0	1.6	0.1
0.9	1.6	2.5	3.7	3.1	4.3	4.3	6.0	4.3	0.9	1.8	1.1
0.5	1.9	2.5	2.9	2.8	4.4	4.4	5.3	3.7	0.8	1.4	1.2
-0.1	0.3	1.3	3.8	1.6	3.7	4.0	2.2	3.8	1.7	1.2	1.0
-0.1	0.0	0.6	3.9	1.7	2.0	4.4	4.5	4.0	1.6	1.1	-0.1
-0.1	0.5	1.5	4.5	2.6	3.1	4.5	4.6	3.9	0.3	0.8	0.0
0.1	0.6	0.4	4.1	2.5	1.7	4.5	5.5	3.9	1.0	0.8	0.5
-0.1	0.6	2.2	4.4	3.4	4.3	4.7	7.1	4.1	1.4	1.2	1.0
0.5	1.0	2.4	4.4	3.8	3.3	4.9	5.3	3.9	0.4	0.7	1.0
0.3	0.7	1.8	4.4	4.3	4.8	4.7	4.4	3.9	0.9	0.2	0.6
0.1	1.0	1.3	4.5	3.7	4.9	5.0	4.1	3.6	0.5	1.5	0.0
0.1	1.7	1.6	5.5	4.8	6.8	5.1	4.4	3.0	0.0	1.3	0.0
-0.1	2.1	0.1	4.8	4.6	7.7	2.8	5.0	0.9	0.3	1.3	0.8
0.6	2.4	0.4	2.8	3.0	7.6	4.1	4.7	1.7	1.7	1.5	0.6
-0.1	0.7	0.5	3.6	3.7	6.9	3.2	5.5	0.7	2.0	1.6	0.2
0.6	1.6	0.4	3.1	3.3	6.8	3.7	5.5	1.3	0.1	1.7	0.7
1.3	-77.0	0.0	1.7	0.9	7.7	5.0	4.3	0.3	1.3	1.5	0.7
1.4	-77.0	2.3	1.8	3.8	8.0	5.6	5.1	0.0	1.9	1.1	0.3
1.7	-77.0	0.0	-77.0	4.3	-77.0	5.2	6.1	-77.0	1.9	-77.0	0.3
Jan_2014	Fev_2014	Mar_2014	Abr_2014	Mai_2014	Jun_2014	Jul_2014	Ago_2014	Set_2014	Out_2014	Nov_2014	Dez_2014
0.0	1.1	0.1	0.1	4.7	4.0	3.9	3.9	5.3	3.6	0.7	1.6
-0.1	0.8	0.1	1.4	5.0	4.4	3.9	2.5	4.7	3.0	1.0	1.0
0.0	1.0	2.0	1.9	5.2	5.1	4.8	4.2	1.7	3.1	0.3	0.8
0.4	0.0	1.1	0.4	5.1	4.5	3.7	4.8	4.0	3.0	0.5	0.9
0.3	0.8	1.6	0.8	4.6	4.2	4.2	5.2	4.3	2.0	1.3	0.8
0.1	0.3	1.5	2.2	4.4	0.8	2.2	5.3	2.1	1.5	0.3	1.1
0.1	0.7	1.7	3.2	4.0	3.3	5.3	4.4	2.6	1.2	0.8	1.2
0.3	1.0	2.0	3.7	4.6	4.1	5.6	2.6	2.6	0.3	0.4	1.3
0.9	0.3	1.7	2.4	4.4	4.2	6.4	3.4	3.4	1.8	1.0	1.3
0.5	1.7	3.2	3.9	4.6	4.5	6.4	3.9	1.0	2.1	0.0	1.3
0.5	0.0	3.0	1.2	5.4	5.6	6.5	4.5	1.6	1.1	0.4	1.1
-0.1	0.0	2.6	3.6	5.2	6.6	6.0	3.4	2.1	0.0	0.8	0.2
0.7	1.1	2.4	3.2	5.5	6.0	5.7	4.7	1.7	0.1	0.1	-0.1
0.5	0.4	2.5	1.5	5.5	6.7	5.8	5.1	1.2	1.1	0.4	0.3
0.0	1.2	2.8	3.8	5.7	7.3	5.7	5.3	1.5	0.2	0.7	0.8
0.7	1.5	3.0	2.2	5.7	7.6	5.8	5.5	1.1	1.4	0.7	0.1
0.0	0.4	2.8	3.4	5.7	5.6	5.4	6.3	1.6	0.6	0.5	1.0
0.0	1.4	3.0	0.9	5.0	3.3	3.1	5.1	1.3	0.5	0.6	1.7
1.1	1.7	2.6	1.6	2.8	4.6	3.5	4.4	2.6	2.8	-0.2	1.6

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.6	0.4	2.0	1.4	1.1	4.3	4.6	4.9	1.9	3.1	0.2	1.1
-0.1	1.5	0.6	2.4	1.2	3.7	5.4	4.6	2.1	2.8	1.1	1.1
0.8	0.7	2.3	1.9	2.4	2.1	5.4	4.5	1.2	3.0	0.1	0.9
1.6	1.8	1.3	2.4	3.7	2.6	5.2	4.6	1.5	2.9	-0.1	0.2
1.2	1.5	1.2	1.7	4.3	3.3	3.7	4.8	2.7	2.4	0.9	1.0
0.5	1.4	1.7	2.7	3.9	3.8	3.9	4.6	3.8	2.5	0.5	1.1
0.2	1.3	2.9	1.0	4.4	5.4	4.2	2.9	3.8	2.5	0.0	1.0
1.2	0.0	1.1	3.8	3.1	5.3	5.0	5.1	1.5	2.0	0.3	0.7
0.5	0.8	1.1	3.7	2.2	2.4	3.8	4.6	2.1	1.3	0.7	0.1
1.3	-77.0	1.9	4.3	1.9	4.3	6.0	4.7	3.0	2.3	1.0	1.5
1.0	-77.0	0.6	4.2	4.6	5.4	6.0	4.3	3.3	2.4	0.1	1.8
0.6	-77.0	0.1	-77.0	5.6	-77.0	4.3	4.6	-77.0	1.8	-77.0	1.6
Jan_2015	Fev_2015	Mar_2015	Abr_2015	Mai_2015	Jun_2015	Jul_2015	Ago_2015	Set_2015	Out_2015	Nov_2015	Dez_2015
1.6	0.6	0.8	4.3	0.5	3.1	4.3	5.1	2.8	3.4	1.2	1.2
1.4	-0.1	1.6	3.9	3.3	4.6	5.0	5.3	2.8	3.0	-0.1	1.1
1.7	0.4	2.0	2.7	0.8	5.0	5.6	4.6	2.7	2.1	0.4	1.7
1.5	1.6	3.0	4.5	1.2	4.8	5.1	5.1	3.7	0.8	0.2	1.0
1.3	1.7	4.1	3.8	2.3	5.0	5.2	5.7	3.4	0.5	0.0	1.5
1.5	0.7	3.4	1.9	3.6	5.4	5.9	5.5	3.9	0.6	0.5	1.0
1.1	1.3	3.8	3.4	4.6	5.0	5.7	5.2	4.7	2.6	2.0	0.0
1.3	1.6	3.8	1.4	1.9	4.8	5.3	5.8	3.9	2.6	1.9	0.4
1.6	1.9	3.5	1.0	4.2	4.4	5.6	6.8	2.1	2.7	2.1	0.7
1.8	1.8	2.7	1.1	4.5	4.1	4.6	5.8	3.5	0.5	2.1	1.0
1.2	0.5	2.8	3.1	4.8	1.1	5.0	3.2	3.4	0.5	2.0	0.6
1.3	1.1	1.7	3.8	4.8	3.1	4.2	2.8	2.8	0.3	1.7	0.6
0.5	0.6	3.2	4.2	4.1	1.9	4.9	2.2	0.8	1.6	1.6	-0.1
0.5	0.2	3.1	2.8	3.5	1.9	4.9	3.8	2.8	2.8	2.0	-0.1
0.1	0.2	2.8	1.4	4.9	3.6	5.0	3.3	0.2	3.0	1.8	0.7
0.5	1.0	2.5	2.1	5.4	4.6	6.1	2.3	1.4	2.2	1.5	1.4
0.4	2.7	0.1	2.5	6.1	5.9	3.4	3.1	2.4	0.6	1.5	1.0
0.2	2.2	1.1	1.7	4.9	6.6	4.6	4.3	3.6	0.8	1.3	0.6
1.8	2.1	1.9	2.7	4.1	6.9	4.5	5.2	4.4	2.1	1.4	0.9
0.5	0.9	2.7	3.6	4.4	7.6	4.9	6.0	4.9	2.2	1.6	0.3
0.5	1.6	1.7	3.1	5.1	5.3	4.2	4.6	4.1	2.8	1.6	1.1
0.4	1.2	0.7	3.3	5.7	4.0	5.7	2.3	3.5	2.8	0.3	0.8
0.7	0.2	1.5	3.8	5.6	3.5	5.6	2.1	3.4	1.4	1.4	0.4
1.6	0.8	2.3	0.6	5.7	4.5	3.2	3.2	3.7	0.0	1.0	0.0
1.9	1.3	3.0	1.4	5.0	5.1	5.2	4.7	3.4	1.3	0.9	0.8
1.9	0.9	0.6	1.3	6.2	5.6	5.7	3.6	2.7	0.6	1.5	0.8
1.7	2.5	2.8	2.1	6.4	6.5	6.0	3.9	3.3	0.8	1.5	1.0
1.8	0.6	3.7	2.9	6.3	6.6	5.7	4.7	3.8	0.7	1.3	0.0
-0.1	-77.0	2.5	1.9	5.0	5.9	4.4	5.0	2.4	0.4	1.9	0.1
-0.1	-77.0	3.4	3.4	4.6	4.8	2.7	4.6	3.2	0.5	1.8	0.1
0.7	-77.0	3.8	-77.0	4.4	-77.0	2.4	1.6	-77.0	0.9	-77.0	0.1

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

Jan_2016	Fev_2016	Mar_2016	Abr_2016	Mai_2016	Jun_2016	Jul_2016	Ago_2016	Set_2016	Out_2016	Nov_2016	Dez_2016
0.0	2.1	2.5	3.0	4.7	5.5	4.4	4.7	4.6	3.0	2.3	0.4
0.3	2.0	1.2	1.4	5.3	4.2	5.6	5.0	4.7	2.9	2.0	0.7
0.0	1.8	2.7	0.7	6.2	4.6	5.8	3.7	5.3	3.3	1.7	0.2
-0.1	1.9	0.6	0.6	5.0	4.4	4.5	2.1	5.7	3.1	0.8	0.6
0.3	1.4	0.9	2.2	0.4	4.1	4.8	5.0	6.2	3.0	0.4	1.7
0.0	0.6	1.3	3.3	0.0	3.6	4.6	6.7	6.7	3.1	1.8	1.5
0.0	0.8	1.4	3.3	0.2	4.8	3.5	8.0	3.9	2.8	1.5	1.2
0.0	0.7	2.3	2.6	1.6	5.3	5.8	7.3	3.7	2.3	1.4	1.5
0.2	0.0	0.2	0.6	1.2	3.7	6.2	6.0	4.0	2.6	0.7	1.8
0.0	-0.1	2.2	1.6	1.8	2.7	5.6	5.7	3.7	2.5	1.2	0.9
0.7	0.4	2.7	2.1	0.5	4.6	5.7	6.3	3.7	1.5	0.9	1.4
0.5	-0.1	3.0	2.0	1.2	4.6	5.5	7.1	3.8	0.5	0.5	1.3
0.9	0.0	3.1	2.1	1.0	1.9	5.8	7.0	2.7	1.0	1.5	0.9
0.0	0.8	2.8	0.4	1.1	2.6	6.2	5.0	2.7	2.2	2.1	0.5
1.2	1.5	0.3	0.7	3.0	2.0	6.4	3.9	1.3	1.5	2.3	0.3
1.1	1.8	2.2	1.9	3.0	1.8	6.6	3.8	3.2	1.2	2.3	0.2
0.5	0.7	2.4	1.8	2.9	3.3	6.3	2.7	3.7	0.9	1.7	1.0
0.4	1.5	0.3	2.9	2.6	4.3	5.9	4.6	4.5	2.0	0.3	1.6
0.4	2.0	0.5	1.0	3.8	5.0	5.4	1.1	4.5	1.7	0.7	1.2
0.4	2.8	0.9	2.0	4.5	5.3	5.4	4.3	3.2	1.1	-0.1	1.2
0.1	2.9	1.6	1.4	1.7	6.0	5.5	5.3	2.8	0.8	0.6	1.0
0.0	2.4	2.1	2.6	3.6	4.7	4.6	6.9	2.2	0.6	1.2	1.1
0.8	0.8	2.3	2.9	3.6	4.1	5.9	5.0	3.5	1.2	1.2	1.1
0.8	0.3	3.2	3.3	1.8	2.6	6.4	3.7	2.9	1.2	0.6	0.9
-0.1	0.7	1.6	4.2	2.5	4.0	6.5	3.6	2.6	1.3	0.2	1.3
0.8	0.0	0.4	3.1	3.8	5.3	5.5	4.5	3.0	3.1	0.5	1.5
0.5	0.7	2.5	1.8	3.1	5.8	5.1	3.8	3.9	2.9	0.6	1.7
0.5	1.7	0.2	3.3	2.2	5.8	5.6	4.2	5.0	3.2	0.9	2.2
1.0	2.5	1.8	2.8	1.4	5.1	5.4	4.3	5.1	2.6	0.9	1.9
1.0	-77.0	1.5	3.8	2.5	4.6	3.2	4.1	3.9	3.2	1.2	1.7
0.8	-77.0	2.5	-77.0	4.5	-77.0	4.5	3.5	-77.0	3.5	-77.0	2.0
Jan_2017	Fev_2017	Mar_2017	Abr_2017	Mai_2017	Jun_2017	Jul_2017	Ago_2017	Set_2017	Out_2017	Nov_2017	Dez_2017
1.0	0.7	0.3	2.2	3.5	3.2	5.0	4.4	4.8	3.5	1.6	0.9
0.5	0.4	1.1	3.0	4.7	4.3	6.5	4.9	5.6	4.7	0.1	1.3
0.1	0.4	0.3	3.5	5.7	3.2	8.0	5.3	4.8	3.6	0.5	1.6
0.5	0.1	1.4	3.6	4.0	3.8	7.0	5.5	2.3	2.8	0.6	1.6
1.2	1.6	0.1	4.6	2.4	4.0	2.1	3.4	3.3	3.4	1.4	1.5
1.6	1.8	0.2	4.5	2.8	3.6	2.0	4.8	4.5	5.0	1.9	1.6
2.0	1.3	2.2	4.6	4.7	5.6	1.2	3.3	5.5	4.5	1.8	1.4
1.8	1.9	3.2	4.8	4.8	4.5	0.4	4.1	3.7	4.9	1.5	0.0
1.7	1.5	4.4	4.8	2.2	4.7	2.5	4.6	2.8	3.3	1.8	-0.1
0.5	0.3	4.6	4.9	0.6	5.0	3.8	5.6	3.7	3.5	1.8	0.0
1.3	1.2	2.0	5.2	1.5	4.8	4.7	6.6	3.9	4.7	1.7	0.4



Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.1	0.5	2.2	4.7	2.3	5.2	5.4	6.9	3.8	4.2	1.3	0.9
1.5	0.9	3.2	2.8	2.2	5.2	5.2	6.0	3.6	2.7	1.4	0.0
1.4	0.4	2.4	3.3	1.8	5.1	5.0	4.5	3.6	3.7	2.0	-0.1
1.6	1.7	3.9	3.3	3.5	3.9	5.4	3.8	3.5	5.9	2.2	0.2
1.6	3.0	3.7	3.5	4.3	5.6	5.8	5.1	3.6	2.3	2.0	1.0
1.9	2.6	3.9	3.8	3.1	7.2	4.4	4.9	3.0	1.8	1.9	1.2
2.2	0.6	4.3	2.4	3.8	7.3	3.3	4.8	2.2	1.4	2.1	1.3
1.4	2.2	2.7	4.9	4.1	5.9	1.8	5.3	3.1	0.4	2.5	1.5
1.3	2.9	1.4	4.0	5.4	6.7	3.9	6.8	3.4	0.2	2.8	1.7
1.6	3.3	1.8	5.1	5.5	5.0	4.7	5.8	2.7	1.5	2.6	1.3
1.5	3.2	0.8	4.6	4.4	3.9	4.6	4.5	2.6	2.2	1.9	1.1
1.6	1.7	0.9	4.1	5.7	5.0	4.8	4.7	3.2	2.7	1.1	1.2
1.7	1.9	1.2	3.2	6.5	3.1	4.1	3.9	3.7	3.3	0.3	1.0
1.7	1.6	1.2	1.7	5.0	2.2	5.5	4.5	2.9	3.4	0.1	0.1
-0.1	1.5	0.1	2.9	1.2	2.9	5.8	4.0	3.3	3.0	1.4	0.0
0.3	0.4	0.9	4.5	2.3	2.8	4.7	2.6	4.0	3.9	1.6	0.6
0.4	0.3	2.2	5.0	2.1	2.6	4.9	1.5	3.7	3.5	0.0	-0.1
0.0	-77.0	3.5	2.5	2.0	2.7	4.4	2.3	3.5	3.6	1.0	-0.1
0.2	-77.0	3.0	1.9	3.8	3.8	4.8	1.7	2.4	2.9	1.2	0.7
0.1	-77.0	2.6	-77.0	3.6	-77.0	2.5	4.1	-77.0	3.0	-77.0	0.4
Jan_2018	Fev_2018	Mar_2018	Abr_2018	Mai_2018	Jun_2018	Jul_2018	Ago_2018	Set_2018	Out_2018	Nov_2018	Dez_2018
0.3	1.1	0.2	3.0	3.4	2.4	2.1	5.6	6.5	4.0	1.1	0.4
0.0	1.2	0.4	1.0	1.8	2.7	1.4	7.2	5.2	5.4	0.0	0.4
-0.1	0.7	0.2	1.2	2.9	1.4	2.7	7.5	1.9	5.5	0.0	0.0
0.1	1.0	0.6	1.3	4.5	0.8	3.3	7.3	1.9	5.2	0.1	1.1
-0.1	1.4	0.4	2.8	5.0	1.0	3.9	6.4	2.7	4.8	0.6	1.0
0.7	1.6	1.4	0.3	5.0	1.8	3.2	4.1	3.4	3.7	0.2	0.8
0.6	1.7	1.0	1.4	3.4	0.8	3.1	4.2	3.1	3.4	1.0	0.1
0.9	1.3	0.4	0.8	1.0	1.5	4.0	2.6	3.4	4.5	0.4	0.8
-0.1	0.4	0.1	0.3	0.6	1.9	3.9	4.0	3.9	4.2	0.5	0.9
0.3	1.4	1.2	0.4	4.0	0.1	3.0	4.7	4.4	2.7	0.0	2.6
0.7	0.1	0.6	1.7	3.1	2.4	4.2	5.0	5.7	2.1	-0.1	0.5
0.8	1.4	1.8	0.5	2.6	1.4	2.3	3.9	5.4	2.0	1.0	0.3
0.3	0.3	1.7	1.4	2.7	3.8	4.0	3.8	5.1	3.2	1.1	0.5
0.2	0.1	0.1	2.2	2.8	3.6	3.0	4.8	4.2	1.1	1.5	0.4
1.0	0.2	0.5	0.6	4.7	1.1	2.8	5.0	4.2	0.4	1.2	0.1
0.0	1.2	1.2	2.6	5.8	3.6	3.6	4.0	4.0	1.6	1.5	0.3
0.7	1.3	0.7	4.0	4.4	5.1	4.2	4.3	4.6	0.8	0.7	0.7
1.1	2.1	1.5	4.9	2.5	6.9	2.0	5.9	3.1	1.4	0.0	0.1
0.9	1.4	0.9	3.9	4.8	6.4	2.7	6.7	3.7	1.3	0.6	0.3
0.1	2.3	2.0	4.9	3.9	4.7	3.4	6.8	2.4	2.3	0.1	0.2
0.2	2.5	2.8	1.6	3.4	3.1	4.3	6.0	3.5	1.3	0.5	0.4
0.9	2.5	2.6	2.3	3.6	4.1	4.4	5.4	3.8	1.9	0.6	0.7
0.8	2.8	0.1	3.7	4.6	5.2	4.0	4.3	4.3	2.6	0.4	0.8

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

### ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.8	2.9	1.3	4.4	0.1	4.3	2.6	4.9	5.1	2.9	0.3	1.2
0.3	2.8	1.9	2.9	2.4	3.5	0.6	4.3	5.3	2.5	0.2	1.5
0.7	2.5	2.7	3.6	2.0	4.7	4.2	4.7	4.8	1.5	0.9	1.2
1.1	0.4	3.0	1.1	1.5	4.5	4.1	1.8	4.3	1.9	1.0	0.1
1.6	0.1	1.1	1.8	2.5	3.3	4.2	0.3	3.8	1.7	1.0	0.6
2.4	-77.0	1.5	1.5	1.3	2.5	4.5	3.1	3.1	1.1	-0.1	1.1
2.3	-77.0	1.0	1.7	0.7	1.6	3.9	4.2	2.6	0.4	0.7	1.7
1.8	-77.0	2.5	-77.0	1.3	-77.0	4.5	5.7	-77.0	0.0	-77.0	1.7
Jan_2019	Fev_2019	Mar_2019	Abr_2019	Mai_2019	Jun_2019	Jul_2019	Ago_2019	Set_2019	Out_2019	Nov_2019	Dez_2019
1.4	0.4	2.1	1.7	3.5	7.5	4.5	4.6	3.7	2.3	0.0	0.0
0.9	1.2	2.9	2.9	4.7	6.3	2.8	4.4	4.9	2.8	0.2	1.2
1.1	1.4	2.0	2.6	5.1	4.2	4.8	4.6	6.0	2.7	1.0	0.9
1.1	1.8	1.1	1.7	5.9	2.4	3.0	4.3	5.6	2.1	0.0	0.8
1.3	1.9	0.4	0.9	4.5	3.2	4.2	4.8	6.1	2.6	0.6	0.9
1.7	2.1	1.0	1.0	2.4	1.3	3.6	2.3	5.8	2.8	0.1	0.7
1.9	1.0	0.6	0.4	0.9	3.6	3.3	1.8	5.8	2.6	0.9	1.1
1.7	0.5	2.3	1.5	2.8	4.2	3.2	2.7	5.7	2.7	1.0	0.1
1.5	0.6	2.5	1.1	0.4	4.3	5.1	3.5	3.1	2.6	0.0	1.6
1.4	0.0	2.9	1.8	3.3	4.5	6.0	4.1	3.7	3.0	0.1	1.1
1.5	1.5	3.0	2.5	4.8	4.1	7.3	3.4	4.8	3.0	0.0	0.9
1.1	2.7	2.8	3.3	7.4	4.7	3.4	4.5	5.7	1.8	0.5	-0.1
1.1	2.5	2.8	1.0	7.3	4.6	3.3	4.7	5.1	1.6	0.5	-0.1
1.2	2.4	3.0	1.4	6.8	2.1	4.7	4.7	3.6	1.0	0.3	0.2
0.8	2.2	3.3	1.3	5.0	4.2	3.7	4.8	3.2	1.6	1.0	0.0
-0.1	2.7	3.2	3.1	1.8	4.1	2.8	4.3	3.4	1.2	1.1	-0.1
0.6	2.0	1.6	0.2	2.6	3.4	2.7	4.5	3.9	0.5	-0.1	0.7
0.3	-0.1	3.1	1.6	3.0	1.5	4.5	1.6	2.9	1.0	0.9	-0.1
-0.1	1.7	3.0	1.5	4.1	1.6	4.6	2.7	2.4	0.1	0.2	-0.1
0.9	1.5	3.4	4.2	3.9	1.9	4.2	4.9	1.6	1.1	0.2	-0.1
1.0	2.0	3.0	4.7	3.3	4.5	4.9	5.9	0.3	1.7	0.3	0.3
0.0	2.4	3.2	2.0	4.0	4.5	4.7	6.4	2.0	2.0	0.1	0.1
-0.1	2.7	3.4	1.0	3.1	0.9	3.8	6.1	2.9	0.7	0.7	0.0
0.0	2.3	3.4	0.6	4.6	1.2	4.8	4.3	1.3	1.3	0.3	1.2
1.3	2.4	3.6	1.8	5.4	2.8	1.9	2.1	2.5	2.6	0.2	1.1
2.0	2.6	3.8	2.4	5.5	1.6	3.7	2.9	3.0	2.6	0.0	0.5
0.8	1.8	4.3	3.8	3.7	4.4	1.6	3.8	3.0	1.6	0.2	1.7
0.0	2.0	3.5	4.5	5.5	4.9	4.5	3.0	2.4	0.1	0.4	2.4
0.0	-77.0	3.5	4.1	7.1	3.5	3.8	4.1	2.8	0.7	0.0	2.4
0.1	-77.0	2.9	3.5	7.8	3.1	4.9	4.4	2.9	0.0	0.0	1.2
-0.1	-77.0	2.7	-77.0	7.7	-77.0	3.9	3.2	-77.0	0.0	-77.0	0.6
Jan_2020	Fev_2020	Mar_2020	Abr_2020	Mai_2020	Jun_2020	Jul_2020	Ago_2020	Set_2020	Out_2020	Nov_2020	Dez_2020
1.0	0.2	0.0	0.4	1.6	3.1	3.5	4.7	4.5	1.5	0.2	1.5
0.4	1.3	1.0	2.8	3.8	3.3	4.9	4.3	5.2	1.1	0.1	1.5
0.8	1.6	0.0	3.4	5.3	2.6	5.0	4.5	6.4	1.7	1.4	1.1

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

### ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.6	1.0	0.5	1.8	2.5	3.5	5.7	5.3	5.8	1.8	0.9	0.0
0.9	2.6	0.7	0.1	2.6	4.4	6.9	5.5	5.0	1.3	0.5	0.4
0.8	1.7	1.4	0.3	3.7	3.1	6.4	5.5	5.5	1.6	0.1	0.0
1.0	1.0	2.4	2.1	4.1	3.0	5.7	4.5	5.9	2.4	0.5	0.1
1.0	0.3	0.9	1.4	1.3	4.7	4.9	4.5	6.2	2.3	0.2	0.2
0.2	0.7	2.1	0.5	1.1	4.7	5.0	4.1	6.1	1.8	0.7	0.0
1.0	0.9	2.7	1.1	2.2	4.2	5.0	1.8	5.6	2.8	1.3	-0.1
1.4	1.2	3.6	2.0	1.8	1.2	5.4	2.4	4.9	3.4	1.1	0.0
1.2	0.0	2.0	2.0	2.3	2.2	6.4	3.7	5.1	3.3	1.2	0.0
0.7	0.7	1.6	1.1	0.6	2.0	7.0	4.5	4.3	1.4	1.0	0.0
0.4	1.5	2.6	2.1	2.0	2.3	6.2	4.4	2.9	2.0	0.4	0.0
0.2	1.3	1.1	1.4	2.2	3.6	7.1	3.4	3.1	2.2	0.3	0.4
0.2	0.2	1.7	1.0	3.8	3.6	8.2	2.5	2.9	2.2	1.1	0.0
0.5	1.1	3.1	1.9	5.0	3.5	8.2	2.3	2.2	2.1	0.8	0.9
0.1	1.7	3.4	2.7	4.8	4.3	7.6	3.4	1.1	2.5	1.2	0.5
1.7	2.1	2.1	2.2	4.7	4.8	5.2	4.9	0.6	0.6	2.1	0.4
1.9	2.3	-0.1	0.8	3.0	5.0	4.9	0.9	1.6	-0.1	1.3	0.4
1.2	2.7	1.4	1.2	3.6	4.8	4.8	2.7	2.2	0.8	2.2	0.0
0.6	3.0	2.0	1.5	4.4	5.8	6.6	4.4	1.6	1.3	1.9	0.6
0.0	3.8	2.1	2.7	4.9	4.9	5.2	4.6	1.4	1.2	1.5	0.0
0.4	3.1	2.5	2.2	4.9	1.6	5.0	5.1	1.5	0.4	1.0	0.7
0.9	0.4	2.7	0.7	4.8	2.4	5.2	4.8	2.5	0.2	0.0	1.0
0.4	1.7	1.8	0.7	6.3	3.6	4.0	4.5	2.3	1.2	0.6	1.2
0.0	1.7	2.6	2.2	6.9	2.8	4.7	3.5	2.3	0.4	0.8	0.4
-0.1	2.7	3.4	1.9	7.1	5.0	4.6	3.8	2.6	1.2	0.4	0.4
0.0	0.9	2.9	1.5	6.3	4.6	5.3	3.6	3.2	1.4	0.5	0.2
0.1	-77.0	0.5	2.7	4.0	5.0	5.3	4.5	2.4	1.9	0.8	0.6
0.1	-77.0	0.1	-77.0	3.7	-77.0	5.3	5.9	-77.0	1.4	-77.0	0.0

#### 2.2.13 CEDILHO

Tabela 26. Evapotranspiração de referência diária na região de cálculo de Cedilho (mm)

Jan_2003	Fev_2003	Mar_2003	Abr_2003	Mai_2003	Jun_2003	Jul_2003	Ago_2003	Set_2003	Out_2003	Nov_2003	Dez_2003
-0.1	1.8	0.0	3.8	4.1	4.5	3.9	7.3	3.7	0.9	1.9	0.8
0.2	1.6	0.7	3.2	4.3	4.7	3.8	7.0	3.6	2.1	1.1	1.1
0.8	1.6	1.9	4.5	5.3	2.6	5.9	6.4	3.8	1.8	1.3	0.2
0.6	1.5	1.8	4.1	3.2	3.2	6.2	5.8	4.0	3.4	0.7	0.9
0.1	1.9	1.8	4.0	2.4	5.5	6.1	6.0	4.4	4.1	0.9	-0.1
1.1	1.7	2.3	4.6	4.0	6.5	5.8	6.9	4.9	3.9	2.0	-0.1
0.4	0.2	1.3	5.2	3.1	6.9	6.7	7.0	4.6	4.2	1.0	0.2
0.4	1.7	2.9	4.6	4.7	6.9	7.6	7.9	4.1	4.1	1.2	-0.1
0.8	1.6	2.7	3.0	4.8	6.5	7.6	7.2	5.3	3.8	-0.1	0.1
1.6	1.5	3.2	1.8	5.3	6.4	7.6	6.3	6.2	3.3	0.4	1.2

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

1.6	0.4	3.4	2.1	5.4	5.7	7.1	6.5	7.1	0.6	1.3	0.7
1.4	0.9	2.9	0.5	6.0	7.3	4.3	7.3	7.3	1.9	0.2	1.1
1.5	2.1	3.3	0.3	5.9	7.3	3.2	6.8	6.5	2.0	0.7	1.1
1.2	1.8	2.7	1.1	6.1	6.1	4.0	8.2	7.7	1.9	0.2	1.0
1.2	2.1	2.9	1.6	5.9	5.9	3.6	5.2	5.6	0.5	0.2	0.7
1.3	2.0	2.4	2.4	5.4	5.1	5.4	5.1	5.4	1.9	2.1	0.9
1.0	1.4	1.3	2.8	5.2	5.9	6.3	4.9	5.7	1.1	2.6	0.1
-0.1	-0.1	2.0	1.6	4.9	7.9	6.6	5.8	6.1	0.2	2.1	0.5
0.9	0.3	2.6	1.6	5.3	9.1	6.0	6.1	5.0	1.3	1.9	0.0
0.0	0.7	3.8	1.7	6.5	8.1	5.8	6.0	3.9	1.3	1.3	0.4
0.7	0.4	4.3	3.2	7.2	6.4	5.5	5.4	3.1	1.5	0.3	0.7
0.6	0.8	2.6	1.9	7.0	5.9	6.1	5.5	3.2	2.3	-0.1	1.8
1.7	0.7	0.7	1.7	7.3	5.8	6.4	5.6	3.9	2.3	0.7	1.6
2.5	0.0	1.9	1.9	6.2	3.8	6.5	5.0	4.2	1.8	0.5	1.4
3.4	0.6	0.3	0.8	5.9	5.9	6.6	5.4	4.2	0.4	1.6	1.0
2.8	0.2	0.5	3.8	6.5	6.0	6.0	5.7	3.5	1.1	0.1	0.4
2.9	0.9	1.4	3.3	7.0	6.6	6.2	1.5	4.1	0.5	1.3	0.2
2.6	1.2	1.8	1.1	6.8	5.8	7.2	1.4	2.7	1.0	0.3	1.1
2.4	-77.0	0.8	1.9	6.6	3.0	8.6	3.4	2.2	1.5	0.0	0.6
2.1	-77.0	1.2	3.2	3.3	3.6	7.8	3.5	0.7	0.4	0.2	0.7
2.2	-77.0	2.8	-77.0	5.7	-77.0	7.5	3.1	-77.0	0.5	-77.0	0.5
Jan_2004	Fev_2004	Mar_2004	Abr_2004	Mai_2004	Jun_2004	Jul_2004	Ago_2004	Set_2004	Out_2004	Nov_2004	Dez_2004
0.4	0.0	1.9	1.4	2.7	6.5	7.8	6.9	3.8	4.0	2.1	0.4
1.5	0.3	2.6	1.7	2.8	6.9	8.2	5.7	2.3	4.1	0.6	0.5
1.3	1.5	2.4	1.9	3.2	7.8	7.8	4.5	3.4	4.4	-0.1	1.2
1.4	1.2	2.8	3.4	4.0	7.7	7.5	6.0	3.7	4.6	1.4	1.0
1.3	1.9	1.4	3.7	0.8	5.4	6.7	6.1	3.1	4.3	1.7	1.4
1.0	1.6	1.5	4.5	3.0	5.8	6.4	6.2	3.6	2.2	2.1	1.1
0.5	0.7	2.3	4.1	3.6	5.4	5.2	6.0	4.0	3.9	1.9	0.9
0.0	1.6	2.5	3.5	4.6	5.9	5.4	1.5	3.2	1.8	2.0	1.1
0.6	1.6	2.0	4.5	1.4	5.7	6.3	1.9	4.1	1.5	2.2	0.8
0.8	1.9	1.7	4.2	2.0	6.4	5.4	2.5	3.1	1.1	2.5	0.9
0.9	2.4	0.5	4.0	2.7	7.1	6.7	2.2	4.2	1.0	2.3	0.9
0.6	2.5	0.2	4.1	4.0	7.4	7.7	5.0	5.1	2.7	2.4	1.2
0.3	2.2	1.8	4.6	5.2	7.7	8.3	5.9	4.3	2.8	2.7	0.3
0.3	1.5	3.0	4.3	6.0	8.7	8.0	6.3	3.4	2.0	3.1	1.1
0.1	1.4	3.6	4.7	5.7	7.7	6.8	5.9	5.3	1.9	2.6	1.2
1.0	1.3	2.9	3.4	6.5	7.6	6.7	3.7	5.3	2.0	2.0	1.1
1.0	1.4	2.5	2.9	6.3	7.6	6.3	3.0	5.5	1.1	1.5	1.1
1.8	1.5	2.8	1.7	6.6	6.7	6.3	2.8	4.8	0.2	1.4	1.2
2.4	2.5	3.3	2.4	6.9	5.5	4.8	3.6	4.5	0.2	1.4	0.9
2.3	1.9	3.6	1.8	5.4	5.9	6.2	4.6	4.2	1.0	1.7	1.4
1.9	2.1	3.2	1.1	2.9	5.0	5.9	6.1	4.7	1.2	1.1	1.3
1.6	0.1	3.8	2.9	2.5	5.2	5.4	5.7	5.8	2.0	1.2	1.6

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

1.4	0.0	3.2	4.8	2.6	3.6	5.8	5.9	4.6	2.1	1.3	1.6
1.4	0.0	1.4	5.2	2.1	5.8	6.8	6.0	3.6	0.2	1.3	1.1
0.6	0.0	3.7	5.5	3.1	6.4	9.3	6.7	5.9	0.4	1.2	1.4
0.3	2.1	3.3	5.7	4.5	7.9	8.5	6.0	5.9	1.5	1.2	1.6
0.5	1.8	2.4	5.4	5.4	8.1	8.3	6.2	5.5	1.1	0.8	1.6
1.7	1.3	1.3	3.6	4.8	8.2	7.2	6.8	5.0	0.6	0.2	0.4
0.9	1.4	0.5	4.4	4.4	8.6	6.3	5.9	4.9	0.6	0.3	1.5
-0.1	-77.0	1.4	2.8	5.3	8.9	6.2	5.4	4.4	1.3	0.3	2.1
-0.1	-77.0	1.5	-77.0	6.1	-77.0	6.2	4.5	-77.0	0.5	-77.0	1.3
Jan_2005	Fev_2005	Mar_2005	Abr_2005	Mai_2005	Jun_2005	Jul_2005	Ago_2005	Set_2005	Out_2005	Nov_2005	Dez_2005
1.2	2.0	2.3	1.5	2.1	6.6	7.3	6.5	5.7	5.6	0.3	0.2
1.3	2.4	2.0	1.0	3.5	6.6	8.7	8.4	6.4	6.3	1.3	0.4
1.4	2.1	2.3	1.0	3.5	7.0	8.0	8.6	6.5	4.9	0.0	0.5
1.1	1.9	3.1	2.3	5.2	6.8	6.7	9.4	7.0	4.8	2.0	0.2
1.0	1.1	2.9	3.4	6.4	8.0	8.2	7.8	4.8	5.0	2.2	1.1
1.4	0.8	2.5	3.1	6.1	8.6	8.2	7.7	2.8	4.6	2.2	1.1
1.6	0.7	3.2	3.7	5.9	9.4	7.4	7.4	3.8	4.0	1.9	1.2
1.1	1.7	3.0	4.2	4.3	7.7	8.4	5.3	4.9	3.3	1.4	1.2
1.2	2.0	3.3	4.3	4.2	6.9	7.5	4.1	1.9	1.7	1.9	1.9
0.8	2.2	2.3	4.6	3.3	6.7	8.2	3.4	3.4	0.2	2.2	2.3
1.0	2.1	2.8	4.9	1.8	6.0	7.2	5.1	3.9	1.1	2.0	2.0
0.9	2.2	1.9	4.4	2.4	4.7	6.5	7.4	4.6	0.9	1.2	3.0
0.1	2.7	1.0	4.3	2.6	3.0	7.2	7.2	5.8	2.4	0.4	1.7
0.1	3.2	1.6	3.0	3.6	5.1	7.0	7.7	6.2	1.0	1.1	1.6
0.1	2.6	3.1	3.0	3.9	6.4	7.4	8.0	5.7	1.5	0.8	1.6
1.3	2.7	2.9	3.4	2.4	7.6	7.0	5.5	4.7	2.5	1.3	1.4
1.6	2.8	4.4	1.8	4.6	8.4	6.1	6.0	5.0	0.1	0.7	1.7
1.8	2.5	4.5	2.6	5.4	7.9	6.7	6.8	5.7	2.0	0.3	1.6
1.8	2.8	2.5	2.6	6.2	5.5	8.3	6.8	5.3	2.7	0.0	1.3
2.3	2.7	1.7	2.2	6.6	7.7	8.6	8.4	5.7	0.1	0.4	1.1
1.7	1.9	0.1	3.6	3.6	8.2	8.2	8.0	5.5	0.0	0.8	1.6
1.7	0.8	2.5	3.2	4.6	7.4	5.8	7.3	5.3	0.5	0.6	1.8
1.3	0.6	0.8	1.5	5.8	6.1	7.2	6.8	4.6	2.1	1.7	1.3
2.1	1.6	2.0	2.2	7.2	4.8	5.7	6.8	4.0	2.3	2.3	0.2
1.8	2.5	1.7	4.1	6.9	5.6	5.6	6.5	3.9	1.9	0.6	0.0
1.6	1.4	1.9	4.8	6.7	5.7	4.2	6.0	5.0	3.1	0.7	-0.1
1.9	1.7	1.8	5.4	5.8	5.3	3.9	6.2	4.7	0.4	0.6	0.6
1.8	2.8	0.5	5.3	4.8	4.9	4.5	5.8	4.9	0.5	0.1	0.6
1.5	-77.0	1.8	5.6	3.0	5.0	5.5	6.2	4.8	0.8	1.3	0.8
2.4	-77.0	3.2	4.9	4.3	6.3	6.5	6.1	5.4	0.0	1.5	0.5
2.2	-77.0	4.1	-77.0	4.5	-77.0	7.2	5.2	-77.0	0.3	-77.0	0.3
Jan_2006	Fev_2006	Mar_2006	Abr_2006	Mai_2006	Jun_2006	Jul_2006	Ago_2006	Set_2006	Out_2006	Nov_2006	Dez_2006
0.9	1.5	2.8	3.3	5.4	5.2	5.9	6.9	6.5	2.0	1.6	1.0
1.3	1.3	2.2	3.8	4.7	6.7	5.4	6.6	6.7	2.2	0.2	0.2

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

1.6	0.6	0.6	3.4	3.4	8.5	5.7	7.3	6.7	2.2	0.1	0.1
1.7	2.2	0.7	3.3	4.1	8.3	5.4	8.9	7.5	1.5	-0.1	0.3
0.9	2.5	2.6	1.1	4.5	8.1	6.0	8.6	7.2	3.3	-0.1	0.1
0.7	2.0	2.3	0.9	4.8	7.7	7.2	9.0	6.9	3.2	0.3	0.8
0.7	2.3	1.9	1.4	3.9	7.2	7.7	8.2	5.8	2.6	0.5	0.0
0.9	1.7	2.6	3.0	4.4	6.3	7.9	8.9	5.5	2.9	0.4	1.1
1.0	1.4	1.5	3.3	5.6	4.4	7.6	8.1	5.2	2.7	1.5	1.1
1.3	1.4	2.6	4.0	5.8	5.4	6.6	8.2	5.5	1.8	2.0	1.5
1.3	2.0	3.0	4.4	5.4	6.2	7.3	8.4	3.8	2.4	2.1	1.4
1.0	2.2	3.3	4.3	4.7	6.0	7.1	8.4	4.5	3.6	1.8	1.2
0.7	2.2	3.5	4.7	5.8	4.1	6.5	7.4	1.7	3.8	1.8	1.4
0.5	1.7	3.7	1.5	5.4	2.4	7.4	5.6	2.9	3.7	1.6	1.3
-0.1	1.6	3.4	2.0	4.9	4.6	7.4	5.3	3.5	1.4	0.1	1.2
0.9	1.3	0.9	2.0	5.7	3.1	7.9	1.7	4.5	0.2	0.9	1.0
0.5	1.1	0.0	3.6	5.4	3.4	7.4	3.6	4.6	1.3	0.6	0.9
1.3	0.7	0.6	3.6	5.9	5.2	5.2	2.8	4.7	0.5	0.1	1.2
1.5	0.8	1.4	4.3	5.8	6.3	6.4	4.3	4.9	0.5	0.9	1.3
1.3	0.9	0.8	2.6	5.6	6.1	6.4	6.6	4.7	0.5	0.9	0.9
1.2	1.9	1.4	3.0	4.6	6.9	7.1	7.6	1.4	0.8	0.6	1.5
1.1	2.1	1.4	2.0	4.5	7.9	7.1	7.2	1.9	0.2	0.8	1.5
1.2	1.9	0.1	4.2	5.2	7.6	7.1	7.5	2.1	0.6	0.1	1.2
0.7	2.2	1.1	5.1	6.3	5.5	6.2	7.2	1.1	0.3	0.1	1.4
1.4	0.1	1.0	5.2	6.9	5.6	6.8	6.9	2.4	0.3	0.6	1.5
1.3	1.4	2.7	5.1	8.0	4.8	6.7	6.6	4.3	0.2	0.6	1.3
1.8	2.5	2.1	5.4	7.9	5.7	6.3	7.0	3.8	1.8	0.6	1.4
1.6	2.7	3.2	5.9	7.2	5.6	6.8	7.2	1.8	3.1	0.5	1.2
0.6	-77.0	0.9	5.5	7.0	6.0	7.5	7.9	0.6	3.4	1.4	0.2
1.4	-77.0	2.8	5.6	6.8	6.7	7.1	8.0	1.0	1.7	1.2	-0.1
2.0	-77.0	3.1	-77.0	7.3	-77.0	7.0	7.7	-77.0	1.0	-77.0	0.4
Jan_2007	Fev_2007	Mar_2007	Abr_2007	Mai_2007	Jun_2007	Jul_2007	Ago_2007	Set_2007	Out_2007	Nov_2007	Dez_2007
0.6	1.4	2.0	2.7	1.9	5.5	5.0	5.7	6.2	1.3	2.8	0.4
1.1	1.2	1.3	1.0	0.9	6.1	6.1	7.3	6.2	0.2	3.0	1.0
1.0	0.0	1.3	1.2	3.1	5.7	5.3	8.4	5.8	0.3	2.8	1.1
1.1	0.5	0.5	2.7	3.4	7.0	6.7	7.2	7.1	1.9	2.8	1.3
1.2	1.0	2.2	2.9	5.2	7.0	8.7	5.7	7.4	2.4	2.6	1.1
1.0	1.4	0.4	2.9	5.7	6.9	8.2	4.3	6.4	2.5	3.3	1.0
0.3	0.3	2.4	2.6	5.8	6.1	7.5	5.7	5.5	2.6	3.1	1.1
0.3	0.8	3.2	2.1	6.3	3.0	7.5	7.4	4.5	3.5	2.5	1.2
0.1	1.7	3.4	1.9	6.0	4.7	7.5	7.3	2.3	3.9	2.9	1.1
0.2	1.2	4.1	1.9	5.9	2.9	7.9	7.2	3.7	3.8	2.8	1.5
1.1	0.2	4.7	1.4	4.5	5.3	7.7	5.2	5.2	3.7	2.0	1.5
1.4	1.9	2.7	2.4	4.0	5.5	7.9	5.2	3.3	3.4	2.2	1.2
1.2	0.1	3.5	2.7	3.9	3.4	7.9	4.8	3.0	3.3	3.1	1.5
1.0	2.2	3.8	4.1	4.0	3.2	7.3	5.3	3.8	2.9	2.7	1.6

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

## ANEXO 8 – Necessidades Hídricas das Culturas

### ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.3	1.0	3.7	4.4	5.3	4.3	3.5	3.4	4.0	2.7	2.3	1.4
0.0	0.7	3.8	4.8	6.1	0.8	2.0	5.8	2.1	2.6	1.7	1.3
0.2	1.2	3.6	4.9	6.9	3.2	5.5	7.0	2.3	2.8	1.5	0.9
1.0	2.2	3.8	5.2	6.7	2.5	6.1	7.3	3.0	3.4	2.0	0.1
1.3	0.2	3.0	3.5	5.7	1.1	5.7	7.1	4.5	3.2	0.1	0.5
1.2	1.6	3.3	1.6	2.9	3.7	5.9	7.4	3.9	3.3	0.1	0.6
1.6	2.0	3.4	4.7	2.1	4.7	6.0	7.1	2.6	3.3	0.6	1.2
1.0	1.1	3.2	5.1	1.7	5.7	6.0	6.9	3.9	3.0	1.0	1.1
1.2	0.8	3.4	5.1	2.0	6.5	4.6	6.3	4.4	2.1	1.4	1.1
1.6	1.2	3.3	3.6	3.0	5.9	6.2	6.8	4.9	0.9	1.9	1.2
1.4	1.6	2.7	1.8	3.9	4.7	6.8	3.4	4.6	2.2	2.2	0.3
1.9	2.4	1.2	2.2	3.1	6.4	7.3	3.6	5.4	2.4	2.2	1.2
2.0	2.4	2.9	2.5	2.8	6.6	7.5	5.4	4.6	2.6	2.0	1.3
1.0	0.6	2.7	3.1	4.7	6.7	8.4	5.5	4.7	2.6	1.4	1.1
0.3	-77.0	3.6	3.9	5.2	6.3	8.6	3.7	1.1	2.7	1.4	1.0
0.2	-77.0	2.4	2.5	3.5	6.6	8.1	5.9	0.0	3.3	1.4	1.0
1.1	-77.0	1.5	-77.0	3.6	-77.0	7.3	6.8	-77.0	3.2	-77.0	0.9
Jan_2008	Fev_2008	Mar_2008	Abr_2008	Mai_2008	Jun_2008	Jul_2008	Ago_2008	Set_2008	Out_2008	Nov_2008	Dez_2008
0.1	0.6	2.6	4.3	4.5	3.9	7.4	6.2	5.3	3.9	0.5	0.7
0.4	0.3	2.7	4.9	4.9	4.3	5.5	7.7	4.6	3.4	2.0	1.5
0.0	0.1	2.0	5.4	4.6	5.2	6.2	8.2	4.1	4.5	1.5	0.3
0.7	0.6	3.7	5.8	4.3	5.2	6.1	7.8	2.8	3.9	0.5	0.4
-0.1	0.4	3.3	4.9	4.0	5.1	6.3	7.2	1.8	3.9	1.6	0.7
0.1	1.8	3.8	4.7	3.6	5.9	5.8	6.3	3.1	3.8	1.4	0.0
0.7	2.2	3.9	1.0	3.2	6.6	6.3	5.9	4.2	0.8	0.4	0.1
0.3	2.4	3.0	0.6	3.3	6.3	6.6	6.8	4.7	2.7	1.7	0.8
0.0	2.6	2.4	0.9	3.5	5.1	6.8	7.2	4.0	4.2	1.7	1.2
0.3	2.5	0.4	1.2	2.4	5.5	6.8	7.0	4.9	5.1	1.6	1.7
0.7	2.3	1.5	2.9	2.4	5.9	5.3	4.9	4.7	1.8	0.9	0.8
1.0	2.2	2.7	3.0	3.2	7.1	6.4	5.6	5.3	0.3	2.1	0.4
-0.1	2.1	3.0	2.1	3.0	7.1	6.8	6.7	5.5	1.7	2.1	0.4
0.6	1.9	2.7	3.4	2.7	7.4	7.8	5.5	5.6	2.8	2.6	1.0
0.0	1.9	2.8	3.8	1.2	5.8	7.7	5.0	5.4	3.0	2.1	1.5
1.0	1.5	2.7	3.6	3.8	2.5	6.9	3.0	3.7	2.9	2.1	1.4
0.1	0.6	1.7	1.5	4.4	4.7	6.6	5.4	3.5	1.8	2.4	1.3
1.2	0.1	1.4	2.0	3.0	6.5	7.6	5.8	3.5	2.0	2.2	1.4
1.6	0.4	0.8	1.1	3.8	6.7	7.3	5.8	4.3	2.3	2.4	1.7
1.6	0.9	3.4	1.1	2.9	7.2	5.7	6.3	3.3	1.3	2.1	1.6
1.5	1.5	3.5	2.6	3.4	7.2	6.7	5.1	2.2	2.1	2.2	1.8
2.3	1.7	2.1	2.2	2.1	7.3	7.7	5.0	2.0	2.3	2.9	1.9
2.2	0.6	3.2	3.1	1.9	6.3	6.8	7.0	2.3	3.3	2.5	1.4
1.5	0.4	3.1	4.6	2.2	6.4	6.1	6.7	3.2	3.4	1.5	1.2
1.3	1.8	3.0	5.5	2.6	7.3	4.0	5.7	5.3	3.6	1.7	1.3
1.4	2.0	2.5	5.6	1.6	7.3	5.9	5.8	4.3	3.5	2.3	1.3

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

1.6	0.6	2.4	6.0	2.2	7.7	6.6	5.3	4.4	3.0	1.8	0.2
1.9	1.7	3.2	3.7	3.3	8.7	6.6	5.6	3.3	1.9	0.5	0.2
1.9	2.4	3.3	3.0	2.8	7.8	6.4	4.7	3.7	2.3	0.2	0.0
1.9	-77.0	2.3	3.7	3.3	8.1	6.6	3.1	4.2	1.0	0.6	1.1
1.5	-77.0	3.1	-77.0	3.7	-77.0	5.7	5.0	-77.0	0.4	-77.0	0.1
Jan_2009	Fev_2009	Mar_2009	Abr_2009	Mai_2009	Jun_2009	Jul_2009	Ago_2009	Set_2009	Out_2009	Nov_2009	Dez_2009
0.0	0.0	0.8	4.2	5.5	8.6	6.3	3.8	4.8	3.2	1.8	0.0
0.0	1.0	1.2	4.0	6.3	7.6	6.7	5.5	5.4	4.9	2.4	0.6
0.6	0.3	2.4	4.0	6.7	5.2	6.6	6.6	5.3	3.9	2.0	1.3
1.2	0.5	1.4	4.5	6.8	4.4	6.6	6.4	5.8	3.3	2.3	1.1
0.2	0.5	2.6	4.2	7.3	2.5	5.3	6.2	6.5	2.2	1.6	0.1
1.4	1.2	1.6	3.0	6.9	2.2	6.0	6.2	6.0	1.6	0.9	0.1
1.2	1.5	3.3	3.7	6.4	3.4	6.6	6.2	5.1	2.0	1.9	0.8
1.4	0.9	3.5	4.1	4.2	3.4	6.7	5.2	5.3	2.3	1.0	0.6
1.1	0.4	4.0	3.4	3.0	3.9	7.0	5.9	4.9	2.6	1.8	0.5
0.9	1.7	3.6	2.9	2.3	4.1	6.8	7.2	5.1	4.1	1.8	0.1
1.5	2.3	3.6	3.2	1.8	6.6	6.5	6.9	4.4	4.1	1.3	1.0
1.3	2.4	4.8	3.8	2.1	8.0	7.1	6.9	3.0	5.1	1.1	0.9
0.1	2.4	4.0	2.4	2.8	7.4	6.5	4.7	3.6	4.5	1.2	1.9
0.3	2.2	3.7	1.6	4.7	2.4	6.1	6.3	4.5	3.6	0.9	1.7
-0.1	2.5	4.6	1.3	5.1	5.3	6.6	5.9	5.8	4.4	0.6	1.4
0.9	2.2	4.6	1.5	4.7	2.7	7.4	6.8	4.6	5.3	0.6	0.1
1.2	2.5	5.4	1.2	4.7	6.6	6.5	7.3	3.1	3.8	1.4	1.1
0.1	2.8	4.9	0.9	5.1	5.9	8.2	7.4	1.3	3.0	0.9	0.4
0.7	2.1	4.3	3.5	5.5	8.0	8.3	7.4	3.7	3.0	0.9	1.6
0.4	2.3	4.8	4.3	5.8	8.4	6.1	6.6	4.3	0.8	0.8	1.4
0.7	2.1	4.6	5.3	6.2	9.0	7.2	6.4	4.5	0.3	0.5	0.1
0.2	3.0	4.0	6.4	5.0	7.6	3.3	7.4	4.5	2.6	1.3	0.2
0.5	2.7	3.5	6.0	3.0	6.2	4.8	6.9	4.6	1.8	1.4	0.6
1.7	2.9	4.6	5.5	1.9	5.9	6.3	5.1	4.6	1.5	1.5	0.6
0.7	2.9	4.8	3.3	2.6	3.6	7.2	5.6	4.3	1.8	0.1	0.2
1.1	2.9	4.8	3.2	5.9	5.8	7.8	5.5	4.3	2.6	0.2	0.8
0.4	2.9	3.7	3.4	7.5	6.0	7.3	5.9	3.9	2.4	0.6	0.3
0.4	1.3	4.0	3.7	9.0	1.6	7.2	5.8	4.3	3.1	0.1	0.0
0.3	-77.0	3.7	2.4	8.7	4.0	7.8	7.1	3.2	1.6	0.7	0.2
0.4	-77.0	4.2	1.7	8.2	6.0	7.5	6.9	1.7	1.7	1.3	0.4
1.3	-77.0	3.7	-77.0	9.1	-77.0	7.4	6.4	-77.0	2.1	-77.0	0.4
Jan_2010	Fev_2010	Mar_2010	Abr_2010	Mai_2010	Jun_2010	Jul_2010	Ago_2010	Set_2010	Out_2010	Nov_2010	Dez_2010
0.7	1.8	1.4	3.0	4.4	7.1	8.2	6.7	4.8	4.1	2.5	0.8
0.1	2.0	1.3	2.1	4.5	4.5	6.3	6.7	5.8	3.6	2.7	1.2
-0.1	0.9	0.7	1.7	4.9	6.9	5.9	9.0	5.9	0.4	2.4	1.1
0.0	0.1	1.6	3.7	5.1	7.0	8.3	8.9	5.9	2.7	2.9	0.8
0.6	1.3	0.1	4.7	5.1	6.1	8.6	8.8	6.1	3.2	2.6	0.1
0.6	1.3	0.2	3.0	4.8	5.9	8.3	8.9	5.1	1.6	2.4	0.5



Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

1.1	0.6	0.3	4.5	2.8	6.6	5.8	8.3	2.4	2.4	1.7	0.4
1.7	1.1	0.5	4.8	0.4	2.0	7.3	4.5	4.3	0.4	1.1	0.2
1.5	1.5	2.9	5.0	2.6	2.4	6.9	6.1	5.3	1.6	1.9	0.2
0.3	0.1	2.9	5.2	3.3	3.0	8.3	7.8	6.3	1.4	2.0	1.2
0.2	1.9	2.6	5.1	2.5	2.8	8.7	9.0	6.3	3.0	1.0	1.0
0.0	1.2	2.4	4.7	2.7	3.7	7.5	6.7	6.6	2.8	0.7	0.1
0.1	2.0	3.0	1.8	2.7	4.8	6.7	8.2	5.7	3.3	0.8	1.0
1.0	1.2	3.1	0.3	2.3	6.2	6.5	7.8	5.6	2.8	1.1	1.9
0.1	0.2	2.9	2.2	4.7	7.3	6.9	7.6	3.1	2.7	1.3	2.4
-0.1	0.1	3.0	1.8	5.2	5.9	7.2	6.4	3.4	3.1	1.2	1.5
0.3	0.4	3.1	1.6	6.1	5.9	7.5	3.1	3.1	3.7	1.4	1.0
-0.1	0.3	2.2	1.4	6.5	5.0	8.6	5.4	3.8	3.5	0.8	0.6
0.6	2.2	1.2	1.7	7.0	5.8	7.4	5.9	5.1	3.8	0.0	1.1
1.1	1.6	1.0	4.3	7.2	6.7	8.1	6.4	3.2	3.1	1.6	0.2
0.4	0.4	2.1	2.3	7.7	8.2	6.4	7.6	3.5	3.2	1.3	0.1
0.5	0.7	3.0	2.9	6.9	7.9	6.6	6.9	3.6	1.6	1.2	-0.1
0.7	0.8	2.5	3.8	6.5	7.7	8.2	5.3	2.0	2.6	0.2	1.5
1.2	1.0	0.7	3.6	4.0	6.5	9.3	5.9	4.0	2.7	0.4	1.1
2.0	0.9	1.4	5.0	1.7	4.7	9.6	6.8	4.8	2.9	1.0	0.6
1.8	0.9	1.6	5.2	4.0	5.4	9.6	7.3	5.0	3.4	1.5	1.4
2.3	0.6	2.7	5.0	4.1	6.3	9.1	6.3	4.6	2.7	1.5	0.6
2.2	0.6	3.5	5.5	5.1	6.7	8.1	7.5	4.0	2.2	1.6	0.5
2.1	-77.0	1.0	4.1	5.6	7.9	8.6	8.4	4.1	0.2	0.1	0.5
1.7	-77.0	1.9	3.2	6.6	7.4	8.4	8.2	3.8	0.3	0.4	0.0
1.1	-77.0	1.7	-77.0	7.4	-77.0	7.8	5.3	-77.0	1.3	-77.0	0.0
Jan_2011	Fev_2011	Mar_2011	Abr_2011	Mai_2011	Jun_2011	Jul_2011	Ago_2011	Set_2011	Out_2011	Nov_2011	Dez_2011
0.0	2.0	2.9	4.9	3.1	6.8	5.1	3.3	0.5	5.2	0.0	0.8
0.9	2.6	2.6	1.9	3.6	6.6	7.0	3.4	2.4	4.9	0.1	1.6
0.2	2.9	2.6	1.7	4.6	6.0	5.5	5.5	3.3	4.6	0.7	1.6
-0.1	2.4	1.6	3.8	4.8	6.1	6.1	6.8	3.8	5.4	0.5	0.9
-0.1	2.2	0.5	5.4	4.9	3.7	6.9	6.2	5.3	5.4	1.7	1.1
0.2	2.0	2.0	6.0	3.0	3.3	6.4	3.9	6.1	5.8	2.1	1.1
0.6	2.1	2.5	5.2	3.3	4.4	6.1	6.5	6.1	5.2	2.0	1.1
0.1	1.1	0.6	6.0	3.6	5.1	5.9	7.9	5.7	4.9	0.4	0.3
0.9	0.8	0.8	4.4	5.4	3.2	5.8	8.7	5.8	4.6	-0.1	0.3
0.0	1.7	2.1	5.2	6.1	5.1	6.1	8.2	3.7	4.7	0.0	-0.1
0.9	1.5	0.8	5.6	5.6	6.0	5.6	7.2	4.1	4.9	0.6	0.1
1.1	1.5	1.2	5.3	5.9	6.6	6.4	3.4	5.4	4.6	1.1	0.8
0.5	0.2	0.1	5.5	5.8	6.3	7.1	6.1	5.9	4.6	2.1	0.1
0.8	0.4	0.1	5.8	5.6	6.1	6.7	5.9	5.8	4.8	0.4	0.6
0.7	0.6	2.6	6.1	6.8	6.5	7.3	6.0	4.7	4.1	0.7	0.9
0.3	0.3	2.5	5.4	5.0	5.9	7.3	5.2	3.7	3.0	0.5	0.5
0.2	1.6	2.8	5.1	3.1	5.6	6.3	5.4	4.2	3.2	1.4	1.3
0.2	0.6	3.5	3.9	1.9	6.0	6.2	5.4	5.1	3.5	1.2	1.3

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.5	-0.1	4.3	0.7	3.6	7.0	6.6	6.4	5.9	3.5	-0.1	1.1
1.4	1.1	4.8	0.8	5.5	7.1	7.8	6.1	5.8	4.3	0.8	1.0
2.0	1.3	4.1	0.7	5.5	7.3	7.5	1.7	5.0	3.5	1.1	1.2
2.0	2.4	3.6	1.6	5.9	7.0	7.3	3.4	4.4	2.6	0.3	1.4
2.1	2.7	2.9	2.8	5.6	6.9	6.8	4.2	3.4	1.3	1.7	1.2
2.4	2.9	2.0	4.4	6.7	8.0	8.2	5.4	4.0	2.0	1.8	2.2
1.9	3.4	1.2	5.3	5.9	8.0	7.6	5.1	4.1	1.4	2.0	1.8
1.8	3.0	0.9	5.2	3.6	6.7	7.5	5.5	4.7	0.1	1.7	1.4
0.3	3.4	1.3	5.4	3.7	7.1	8.7	6.3	4.5	1.4	1.5	1.1
0.2	3.2	0.9	4.7	3.4	6.2	7.8	6.4	3.5	2.8	1.3	1.2
0.9	-77.0	2.8	2.2	4.2	7.0	7.2	5.5	5.1	2.5	1.2	2.0
1.1	-77.0	3.0	1.2	2.7	8.0	6.7	4.5	4.6	2.5	0.7	1.5
1.8	-77.0	4.1	-77.0	5.1	-77.0	6.1	3.0	-77.0	1.5	-77.0	1.4
Jan_2012	Fev_2012	Mar_2012	Abr_2012	Mai_2012	Jun_2012	Jul_2012	Ago_2012	Set_2012	Out_2012	Nov_2012	Dez_2012
0.7	1.1	2.4	2.0	1.5	6.3	6.7	6.8	7.3	3.7	1.2	1.5
1.2	2.2	1.7	2.1	0.5	2.5	7.4	6.5	7.9	3.5	0.7	1.9
1.0	2.1	1.3	1.6	1.0	5.4	7.2	7.6	7.6	3.5	0.0	1.3
1.5	2.3	1.5	1.6	2.6	6.6	6.1	7.1	6.6	3.6	0.6	0.6
1.4	2.4	3.3	2.8	2.6	5.8	6.2	5.7	6.6	4.2	1.1	0.6
2.0	2.2	3.1	1.6	2.8	4.0	6.1	6.0	6.7	2.4	2.3	-0.1
1.6	2.2	3.4	2.5	0.4	4.5	5.4	7.1	4.8	3.4	0.7	0.0
1.6	2.4	4.1	4.2	3.5	4.6	6.5	7.2	4.5	3.5	-0.1	1.1
1.6	1.9	5.2	4.7	5.3	4.6	6.1	6.8	4.0	3.0	0.7	0.9
1.4	3.0	4.6	1.9	6.1	4.6	5.9	7.0	4.7	2.4	0.6	0.6
1.3	2.9	4.4	1.8	4.1	4.6	6.3	7.8	4.9	1.6	2.0	1.0
1.2	3.0	4.1	2.4	4.9	4.9	7.2	6.0	6.0	3.0	2.5	0.5
0.5	2.8	4.1	2.2	5.7	6.6	7.3	5.8	6.8	3.3	2.1	0.0
0.8	2.4	3.6	2.0	7.1	6.2	6.7	4.7	6.6	1.9	1.9	0.0
0.1	2.7	1.8	3.6	6.5	5.9	8.1	3.3	6.5	3.1	1.5	0.4
1.1	2.9	2.4	4.7	6.7	4.7	8.8	5.6	5.2	2.0	0.2	0.2
1.7	2.5	1.1	3.9	4.8	5.5	8.8	6.5	4.1	0.2	0.0	0.0
1.4	2.4	2.7	1.7	4.8	3.7	9.3	6.3	4.8	0.2	1.7	0.0
1.6	2.7	3.9	1.7	3.2	5.6	9.6	5.7	4.8	0.8	1.3	0.1
1.5	3.2	4.1	2.3	2.5	4.8	8.1	6.4	4.3	2.0	0.2	0.8
2.0	3.1	3.6	1.9	4.2	5.9	7.5	6.8	3.3	0.9	1.4	0.2
1.8	3.6	3.7	3.4	5.2	6.8	7.9	6.8	4.5	0.3	1.2	0.1
1.6	3.5	3.8	1.9	6.2	7.1	8.0	5.5	1.9	2.4	0.3	1.0
1.7	3.4	2.1	3.9	6.3	8.2	6.4	5.1	2.7	0.6	0.0	1.0
1.3	3.5	4.8	0.7	5.4	8.3	6.5	5.5	1.4	0.2	0.1	1.1
0.7	3.1	5.4	0.9	4.7	6.6	6.1	5.8	2.9	0.5	1.1	1.2
1.5	3.0	5.4	0.9	4.9	8.0	5.4	4.6	2.2	2.1	1.5	1.0
2.0	2.6	5.9	2.3	6.2	6.6	4.8	4.9	0.2	2.9	1.5	1.0
2.2	3.0	5.8	1.5	5.7	5.8	6.8	5.7	3.5	2.1	1.5	0.3
1.8	-77.0	3.5	3.1	6.1	4.9	7.2	6.5	4.0	1.3	0.7	0.7

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

1.7	-77.0	1.7	-77.0	7.2	-77.0	6.6	7.2	-77.0	1.7	-77.0	-0.1
Jan_2013	Fev_2013	Mar_2013	Abr_2013	Mai_2013	Jun_2013	Jul_2013	Ago_2013	Set_2013	Out_2013	Nov_2013	Dez_2013
0.7	1.4	2.6	2.6	3.2	7.0	7.6	7.3	6.7	0.2	1.6	2.2
1.3	2.2	2.0	2.5	4.3	7.1	6.8	6.4	6.4	1.1	1.0	1.7
1.8	2.1	0.7	1.0	4.8	6.9	7.7	6.3	6.4	2.4	2.0	1.7
1.7	2.2	0.7	1.4	5.5	6.8	8.8	7.0	5.5	2.5	0.7	1.6
1.3	2.1	0.5	3.0	5.5	7.3	8.4	6.2	4.8	2.8	1.6	1.5
1.0	2.3	0.9	3.4	3.2	3.3	7.8	6.0	4.2	4.1	1.1	1.5
0.2	2.2	1.2	2.6	3.0	2.3	8.6	6.2	4.6	3.9	0.8	1.2
0.7	2.2	0.3	2.2	3.1	2.6	8.5	7.0	4.9	3.9	1.4	1.1
-0.1	2.1	1.5	1.1	2.4	2.6	8.5	7.6	5.6	4.3	1.6	1.3
0.0	0.6	0.8	1.0	5.1	2.5	9.1	8.0	5.5	3.8	1.5	1.3
0.0	1.4	1.1	1.4	5.8	4.7	6.6	8.4	6.1	3.6	2.6	1.3
0.5	1.8	1.6	2.5	6.4	6.0	4.9	7.6	6.4	1.3	3.0	0.6
1.0	2.2	2.6	4.0	6.4	6.5	3.8	6.9	6.2	2.0	2.4	0.1
1.4	1.9	3.0	4.4	5.7	6.8	5.2	7.6	5.7	1.6	3.2	1.3
1.4	2.0	2.9	3.9	3.2	7.2	5.9	7.4	5.0	1.3	2.2	1.2
0.3	1.1	1.0	4.5	2.5	6.3	6.1	6.8	5.2	2.6	1.4	1.1
0.5	0.0	0.6	5.1	2.1	4.5	7.0	7.2	4.7	1.8	1.2	0.0
0.2	0.7	2.3	5.0	2.8	3.5	6.8	6.7	5.0	1.0	1.4	0.3
1.0	0.1	0.3	5.3	2.5	4.8	6.8	7.2	5.3	2.1	1.7	0.7
0.2	0.8	2.7	5.0	3.4	6.0	6.8	7.8	6.0	1.1	2.0	1.5
1.2	0.7	2.4	5.1	4.5	5.7	6.3	8.0	5.6	0.9	1.0	1.0
0.5	0.4	2.1	5.5	5.5	7.5	6.2	7.2	5.4	0.9	0.5	0.7
0.5	1.9	0.8	5.1	5.6	8.6	6.4	6.4	5.1	0.9	1.5	0.0
1.2	2.2	2.0	5.1	5.9	9.1	6.8	7.0	3.3	0.0	2.4	-0.1
0.1	2.4	0.4	5.2	6.4	8.9	5.9	7.5	3.0	0.2	2.6	0.2
1.2	2.4	0.5	4.3	4.7	8.4	5.3	6.2	2.6	1.4	2.2	0.4
0.1	0.9	1.3	4.5	4.8	8.4	4.9	6.4	0.3	2.1	1.9	0.0
1.2	1.8	1.2	4.0	5.1	8.6	3.6	6.0	1.1	0.7	1.5	1.1
1.3	-77.0	0.6	2.0	3.4	8.4	5.8	6.1	0.5	2.4	1.8	0.9
1.3	-77.0	3.0	2.3	5.5	8.2	7.1	5.9	0.1	2.6	1.6	0.5
1.6	-77.0	0.0	-77.0	6.7	-77.0	7.9	6.7	-77.0	2.4	-77.0	-0.1
Jan_2014	Fev_2014	Mar_2014	Abr_2014	Mai_2014	Jun_2014	Jul_2014	Ago_2014	Set_2014	Out_2014	Nov_2014	Dez_2014
-0.1	1.6	0.4	0.0	5.5	6.6	4.6	5.0	5.6	4.1	1.1	1.9
0.0	1.2	0.9	1.3	6.8	6.3	3.3	3.6	6.1	3.9	1.1	1.6
0.0	1.1	2.3	1.8	6.5	6.3	4.3	4.2	4.8	3.5	0.3	1.0
0.4	0.0	1.7	0.4	6.2	5.7	5.7	6.0	4.9	3.2	1.5	1.2
0.0	0.8	3.2	2.0	6.1	5.5	6.4	7.0	5.1	2.7	1.8	1.1
0.0	0.2	3.3	2.7	5.6	2.4	2.6	6.7	1.7	2.7	0.9	1.7
-0.1	0.3	3.4	4.0	4.6	4.1	6.1	6.5	3.3	0.8	1.3	1.4
0.9	0.9	3.6	4.7	5.6	4.6	6.8	5.7	3.4	0.7	0.2	1.2
1.4	0.1	3.2	3.1	6.2	4.2	8.7	5.8	3.8	1.3	1.5	1.4
0.9	1.2	4.0	4.8	6.3	4.5	8.6	5.7	2.0	2.0	0.2	1.4

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

1.2	0.0	4.2	4.2	6.0	7.0	8.9	6.1	2.0	1.0	0.6	1.1
0.0	0.1	3.6	3.3	6.6	7.3	8.1	6.9	3.0	-0.1	0.8	0.3
0.9	1.2	2.8	4.5	7.1	7.9	7.5	6.1	4.3	0.2	-0.1	-0.1
0.4	0.2	3.1	3.0	7.2	8.4	7.1	6.6	3.3	1.2	0.4	0.4
0.1	1.1	3.6	4.5	7.4	8.9	7.6	7.1	1.8	0.2	0.6	1.2
0.7	1.8	4.3	3.9	6.8	8.3	8.0	7.6	0.7	1.3	0.6	1.2
0.1	1.3	3.9	4.8	7.4	7.5	7.2	7.3	1.6	1.3	0.7	0.8
0.8	1.7	3.4	3.5	6.6	4.9	4.6	6.9	2.7	1.5	0.5	0.9
1.6	2.1	3.7	0.9	3.0	5.6	3.0	5.4	2.8	2.9	-0.1	0.6
1.0	0.6	2.3	1.6	1.6	5.5	4.9	6.5	2.6	3.1	0.4	0.9
0.0	1.4	1.3	3.4	1.5	3.7	6.7	6.3	2.5	2.9	1.1	1.0
1.5	0.6	2.7	2.7	2.5	4.3	7.8	6.3	1.0	3.5	0.6	0.9
1.7	1.9	3.0	1.9	4.0	2.2	6.6	5.9	1.3	3.2	0.3	0.8
1.5	1.2	1.3	2.5	4.6	2.9	5.8	6.5	2.5	2.8	0.8	0.7
1.5	1.5	2.4	3.2	4.7	4.9	5.7	6.6	4.1	3.2	0.2	1.3
1.2	2.2	3.1	1.7	4.9	6.2	6.1	5.6	4.3	2.9	0.3	1.2
1.5	0.6	1.3	4.5	4.4	6.2	6.9	5.9	1.0	2.2	0.2	0.7
0.6	1.8	0.8	4.7	3.7	4.6	6.4	6.0	1.8	1.5	0.5	1.0
1.6	-77.0	1.6	4.7	3.7	6.2	7.5	5.8	3.0	2.4	1.0	2.1
1.5	-77.0	0.8	4.9	5.2	6.4	7.5	5.2	3.4	2.7	0.5	1.7
0.9	-77.0	0.4	-77.0	6.4	-77.0	6.2	5.5	-77.0	2.0	-77.0	1.6
Jan_2015	Fev_2015	Mar_2015	Abr_2015	Mai_2015	Jun_2015	Jul_2015	Ago_2015	Set_2015	Out_2015	Nov_2015	Dez_2015
1.9	1.3	1.8	6.1	1.9	6.2	3.7	6.2	4.5	4.0	2.1	1.3
1.2	0.3	2.0	5.3	3.7	6.6	6.4	7.3	4.7	4.5	0.0	1.1
1.2	0.8	1.6	3.9	0.6	6.7	7.4	6.7	4.1	3.1	0.8	1.3
1.2	2.1	3.5	5.3	0.9	7.1	7.3	6.4	4.4	0.4	0.2	1.1
1.0	2.1	3.8	4.6	3.2	6.7	6.4	6.9	4.3	0.7	0.1	1.5
0.6	1.3	3.8	1.4	4.4	7.5	7.8	7.2	5.2	1.9	1.4	1.1
0.8	1.7	4.0	4.1	5.9	6.2	8.2	6.7	5.0	3.0	2.1	0.2
1.0	1.7	4.6	1.6	3.4	6.2	7.5	7.7	5.3	3.3	2.3	0.5
1.8	2.2	4.4	0.5	4.9	4.8	7.9	8.0	4.6	3.1	2.2	0.9
1.4	1.5	4.1	1.5	6.3	5.9	6.5	7.6	4.4	0.6	2.1	0.9
1.6	0.9	3.5	3.9	6.2	1.9	7.2	6.0	4.3	0.4	1.9	0.8
1.4	1.6	2.6	4.4	5.9	4.0	6.8	4.1	4.2	0.2	1.7	0.8
0.9	0.8	3.8	5.2	5.8	2.9	7.1	5.2	1.7	2.1	1.8	-0.1
0.6	0.3	4.1	3.8	6.4	1.7	7.5	5.1	3.9	3.0	2.1	-0.1
-0.1	1.1	3.3	1.6	6.2	3.4	8.1	5.4	0.5	2.9	1.7	1.0
0.4	1.7	3.4	1.6	7.9	6.0	7.9	4.7	2.4	2.3	1.4	1.2
0.7	3.1	0.3	3.2	7.8	8.0	5.2	5.5	3.4	1.0	1.5	1.0
0.0	2.6	0.4	2.4	7.1	8.0	6.3	5.9	4.6	0.4	1.4	0.8
1.8	2.5	2.5	3.9	6.2	8.4	7.1	6.7	5.5	1.7	1.2	1.4
0.4	1.0	2.3	4.3	6.3	9.1	6.7	6.6	5.2	2.2	1.5	0.3
0.5	2.3	1.7	4.3	6.8	8.1	6.5	6.8	5.8	3.2	2.1	0.5
1.1	2.1	1.4	3.3	7.2	6.3	7.7	5.5	4.5	3.1	0.9	0.4

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

0.8	1.1	2.2	4.6	7.0	5.6	8.5	3.0	4.9	1.1	2.1	0.3
2.2	1.8	2.1	1.0	7.2	5.9	6.2	4.3	5.3	0.2	1.6	-0.1
2.6	2.3	2.8	1.2	6.3	7.1	7.1	5.5	4.8	1.8	1.7	0.5
3.0	2.0	1.7	1.7	8.2	8.4	8.0	5.3	4.6	0.9	2.4	0.8
2.5	2.7	3.6	2.8	8.2	9.0	7.3	4.9	5.1	0.7	1.9	1.2
2.0	1.9	4.6	3.5	7.1	8.8	8.1	5.7	5.0	0.9	1.7	0.1
0.6	-77.0	4.4	3.9	7.6	9.0	7.4	6.0	3.5	0.6	1.6	0.3
0.2	-77.0	4.9	4.5	7.2	7.9	5.8	5.7	3.8	1.0	1.7	-0.1
1.6	-77.0	5.7	-77.0	6.7	-77.0	5.2	2.6	-77.0	0.6	-77.0	0.1
Jan_2016	Fev_2016	Mar_2016	Abr_2016	Mai_2016	Jun_2016	Jul_2016	Ago_2016	Set_2016	Out_2016	Nov_2016	Dez_2016
-0.1	1.5	3.3	3.8	5.7	6.3	6.1	6.7	6.0	3.6	2.6	0.2
0.7	1.2	2.7	2.2	6.3	5.7	7.2	7.6	6.2	3.6	1.7	0.3
-0.1	2.3	2.7	1.2	6.7	5.6	8.4	7.7	6.5	4.0	1.5	-0.1
0.0	2.3	1.1	0.7	4.6	5.3	6.7	6.8	6.3	4.2	0.1	0.7
0.5	1.9	1.8	3.6	0.4	5.1	6.3	7.7	7.1	4.1	0.5	1.4
0.0	0.5	2.2	4.5	0.4	5.7	4.8	9.2	7.6	4.6	2.0	1.3
0.0	1.5	2.6	4.9	0.2	6.4	2.3	9.2	6.7	3.7	1.8	0.8
-0.1	0.3	2.8	3.8	0.9	7.0	7.1	8.6	5.1	3.9	1.8	0.8
0.1	0.1	0.9	2.7	1.2	6.7	8.4	8.1	5.2	2.9	1.0	1.3
0.2	0.2	2.7	1.5	1.0	4.8	8.3	8.2	5.4	3.0	1.6	0.8
1.1	1.1	3.1	1.6	0.5	6.0	7.3	7.7	5.3	2.3	1.2	1.0
0.8	0.0	3.3	1.8	1.3	6.5	6.9	7.5	5.1	0.3	1.0	0.9
1.0	0.1	3.6	2.1	1.9	5.7	8.4	7.2	3.6	1.2	1.8	0.1
0.7	0.9	3.3	0.6	3.1	4.8	8.5	7.3	3.5	2.9	2.6	0.4
1.6	2.4	0.3	0.4	3.8	3.1	8.9	6.2	2.4	1.7	2.2	0.4
1.5	2.4	2.4	2.0	5.0	3.2	8.2	6.0	4.3	1.5	2.0	0.4
0.6	1.0	2.6	2.1	5.0	4.7	7.8	5.6	5.2	1.5	1.7	1.3
0.8	1.9	0.2	3.2	5.2	6.3	7.8	6.2	5.6	1.6	0.4	1.7
0.3	2.6	0.8	0.3	5.8	7.3	6.9	5.3	5.5	1.8	1.3	1.6
0.2	2.9	1.3	1.3	6.1	7.2	7.1	6.1	5.0	1.6	-0.1	1.3
0.0	2.3	0.8	1.3	4.4	7.4	7.2	7.2	3.8	0.8	0.7	0.9
0.1	2.4	1.6	2.7	5.2	7.9	6.8	7.1	3.0	0.4	0.9	1.0
0.5	2.0	2.4	3.0	4.4	5.9	8.3	6.9	4.1	1.2	1.4	1.0
1.0	0.2	4.0	3.7	2.3	6.3	8.5	6.7	4.5	1.0	0.6	1.1
0.0	1.0	2.3	5.1	2.9	6.2	8.7	5.3	3.7	0.8	0.0	1.1
0.5	0.3	0.2	4.9	4.2	7.7	8.4	5.7	4.3	2.7	0.2	1.0
0.3	1.7	2.4	3.1	2.6	7.7	6.9	5.9	5.8	2.4	0.6	1.2
0.4	2.5	0.4	3.7	2.3	8.1	7.6	6.5	5.8	2.7	0.9	1.5
1.0	3.0	2.5	3.9	2.1	7.4	7.3	6.5	5.0	2.7	0.6	1.3
1.2	-77.0	2.3	5.5	3.9	6.9	4.6	6.5	4.2	2.9	1.2	1.3
1.5	-77.0	3.2	-77.0	5.7	-77.0	5.5	5.2	-77.0	3.1	-77.0	1.1
Jan_2017	Fev_2017	Mar_2017	Abr_2017	Mai_2017	Jun_2017	Jul_2017	Ago_2017	Set_2017	Out_2017	Nov_2017	Dez_2017
0.2	0.8	1.1	3.5	4.5	6.8	7.5	6.6	6.9	5.4	1.5	1.6
0.5	0.7	1.8	4.3	5.3	6.8	8.6	7.0	6.9	5.1	0.4	1.6

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

## ANEXO 8 – Necessidades Hídricas das Culturas

### ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

-0.1	0.3	0.2	4.5	6.0	5.7	9.2	7.5	6.9	5.2	0.5	1.8
0.2	0.3	1.2	4.9	4.6	5.9	8.2	8.0	5.2	5.0	1.1	1.6
0.9	1.9	0.6	5.5	1.9	5.9	4.2	7.8	5.2	4.4	2.3	1.5
1.3	1.3	1.4	4.7	2.4	5.9	3.8	7.4	6.7	6.2	2.7	1.3
1.4	1.4	2.9	4.9	5.1	7.8	4.5	6.4	8.1	6.2	2.6	1.3
1.5	2.2	3.5	4.9	5.8	6.4	5.6	6.2	7.1	4.9	2.8	0.7
2.2	1.5	4.2	5.2	3.9	6.6	5.8	7.1	4.6	3.7	2.9	1.1
1.5	0.3	4.2	5.4	1.6	7.1	6.5	8.0	5.2	3.6	2.8	0.2
1.4	0.7	2.9	5.3	1.0	7.1	7.3	7.9	5.8	3.9	2.4	0.6
1.0	0.2	3.4	5.7	2.4	7.6	8.0	8.0	5.3	4.8	2.5	1.2
1.8	1.0	4.0	4.9	2.9	6.7	8.4	7.1	5.8	3.5	2.7	0.5
1.8	0.6	2.5	4.3	3.1	7.1	8.9	6.6	5.4	2.3	2.5	0.1
1.6	1.3	4.2	4.4	4.3	7.5	7.9	6.8	5.2	5.4	2.1	0.7
1.8	2.3	3.5	4.9	5.3	8.1	8.0	7.2	5.1	2.4	2.0	1.7
2.3	2.1	4.0	5.1	4.7	6.6	7.5	7.6	4.4	2.5	2.0	1.5
2.2	1.5	4.1	3.8	5.5	6.6	6.3	7.8	4.1	2.1	2.4	1.6
1.8	2.0	4.0	5.8	5.5	6.7	5.6	7.9	4.3	1.0	2.4	2.1
1.4	2.7	3.2	5.1	7.1	7.6	5.8	8.3	4.9	0.5	2.2	1.8
1.4	3.0	2.7	4.6	5.3	7.1	6.5	6.9	3.9	2.4	2.2	1.7
1.5	3.1	1.1	3.3	4.5	6.4	6.8	6.9	4.2	3.3	1.6	1.6
2.1	1.9	1.5	4.9	7.3	7.2	7.4	6.8	4.7	3.6	1.0	1.9
2.0	2.3	1.4	4.6	7.3	6.0	7.3	6.0	5.2	3.8	0.4	0.8
1.5	2.7	1.2	3.8	5.7	3.4	8.6	5.6	4.6	3.8	0.5	0.0
-0.1	0.6	0.0	3.5	4.5	5.7	8.4	5.4	4.7	2.9	1.6	0.0
0.6	0.9	1.1	5.3	3.1	5.3	7.9	5.0	4.2	4.5	1.1	1.2
0.3	1.1	2.5	4.7	2.9	4.3	7.9	3.0	4.4	5.6	-0.1	0.2
0.0	-77.0	3.7	2.6	3.6	4.5	7.2	3.9	4.7	4.5	1.5	0.2
0.5	-77.0	3.1	2.7	5.5	5.8	7.3	4.3	3.9	3.8	2.1	0.6
0.5	-77.0	3.5	-77.0	6.1	-77.0	4.3	4.8	-77.0	3.1	-77.0	0.4
Jan_2018	Fev_2018	Mar_2018	Abr_2018	Mai_2018	Jun_2018	Jul_2018	Ago_2018	Set_2018	Out_2018	Nov_2018	Dez_2018
0.4	2.2	0.5	2.9	3.6	4.0	2.3	7.3	6.8	6.3	1.7	0.7
0.2	2.2	0.2	0.9	2.8	4.7	2.1	8.1	5.5	5.8	1.3	0.6
0.4	1.6	0.0	1.4	4.0	3.4	4.9	7.3	2.8	5.1	1.9	0.4
0.6	1.8	0.9	2.0	5.4	1.9	4.8	8.4	3.0	5.2	0.0	1.2
-0.1	1.6	0.8	3.2	5.4	2.0	5.7	8.0	2.1	4.7	0.7	1.1
1.4	2.3	1.4	2.2	5.0	4.1	5.7	7.9	4.0	4.8	0.4	1.4
0.7	2.0	1.3	1.0	3.5	1.4	6.1	6.6	4.4	4.7	1.3	1.2
1.0	2.2	0.3	1.3	4.4	2.3	6.1	6.2	3.7	4.6	0.2	1.2
-0.1	0.7	-0.1	0.4	3.2	2.2	6.3	6.2	4.0	4.1	0.5	1.3
0.3	2.1	1.4	1.0	5.2	1.7	5.5	6.9	5.7	2.1	0.1	1.6
1.2	1.2	0.9	2.5	4.9	3.0	4.8	7.4	5.8	1.4	0.0	0.6
0.7	2.4	1.8	0.3	4.5	5.0	5.0	7.4	5.2	2.1	0.9	0.2
0.2	1.2	1.9	2.1	4.7	5.8	5.2	5.9	5.7	3.2	1.6	1.0
0.7	0.4	0.0	3.3	4.3	6.4	5.1	6.1	6.1	2.2	1.7	0.8

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

## ANEXO 8 – Necessidades Hídricas das Culturas

### ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

1.3	0.5	0.8	0.6	6.5	6.6	3.6	7.2	5.2	0.5	1.3	-0.1
0.5	1.7	1.6	3.6	6.5	6.9	5.9	6.1	4.8	1.9	1.2	0.9
1.7	1.5	0.8	4.3	6.0	8.1	6.5	5.5	4.6	2.4	0.8	0.9
2.0	3.0	1.9	5.1	3.3	8.0	5.5	7.5	4.9	1.9	0.1	-0.1
2.2	2.6	1.7	5.1	4.8	7.1	5.3	7.5	4.5	2.0	0.4	0.2
1.9	3.4	3.2	4.9	2.8	6.0	5.7	6.8	5.2	2.3	0.3	0.1
1.4	3.4	3.7	1.1	4.1	5.2	6.3	5.8	5.4	1.5	0.5	0.3
1.4	2.9	3.6	2.4	4.2	5.1	6.5	5.6	5.3	2.4	0.2	0.3
1.2	2.9	0.5	4.1	4.6	6.0	6.0	6.4	5.9	2.3	0.6	0.4
1.1	2.9	2.5	5.5	0.3	6.1	5.3	7.6	6.6	2.7	0.3	0.5
0.5	3.0	2.6	5.5	2.3	4.6	5.2	7.2	5.6	2.5	0.4	0.8
1.7	2.6	3.6	5.4	2.6	5.0	5.5	6.5	4.8	0.8	1.7	0.9
1.8	0.2	4.4	4.4	4.0	5.5	6.4	4.2	4.4	2.3	1.1	0.2
2.4	0.1	3.9	2.4	3.6	5.0	6.2	5.0	4.1	2.1	1.2	1.2
2.3	-77.0	2.5	2.1	2.5	4.6	5.9	4.9	4.6	2.4	0.0	1.4
2.2	-77.0	1.3	2.8	3.2	2.6	6.1	5.9	4.4	0.8	0.9	1.8
1.9	-77.0	3.0	-77.0	3.8	-77.0	6.1	6.5	-77.0	0.3	-77.0	1.7
Jan_2019	Fev_2019	Mar_2019	Abr_2019	Mai_2019	Jun_2019	Jul_2019	Ago_2019	Set_2019	Out_2019	Nov_2019	Dez_2019
1.4	0.5	2.8	1.5	5.1	7.5	6.2	7.3	5.9	3.9	0.6	0.2
2.0	2.0	3.1	3.2	5.7	8.0	5.5	6.5	6.5	3.8	0.8	1.7
1.4	1.9	2.2	3.6	6.2	7.0	5.4	6.6	6.9	4.1	1.6	1.6
1.2	1.8	1.7	2.8	5.8	3.8	4.4	6.5	7.4	3.6	0.4	1.2
1.2	1.9	0.3	1.1	5.4	4.9	5.5	6.4	8.3	3.5	1.4	1.7
2.0	1.9	0.8	0.9	3.8	2.6	5.9	5.4	7.2	4.3	0.8	1.4
3.2	2.1	0.7	0.5	1.2	4.3	5.1	2.6	6.9	4.8	1.7	1.1
2.0	1.1	2.4	2.0	2.5	5.8	5.4	3.5	6.7	4.5	1.8	0.1
2.4	1.1	3.0	2.1	0.7	5.9	6.1	2.7	6.1	4.8	0.5	1.2
2.3	0.1	3.1	2.7	3.6	6.0	7.9	5.2	5.4	4.4	0.9	0.8
2.1	2.1	3.6	3.7	6.1	6.5	8.2	5.4	6.3	3.6	0.8	1.2
1.7	2.7	3.2	4.2	7.8	6.5	4.3	6.6	6.4	3.1	1.7	0.1
1.7	2.4	3.4	3.0	8.1	5.6	4.6	7.1	4.9	1.9	1.7	0.4
1.4	2.5	4.0	2.1	7.1	4.1	6.3	7.2	4.1	1.3	1.2	0.2
1.1	2.2	4.0	2.3	6.9	5.3	6.3	7.5	3.0	1.8	1.8	-0.1
-0.1	2.6	4.4	4.0	5.4	6.0	5.5	7.3	3.1	1.6	1.5	-0.1
1.0	2.1	2.7	0.3	3.8	5.1	4.8	7.0	4.2	0.7	0.1	1.1
0.6	0.1	3.9	1.8	4.3	2.6	7.1	5.2	4.4	2.1	1.5	-0.1
-0.1	1.4	4.2	1.9	5.0	3.0	7.8	5.0	3.9	0.7	0.5	-0.1
1.6	1.7	3.8	4.3	5.4	4.8	7.6	6.8	2.2	2.1	-0.1	-0.1
1.6	2.2	3.9	4.2	4.9	6.2	6.4	6.3	0.3	1.8	0.4	0.7
0.9	2.8	4.1	3.4	5.7	6.4	6.9	6.8	2.3	2.8	0.8	0.9
1.2	2.2	4.4	1.3	5.5	3.5	6.8	6.8	3.5	1.8	1.3	0.2
2.3	3.5	4.6	0.7	6.6	1.2	7.3	7.0	1.9	2.2	0.4	1.1
2.4	3.3	5.2	2.1	7.3	4.9	5.1	5.0	3.8	2.7	0.5	0.9
2.2	3.7	5.1	3.4	7.5	4.3	5.9	3.6	4.1	2.8	0.0	1.1

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

### ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

1.9	2.4	5.1	4.9	6.8	5.4	3.5	5.1	4.8	2.1	0.5	1.5
0.9	2.4	4.8	5.2	7.7	7.1	6.2	5.3	4.2	0.2	0.2	1.9
0.6	-77.0	4.6	5.6	7.9	7.0	6.6	6.0	4.3	0.9	0.1	1.9
0.3	-77.0	4.2	5.3	8.1	6.2	7.2	6.4	4.4	0.1	0.0	1.3
0.0	-77.0	3.0	-77.0	7.2	-77.0	6.6	6.4	-77.0	0.4	-77.0	1.0
Jan_2020	Fev_2020	Mar_2020	Abr_2020	Mai_2020	Jun_2020	Jul_2020	Ago_2020	Set_2020	Out_2020	Nov_2020	Dez_2020
1.0	0.3	0.5	1.0	2.6	3.5	6.5	7.3	6.0	2.6	1.1	2.0
0.5	1.5	2.2	2.7	4.5	3.6	6.1	6.9	6.2	2.1	1.0	1.9
0.8	1.5	0.6	3.9	5.6	4.9	6.8	6.9	6.6	2.9	2.4	1.7
1.3	1.8	0.8	2.2	3.0	4.2	7.5	7.0	5.8	2.5	1.4	0.5
1.1	2.5	2.1	0.0	3.6	5.4	8.2	7.4	5.9	2.8	0.2	1.1
1.0	1.6	2.8	0.4	4.6	4.7	8.1	7.3	6.2	3.2	0.2	0.3
1.3	1.0	2.9	1.6	4.3	3.8	7.2	6.5	7.3	3.8	0.9	0.5
1.3	0.6	1.6	1.9	3.2	5.2	6.9	6.2	6.2	3.8	0.1	1.0
1.3	0.5	3.1	0.1	1.6	5.9	6.2	6.3	5.5	3.5	0.9	0.8
1.8	1.5	3.5	2.8	2.3	5.9	7.0	5.4	5.4	3.8	1.6	0.2
1.5	1.3	3.0	3.1	1.5	3.5	6.6	4.6	2.6	4.6	1.4	0.5
1.2	0.0	3.2	2.6	2.1	3.0	6.9	3.7	3.1	5.0	1.2	1.5
0.9	1.0	2.5	1.8	1.2	3.1	7.8	5.9	3.5	3.6	0.8	0.1
0.1	1.6	4.0	1.8	1.7	5.2	8.3	5.7	1.7	3.0	0.2	0.1
-0.1	1.6	3.1	1.7	2.3	5.0	8.6	5.4	1.7	3.5	0.3	0.4
0.5	1.1	2.5	1.1	4.4	5.0	7.9	5.0	1.1	3.5	1.1	0.1
0.8	1.4	2.9	2.0	5.8	5.5	8.4	4.3	1.3	3.1	0.5	1.2
0.2	2.4	3.4	3.4	5.9	5.8	8.5	4.7	1.1	3.0	1.1	0.2
2.4	2.8	2.6	3.9	5.9	6.1	7.0	5.8	1.0	1.9	2.0	0.1
2.3	2.2	0.5	1.0	5.9	6.6	6.9	2.5	2.6	-0.1	2.7	0.7
1.8	3.1	1.5	2.5	5.7	6.6	4.6	3.6	3.6	0.7	2.8	0.1
0.5	3.3	2.4	3.7	5.8	7.8	6.4	6.2	3.0	1.5	1.9	0.1
0.0	3.6	2.2	3.3	6.1	7.7	7.4	6.9	1.6	1.4	1.5	0.1
0.3	3.5	3.1	4.1	6.2	6.0	7.7	6.8	2.0	1.3	1.0	0.9
0.5	2.1	3.2	2.5	6.2	5.9	7.6	6.7	3.8	0.4	-0.1	1.6
0.8	2.6	3.8	2.1	6.5	5.3	7.3	6.4	3.6	2.2	0.1	1.9
0.0	2.8	3.3	2.1	7.3	5.7	7.1	6.2	4.0	1.0	1.0	1.1
0.0	2.8	3.3	2.3	7.0	6.4	6.3	6.0	4.1	1.0	0.7	1.0
0.0	1.1	3.1	1.2	6.3	6.8	6.9	5.4	4.2	1.3	0.6	1.0
-0.1	-77.0	1.0	2.0	4.9	7.1	7.0	5.9	3.8	2.4	1.1	1.1
-0.1	-77.0	0.4	-77.0	3.7	-77.0	7.3	5.5	-77.0	2.2	-77.0	0.4

## 3 SOLOS

Tabela 27. Características médias dos solos



Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

A	Nº Camadas	Prof. Camada	CC(%)	CE(%)	da
	3	45	36.2	14.2	1.34
		95	34.3	10.4	1.24
		130	36.2	14.2	1.24
Aa	Nº Camadas	Prof. Camada	CC(%)	CE(%)	da
	3	35	27.9	18.7	
		55	36.8	26.8	
		90	36.8	26.8	
Aac	Nº Camadas	Prof. Camada	CC(%)	CE(%)	da
	3	15	36.2	14.2	1.34
		40	42	21.8	1.24
		90	34.3	10.4	1.24
Ac	Nº Camadas	Prof. Camada	CC(%)	CE(%)	da
	2	40	28.3	12.8	1.34
		100	33.9	21.9	1.24
AI	Nº Camadas	Prof. Camada	CC(%)	CE(%)	da
	4	30	28	5.5	1.23
		49	28	5.5	1.3
		85	28	5.5	1.38
		107	28	5.5	1.38
Aic	Nº Camadas	Prof. Camada	CC(%)	CE(%)	da
	3	20	34.3	10.4	1.23
		60	28.3	12.8	1.3
		100	28.3	12.8	1.38
Ap	Nº Camadas	Prof. Camada	CC(%)	CE(%)	da
	8	20	21.9	5.5	1.65
		60	21.9	5.5	1.66
		120	8.2	2.1	1.67
		150	21.9	5.5	1.65
		170	21.9	5.5	1.65
		210	21.9	5.5	1.66
		270	8.2	2.1	1.67
		300	21.9	5.5	1.65
As	Nº Camadas	Prof. Camada	CC(%)	CE(%)	da
	2	30	31.3	14.2	
		60	27.8	10.4	
Asac	Nº Camadas	Prof. Camada	CC(%)	CE(%)	da
	5	30	36.8	26.8	
		50	36.8	26.8	
		80	36.8	26.8	
		95	36.8	26.8	
		110	36.8	26.8	
At	Nº Camadas	Prof. Camada	CC(%)	CE(%)	da

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# **ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE**

	3	15	28.3	12.8	1.34
		50	28.3	12.8	1.24
		90	34.3	10.4	1.24

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

# ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

Atl	Nº Camadas	Prof. Camada	CC(%)	CE(%)	da
	2	40	28	5.5	1.23
		80	28	5.5	1.3
Ca	Nº Camadas	Prof. Camada	CC(%)	CE(%)	da
	4	30	30.4	21.8	1.42
		70	42	21.8	1.27
		120	28.3	12.8	1.21
		140	34.3	10.4	1.29
Caa	Nº Camadas	Prof. Camada	CC(%)	CE(%)	da
	3	20	45	29	1.18
		60	37.6	26.8	1.23
		100	36.2	14.2	1.23
Cal	Nº Camadas	Prof. Camada	CC(%)	CE(%)	da
	4	20	34.3	10.4	1.25
		30	34.3	10.4	1.22
		70	28	5.5	1.27
		85	34.3	10.4	1.28
Ex	Nº Camadas	Prof. Camada	CC(%)	CE(%)	da
	2	10	26.9	12.8	
		20	26.9	12.8	
Pag	Nº Camadas	Prof. Camada	CC(%)	CE(%)	da
	9	10	27.8	10.4	
		25	27.8	10.4	
		40	27.9	18.7	
		100	31.4	21.9	
		110	29.5	10.4	1.54
		125	34.3	10.4	1.37
		140	27.9	18.7	1.19
		200	33.9	21.9	1.22
Pagx	Nº Camadas	Prof. Camada	CC(%)	CE(%)	da
	6	25	27.8	10.4	
		55	36.8	26.8	
		200	44.3	29	
		225	27.8	10.4	
		255	36.8	26.8	
		400	44.3	29	

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	Nº Camadas	Prof. Camada	CC(%)	CE(%)	da
Par	8	20	29.5	10.4	1.62
		45	29.5	10.4	1.68
		70	29.5	10.4	1.62
		95	29.5	10.4	1.56
		115	29.5	10.4	1.62
		140	29.5	10.4	1.68
		165	29.5	10.4	1.62
		190	29.5	10.4	1.56
	Nº Camadas	Prof. Camada	CC(%)	CE(%)	da
Pat	3	18	27.8	10.4	
		35	31.4	21.9	
		55	27.8	10.4	
	Nº Camadas	Prof. Camada	CC(%)	CE(%)	da
Pato	3	18	27.8	10.4	
		35	31.4	21.9	
		55	27.8	10.4	
	Nº Camadas	Prof. Camada	CC(%)	CE(%)	da
Pgm	5	20	23.6	5.5	
		40	27.8	10.4	
		60	23.6	5.5	
		80	27.8	10.4	
	Nº Camadas	Prof. Camada	CC(%)	CE(%)	da
Pgn	2	25	22.4	5.5	1.46
		55	34.3	10.4	1.4
	Nº Camadas	Prof. Camada	CC(%)	CE(%)	da
Ppn	2	35	29.5	10.4	1.61
		60	29.5	10.4	1.48
	Nº Camadas	Prof. Camada	CC(%)	CE(%)	da
Ppr	5	15	22.4	5.5	1.55
		25	27.8	10.4	1.72
		45	27.8	10.4	1.65
		90	22.4	5.5	1.43
		125	28	5.5	1.33
	Nº Camadas	Prof. Camada	CC(%)	CE(%)	da
Pqx	4	35	27.8	10.4	
		80	31.3	14.2	
		110	31.3	14.2	
		200	31.3	14.2	
	Nº Camadas	Prof. Camada	CC(%)	CE(%)	da
Px	3	20	28.3	12.8	1.38
		40	28.3	12.8	1.28
		60	42	21.8	1.23

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Pz	Nº Camadas	Prof. Camada	CC(%)	CE(%)	da
	10	25	27.8	10.4	1.72
		45	22.4	5.5	1.55
		70	27.8	10.4	1.65
		82	28.2	14.2	1.43
		112	27.9	18.7	1.33
		137	27.8	10.4	1.72
		157	22.4	5.5	1.55
		182	27.8	10.4	1.65
		194	28.2	14.2	1.43
		224	0	18.7	1.33
Rg	Nº Camadas	Prof. Camada	CC(%)	CE(%)	da
	10	18	12.7	2.1	
		38	12.7	2.1	
		66	12.7	2.1	
		80	12.7	2.1	
		120	12.7	2.1	
		138	12.7	2.1	
		158	12.7	2.1	
		186	12.7	2.1	
		200	12.7	2.1	
		240	12.7	2.1	
Sb	Nº Camadas	Prof. Camada	CC(%)	CE(%)	da
	2	35	36.2	14.2	1.23
		75	36.2	14.2	1.3
Sbc	Nº Camadas	Prof. Camada	CC(%)	CE(%)	da
	2	35	31.3	14.2	
		75	31.3	14.2	
Sbl	Nº Camadas	Prof. Camada	CC(%)	CE(%)	da
	3	20	34.3	10.4	1.23
		60	34.3	10.4	1.3
		100	34.3	10.4	1.38
Srt	Nº Camadas	Prof. Camada	CC(%)	CE(%)	da
	4	20	29.5	10.4	1.45
		33	29.5	10.4	1.54
		60	33.9	21.9	1.25
		200	36.2	14.2	1.25
Svc'	Nº Camadas	Prof. Camada	CC(%)	CE(%)	da
	3	20	26.9	12.8	
		45	44.3	29	
		200	36.8	26.8	

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**ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE**

Vato	Nº Camadas	Prof. Camada	CC(%)	CE(%)	da
	3	20	32.4	21.9	1.43
		55	32.4	21.9	1.16
		90	32.4	21.9	1.19
Vgn	Nº Camadas	Prof. Camada	CC(%)	CE(%)	da
	3	20	29.5	10.4	1.22
		35	32.4	21.9	1.15
		200	34.3	10.4	1.16
VI	Nº Camadas	Prof. Camada	CC(%)	CE(%)	da
	3	16	29.5	10.4	1.62
		85	29.5	10.4	1.62
		130	16.2	2.1	1.56
Vt	Nº Camadas	Prof. Camada	CC(%)	CE(%)	da
	8	15	29.5	10.4	1.45
		35	29.5	10.4	1.59
		55	29.5	10.4	1.59
		95	27.9	18.7	1.24
		110	29.5	10.4	1.45
		130	29.5	10.4	1.59
		150	29.5	10.4	1.59
		190	27.9	18.7	1.24
Vx	Nº Camadas	Prof. Camada	CC(%)	CE(%)	da
	4	15	42.8	21.8	1.08
		50	45	29	1.2
		65	42.8	21.8	1.08
		100	45	29	1.2

**4 DADOS CULTURAIS**

Tabela 28. Dados culturais

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### ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

Cul_1 Abobora	Data de sementeira(dia e mês)	15	4				
	Fases	A	B	C	D	E	F
	Dias após sementeira (fases)	0	30	70	115	140	165
	Fracção facilmente utilizável (p)	0.35	0.35	0.35	0.35	0.35	0.35
	Profundidade radicular (m)	0.2	0.6	1	1	1	1
	Dias após sementeira (valores de kc)	0	30	70	115	165	
	Coeficiente cultural	0.5	0.5	1	1	0.8	
	Coef. sensibilidade hídrica	1.2					
Cul_2 Batata	Data de sementeira(dia e mês)	1	3				
	Fases	A	B	C	E	F	
	Dias após sementeira (fases)	0	25	65	115	135	
	Fracção facilmente utilizável (p)	0.35	0.35	0.35	0.35	0.35	
	Profundidade radicular (m)	0.2	0.4	0.6	0.6	0.6	
	Dias após sementeira (valores de kc)	0	25	65	115	135	
	Coeficiente cultural	0.5	0.5	1.15	1.15	0.75	
	Coef. sensibilidade hídrica	1.2					
Cul_3 Batata-doce	Data de sementeira(dia e mês)	15	1				
	Fases	A	B	C	E	F	
	Dias após sementeira (fases)	0	20	80	130	150	
	Fracção facilmente utilizável (p)	0.65	0.65	0.65	0.65	0.65	
	Profundidade radicular (m)	0.2	0.6	1	1	1	
	Dias após sementeira (valores de kc)	0	20	80	130	150	
	Coeficiente cultural	0.55	0.55	1.15	1.15	0.65	
	Coef. sensibilidade hídrica	1.2					
Cul_5 Cenoura	Data de sementeira(dia e mês)	1	6				
	Fases	A	B	C	E	F	
	Dias após sementeira (fases)	0	25	70	135	160	
	Fracção facilmente utilizável (p)	0.35	0.35	0.35	0.35	0.35	
	Profundidade radicular (m)	0.2	0.6	1	1	1	
	Dias após sementeira (valores de kc)	0	25	70	135	160	
	Coeficiente cultural	0.5	0.5	1.05	1.05	0.95	

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Cul_9 Couve	Coef. sensibilidade hídrica	1.2				
	Data de sementeira(dia e mês)	1	9			
	Fases	A	B	C	E	F
	Dias após sementeira (fases)	0	20	60	90	105
	Fracção facilmente utilizável (p)	0.4	0.4	0.4	0.4	0.4
	Profundidade radicular (m)	0.2	0.4	0.6	0.6	0.6
	Dias após sementeira (valores de kc)	0	20	60	90	105
	Coeficiente cultural	0.7	0.7	1.05	1.05	0.95
	Coef. sensibilidade hídrica	1.2				
	Data de sementeira(dia e mês)	15	1			
Cul_10 Ervilha (industria- Outono)	Fases	A	B	C	E	F
	Dias após sementeira (fases)	0	20	50	85	100
	Fracção facilmente utilizável (p)	0.35	0.35	0.35	0.35	0.35
	Profundidade radicular (m)	0.2	0.4	0.6	1	1
	Dias após sementeira (valores de kc)	0	20	50	85	100
	Coeficiente cultural	0.5	0.5	1.1	1.1	0.7
	Coef. sensibilidade hídrica	1.2				
	Data de sementeira(dia e mês)	15	1			
	Fases	A	B	C	E	F
	Dias após sementeira (fases)	0	20	50	85	100
Cul_11 Ervilha (Hortícola)	Fracção facilmente utilizável (p)	0.35	0.35	0.35	0.35	0.35
	Profundidade radicular (m)	0.2	0.6	1	1	1
	Dias após sementeira (valores de kc)	0	20	50	85	100
	Coeficiente cultural	0.5	0.5	1.15	1.15	1.1
	Coef. sensibilidade hídrica	1.2				
	Data de sementeira(dia e mês)	15	4			
	Fases	A	B	C	E	F
	Dias após sementeira (fases)	0	30	65	105	125
	Fracção facilmente utilizável (p)	0.3	0.3	0.3	0.3	0.3
	Profundidade radicular (m)	0.2	0.5	1	1	1
Cul_12 Pimento	Dias após sementeira (valores de kc)	0	30	65	105	125



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	Coeficiente cultural	0.6	0.6	1.15	1.15	0.65									
	Coef. sensibilidade hídrica	1.2													
Cul_14	Data de sementeira(dia e mês)	1	1												
Amendoa	Fases	A												F	
	Dias após sementeira (fases)	0												365	
	Fracção facilmente utilizável (p)	0.4												0.4	
	Profundidade radicular (m)	1												1	
	Dias após sementeira (valores de kc)	0	31	59	90	120	151	181	212	243	273	304	334	365	
	Coeficiente cultural	0	0	0.2	0.4	0.61	0.78	0.87	0.94	0.94	0.8	0.63	0.43	0	
	Coef. sensibilidade hídrica	1													
Cul_15	Data de sementeira(dia e mês)	1	1												
Laranja	Fases	A												F	
	Dias após sementeira (fases)	0												365	
	Fracção facilmente utilizável (p)	0.5												0.5	
	Profundidade radicular (m)	1												1	
	Dias após sementeira (valores de kc)	0	31	59	90	120	151	181	212	243	273	304	334	365	
	Coeficiente cultural	0.72	0.72	0.72	0.66	0.67	0.66	0.67	0.66	0.66	0.66	0.67	0.67	0.67	
	Coef. sensibilidade hídrica	1.2													
Cul_16	Data de sementeira(dia e mês)	1	1												
Maca	Fases	A												F	
	Dias após sementeira (fases)	0												365	
	Fracção facilmente utilizável (p)	0.5												0.5	
	Profundidade radicular (m)	1												1	
	Dias após sementeira (valores de kc)	0	90	120	151	182	228	258	304	335	365				
	Coeficiente cultural	0.15	0.15	0.2	0.4	0.6	0.7	0.6	0.4	0.2	0.15				
	Coef. sensibilidade hídrica	1.2													
Cul_18	Data de sementeira(dia e mês)	1	1												
Noz	Fases	A												F	
	Dias após sementeira (fases)	0												365	
	Fracção facilmente utilizável (p)	0.5												0.5	
	Profundidade radicular (m)	1												1	

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Cul_19 Olival - Superintensivo	Dias após sementeira (valores de kc)	0	31	59	90	120	151	181	212	243	273	304	334	365				
	Coeficiente cultural	0	0	0	0.5	0.75	0.95	1	1	0.95	0.9	0.85	0.7	0				
	Coef. sensibilidade hídrica	1.2																
	Data de sementeira(dia e mês	1	1															
	Fases	A																
	Dias após sementeira (fases)	0																
	Fracção facilmente utilizável (p)	0.5																
Cul_20 Olival	Profundidade radicular (m)	1																
	Dias após sementeira (valores de kc)	0	58	59	89	90	119	120	180	181	235	236	257	258	333	334	365	
	Coeficiente cultural	0.5	0.5	0.5	0.65	0.65	0.55	0.55	0.45	0.45	0.45	0.45	0.6	0.6	0.65	0.65	0.5	
	Coef. sensibilidade hídrica	1.2																
	Data de sementeira(dia e mês	1	1															
	Fases	A																
	Dias após sementeira (fases)	0																
Cul_21 Vinha-Vinho Quantidade	Fracção facilmente utilizável (p)	0.5																
	Profundidade radicular (m)	1																
	Dias após sementeira (valores de kc)	0	31	59	90	120	151	181	212	243	273	304	334	365				
	Coeficiente cultural	0.72	0.72	0.72	0.66	0.67	0.66	0.67	0.66	0.66	0.66	0.67	0.67	0.67				
	Coef. sensibilidade hídrica	1.2																
	Data de sementeira(dia e mês	1	1															
	Fases	A																
Cul_22 Vinha-Vinho Qualidade	Dias após sementeira (fases)	0																
	Fracção facilmente utilizável (p)	0.4																
	Profundidade radicular (m)	1																
	Dias após sementeira (valores de kc)	0	89	90	164	165	239	240	286	287	365							
	Coeficiente cultural	0	0	0.36	0.72	0.72	0.72	0.72	0.36	0	0							
	Coef. sensibilidade hídrica	1.2																
	Data de sementeira(dia e mês	1	1															
	Fases	A																

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Cul_23 Olival_Intensivo	Dias após sementeira (fases)	0					365											
	Fracção facilmente utilizável (p)	0.4					0.4											
	Profundidade radicular (m)	1					1											
	Dias após sementeira (valores de kc)	0	89	90	164	165	239	240	286	287	365							
	Coeficiente cultural	0	0	0.27	0.54	0.54	0.54	0.54	0.27	0	0							
	Coef. sensibilidade hídrica	1.2																
	Data de sementeira(dia e mês)	1	1															
	Fases	A					F											
	Dias após sementeira (fases)	0					365											
	Fracção facilmente utilizável (p)	0.5					0.5											
Cul_25 Milho	Profundidade radicular (m)	1					1											
	Dias após sementeira (valores de kc)	0	58	59	89	90	119	120	180	181	235	236	257	258	333	334	365	
	Coeficiente cultural	0.4	0.4	0.4	0.52	0.52	0.44	0.44	0.36	0.36	0.36	0.36	0.48	0.48	0.52	0.52	0.4	
	Coef. sensibilidade hídrica	1.2																
	Data de sementeira(dia e mês)	1	4															
	Fases	A	B	C	D	E	F											
	Dias após sementeira (fases)	0	30	90	125	145	165											
	Fracção facilmente utilizável (p)	0.55	0.55	0.55	0.55	0.55	0.55											
	Profundidade radicular (m)	0.2	0.6	1.5	1.5	1.5	1.5											
	Dias após sementeira (valores de kc)	0	30	90	125	145	165											
Cul_26 Milho Silagem	Coeficiente cultural	0.3	0.3	0.9	1.25	1	0.6											
	Coef. sensibilidade hídrica	1.2																
	Data de sementeira(dia e mês)	15	6															
	Fases	A	B	C	E	F												
	Dias após sementeira (fases)	0	25	75	115	125												
	Fracção facilmente utilizável (p)	0.35	0.35	0.35	0.35	0.35												
	Profundidade radicular (m)	0.2	0.6	1.5	1.5	1.5												
	Dias após sementeira (valores de kc)	0	25	75	115	125												
	Coeficiente cultural	0.5	0.5	1.25	1.25	0.6												
	Coef. sensibilidade hídrica	1.2																
Cul_27	Data de sementeira(dia e mês)	15	5															

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Girassol	Fases	A	B	C	E	F
	Dias após sementeira (fases)	0	30	60	105	135
	Fracção facilmente utilizável (p)	0.45	0.45	0.45	0.45	0.45
	Profundidade radicular (m)	0.2	0.8	1.5	1.5	1.5
	Dias após sementeira (valores de kc)	0	30	60	105	135
	Coeficiente cultural	0.4	0.4	1.15	1.15	0.5
	Coef. sensibilidade hídrica	1.2				
Cul_28	Data de sementeira(dia e mês)	15	4			
Sorgo	Fases	A	B	C	E	F
	Dias após sementeira (fases)	0	25	75	115	135
	Fracção facilmente utilizável (p)	0.55	0.55	0.55	0.55	0.55
	Profundidade radicular (m)	0.2	1	2	2	2
	Dias após sementeira (valores de kc)	0	25	70	115	135
	Coeficiente cultural	0.3	0.3	1.1	1.1	0.55
	Coef. sensibilidade hídrica	1.2				
Cul_31	Data de sementeira(dia e mês)	1	4			
Tomate Industria	Fases	A	B	C	E	F
	Dias após sementeira (fases)	0	30	70	115	135
	Fracção facilmente utilizável (p)	0.4	0.4	0.4	0.4	0.4
	Profundidade radicular (m)	0.2	0.4	0.9	0.9	0.9
	Dias após sementeira (valores de kc)	0	30	70	115	135
	Coeficiente cultural	0.6	0.6	1.15	1.15	0.9
	Coef. sensibilidade hídrica	1.2				
Cul_32	Data de sementeira(dia e mês)	1	1			
Pastagem permanente	Fases	A				F
	Dias após sementeira (fases)	0				364
	Fracção facilmente utilizável (p)	0.6				0.6
	Profundidade radicular (m)	1				1
	Dias após sementeira (valores de kc)	0	15	105	165	166 364
	Coeficiente cultural	0.4	0.4	0.75	0.75	0.3 0.4
	Coef. sensibilidade hídrica	1				

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Cul_33 Consociacao	Data de sementeira(dia e mês)	1	1												
	Fases	A												F	
	Dias após sementeira (fases)	0												364	
	Fracção facilmente utilizável (p)	0.6												0.6	
	Profundidade radicular (m)	1												1	
	Dias após sementeira (valores de kc)	0	15	45	75	76	106	121	122	137	167	286	287	364	
	Coeficiente cultural	0.3	0.3	1.05	1.05	0.4	1.05	1.05	0.4	1.05	1.05	0	0.3	0.3	
Cul_34 Amendoim	Coef. sensibilidade hídrica	1													
	Data de sementeira(dia e mês)	25	5												
	Fases	A	B	C	E	F									
	Dias após sementeira (fases)	0	35	80	115	130									
	Fracção facilmente utilizável (p)	0.5	0.35	0.35	0.35	0.35									
	Profundidade radicular (m)	0.2	0.4	1	1	1									
	Dias após sementeira (valores de kc)	0	25	80	115	130									
Cul_36 Cebola_Ribatejo	Coeficiente cultural	0.4	0.4	1.15	1.15	0.6									
	Coef. sensibilidade hídrica	1.2													
	Data de sementeira(dia e mês)	15	3												
	Fases	A	B	C	E	F									
	Dias após sementeira (fases)	0	15	40	110	150									
	Fracção facilmente utilizável (p)	0.3	0.3	0.3	0.3	0.3									
	Profundidade radicular (m)	0.1	0.3	0.3	0.3	0.3									
Cul_37 Abacate	Dias após sementeira (valores de kc)	0	25	40	110	150									
	Coeficiente cultural	0.7	0.7	1.05	1.05	0.75									
	Coef. sensibilidade hídrica	1.2													
	Data de sementeira(dia e mês)	1	1												
	Fases	A												F	
	Dias após sementeira (fases)	0												365	
	Fracção facilmente utilizável (p)	0.5												0.5	
	Profundidade radicular (m)	1												1	
	Dias após sementeira (valores de kc)	0	30	58	89	119	150	181	211	227	258	303	334	365	
	Coeficiente cultural	0.46	0.46	0.51	0.54	0.49	0.54	0.61	0.64	0.62	0.59	0.58	0.54	0.51	

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Cul_38 Mirtilo	Coef. sensibilidade hídrica	1.2															
	Data de sementeira(dia e mês	1	1														
	Fases	A	F														
	Dias após sementeira (fases)	0	364														
	Fracção facilmente utilizável (p)	0.6	0.6														
	Profundidade radicular (m)	1	1														
	Dias após sementeira (valores de kc)	0	35	65	215	245	275	305	364								
	Coeficiente cultural	0.5	0.5	0.7	0.7	0.5	0.5	0.3	0.3								
	Coef. sensibilidade hídrica	1															
	Cul_40 Ameixa_Ribatejo	Data de sementeira(dia e mês	1	1													
Fases		A	F														
Dias após sementeira (fases)		0	365														
Fracção facilmente utilizável (p)		0.5	0.5														
Profundidade radicular (m)		1	1														
Dias após sementeira (valores de kc)		0	45	60	115	135	165	260	335	343	365						
Coeficiente cultural		0.25	0.25	0.3	0.45	0.7	0.85	0.85	0.65	0.45	0.25						
Coef. sensibilidade hídrica		1.2															
Cul_42 Beterraba		Data de sementeira(dia e mês	15	3													
		Fases	A	B	C	E	F										
	Dias após sementeira (fases)	0	25	70	130	180											
	Fracção facilmente utilizável (p)	0.6	0.55	0.55	0.55	0.55											
	Profundidade radicular (m)	0.15	0.3	0.7	0.7	0.7											
	Dias após sementeira (valores de kc)	0	25	70	130	180											
	Coeficiente cultural	0.4	0.4	1.15	1.15	0.8											
	Coef. sensibilidade hídrica	1.2															
	Cul_43 Luzerna	Data de sementeira(dia e mês	1	1													
		Fases	A	F													
Dias após sementeira (fases)		0	365														
Fracção facilmente utilizável (p)		0.6	0.6														
Profundidade radicular (m)		1	1														
Dias após sementeira (valores de kc)		0	57	58	78	88	89	109	119	120	140	150	151	171	181	286	365

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			0.4	0.4	1.2	1.15	1.2	1.15	1.15	1.2	1.15	1.15	1.2	1.15	1.15	1.2	0.4	0.4
		Coeficiente cultural	0.4	0.4	1.2	1.15	1.2	1.15	1.15	1.2	1.15	1.15	1.2	1.15	1.15	1.2	0.4	0.4
		Coef. sensibilidade hídrica	1															
Cul_44		Data de sementeira(dia e mês)	1	1														
Romã		Fases	A					F										
		Dias após sementeira (fases)	0					365										
		Fracção facilmente utilizável (p)	0.5					0.5										
		Profundidade radicular (m)	1					1										
		Dias após sementeira (valores de kc)	58	89	119	150	258	303	334	365								
		Coeficiente cultural	0	0.27	0.42	0.59	0.76	0.65	0.38	0.2								
		Coef. sensibilidade hídrica	1															
Cul_47		Data de sementeira(dia e mês)	15	4														
Melancia		Fases	A	B	C	E	F											
		Dias após sementeira (fases)	0	20	50	80	110											
		Fracção facilmente utilizável (p)	0.4	0.4	0.4	0.4	0.4											
		Profundidade radicular (m)	0.1	0.4	0.8	0.8	0.8											
		Dias após sementeira (valores de kc)	0	25	50	80	110											
		Coeficiente cultural	0.4	0.4	1	1	0.75											
		Coef. sensibilidade hídrica	1.2															
Cul_48		Data de sementeira(dia e mês)	1	5														
Melão		Fases	A	B	C	E	F											
		Dias após sementeira (fases)	0	25	60	100	120											
		Fracção facilmente utilizável (p)	0.4	0.4	0.4	0.4	0.4											
		Profundidade radicular (m)	0.1	0.4	0.8	0.8	0.8											
		Dias após sementeira (valores de kc)	0	25	60	100	120											
		Coeficiente cultural	0.5	0.5	1.05	1.05	0.75											
		Coef. sensibilidade hídrica	1.2															
Cul_49		Data de sementeira(dia e mês)	1	9														
Nabo		Fases	A	B	C	E	F											
		Dias após sementeira (fases)	0	20	50	80	110											
		Fracção facilmente utilizável (p)	0.5	0.5	0.5	0.5	0.5											
		Profundidade radicular (m)	0.1	0.4	0.8	0.8	0.8											

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Cul_50 Grão	Dias após sementeira (valores de kc)	0	25	50	80	110
	Coeficiente cultural	0.5	0.5	1.1	1.1	0.95
	Coef. sensibilidade hídrica	1.2				
	Data de sementeira(dia e mês)	1	3			
	Fases	A	B	C	E	F
	Dias após sementeira (fases)	0	20	50	90	110
	Fracção facilmente utilizável (p)	0.5	0.5	0.5	0.5	0.5
	Profundidade radicular (m)	0.1	0.4	0.8	0.8	0.8
	Dias após sementeira (valores de kc)	0	25	50	80	110
	Coeficiente cultural	0.4	0.4	1	1	0.35
Cul_51 Pistacio	Coef. sensibilidade hídrica	1.2				
	Data de sementeira(dia e mês)	1	2			
	Fases	A	B	C	E	F
	Dias após sementeira (fases)	0	20	80	110	150
	Fracção facilmente utilizável (p)	0.4	0.4	0.4	0.4	0.4
	Profundidade radicular (m)	1	1	1	1	1
	Dias após sementeira (valores de kc)	0	25	80	110	150
	Coeficiente cultural	0.4	0.4	1.1	1.1	0.45
	Coef. sensibilidade hídrica	1.2				
	Data de sementeira(dia e mês)	1	5			
Cul_52 Soja	Fases	A	B	C	E	F
	Dias após sementeira (fases)	0	20	50	110	135
	Fracção facilmente utilizável (p)	0.5	0.5	0.5	0.5	0.5
	Profundidade radicular (m)	0.1	0.4	0.8	0.8	0.8
	Dias após sementeira (valores de kc)	0	25	50	80	110
	Coeficiente cultural	0.5	0.5	1.1	1.1	0.6
	Coef. sensibilidade hídrica	1.2				
	Data de sementeira(dia e mês)	1	1			
	Fases	A				F
	Dias após sementeira (fases)	0				365
Cul_53 Figueira	Fracção facilmente utilizável (p)	0.5				0.5



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	Profundidade radicular (m)	1					1										
	Dias após sementeira (valores de kc)	0	30	31	58	59	89	90	119	120	150	151	181	182	211	212	227
	Coeficiente cultural	0.15	0.15	0.15	0.15	0.15	0.15	0.45	0.45	0.6	0.6	0.65	0.65	0.65	0.65	0.65	0.65
	Coef. sensibilidade hídrica	1.2															
Cul_54	Data de sementeira(dia e mês)	1	1														
Castanheiro	Fases	A					F										
	Dias após sementeira (fases)	0					365										
	Fracção facilmente utilizável (p)	0.5					0.5										
	Profundidade radicular (m)	1					1										
	Dias após sementeira (valores de kc)	89	119	150	258	303	334	365									
	Coeficiente cultural	0.15	0.45	0.6	0.65	0.5	0.22	0									
	Coef. sensibilidade hídrica	1.2															
Cul_55	Data de sementeira(dia e mês)	1	1														
Diospiro	Fases	A					F										
	Dias após sementeira (fases)	0					365										
	Fracção facilmente utilizável (p)	0.5					0.5										
	Profundidade radicular (m)	1					1										
	Dias após sementeira (valores de kc)	58	89	119	150	181	211	258	303	334	365						
	Coeficiente cultural	0	0.2	0.35	0.5	0.65	0.85	0.65	0.5	0.22	0						
	Coef. sensibilidade hídrica	1.2															
Cul_56	Data de sementeira(dia e mês)	1	1														
Figo da Índia	Fases	A					F										
	Dias após sementeira (fases)	0					365										
	Fracção facilmente utilizável (p)	0.5					0.5										
	Profundidade radicular (m)	1					1										
	Dias após sementeira (valores de kc)	150	181	365													
	Coeficiente cultural	0.0	0.7	0													
	Coef. sensibilidade hídrica	1.2															
Cul_57	Data de sementeira(dia e mês)	1	2														
Alface_Fev	Fases	A	B	C	E	F											
	Dias após sementeira (fases)	0	35	85	130	140											

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Cul_58	Fracção facilmente utilizável (p)	0.3	0.3	0.3	0.3	0.3
	Profundidade radicular (m)	0.1	0.2	0.3	0.3	0.3
	Dias após sementeira (valores de kc)	0	25	85	130	140
	Coeficiente cultural	0.7	0.7	1	1	0.95
	Coef. sensibilidade hídrica	1.2				
	Data de sementeira(dia e mês)	1	4			
	Fases	A	B	C	E	F
	Dias após sementeira (fases)	0	20	50	65	75
	Fracção facilmente utilizável (p)	0.3	0.3	0.3	0.3	0.3
	Profundidade radicular (m)	0.1	0.2	0.3	0.3	0.3
Alface_Abr	Dias após sementeira (valores de kc)	0	25	50	65	75
	Coeficiente cultural	0.7	0.7	1	1	0.95
	Coef. sensibilidade hídrica	1.2				

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### 5 NECESSIDADES HÍDRICAS ÚTEIS

#### 5.1 ABOBORA

Tabela 29. Necessidades hídricas úteis anuais da abóbora (mm)

Ano	Estuário	Sado	Oeste	Vila Franca de Xira	Sorraia	Almourol	Castelo de Bode	Castelo de Bode 2	Belver	Pracana	Fratel	Lis	Cedilho
2003	529.6	548.0	440.0	496.9	429.5	516.2	467.6	440.5	440.0	472.2	440.0	412.4	440.0
2004	580.6	571.0	463.8	481.1	455.8	490.8	433.8	464.8	465.0	481.0	465.0	292.4	465.0
2005	610.6	583.0	535.8	573.5	527.6	562.8	545.7	536.7	537.0	572.7	537.0	504.2	537.0
2006	545.5	542.0	435.1	479.3	427.0	493.8	468.0	435.5	435.0	482.2	435.0	402.1	435.0
2007	511.6	439.0	458.9	443.5	451.5	471.8	417.1	459.7	460.0	457.9	460.0	277.5	460.0
2008	491.5	443.0	405.0	413.5	386.4	426.3	402.7	406.9	407.0	424.0	407.0	341.1	407.0
2009	542.7	524.0	425.8	464.1	418.9	463.5	421.3	426.8	427.0	441.4	427.0	353.2	427.0
2010	548.5	491.0	480.5	518.7	461.8	529.8	500.1	482.1	482.0	503.2	482.0	468.3	482.0
2011	475.4	500.0	467.5	423.9	448.3	449.9	419.4	469.5	470.0	465.7	470.0	360.2	470.0
2012	544.1	535.0	466.0	488.6	448.4	512.8	480.6	467.5	468.0	491.2	468.0	384.2	468.0
2013	616.6	604.0	543.2	572.5	535.3	599.8	560.9	543.8	544.0	576.1	544.0	495.4	544.0
2014	449.6	450.0	356.8	414.1	350.2	480.8	415.7	357.8	358.0	394.7	358.0	349.4	358.0
2015	555.1	624.0	450.0	504.0	442.0	590.5	495.1	449.9	449.0	477.6	449.0	411.8	449.0
2016	547.1	601.0	444.0	497.7	425.7	514.6	483.6	445.8	446.0	483.4	446.0	398.2	446.0
2017	587.9	640.0	470.3	542.0	460.5	595.8	510.3	470.6	470.0	503.1	470.0	427.7	470.0
2018	470.6	507.0	348.8	389.5	340.9	434.8	361.5	349.8	350.0	383.7	350.0	300.2	350.0
2019	509.9	577.0	422.7	458.9	408.6	484.0	434.1	423.8	424.0	444.9	424.0	348.2	424.0
2020	511.3	522.0	433.5	469.4	415.9	486.8	462.0	435.5	436.0	465.6	436.0	395.1	436.0
Húmido	493.4	491.0	421.5	424.2	408.2	463.4	409.8	423.2	424.0	439.1	424.0	341.1	424.0
Medio	541.7	542.0	449.7	483.0	440.5	494.8	469.5	449.9	449.0	477.0	449.0	395.1	449.0
Seco	587.9	604.0	481.2	542.0	465.4	590.5	513.8	482.2	482.0	517.4	482.0	468.3	482.0

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### 5.2 BATATA

Tabela 30. Necessidades hídricas úteis anuais da batata (mm)

Ano	Estuário	Sado	Oeste	Vila Franca de Xira	Sorraia	Almourol	Castelo de Bode	Castelo de Bode 2	Belver	Pracana	Fratel	Lis	Cedilho
2003	383.2	392.0	318.6	341.4	307.2	341.6	322.5	320.5	321.0	335.0	321.0	279.3	321.0
2004	461.6	426.0	388.1	398.3	383.4	379.4	338.5	388.9	389.0	384.6	389.0	259.0	389.0
2005	455.2	415.0	389.7	411.3	375.9	399.8	386.3	391.4	392.0	408.1	392.0	345.0	392.0
2006	382.9	362.0	294.2	317.8	283.4	310.8	317.2	295.3	295.0	328.8	295.0	271.5	295.0
2007	383.4	332.0	309.1	297.8	305.3	294.8	252.8	309.9	310.0	299.1	310.0	129.6	310.0
2008	324.1	282.0	233.5	241.1	211.1	233.9	225.1	235.7	236.0	247.0	236.0	168.2	236.0
2009	409.4	393.0	301.8	333.0	298.5	329.0	296.9	302.2	302.0	311.6	302.0	239.6	302.0
2010	365.3	311.0	292.6	321.8	280.4	327.6	301.8	292.9	292.0	299.8	292.0	265.7	292.0
2011	357.3	339.0	343.0	312.2	322.6	341.0	311.5	345.5	346.0	336.8	346.0	280.3	346.0
2012	342.8	336.0	281.3	302.3	271.0	323.3	297.8	282.8	283.0	301.3	283.0	233.7	283.0
2013	422.3	409.0	346.4	369.5	335.3	374.9	350.0	347.7	348.0	365.0	348.0	297.2	348.0
2014	362.1	349.0	272.8	314.6	262.1	357.1	306.9	273.7	273.0	296.8	273.0	251.3	273.0
2015	423.0	454.0	352.9	398.7	347.5	469.0	394.7	352.9	352.0	375.8	352.0	343.6	352.0
2016	315.2	346.0	244.9	266.7	226.0	267.8	254.7	246.5	247.0	263.9	247.0	173.3	247.0
2017	435.3	457.0	331.6	383.3	321.8	411.3	349.9	332.3	332.0	346.5	332.0	289.4	332.0
2018	264.5	278.0	166.1	179.8	155.4	206.2	152.1	167.7	168.0	183.0	168.0	87.9	168.0
2019	371.6	424.0	306.2	323.1	287.6	327.9	310.5	308.4	309.0	326.2	309.0	247.2	309.0
2020	336.5	332.0	277.6	284.2	264.1	284.2	267.3	277.9	277.0	283.9	277.0	214.3	277.0
Húmido	335.9	332.0	272.8	282.4	261.3	284.2	262.2	273.7	273.0	280.9	273.0	173.3	273.0
Medio	377.4	362.0	306.0	321.1	300.0	330.3	309.7	308.3	309.0	323.8	309.0	262.9	309.0
Seco	436.6	426.0	352.9	398.7	348.7	399.8	356.1	352.9	352.0	371.5	352.0	297.2	352.0

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### 5.3 BATATA DOCE

Tabela 31. Necessidades hídricas úteis anuais da batata doce (mm)

Ano	Estuário	Sado	Oeste	Vila Franca de Xira	Sorraia	Almourol	Castelo de Bode	Castelo de Bode 2	Belver	Pracana	Fratel	Lis	Cedilho
2003	508.4	522.0	406.3	455.9	380.8	462.1	422.3	408.9	409.0	437.0	409.0	345.7	409.0
2004	562.7	546.0	433.5	451.6	409.6	437.5	390.8	436.3	437.0	447.0	437.0	258.8	437.0
2005	591.7	558.0	505.6	538.3	481.4	511.1	505.1	509.1	510.0	542.2	510.0	455.6	510.0
2006	555.7	544.0	428.4	474.0	403.8	476.8	463.4	430.3	430.0	480.0	430.0	392.5	430.0
2007	518.7	441.0	452.8	429.5	428.7	437.1	402.1	455.3	456.0	455.2	456.0	234.8	456.0
2008	464.1	402.0	373.6	373.8	338.6	369.5	361.4	377.8	379.0	392.5	379.0	300.4	379.0
2009	529.5	504.0	399.8	433.6	375.9	415.1	384.2	402.3	403.0	415.5	403.0	309.5	403.0
2010	540.7	477.0	451.9	492.3	416.9	490.8	468.8	456.0	457.0	478.5	457.0	428.6	457.0
2011	445.8	463.0	434.8	386.0	399.8	415.5	394.8	438.8	440.0	435.5	440.0	328.3	440.0
2012	531.5	519.0	442.9	461.6	410.5	471.5	448.0	446.1	447.0	467.0	447.0	335.3	447.0
2013	602.5	582.0	515.2	539.7	490.9	544.1	519.4	518.2	519.0	547.2	519.0	449.1	519.0
2014	481.7	474.0	371.5	427.7	347.5	484.1	426.1	374.3	375.0	412.2	375.0	345.6	375.0
2015	554.5	614.0	438.7	495.8	415.0	569.1	485.5	440.9	441.0	472.3	441.0	403.7	441.0
2016	526.7	580.0	424.5	474.4	389.2	484.0	459.0	428.8	430.0	466.0	430.0	353.4	430.0
2017	571.7	615.0	437.5	506.6	414.0	550.8	468.0	440.1	441.0	471.7	441.0	378.1	441.0
2018	441.7	473.0	304.5	339.7	280.5	373.5	307.6	307.3	308.0	339.2	308.0	229.6	308.0
2019	508.4	574.0	405.1	438.7	375.9	448.5	407.5	408.3	409.0	429.0	409.0	307.3	409.0
2020	515.9	527.0	426.7	458.8	394.8	462.5	447.0	430.2	431.0	460.0	431.0	365.3	431.0
Húmido	481.7	473.0	399.4	427.7	373.3	415.5	382.9	402.0	403.0	415.5	403.0	300.4	403.0
Medio	531.5	527.0	432.1	460.9	405.1	470.3	446.1	435.8	437.0	459.7	437.0	346.9	437.0
Seco	571.7	582.0	455.4	507.4	430.6	544.1	489.2	457.3	457.0	500.2	457.0	428.6	457.0

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### 5.4 CENOURA

Tabela 32. Necessidades hídricas úteis anuais da cenoura (mm)

Ano	Estuário	Sado	Oeste	Vila Franca de Xira	Sorraia	Almourol	Castelo de Bode	Castelo de Bode 2	Belver	Pracana	Fratel	Lis	Cedilho
2003	404.6	422.0	345.5	383.9	337.3	380.5	361.3	346.6	347.0	368.4	347.0	333.9	347.0
2004	476.6	478.0	375.1	399.5	366.7	413.8	385.9	375.7	376.0	409.8	376.0	277.2	376.0
2005	505.6	508.0	439.8	482.9	431.6	462.4	460.9	440.7	441.0	476.7	441.0	459.4	441.0
2006	395.2	400.0	320.4	353.9	313.2	343.9	336.8	321.2	321.0	354.2	321.0	302.5	321.0
2007	467.4	392.0	444.2	423.2	437.0	399.0	397.1	444.8	445.0	434.7	445.0	343.5	445.0
2008	463.6	422.0	390.8	427.5	382.7	474.8	424.4	391.7	392.0	418.9	392.0	370.4	392.0
2009	465.6	439.0	402.8	403.7	395.6	396.8	372.7	403.7	404.0	416.2	404.0	320.2	404.0
2010	460.2	424.0	421.8	448.2	414.1	441.5	437.3	422.7	423.0	442.2	423.0	413.2	423.0
2011	508.6	512.0	501.8	466.1	493.6	450.8	459.2	502.7	503.0	503.2	503.0	426.4	503.0
2012	463.3	477.0	395.8	428.9	387.5	460.4	418.2	396.7	397.0	420.2	397.0	342.4	397.0
2013	451.0	436.0	401.6	420.9	393.3	444.2	420.0	402.7	403.0	429.9	403.0	381.2	403.0
2014	305.6	313.0	255.8	289.3	248.0	329.0	295.8	256.7	257.0	281.4	257.0	268.4	257.0
2015	424.7	479.0	356.8	383.9	348.8	444.4	385.4	357.8	358.0	380.7	358.0	326.2	358.0
2016	510.6	566.0	430.8	486.1	422.8	508.8	473.4	431.8	432.0	467.2	432.0	426.2	432.0
2017	538.6	616.0	441.8	513.9	433.7	559.9	501.9	442.8	443.0	481.7	443.0	438.4	443.0
2018	449.5	479.0	353.5	398.9	345.6	433.2	376.1	354.6	355.0	387.4	355.0	327.9	355.0
2019	442.5	477.0	382.9	413.4	375.3	437.9	394.1	383.8	384.0	403.4	384.0	312.2	384.0
2020	469.5	483.0	390.6	426.9	382.3	440.8	412.6	391.7	392.0	424.2	392.0	330.2	392.0
Húmido	424.7	422.0	353.5	383.9	345.6	396.8	363.7	354.6	355.0	378.4	355.0	312.2	355.0
Medio	463.6	477.0	395.8	422.4	387.5	441.5	414.1	396.7	397.0	422.7	397.0	338.5	397.0
Seco	508.6	512.0	441.8	482.9	433.7	474.8	461.5	442.8	443.0	475.4	443.0	426.4	443.0

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### 5.5 COUVE

Tabela 33. Necessidades hídricas úteis anuais da couve (mm)

Ano	Estuário	Sado	Oeste	Vila Franca de Xira	Sorraia	Almourol	Castelo de Bode	Castelo de Bode 2	Belver	Pracana	Fratel	Lis	Cedilho
2003	64.6	67.0	50.6	57.4	45.7	51.4	52.7	50.9	51.0	55.1	51.0	53.7	51.0
2004	87.6	77.0	47.2	50.4	42.4	52.5	49.5	47.9	48.0	57.5	48.0	32.2	48.0
2005	94.9	93.0	73.0	84.2	67.7	72.0	75.5	73.8	74.0	81.3	74.0	77.9	74.0
2006	45.5	42.0	33.3	33.2	29.0	25.7	27.0	33.8	34.0	33.9	34.0	24.0	34.0
2007	126.1	95.0	120.5	112.6	113.9	64.4	99.2	120.5	120.0	113.8	120.0	122.5	120.0
2008	98.9	73.0	53.1	76.1	46.8	111.8	73.9	53.8	54.0	63.2	54.0	40.5	54.0
2009	96.6	86.0	92.2	75.6	86.5	60.5	70.7	92.9	93.0	91.3	93.0	59.9	93.0
2010	74.8	57.0	60.8	64.3	56.5	55.0	58.0	61.3	61.0	61.3	61.0	54.0	61.0
2011	122.2	121.0	126.2	99.3	120.3	74.6	98.9	126.9	127.0	124.0	127.0	100.2	127.0
2012	63.2	74.0	50.1	53.9	46.2	55.5	50.8	50.7	51.0	54.3	51.0	50.2	51.0
2013	91.0	72.0	54.3	55.0	51.0	52.7	51.6	54.9	55.0	59.6	55.0	40.7	55.0
2014	14.5	5.0	4.4	5.3	3.3	3.3	4.4	4.8	5.0	5.4	5.0	2.5	5.0
2015	68.6	78.0	38.6	35.8	34.4	38.4	31.7	38.9	39.0	38.1	39.0	15.5	39.0
2016	90.9	100.0	68.9	79.0	63.4	71.0	73.7	69.8	70.0	75.0	70.0	78.0	70.0
2017	145.0	184.0	92.9	121.1	87.9	128.8	115.8	93.7	94.0	106.5	94.0	99.9	94.0
2018	108.3	110.0	91.1	99.1	84.9	86.9	90.5	91.9	92.0	94.3	92.0	97.8	92.0
2019	84.8	81.0	72.5	79.0	67.0	77.5	73.5	73.6	74.0	79.0	74.0	45.2	74.0
2020	76.5	71.0	49.8	55.7	44.5	40.9	42.7	50.3	50.0	54.5	50.0	39.0	50.0
Húmido	63.2	67.0	47.2	48.8	41.5	40.9	42.1	47.9	48.0	51.5	48.0	31.9	48.0
Medio	90.2	78.0	60.8	75.6	56.1	60.5	61.1	61.3	61.0	67.3	61.0	53.5	61.0
Seco	119.5	110.0	92.9	100.8	87.9	86.9	91.4	93.7	94.0	96.3	94.0	98.5	94.0

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### 5.6 ERVILHA

Tabela 34. Necessidades hídricas úteis anuais da ervilha (mm)

Ano	Estuário	Sado	Oeste	Vila Franca de Xira	Sorraia	Almourol	Castelo de Bode	Castelo de Bode 2	Belver	Pracana	Fratel	Lis	Cedilho
2003	10.2	0.0	0.0	2.5	1.7	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0
2004	51.5	44.0	34.3	26.1	12.6	2.4	11.0	29.4	30.0	24.1	30.0	5.2	30.0
2005	119.6	118.0	61.1	74.9	47.9	62.4	54.8	54.4	54.0	56.0	54.0	33.2	54.0
2006	13.8	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2007	84.6	88.0	54.7	38.2	23.4	3.7	18.9	44.3	45.0	37.7	45.0	5.8	45.0
2008	38.0	26.0	1.6	6.1	3.1	0.4	1.5	0.8	0.0	5.3	0.0	1.7	0.0
2009	120.6	109.0	112.9	92.5	88.3	58.3	82.8	109.3	110.0	106.7	110.0	72.7	110.0
2010	30.0	7.0	3.7	6.6	2.6	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0
2011	70.0	50.0	60.3	42.2	35.5	15.5	32.1	55.3	56.0	46.7	56.0	18.1	56.0
2012	117.2	97.0	116.3	103.1	97.8	104.2	109.8	106.8	107.0	118.7	107.0	119.2	107.0
2013	15.6	10.0	5.4	4.1	2.2	0.0	0.2	0.5	0.0	0.0	0.0	2.5	0.0
2014	24.4	0.0	0.0	4.6	2.8	0.0	0.7	1.1	0.0	0.0	0.0	0.0	0.0
2015	65.6	70.0	59.1	49.1	29.7	62.6	56.2	50.5	51.0	57.2	51.0	51.8	51.0
2016	9.0	5.0	0.0	1.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2017	84.8	100.0	49.1	51.7	21.2	26.0	34.2	41.2	41.0	41.4	41.0	34.8	41.0
2018	16.0	6.0	0.0	3.2	0.0	3.0	0.5	0.0	0.0	1.9	0.0	0.0	0.0
2019	59.2	68.0	33.0	24.7	16.1	4.5	21.7	34.5	35.0	34.0	35.0	8.4	35.0
2020	48.9	33.0	13.3	11.6	7.0	2.2	6.0	16.1	16.0	12.0	16.0	0.0	16.0
Húmido	13.8	5.0	0.0	2.6	1.7	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0
Medio	53.7	44.0	31.8	24.7	12.6	2.4	11.0	29.4	30.0	26.6	30.0	5.2	30.0
Seco	112.8	100.0	63.8	75.9	49.1	61.6	59.8	56.5	56.0	61.0	56.0	51.8	56.0



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### 5.7 PIMENTO

Tabela 35. Necessidades hídricas úteis anuais do pimento (mm)

Ano	Estuário	Sado	Oeste	Vila Franca de Xira	Sorraia	Almourol	Castelo de Bode	Castelo de Bode 2	Belver	Pracana	Fratel	Lis	Cedilho
2003	481.4	425.0	352.0	443.9	390.3	473.0	422.7	398.6	398.0	426.0	398.0	287.1	398.0
2004	530.2	460.0	407.2	458.2	431.3	461.6	408.0	437.8	438.0	446.4	438.0	292.9	438.0
2005	527.2	422.0	420.0	499.2	465.3	497.7	478.2	471.0	471.0	499.3	471.0	365.9	471.0
2006	482.8	403.0	332.7	427.4	382.4	443.8	425.8	386.7	386.0	433.3	386.0	294.6	386.0
2007	452.8	310.0	330.2	380.5	388.3	407.7	355.4	393.8	394.0	392.8	394.0	128.1	394.0
2008	432.0	293.0	295.4	368.9	347.9	362.7	360.8	372.4	373.0	384.5	373.0	210.6	373.0
2009	458.2	369.0	291.6	382.3	341.8	385.7	341.8	345.8	346.0	357.5	346.0	207.7	346.0
2010	479.0	348.0	357.5	447.0	393.6	464.7	433.8	418.2	419.0	437.0	419.0	303.5	419.0
2011	434.2	359.0	368.9	403.4	405.8	442.2	406.1	424.1	424.0	425.3	424.0	292.3	424.0
2012	460.4	388.0	339.1	409.4	377.3	435.4	401.6	391.6	392.0	410.7	392.0	256.4	392.0
2013	530.1	443.0	402.0	488.2	455.8	511.1	476.2	461.8	462.0	488.0	462.0	340.9	462.0
2014	436.2	368.0	302.2	402.8	343.2	467.7	402.1	348.2	348.0	382.5	348.0	274.1	348.0
2015	503.3	491.0	368.9	468.1	405.5	546.5	459.7	410.0	409.0	439.1	409.0	342.4	409.0
2016	471.5	420.0	326.2	428.1	365.8	446.2	416.7	389.4	390.0	420.0	390.0	239.3	390.0
2017	514.5	462.0	361.4	472.0	405.8	521.7	444.8	414.7	414.0	440.5	414.0	300.1	414.0
2018	385.8	323.0	214.9	302.0	264.9	352.3	276.6	270.0	270.0	299.0	270.0	120.0	270.0
2019	435.8	433.0	316.1	385.7	341.4	413.3	366.4	352.0	352.0	378.8	352.0	240.6	352.0
2020	454.2	384.0	337.2	413.0	372.2	429.6	407.8	387.8	388.0	412.1	388.0	281.4	388.0
Húmido	438.6	348.0	302.3	384.5	343.4	407.7	354.6	352.3	352.0	368.8	352.0	210.6	352.0
Medio	474.0	403.0	339.9	422.4	386.0	448.2	413.6	394.4	394.0	416.7	394.0	287.5	394.0
Seco	527.2	460.0	396.0	472.0	433.5	511.1	468.0	437.8	438.0	470.0	438.0	337.4	438.0

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### 5.8 AMÊNDOA

Tabela 36. Necessidades hídricas úteis anuais da amêndoa (mm)

Ano	Estuário	Sado	Oeste	Vila Franca de Xira	Sorraia	Almourol	Castelo de Bode	Castelo de Bode 2	Belver	Pracana	Fratel	Lis	Cedilho
2003	602.3	625.0	507.8	556.5	485.7	547.8	522.4	510.3	511.0	538.8	511.0	466.6	511.0
2004	703.0	682.0	565.0	581.5	543.6	566.6	519.1	567.5	568.0	581.1	568.0	361.1	568.0
2005	776.1	738.0	644.0	708.0	635.3	687.7	653.8	645.1	645.0	681.0	645.0	587.1	645.0
2006	631.0	612.0	507.8	553.0	486.0	541.6	537.7	510.3	511.0	557.6	511.0	473.5	511.0
2007	642.0	541.0	563.8	538.5	542.4	511.6	486.3	566.3	567.0	552.1	567.0	343.9	567.0
2008	569.3	500.0	442.8	467.3	423.3	506.6	458.4	445.3	446.0	468.8	446.0	375.1	446.0
2009	707.0	666.0	575.8	589.5	554.0	557.5	537.1	578.3	579.0	588.8	579.0	437.5	579.0
2010	641.0	579.0	548.6	605.5	527.5	602.6	579.1	551.3	552.0	577.8	552.0	551.6	552.0
2011	619.3	611.0	600.1	551.0	579.0	573.2	541.4	601.5	601.0	597.1	601.0	480.1	601.0
2012	656.6	634.0	562.8	591.8	553.9	613.2	569.6	563.8	564.0	593.6	564.0	450.5	564.0
2013	687.0	666.0	590.8	621.2	569.4	633.6	601.1	593.3	594.0	626.6	594.0	526.5	594.0
2014	530.3	520.0	417.8	476.1	396.0	537.6	475.1	420.3	421.0	459.8	421.0	393.5	421.0
2015	661.3	718.0	533.0	589.7	511.8	694.8	589.0	535.5	536.0	572.3	536.0	475.6	536.0
2016	627.2	688.0	514.8	574.8	493.4	594.6	559.1	517.3	518.0	559.6	518.0	464.5	518.0
2017	735.8	804.0	583.8	671.1	562.5	724.6	629.9	586.3	587.0	626.1	587.0	536.5	587.0
2018	553.0	589.0	413.6	453.5	392.0	486.2	419.2	416.3	417.0	453.1	417.0	345.7	417.0
2019	632.2	700.0	516.8	560.8	496.5	582.2	532.0	519.3	520.0	547.6	520.0	414.5	520.0
2020	589.5	605.0	489.8	529.5	468.0	541.0	513.1	492.3	493.0	527.3	493.0	436.5	493.0
Húmido	589.5	579.0	489.8	529.5	468.0	537.6	496.6	492.3	493.0	513.8	493.0	375.1	493.0
Medio	641.1	634.0	548.6	574.8	527.5	573.2	541.6	551.3	552.0	571.6	552.0	464.5	552.0
Seco	707.0	718.0	590.8	621.2	569.4	687.4	606.4	593.3	594.0	626.6	594.0	536.5	594.0

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### 5.9 LARANJA

Tabela 37. Necessidades hídricas úteis anuais da laranja (mm)

Ano	Estuário	Sado	Oeste	Vila Franca de Xira	Sorraia	Almourol	Castelo de Bode	Castelo de Bode 2	Belver	Pracana	Fratel	Lis	Cedilho
2003	369.2	376.0	296.1	326.6	269.1	305.6	296.7	299.3	300.0	315.6	300.0	251.0	300.0
2004	459.1	431.0	343.1	347.2	316.1	325.3	290.7	346.3	347.0	349.4	347.0	153.0	347.0
2005	563.0	518.0	444.6	491.4	429.3	464.3	442.7	446.5	447.0	469.6	447.0	346.9	447.0
2006	386.2	363.0	284.4	308.6	257.4	283.3	292.6	287.3	288.0	317.8	288.0	235.1	288.0
2007	432.2	334.0	352.8	328.4	326.1	272.3	275.5	356.1	357.0	331.3	357.0	176.5	357.0
2008	340.2	276.0	245.8	261.6	219.0	292.6	256.0	249.1	250.0	264.8	250.0	185.5	250.0
2009	488.2	448.0	375.8	373.6	349.0	330.9	325.2	379.1	380.0	380.1	380.0	228.0	380.0
2010	393.2	340.0	320.8	354.2	294.1	340.1	330.9	324.1	325.0	336.6	325.0	298.5	325.0
2011	382.0	380.0	373.8	318.0	349.2	327.6	309.2	377.1	378.0	366.1	378.0	259.1	378.0
2012	449.9	429.0	375.7	384.8	361.3	388.2	358.5	377.5	378.0	393.6	378.0	254.4	378.0
2013	440.2	420.0	359.8	376.6	333.1	371.3	355.1	363.1	364.0	383.1	364.0	292.0	364.0
2014	305.3	294.0	210.4	252.6	183.4	286.6	245.9	213.3	214.0	239.8	214.0	174.4	214.0
2015	436.1	479.0	325.1	362.7	298.1	437.4	357.4	328.3	329.0	350.4	329.0	255.5	329.0
2016	383.1	421.0	300.8	335.7	274.1	330.9	322.2	304.1	305.0	330.9	305.0	246.0	305.0
2017	493.1	544.0	359.4	422.2	332.4	449.6	387.2	362.3	363.0	388.1	363.0	319.0	363.0
2018	344.2	364.0	225.1	247.6	198.1	254.3	214.0	228.3	229.0	248.8	229.0	159.5	229.0
2019	418.9	475.0	306.1	335.5	280.0	339.8	308.8	309.3	310.0	324.1	310.0	210.5	310.0
2020	370.4	369.0	279.8	305.2	253.0	296.3	286.4	283.1	284.0	304.9	284.0	224.0	284.0
Húmido	366.8	340.0	279.8	305.2	253.0	286.6	266.9	283.1	284.0	292.3	284.0	176.5	284.0
Medio	416.4	420.0	325.1	336.0	298.1	330.9	309.9	328.3	329.0	339.6	329.0	246.0	329.0
Seco	488.2	479.0	374.5	384.8	348.9	437.2	372.1	377.3	378.0	394.2	378.0	298.5	378.0

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### 5.10 MAÇÃ

Tabela 38. Necessidades hídricas úteis anuais da maçã (mm)

Ano	Estuário	Sado	Oeste	Vila Franca de Xira	Sorraia	Almourol	Castelo de Bode	Castelo de Bode 2	Belver	Pracana	Fratel	Lis	Cedilho
2003	281.1	286.0	220.4	244.6	193.4	220.9	218.6	223.3	224.0	236.6	224.0	180.0	224.0
2004	315.2	296.0	216.8	217.6	190.1	210.3	203.2	220.1	221.0	239.9	221.0	91.5	221.0
2005	343.7	318.0	277.8	297.1	251.1	263.1	271.0	281.1	282.0	302.4	282.0	249.0	282.0
2006	274.2	255.0	199.8	217.7	173.0	190.6	200.9	203.1	204.0	228.3	204.0	151.4	204.0
2007	262.2	196.0	218.1	198.7	191.1	189.9	184.4	221.3	222.0	217.3	222.0	136.5	222.0
2008	279.2	242.0	213.4	218.2	186.4	237.3	213.2	216.3	217.0	227.3	217.0	145.4	217.0
2009	287.2	265.0	212.8	212.6	186.0	191.5	185.2	216.1	217.0	217.6	217.0	127.5	217.0
2010	305.2	270.0	263.4	279.4	236.4	255.9	263.9	266.3	267.0	276.1	267.0	227.4	267.0
2011	297.2	314.0	293.0	240.7	266.3	211.3	232.9	296.1	297.0	287.1	297.0	193.5	297.0
2012	300.2	298.0	243.8	250.2	217.0	255.3	243.4	247.1	248.0	259.4	248.0	168.0	248.0
2013	322.1	306.0	257.1	267.2	230.1	260.9	249.5	260.3	261.0	276.4	261.0	194.4	261.0
2014	198.2	200.0	132.8	156.2	106.0	171.9	154.0	136.1	137.0	152.8	137.0	120.5	137.0
2015	302.2	340.0	229.1	248.2	202.1	273.9	241.1	232.3	233.0	246.1	233.0	189.0	233.0
2016	322.2	354.0	248.1	279.6	221.1	270.6	267.0	251.3	252.0	275.4	252.0	209.0	252.0
2017	341.1	382.0	260.4	302.2	233.4	306.6	283.3	263.3	264.0	284.3	264.0	228.4	264.0
2018	259.2	277.0	172.8	190.7	146.1	197.9	178.8	176.1	177.0	194.6	177.0	145.5	177.0
2019	289.2	313.0	222.8	243.6	196.1	243.9	219.0	226.1	227.0	236.4	227.0	146.5	227.0
2020	300.1	304.0	223.1	245.2	196.1	240.3	234.9	226.3	227.0	245.1	227.0	179.5	227.0
Húmido	274.2	255.0	212.8	212.6	186.0	191.5	190.8	216.1	217.0	224.6	217.0	136.5	217.0
Medio	300.1	298.0	223.1	244.6	196.1	240.3	219.5	226.3	227.0	243.6	227.0	179.5	227.0
Seco	322.2	340.0	263.4	279.6	236.4	270.6	266.5	266.3	267.0	286.6	267.0	227.4	267.0

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### 5.11 Noz

Tabela 39. Necessidades hídricas úteis anuais da noz (mm)

Ano	Estuário	Sado	Oeste	Vila Franca de Xira	Sorraia	Almourol	Castelo de Bode	Castelo de Bode 2	Belver	Pracana	Fratel	Lis	Cedilho
2003	571.2	286.0	284.1	521.2	448.1	504.9	485.6	478.3	479.0	504.9	479.0	180.0	479.0
2004	675.2	296.0	292.5	538.7	493.4	526.3	479.6	523.3	524.0	539.3	524.0	91.5	524.0
2005	701.7	318.0	357.0	638.6	568.1	600.8	597.9	598.3	599.0	636.6	599.0	249.0	599.0
2006	582.0	255.0	266.8	509.7	441.4	491.3	492.7	471.3	472.0	515.9	472.0	151.4	472.0
2007	624.2	196.0	300.9	518.7	522.1	480.3	480.5	552.3	553.0	536.1	553.0	136.5	553.0
2008	562.2	242.0	266.4	459.6	398.3	496.7	445.5	428.1	429.0	453.8	429.0	145.4	429.0
2009	647.2	265.0	286.8	526.6	482.1	498.9	477.5	512.3	513.0	523.9	513.0	127.5	513.0
2010	608.2	270.0	326.6	569.2	489.4	557.6	540.7	519.2	520.0	543.4	520.0	227.4	520.0
2011	595.2	314.0	368.0	528.2	566.2	531.3	528.9	596.1	597.0	591.4	597.0	193.5	597.0
2012	573.6	298.0	304.3	515.7	459.4	544.9	502.1	489.3	490.0	516.1	490.0	168.0	490.0
2013	645.2	306.0	330.4	576.7	523.1	582.9	556.5	553.1	554.0	584.1	554.0	194.4	554.0
2014	481.2	200.0	191.5	422.7	341.4	475.3	419.8	371.3	372.0	407.9	372.0	120.5	372.0
2015	607.6	340.0	294.9	532.6	465.1	609.6	524.4	495.1	496.0	526.5	496.0	189.0	496.0
2016	604.2	354.0	309.6	550.7	467.0	562.3	533.4	497.1	498.0	537.4	498.0	209.0	498.0
2017	724.1	382.0	333.1	640.6	524.1	692.0	603.0	554.1	555.0	596.1	555.0	228.4	555.0
2018	544.2	277.0	229.3	437.6	372.1	457.9	399.8	402.3	403.0	435.9	403.0	145.5	403.0
2019	593.1	313.0	291.3	536.7	470.1	551.9	507.5	500.1	501.0	526.6	501.0	146.5	501.0
2020	576.4	304.0	285.9	510.7	446.8	513.6	490.3	477.1	478.0	510.6	478.0	179.5	478.0
Húmido	571.2	255.0	276.5	509.7	441.4	491.3	458.4	471.3	472.0	487.6	472.0	136.5	472.0
Medio	604.2	298.0	291.6	528.2	470.1	531.3	501.4	500.1	501.0	526.6	501.0	179.5	501.0
Seco	675.2	340.0	335.4	576.7	524.1	600.6	556.8	554.1	555.0	584.9	555.0	227.4	555.0

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### 5.12 OLIVAL

Tabela 40. Necessidades hídricas úteis anuais do olival (mm)

Ano	Estuário	Sado	Oeste	Vila Franca de Xira	Sorraia	Almourol	Castelo de Bode	Castelo de Bode 2	Belver	Pracana	Fratel	Lis	Cedilho
2003	174.2	313.0	216.6	139.6	98.1	113.6	116.6	128.1	129.0	135.1	129.0	207.6	129.0
2004	226.2	330.0	217.1	126.7	106.1	107.6	93.8	136.1	137.0	141.6	137.0	104.6	137.0
2005	285.1	339.0	284.0	226.9	187.3	205.2	188.3	203.7	204.0	213.4	204.0	261.6	204.0
2006	169.2	287.0	199.0	109.7	75.1	78.3	95.2	105.3	106.0	122.1	106.0	188.1	106.0
2007	175.1	206.0	192.1	88.6	81.0	70.3	68.9	111.1	112.0	100.1	112.0	104.6	112.0
2008	148.2	240.0	183.1	93.2	66.0	114.3	89.5	96.1	97.0	102.1	97.0	151.5	97.0
2009	228.4	290.0	191.1	130.6	107.4	91.3	86.5	137.3	138.0	129.1	138.0	146.5	138.0
2010	183.2	281.0	241.3	146.6	114.1	126.9	133.3	144.3	145.0	146.1	145.0	239.1	145.0
2011	167.2	304.0	253.6	116.2	144.4	93.6	107.3	174.3	175.0	159.4	175.0	183.5	175.0
2012	197.7	308.0	223.3	140.4	116.3	131.1	121.5	131.6	131.0	141.6	131.0	180.1	131.0
2013	225.2	341.0	259.3	167.7	137.1	153.6	148.1	167.3	168.0	176.3	168.0	228.5	168.0
2014	116.2	239.0	128.3	68.7	18.1	84.3	58.8	42.2	43.0	58.3	43.0	141.1	43.0
2015	191.1	367.0	220.6	136.6	99.4	173.8	127.6	129.3	130.0	134.8	130.0	225.1	130.0
2016	182.2	353.0	220.6	141.7	99.4	121.3	130.8	129.3	130.0	143.6	130.0	206.1	130.0
2017	249.2	378.0	236.8	190.6	124.7	192.2	158.0	154.3	155.0	164.9	155.0	233.5	155.0
2018	156.1	286.0	144.0	81.2	47.0	69.6	69.1	77.1	78.0	83.9	78.0	131.1	78.0
2019	183.1	336.0	209.8	141.7	96.1	136.3	118.2	126.3	127.0	130.1	127.0	173.1	127.0
2020	170.1	303.0	207.3	120.6	82.1	107.6	111.3	112.1	113.0	122.1	113.0	199.1	113.0
Húmido	167.2	281.0	185.3	93.2	75.1	84.3	77.7	105.3	106.0	105.6	106.0	141.1	106.0
Medio	182.4	308.0	216.8	135.0	99.4	114.3	116.9	129.3	130.0	134.9	130.0	188.1	130.0
Seco	228.4	353.0	251.8	167.7	137.1	173.8	148.1	167.3	168.0	174.6	168.0	233.5	168.0

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### 5.13 OLIVAL INTENSIVO

Tabela 41. Necessidades hídricas úteis anuais do olival intensivo (mm)

Ano	Estuário	Sado	Oeste	Vila Franca de Xira	Sorraia	Almourol	Castelo de Bode	Castelo de Bode 2	Belver	Pracana	Fratel	Lis	Cedilho
2003	245.2	589.0	403.1	207.7	160.1	183.3	181.5	190.3	191.0	200.4	191.0	431.0	191.0
2004	317.1	651.0	444.6	215.2	190.4	192.3	166.0	220.3	221.0	222.1	221.0	324.5	221.0
2005	393.9	663.0	520.1	329.8	281.4	306.0	286.8	298.5	299.0	312.3	299.0	552.4	299.0
2006	252.1	575.0	393.1	180.6	140.1	150.9	165.1	170.3	171.0	191.9	171.0	427.5	171.0
2007	283.2	515.0	464.9	190.2	184.7	137.3	143.0	215.1	216.0	190.4	216.0	357.0	216.0
2008	211.2	482.0	355.0	155.6	119.1	181.9	150.5	149.1	150.0	159.4	150.0	364.0	150.0
2009	334.2	615.0	439.9	226.6	205.4	185.9	181.7	235.3	236.0	230.6	236.0	403.1	236.0
2010	259.2	545.0	438.6	221.6	178.1	204.3	202.4	208.3	209.0	213.3	209.0	511.4	209.0
2011	245.4	600.0	506.8	188.1	223.7	189.6	183.3	252.3	253.0	237.8	253.0	471.4	253.0
2012	289.9	588.0	419.9	231.4	207.3	228.0	206.4	223.4	224.0	235.7	224.0	394.8	224.0
2013	306.2	622.0	471.5	246.6	210.0	235.3	225.2	240.1	241.0	253.4	241.0	480.0	241.0
2014	185.2	469.0	301.4	134.6	73.4	156.6	125.9	103.3	104.0	123.1	104.0	337.5	104.0
2015	285.2	673.0	417.5	222.2	168.0	274.7	213.9	198.1	199.0	210.8	199.0	438.0	199.0
2016	255.2	669.0	417.8	212.6	163.1	196.6	200.0	193.1	194.0	211.8	194.0	438.5	194.0
2017	349.1	803.0	472.0	284.7	209.1	296.6	250.9	239.1	240.0	255.9	240.0	503.5	240.0
2018	228.2	577.0	330.6	139.6	98.1	136.6	118.0	128.1	129.0	140.1	129.0	324.5	129.0
2019	274.9	647.0	420.8	215.6	166.2	212.9	190.5	196.3	197.0	204.1	197.0	388.0	197.0
2020	241.1	589.0	397.0	186.6	141.4	170.6	170.8	171.3	172.0	186.1	172.0	396.4	172.0
Húmido	240.0	545.0	393.1	180.6	140.1	156.6	151.0	170.3	171.0	175.1	171.0	357.0	171.0
Medio	273.6	600.0	423.8	215.2	178.1	192.3	186.9	208.3	209.0	213.9	209.0	427.5	209.0
Seco	334.2	669.0	472.3	246.6	212.4	274.7	226.5	240.1	241.0	253.4	241.0	503.5	241.0

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### 5.14 OLIVAL SUPER INTENSIVO

Tabela 42. Necessidades hídricas úteis anuais do olival super intensivo (mm)

Ano	Estuário	Sado	Oeste	Vila Franca de Xira	Sorraia	Almourol	Castelo de Bode	Castelo de Bode 2	Belver	Pracana	Fratel	Lis	Cedilho
2003	369.2	247.0	214.4	326.6	269.1	305.6	296.7	299.3	300.0	315.6	300.0	144.0	300.0
2004	459.1	293.0	248.9	347.2	316.1	325.3	290.7	346.3	347.0	349.4	347.0	45.0	347.0
2005	563.0	351.0	333.6	491.4	429.3	464.3	442.7	446.5	447.0	469.6	447.0	207.0	447.0
2006	386.2	228.0	196.4	308.6	257.4	283.3	292.6	287.3	288.0	317.8	288.0	113.0	288.0
2007	432.2	190.0	246.5	328.4	326.1	272.3	275.5	356.1	357.0	331.3	357.0	91.0	357.0
2008	340.2	173.0	170.8	261.6	219.0	292.6	256.0	249.1	250.0	264.8	250.0	86.4	250.0
2009	488.2	299.0	268.4	373.6	349.0	330.9	325.2	379.1	380.0	380.1	380.0	90.0	380.0
2010	393.2	213.0	234.1	354.2	294.1	340.1	330.9	324.1	325.0	336.6	325.0	167.5	325.0
2011	382.0	258.0	280.6	318.0	349.2	327.6	309.2	377.1	378.0	366.1	378.0	144.5	378.0
2012	449.9	266.0	259.8	384.8	361.3	388.2	358.5	377.5	378.0	393.6	378.0	111.9	378.0
2013	440.2	289.0	267.5	376.6	333.1	371.3	355.1	363.1	364.0	383.1	364.0	170.0	364.0
2014	305.3	173.0	127.9	252.6	183.4	286.6	245.9	213.3	214.0	239.8	214.0	61.5	214.0
2015	436.1	312.0	227.3	362.7	298.1	437.4	357.4	328.3	329.0	350.4	329.0	145.5	329.0
2016	383.1	279.0	217.5	335.7	274.1	330.9	322.2	304.1	305.0	330.9	305.0	137.0	305.0
2017	493.1	384.0	266.5	422.2	332.4	449.6	387.2	362.3	363.0	388.1	363.0	201.0	363.0
2018	344.2	239.0	149.8	247.6	198.1	254.3	214.0	228.3	229.0	248.8	229.0	88.4	229.0
2019	418.9	311.0	221.4	335.5	280.0	339.8	308.8	309.3	310.0	324.1	310.0	107.0	310.0
2020	370.4	242.0	196.4	305.2	253.0	296.3	286.4	283.1	284.0	304.9	284.0	119.0	284.0
Húmido	366.8	213.0	195.4	305.2	253.0	286.6	266.9	283.1	284.0	292.3	284.0	88.4	284.0
Medio	416.4	266.0	235.1	336.0	298.1	330.9	309.9	328.3	329.0	339.6	329.0	121.8	329.0
Seco	488.2	312.0	271.5	384.8	348.9	437.2	372.1	377.3	378.0	394.2	378.0	170.0	378.0



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### 5.15 VINHA DE QUANTIDADE

Tabela 43. Necessidades hídricas úteis anuais da vinha de quantidade (mm)

Ano	Estuário	Sado	Oeste	Vila Franca de Xira	Sorraia	Almourol	Castelo de Bode	Castelo de Bode 2	Belver	Pracana	Fratel	Lis	Cedilho
2003	112.3	376.0	240.6	78.5	53.4	63.8	64.8	77.3	78.0	81.1	78.0	251.0	78.0
2004	149.3	431.0	284.9	115.7	89.8	96.8	101.9	113.5	114.0	119.6	114.0	153.0	114.0
2005	141.0	518.0	360.9	117.2	87.0	98.0	107.2	111.3	112.0	120.1	112.0	346.9	112.0
2006	84.0	363.0	222.9	42.0	18.2	13.8	34.1	41.3	42.0	57.3	42.0	235.1	42.0
2007	89.1	334.0	277.0	34.5	29.0	32.6	28.6	53.3	54.0	50.1	54.0	176.5	54.0
2008	137.3	276.0	211.0	102.5	86.0	87.2	95.4	110.3	111.0	113.3	111.0	185.5	111.0
2009	84.0	448.0	291.8	38.2	19.8	22.2	23.6	43.5	44.0	44.6	44.0	228.0	44.0
2010	116.0	340.0	262.3	88.2	66.8	70.2	78.5	90.5	91.0	90.9	91.0	298.5	91.0
2011	133.3	380.0	307.3	104.7	87.8	90.6	93.9	111.5	112.0	108.1	112.0	259.1	112.0
2012	132.3	429.0	306.0	99.5	74.8	89.8	89.7	98.5	99.0	101.6	99.0	254.4	99.0
2013	121.4	420.0	290.0	87.2	60.8	78.0	80.3	84.5	85.0	93.1	85.0	292.0	85.0
2014	82.3	294.0	168.9	57.1	23.1	55.6	51.6	47.3	48.0	53.9	48.0	174.4	48.0
2015	115.3	479.0	263.6	91.7	58.4	95.6	86.4	82.3	83.0	89.3	83.0	255.5	83.0
2016	128.0	421.0	248.8	105.2	72.4	96.6	94.7	96.3	97.0	105.1	97.0	246.0	97.0
2017	132.0	544.0	292.6	105.7	71.8	103.2	91.2	95.5	96.0	99.8	96.0	319.0	96.0
2018	64.1	364.0	169.4	13.1	4.7	17.4	4.2	7.4	6.0	12.8	6.0	159.5	6.0
2019	92.1	475.0	243.9	61.5	36.0	53.6	51.0	60.3	61.0	66.9	61.0	210.5	61.0
2020	124.1	369.0	233.5	98.5	74.4	84.8	91.2	98.3	99.0	104.4	99.0	224.0	99.0
Húmido	84.0	340.0	220.8	42.0	23.1	32.6	35.9	47.3	48.0	53.9	48.0	176.5	48.0
Medio	121.4	420.0	265.6	91.7	66.8	84.8	87.3	90.5	91.0	95.3	91.0	246.0	91.0
Seco	137.3	479.0	308.0	105.7	87.0	96.8	99.2	111.3	112.0	116.4	112.0	298.5	112.0

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### 5.16 VINHA DE QUALIDADE

Tabela 44. Necessidades hídricas úteis anuais da vinha de qualidade (mm)

Ano	Estuário	Sado	Oeste	Vila Franca de Xira	Sorraia	Almourol	Castelo de Bode	Castelo de Bode 2	Belver	Pracana	Fratel	Lis	Cedilho
2003	68.3	313.0	194.1	36.5	16.8	20.9	25.1	39.8	39.0	39.8	39.0	207.6	39.0
2004	97.1	330.0	199.8	66.5	43.4	46.3	54.5	68.8	68.0	70.8	68.0	104.6	68.0
2005	91.0	339.0	249.5	68.1	41.8	47.6	58.4	67.0	66.0	70.9	66.0	261.6	66.0
2006	41.4	287.0	175.0	15.2	5.4	1.2	5.5	12.1	10.0	20.1	10.0	188.1	10.0
2007	44.6	206.0	167.6	10.7	6.7	2.6	6.1	16.1	14.0	12.5	14.0	104.6	14.0
2008	88.0	240.0	175.1	55.5	40.0	38.5	48.0	65.8	65.0	65.3	65.0	151.5	65.0
2009	40.6	290.0	158.6	8.5	5.0	0.6	3.0	10.2	8.0	6.4	8.0	146.5	8.0
2010	68.3	281.0	217.1	41.5	23.4	22.3	32.9	48.8	48.0	45.8	48.0	239.1	48.0
2011	85.1	304.0	226.3	58.2	41.8	41.7	47.3	67.0	66.0	61.9	66.0	183.5	66.0
2012	84.0	308.0	204.5	53.5	31.4	41.1	44.6	56.8	56.0	56.6	56.0	180.1	56.0
2013	75.1	341.0	228.1	42.2	19.2	31.0	35.2	43.8	43.0	48.3	43.0	228.5	43.0
2014	39.8	239.0	119.6	18.2	5.2	9.8	11.3	10.2	8.0	11.6	8.0	141.1	8.0
2015	68.1	367.0	198.6	45.7	18.2	43.4	39.7	42.8	42.0	44.8	42.0	225.1	42.0
2016	78.0	353.0	201.3	56.7	28.4	43.7	46.8	53.8	53.0	58.3	53.0	206.1	53.0
2017	83.3	378.0	211.5	58.2	29.0	49.2	44.4	54.8	54.0	54.4	54.0	233.5	54.0
2018	31.6	286.0	124.5	3.4	1.4	0.4	0.2	0.0	0.0	0.0	0.0	131.1	0.0
2019	51.4	336.0	184.1	24.7	10.5	12.9	15.6	25.6	24.0	27.6	24.0	173.1	24.0
2020	77.3	303.0	193.1	53.2	31.0	36.5	46.0	56.8	56.0	58.8	56.0	199.1	56.0
Húmido	41.4	281.0	161.3	15.2	5.4	2.6	5.5	12.1	10.0	13.1	10.0	141.1	10.0
Medio	75.1	308.0	196.3	45.7	23.4	36.5	41.5	48.8	48.0	49.3	48.0	188.1	48.0
Seco	88.0	353.0	226.3	58.2	41.8	46.3	50.7	67.0	66.0	68.1	66.0	233.5	66.0

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### 5.17 MILHO

Tabela 45. Necessidades hídricas úteis anuais do milho (mm)

Ano	Estuário	Sado	Oeste	Vila Franca de Xira	Sorraia	Almourol	Castelo de Bode	Castelo de Bode 2	Belver	Pracana	Fratel	Lis	Cedilho
2003	388.1	445.0	340.8	331.7	283.8	331.0	302.3	305.6	307.0	327.3	307.0	312.1	307.0
2004	459.9	429.0	337.5	350.5	327.6	325.0	290.9	341.1	342.0	346.2	342.0	163.0	342.0
2005	478.7	436.0	404.5	428.5	396.8	396.9	396.7	411.0	412.0	433.8	412.0	371.1	412.0
2006	445.9	416.0	336.1	353.5	311.3	339.0	333.3	324.1	324.0	359.8	324.0	301.1	324.0
2007	403.9	324.0	335.8	312.5	322.3	296.8	277.0	334.3	335.0	330.8	335.0	176.6	335.0
2008	367.1	331.0	295.0	288.0	275.6	270.6	272.2	296.8	298.0	307.1	298.0	218.7	298.0
2009	428.2	410.0	318.3	326.7	287.7	302.6	274.9	300.3	301.0	309.5	301.0	256.0	301.0
2010	430.6	399.0	364.1	381.3	337.8	359.0	359.0	359.6	361.0	377.6	361.0	368.0	361.0
2011	356.2	401.0	366.8	291.9	315.9	320.0	287.9	335.5	336.0	328.1	336.0	247.8	336.0
2012	429.2	421.0	351.0	355.1	328.4	350.6	340.1	348.9	350.0	364.8	350.0	265.0	350.0
2013	473.9	455.0	397.5	412.5	383.8	405.8	388.9	398.0	399.0	420.5	399.0	339.8	399.0
2014	352.2	338.0	243.8	288.5	236.0	311.8	274.5	248.1	249.0	275.8	249.0	216.0	249.0
2015	439.4	498.0	347.2	382.6	325.2	440.0	372.6	337.3	337.0	362.0	337.0	279.0	337.0
2016	430.1	468.0	325.2	372.1	315.4	365.3	354.9	336.8	338.0	368.3	338.0	269.2	338.0
2017	479.9	481.0	336.1	412.6	343.4	442.6	374.5	356.1	357.0	382.8	357.0	277.3	357.0
2018	324.6	412.0	245.3	214.7	174.8	222.4	189.9	196.6	198.0	220.8	198.0	198.0	198.0
2019	395.0	454.0	324.8	321.2	280.4	312.8	291.1	301.8	303.0	316.3	303.0	251.0	303.0
2020	420.1	400.0	323.0	357.5	313.8	346.6	343.0	335.6	337.0	360.6	337.0	262.2	337.0
Húmido	371.0	399.0	310.7	294.0	279.7	302.6	275.3	299.5	301.0	308.9	301.0	214.5	301.0
Medio	428.6	421.0	336.3	351.5	317.8	338.4	333.8	336.1	337.0	355.1	337.0	263.4	337.0
Seco	473.9	468.0	373.0	412.1	346.1	405.8	377.8	361.2	361.0	387.5	361.0	339.8	361.0

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### 5.18 GIRASSOL

Tabela 46. Necessidades hídricas úteis anuais do girassol (mm)

Ano	Estuário	Sado	Oeste	Vila Franca de Xira	Sorraia	Almourol	Castelo de Bode	Castelo de Bode 2	Belver	Pracana	Fratel	Lis	Cedilho
2003	441.3	548.0	422.1	405.2	347.0	391.9	377.4	369.3	370.0	391.9	370.0	412.4	370.0
2004	464.3	571.0	439.3	373.3	344.0	375.8	339.0	366.3	367.0	377.9	367.0	292.4	367.0
2005	501.3	583.0	508.8	461.6	406.0	435.3	435.5	428.5	429.0	462.4	429.0	504.2	429.0
2006	449.3	542.0	417.8	399.2	343.0	384.3	381.6	365.5	366.0	403.4	366.0	402.1	366.0
2007	430.9	439.0	440.4	365.4	363.0	381.3	342.2	385.5	386.0	385.6	386.0	275.7	386.0
2008	404.9	438.0	383.4	326.1	284.8	329.8	313.4	323.8	325.0	337.3	325.0	341.1	325.0
2009	456.3	524.0	412.1	391.4	349.0	385.8	360.2	371.5	372.0	382.9	372.0	353.2	372.0
2010	489.6	491.0	469.2	473.4	419.6	460.8	458.4	442.3	443.0	464.4	443.0	468.3	443.0
2011	399.3	500.0	448.1	346.7	374.6	347.3	348.3	397.3	398.0	394.6	398.0	359.7	398.0
2012	489.7	533.0	455.7	444.2	404.0	463.8	436.8	426.5	427.0	448.6	427.0	384.2	427.0
2013	484.3	604.0	512.4	438.6	398.0	448.8	427.3	420.5	421.0	449.1	421.0	495.4	421.0
2014	343.3	450.0	332.3	303.2	237.3	345.8	300.9	259.5	260.0	289.1	260.0	347.2	260.0
2015	464.6	624.0	434.3	419.4	363.0	476.8	419.1	385.5	386.0	411.4	386.0	411.8	386.0
2016	500.3	594.0	435.1	460.3	389.0	474.8	449.1	411.3	412.0	448.6	412.0	398.2	412.0
2017	498.3	636.0	451.3	462.3	385.6	490.3	442.6	408.3	409.0	440.2	409.0	424.9	409.0
2018	389.3	507.0	331.3	311.3	257.1	338.8	284.5	279.3	280.0	307.1	280.0	300.2	280.0
2019	442.3	577.0	410.2	398.2	351.0	411.8	377.5	373.5	374.0	392.1	374.0	348.2	374.0
2020	470.3	522.0	425.5	438.2	381.0	447.9	425.7	403.5	404.0	431.4	404.0	395.1	404.0
Húmido	406.5	491.0	407.0	347.3	343.0	347.3	336.4	365.5	366.0	370.6	366.0	338.9	366.0
Medio	464.3	542.0	434.0	405.2	363.0	411.8	387.6	385.5	386.0	411.4	386.0	395.1	386.0
Seco	498.3	604.0	465.9	461.6	404.0	474.8	448.0	426.5	427.0	453.7	427.0	468.3	427.0

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### 5.19 SORGO

Tabela 47. Necessidades hídricas úteis anuais do sorgo (mm)

Ano	Estuário	Sado	Oeste	Vila Franca de Xira	Sorraia	Almourol	Castelo de Bode	Castelo de Bode 2	Belver	Pracana	Fratel	Lis	Cedilho
2003	348.2	458.0	337.5	285.6	209.2	277.2	255.2	250.8	252.0	273.4	252.0	335.6	252.0
2004	395.2	453.0	344.0	290.8	244.2	255.2	230.7	286.0	287.0	284.6	287.0	223.6	287.0
2005	400.2	488.0	402.4	345.7	290.0	304.2	315.9	331.8	333.0	354.4	333.0	414.6	333.0
2006	353.2	437.0	331.9	260.3	197.2	249.3	250.2	238.8	240.0	275.9	240.0	335.6	240.0
2007	328.1	365.0	351.1	228.8	215.1	220.0	195.4	256.8	258.0	250.2	258.0	220.6	258.0
2008	295.6	351.0	295.0	204.9	157.4	159.3	187.6	223.1	225.0	229.4	225.0	261.1	225.0
2009	334.3	434.0	329.4	229.7	169.2	197.8	181.2	211.8	213.0	215.4	213.0	301.6	213.0
2010	340.5	451.0	393.5	283.7	195.8	271.9	260.2	256.2	258.0	267.7	258.0	424.6	258.0
2011	287.4	431.0	359.8	226.6	201.6	242.9	212.7	256.9	258.0	251.0	258.0	281.6	258.0
2012	334.2	482.0	378.6	250.4	205.2	221.3	218.2	245.0	245.0	251.5	245.0	345.0	245.0
2013	404.2	470.0	394.9	337.7	285.0	322.6	317.2	326.8	328.0	346.4	328.0	373.6	328.0
2014	307.2	351.0	244.1	245.7	164.2	273.0	237.1	206.6	208.0	234.4	208.0	238.6	208.0
2015	367.2	516.0	353.1	303.8	223.8	344.0	288.1	264.8	266.0	285.6	266.0	355.8	266.0
2016	328.6	550.0	365.3	255.3	168.5	227.8	233.9	235.1	237.0	258.4	237.0	373.6	237.0
2017	382.1	559.0	370.5	308.8	224.3	321.9	268.4	266.8	268.0	286.1	268.0	364.6	268.0
2018	271.3	424.0	243.5	161.7	102.2	170.3	126.8	144.8	146.0	166.1	146.0	226.2	146.0
2019	308.2	481.0	329.1	226.8	164.0	219.9	188.3	204.8	206.0	217.1	206.0	306.6	206.0
2020	321.0	491.0	357.9	247.4	190.1	222.7	220.7	231.6	231.0	247.5	231.0	369.6	231.0
Húmido	301.5	424.0	325.1	226.3	165.7	217.0	186.4	211.2	213.0	217.8	213.0	239.5	213.0
Medio	339.1	458.0	349.6	257.6	202.1	249.9	237.4	249.8	252.0	263.2	252.0	335.6	252.0
Seco	395.2	516.0	389.1	308.8	244.3	321.9	294.4	286.0	287.0	311.1	287.0	373.6	287.0

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### 5.20 TRIGO

Tabela 48. Necessidades hídricas úteis anuais do trigo (mm)

Ano	Estuário	Sado	Oeste	Vila Franca de Xira	Sorraia	Almourol	Castelo de Bode	Castelo de Bode 2	Belver	Pracana	Fratel	Lis	Cedilho
2003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2004	96.0	12.0	33.7	28.1	34.3	0.0	11.1	34.8	34.0	25.5	34.0	0.0	34.0
2005	195.9	100.0	67.9	85.7	133.4	30.7	38.6	70.9	72.0	63.6	72.0	0.3	72.0
2006	71.8	5.0	3.3	8.7	20.0	0.0	0.7	2.0	0.0	0.0	0.0	0.0	0.0
2007	138.6	47.0	58.8	36.6	48.2	0.0	20.4	61.3	61.0	45.8	61.0	4.7	61.0
2008	24.6	0.0	0.0	0.2	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2009	161.1	95.0	88.9	79.0	110.4	13.6	45.2	93.8	95.0	87.1	95.0	2.2	95.0
2010	28.8	0.0	0.0	2.6	12.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2011	49.0	2.0	17.4	16.1	10.6	0.0	5.5	16.9	15.0	12.1	15.0	5.0	15.0
2012	99.8	15.0	61.5	31.7	34.1	4.9	27.9	64.1	65.0	65.1	65.0	8.0	65.0
2013	61.8	0.0	10.8	14.8	16.7	0.0	2.4	7.7	4.0	3.0	4.0	0.0	4.0
2014	47.0	0.0	4.7	12.3	13.1	0.0	2.2	2.6	0.0	0.0	0.0	0.0	0.0
2015	102.2	73.0	33.1	40.2	50.4	39.5	27.4	34.7	34.0	34.6	34.0	0.0	34.0
2016	9.0	0.0	0.0	1.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2017	98.6	46.0	11.5	29.7	37.2	5.8	6.1	8.6	5.0	3.8	5.0	1.9	5.0
2018	15.6	0.0	0.1	2.6	3.4	0.0	0.2	0.2	0.0	0.0	0.0	0.8	0.0
2019	96.6	68.0	7.6	14.3	36.9	0.0	0.0	3.9	0.0	0.0	0.0	0.0	0.0
2020	15.6	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Húmido	15.6	0.0	0.0	1.0	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Medio	71.8	5.0	10.8	14.8	20.0	0.0	2.1	7.7	4.0	3.0	4.0	0.0	4.0
Seco	138.6	73.0	63.8	44.7	54.4	13.6	36.2	65.3	65.0	58.3	65.0	4.7	65.0

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### 5.21 TOMATE

Tabela 49. Necessidades hídricas úteis anuais do tomate (mm)

Ano	Estuário	Sado	Oeste	Vila Franca de Xira	Sorraia	Almourol	Castelo de Bode	Castelo de Bode 2	Belver	Pracana	Fratel	Lis	Cedilho
2003	491.6	362.0	293.4	442.7	388.6	460.5	421.3	413.2	414.0	436.1	414.0	191.7	414.0
2004	564.4	383.0	333.8	486.2	454.9	474.3	428.8	465.7	466.0	468.5	466.0	122.7	466.0
2005	546.2	369.0	373.3	512.0	478.3	506.2	486.5	488.9	489.0	511.4	489.0	274.7	489.0
2006	507.8	343.0	280.6	436.5	391.3	433.5	428.7	401.5	401.0	443.3	401.0	179.7	401.0
2007	463.8	262.0	292.7	380.9	383.7	385.3	346.0	393.8	394.0	389.6	394.0	36.4	394.0
2008	431.6	250.0	257.2	358.4	335.0	349.3	348.8	360.2	360.0	372.1	360.0	132.0	360.0
2009	481.2	318.0	249.4	393.1	344.8	388.6	348.2	354.7	355.0	369.4	355.0	101.7	355.0
2010	502.0	289.0	299.3	460.0	400.2	458.2	438.1	426.0	426.0	443.8	426.0	226.7	426.0
2011	468.0	287.0	310.6	435.9	438.3	471.2	438.1	463.4	464.0	463.5	464.0	160.3	464.0
2012	469.4	337.0	288.6	423.7	386.6	441.7	414.5	405.5	406.0	424.9	406.0	113.3	406.0
2013	525.8	396.0	360.4	477.2	441.8	492.5	460.2	452.7	453.0	476.3	453.0	257.2	453.0
2014	434.8	306.0	239.3	382.5	323.2	433.6	376.0	331.6	331.0	363.7	331.0	167.7	331.0
2015	519.3	420.0	307.4	481.1	415.7	556.5	475.2	425.0	425.0	455.3	425.0	209.2	425.0
2016	467.4	369.0	270.7	422.7	361.6	437.6	409.9	382.2	382.0	412.2	382.0	140.3	382.0
2017	554.2	417.0	313.3	508.1	434.6	556.2	473.4	444.6	444.0	470.8	444.0	199.9	444.0
2018	367.0	297.0	170.7	268.2	224.8	303.4	242.2	246.4	247.0	271.9	247.0	53.2	247.0
2019	437.4	369.0	244.4	387.6	336.1	405.1	370.0	357.5	358.0	384.7	358.0	79.2	358.0
2020	454.2	324.0	273.9	413.4	364.2	427.6	406.7	384.5	385.0	410.2	385.0	152.9	385.0
Húmido	438.0	289.0	249.4	383.1	336.1	388.5	350.5	357.5	358.0	371.6	358.0	102.7	358.0
Medio	478.4	343.0	289.3	434.3	388.4	442.1	417.2	405.7	406.0	425.9	406.0	155.1	406.0
Seco	546.2	396.0	333.3	486.8	444.8	506.2	477.6	463.0	464.0	485.8	464.0	226.7	464.0

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### 5.22 PASTAGEM PERMANENTE

Tabela 50. Necessidades hídricas úteis anuais da pastagem permanente (mm)

Ano	Estuário	Sado	Oeste	Vila Franca de Xira	Sorraia	Almourol	Castelo de Bode	Castelo de Bode 2	Belver	Pracana	Fratel	Lis	Cedilho
2003	212.0	483.0	326.0	168.8	119.3	138.3	141.1	155.1	156.0	162.3	156.0	330.0	156.0
2004	276.4	537.0	385.4	178.7	153.3	146.3	125.9	187.5	188.0	181.4	188.0	326.9	188.0
2005	356.3	501.0	421.4	284.2	238.0	255.6	240.5	262.3	263.0	269.8	263.0	415.9	263.0
2006	231.4	478.0	323.4	145.7	104.1	109.3	134.2	140.0	141.0	160.1	141.0	358.1	141.0
2007	224.4	392.0	321.9	124.5	114.3	94.3	76.3	150.1	151.0	132.1	151.0	162.7	151.0
2008	164.4	354.0	264.9	70.7	40.5	74.3	60.3	76.9	78.0	80.4	78.0	266.3	78.0
2009	292.3	457.0	302.4	188.8	154.9	143.0	139.3	191.0	192.0	185.4	192.0	245.7	192.0
2010	216.3	417.0	330.4	170.5	113.9	149.3	145.9	150.0	151.0	153.1	151.0	381.0	151.0
2011	187.6	434.0	369.8	128.8	148.7	129.5	110.7	183.1	184.0	164.6	184.0	355.5	184.0
2012	250.0	444.0	332.9	187.0	162.4	178.0	159.8	186.3	187.0	188.8	187.0	302.8	187.0
2013	274.4	510.0	379.1	205.5	167.4	183.3	179.3	203.9	205.0	213.1	205.0	385.6	205.0
2014	182.0	421.0	261.1	123.6	59.9	138.5	111.9	96.0	97.0	113.8	97.0	278.0	97.0
2015	259.4	546.0	350.4	194.8	135.3	235.6	183.7	171.1	172.0	182.6	172.0	385.9	172.0
2016	182.4	481.0	297.0	134.7	88.9	108.3	121.0	125.0	126.0	137.9	126.0	292.3	126.0
2017	305.0	582.0	371.4	237.7	164.3	238.5	199.4	200.0	201.0	210.9	201.0	378.9	201.0
2018	171.4	373.0	182.4	73.8	36.9	66.0	40.5	73.0	74.0	80.6	74.0	120.4	74.0
2019	245.8	488.0	286.7	168.7	117.5	157.2	142.5	153.9	155.0	158.6	155.0	251.5	155.0
2020	169.4	440.0	298.0	124.8	83.9	106.3	113.5	120.0	121.0	127.6	121.0	315.5	121.0
Húmido	182.0	417.0	278.6	124.5	83.9	106.3	91.8	120.0	121.0	117.4	121.0	251.5	121.0
Medio	231.4	478.0	326.1	168.7	119.3	143.0	138.7	155.1	156.0	159.4	156.0	324.5	156.0
Seco	292.3	537.0	380.0	205.5	166.2	235.4	192.4	200.2	201.0	210.1	201.0	385.4	201.0



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### 5.23 PRADOS TEMPORÁRIOS

Tabela 51. Necessidades hídricas úteis anuais dos prados temporários (mm)

Ano	Estuário	Sado	Oeste	Vila Franca de Xira	Sorraia	Almourol	Castelo de Bode	Castelo de Bode 2	Belver	Pracana	Fratel	Lis	Cedilho
2003	407.0	209.0	194.8	355.7	291.9	338.3	322.8	328.0	329.0	345.1	329.0	98.0	329.0
2004	515.3	249.0	236.0	398.2	355.3	363.2	329.9	391.0	392.0	394.1	392.0	32.3	392.0
2005	615.3	309.0	316.6	531.5	466.4	502.8	479.5	490.3	491.0	512.1	491.0	148.0	491.0
2006	453.0	201.0	183.3	352.2	291.9	328.1	342.1	328.0	329.0	363.9	329.0	79.0	329.0
2007	460.0	150.0	200.1	335.8	328.3	312.2	289.6	364.1	365.0	351.9	365.0	1.9	365.0
2008	366.0	110.0	116.6	262.7	215.6	263.3	240.9	251.9	253.0	263.9	253.0	12.9	253.0
2009	535.4	258.0	241.3	421.7	371.9	379.3	364.7	408.0	409.0	413.4	409.0	45.8	409.0
2010	434.4	168.0	195.1	384.6	310.0	374.2	357.4	345.9	347.0	360.4	347.0	108.3	347.0
2011	387.6	187.0	227.6	325.2	339.2	349.3	313.8	375.0	376.0	358.6	376.0	63.3	376.0
2012	515.0	218.0	245.8	437.5	410.4	437.6	407.8	434.3	435.0	443.5	435.0	58.3	435.0
2013	500.4	255.0	251.6	423.8	375.1	411.2	396.4	411.0	412.0	430.8	412.0	121.0	412.0
2014	391.0	164.0	139.6	326.8	250.3	362.3	318.7	286.0	287.0	315.1	287.0	44.3	287.0
2015	517.2	281.0	225.8	447.2	368.3	523.6	443.7	404.1	405.0	434.1	405.0	108.3	405.0
2016	385.2	198.0	165.1	329.2	265.3	326.8	314.4	301.0	302.0	326.4	302.0	53.3	302.0
2017	520.3	312.0	244.1	448.7	354.5	475.8	407.2	390.9	392.0	414.4	392.0	148.8	392.0
2018	337.0	176.0	103.3	228.7	174.3	242.3	192.3	210.1	211.0	231.4	211.0	9.1	211.0
2019	470.6	278.0	194.4	350.6	295.9	358.4	319.5	332.0	333.0	343.4	333.0	76.3	333.0
2020	396.0	167.0	164.1	331.6	276.5	327.2	318.4	312.1	313.0	332.4	313.0	61.0	313.0
Húmido	387.1	167.0	161.3	326.8	265.3	326.8	291.6	301.0	302.0	304.6	302.0	32.3	302.0
Medio	460.0	209.0	203.8	356.0	328.3	362.3	342.1	364.1	365.0	373.9	365.0	63.3	365.0
Seco	523.4	281.0	249.4	447.7	375.1	475.8	413.2	411.0	412.0	430.8	412.0	121.0	412.0

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### 5.24 AMENDOIM

Tabela 52. Necessidades hídricas úteis anuais do amendoim (mm)

Ano	Estuário	Sado	Oeste	Vila Franca de Xira	Sorraia	Almourol	Castelo de Bode	Castelo de Bode 2	Belver	Pracana	Fratel	Lis	Cedilho
2003	423.6	423.0	332.8	402.9	354.5	399.8	380.3	363.7	364.0	387.2	364.0	262.0	364.0
2004	454.6	477.0	381.8	387.1	360.3	398.8	371.5	369.7	370.0	394.7	370.0	220.3	370.0
2005	492.6	566.0	473.3	467.3	423.5	448.5	445.2	432.7	433.0	465.9	433.0	363.2	433.0
2006	417.4	425.0	328.8	383.9	340.0	374.8	366.8	348.0	348.0	383.4	348.0	274.9	348.0
2007	413.1	386.0	364.3	371.2	372.1	395.5	354.8	379.7	380.0	385.3	380.0	102.3	380.0
2008	421.6	307.0	273.1	372.9	344.4	404.4	366.1	353.7	354.0	373.7	354.0	178.3	354.0
2009	448.3	497.0	397.1	400.8	373.3	398.8	374.2	380.7	381.0	396.2	381.0	265.3	381.0
2010	466.3	377.0	363.1	460.1	423.0	456.5	448.8	431.8	432.0	451.9	432.0	319.0	432.0
2011	418.5	375.0	383.3	385.5	414.7	386.5	385.7	423.8	424.0	423.4	424.0	241.3	424.0
2012	476.5	481.0	429.1	441.5	414.6	461.4	436.2	423.7	424.0	443.4	424.0	281.4	424.0
2013	473.7	475.0	410.1	443.9	414.2	469.2	441.2	422.8	423.0	451.9	423.0	325.0	423.0
2014	323.5	375.0	278.6	306.5	262.5	349.4	313.4	271.7	272.0	298.2	272.0	239.3	272.0
2015	439.5	563.0	391.8	400.2	360.7	462.7	403.9	369.8	370.0	393.4	370.0	339.3	370.0
2016	485.6	424.0	324.6	461.1	401.8	480.8	453.7	410.8	411.0	446.4	411.0	224.3	411.0
2017	485.6	550.0	390.4	462.1	396.7	505.8	447.6	405.8	406.0	437.4	406.0	322.0	406.0
2018	409.6	352.0	234.1	358.2	312.1	394.4	339.9	320.7	321.0	354.4	321.0	116.8	321.0
2019	431.3	528.0	337.3	402.3	360.7	425.8	381.9	369.8	370.0	388.7	370.0	231.0	370.0
2020	444.6	388.0	324.8	412.5	368.5	435.4	409.1	377.7	378.0	405.2	378.0	247.0	378.0
Húmido	417.4	375.0	310.3	374.9	345.3	394.4	364.7	353.7	354.0	373.7	354.0	220.3	354.0
Medio	444.6	425.0	364.3	402.4	372.1	425.8	385.1	379.7	380.0	402.2	380.0	262.0	380.0
Seco	485.6	550.0	410.3	461.1	414.7	469.2	446.4	423.8	424.0	452.7	424.0	325.0	424.0

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### 5.25 CEBOLA

Tabela 53. Necessidades hídricas úteis anuais da cebola (mm)

Ano	Estuário	Sado	Oeste	Vila Franca de Xira	Sorraia	Almourol	Castelo de Bode	Castelo de Bode 2	Belver	Pracana	Fratel	Lis	Cedilho
2003	522.2	442.0	27.7	477.2	433.3	488.7	457.8	444.4	444.0	466.5	444.0	354.4	444.0
2004	604.7	457.0	64.4	535.2	515.6	523.4	483.7	516.3	516.0	529.1	516.0	262.2	516.0
2005	582.2	487.0	88.5	543.0	510.4	539.2	517.4	516.9	517.0	542.3	517.0	440.2	517.0
2006	550.2	408.0	15.1	494.9	443.6	491.5	488.1	456.0	456.0	493.3	456.0	332.2	456.0
2007	536.8	371.0	125.3	455.7	457.7	454.5	428.2	468.8	469.0	471.4	469.0	274.9	469.0
2008	480.8	384.0	58.6	415.8	396.7	419.4	404.6	413.5	414.0	431.5	414.0	296.2	414.0
2009	549.1	427.0	64.6	484.3	438.0	489.6	458.7	457.5	458.0	476.2	458.0	327.8	458.0
2010	542.3	436.0	52.9	504.7	459.1	513.0	487.2	475.7	476.0	493.9	476.0	418.9	476.0
2011	542.2	452.0	109.2	511.1	520.9	534.3	509.4	534.8	535.0	531.1	535.0	341.4	535.0
2012	503.5	462.0	81.0	457.9	425.8	497.8	460.3	436.8	437.0	461.7	437.0	369.4	437.0
2013	561.0	461.0	38.5	511.4	477.4	530.8	495.5	482.9	483.0	507.3	483.0	398.2	483.0
2014	495.3	331.0	28.2	453.5	400.2	512.2	458.5	411.2	411.0	443.8	411.0	283.2	411.0
2015	564.6	491.0	34.9	533.4	475.5	617.5	537.3	482.2	482.0	515.9	482.0	338.9	482.0
2016	492.6	535.0	57.2	453.0	400.5	480.2	443.9	410.8	411.0	441.3	411.0	397.4	411.0
2017	603.8	547.0	84.8	563.9	487.1	610.0	540.4	500.6	501.0	529.8	501.0	382.9	501.0
2018	400.0	442.0	69.9	320.2	284.5	362.4	301.9	297.7	298.0	326.6	298.0	293.0	298.0
2019	509.1	466.0	43.2	462.5	424.3	489.8	450.1	430.8	431.0	460.7	431.0	319.4	431.0
2020	492.3	457.0	1.1	451.8	416.9	473.3	443.4	428.7	429.0	452.0	429.0	359.4	429.0
Húmido	493.3	408.0	29.8	452.8	402.1	473.3	438.9	413.9	414.0	440.3	414.0	291.4	414.0
Medio	542.0	457.0	60.2	484.3	444.2	497.8	467.9	458.1	458.0	479.0	458.0	341.4	458.0
Seco	582.2	491.0	89.6	535.9	510.4	539.2	517.1	515.9	516.0	541.1	516.0	398.2	516.0

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### 5.26 ABACATE

Tabela 54. Necessidades hídricas úteis anuais do abacate (mm)

Ano	Estuário	Sado	Oeste	Vila Franca de Xira	Sorraia	Almourol	Castelo de Bode	Castelo de Bode 2	Belver	Pracana	Fratel	Lis	Cedilho
2003	320.1	326.0	253.8	279.6	227.1	257.3	252.1	257.1	258.0	271.3	258.0	209.4	258.0
2004	386.2	364.0	275.8	277.6	249.1	257.9	229.3	279.1	280.0	287.3	280.0	109.4	280.0
2005	460.1	419.0	356.7	396.4	342.4	373.0	351.7	358.5	359.0	377.6	359.0	277.5	359.0
2006	321.1	300.0	237.8	258.6	211.1	231.9	242.4	241.1	242.0	268.4	242.0	188.0	242.0
2007	342.2	249.0	268.8	246.7	242.1	216.6	209.1	272.1	273.0	254.9	273.0	141.0	273.0
2008	286.2	247.0	217.1	223.6	190.1	253.6	221.2	220.3	221.0	233.1	221.0	153.5	221.0
2009	398.2	362.0	289.8	288.7	263.0	249.3	242.4	293.1	294.0	291.4	294.0	156.5	294.0
2010	340.1	289.0	281.1	301.7	254.1	285.6	282.4	284.3	285.0	294.1	285.0	247.4	285.0
2011	314.2	333.0	321.4	259.7	294.4	253.3	257.9	324.3	325.0	312.6	325.0	213.0	325.0
2012	365.5	336.0	286.3	301.3	272.3	298.5	276.3	288.1	288.0	304.1	288.0	181.7	288.0
2013	377.2	360.0	304.8	316.6	278.0	309.9	297.3	308.1	309.0	325.3	309.0	237.4	309.0
2014	252.2	243.0	161.8	201.6	135.1	230.9	194.2	165.1	166.0	189.1	166.0	127.4	166.0
2015	351.2	384.0	259.8	287.2	233.1	348.6	282.4	263.1	264.0	279.1	264.0	218.4	264.0
2016	339.2	373.0	263.1	294.2	236.1	286.3	281.3	266.3	267.0	290.6	267.0	210.0	267.0
2017	411.2	453.0	293.1	348.6	266.1	366.9	312.6	296.3	297.0	317.1	297.0	253.0	297.0
2018	292.2	310.0	182.1	203.2	155.1	207.6	173.1	185.3	186.0	201.9	186.0	134.4	186.0
2019	333.7	376.0	256.4	283.2	229.4	285.6	257.4	259.3	260.0	271.6	260.0	167.0	260.0
2020	319.2	324.0	239.8	263.2	213.0	254.3	249.3	243.1	244.0	262.9	244.0	191.4	244.0
Húmido	314.2	289.0	237.8	246.7	211.1	231.9	217.9	241.1	242.0	248.8	242.0	141.0	242.0
Medio	340.6	336.0	268.8	283.2	242.1	257.9	258.0	272.1	273.0	284.6	273.0	191.9	273.0
Seco	398.2	384.0	304.9	316.6	278.4	348.6	297.3	308.1	309.0	325.3	309.0	247.4	309.0

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### 5.27 MIRTILO

Tabela 55. Necessidades hídricas úteis anuais do mirtilo (mm)

Ano	Estuário	Sado	Oeste	Vila Franca de Xira	Sorraia	Almourol	Castelo de Bode	Castelo de Bode 2	Belver	Pracana	Fratel	Lis	Cedilho
2003	348.4	353.0	273.1	300.7	240.7	274.2	269.4	277.0	278.0	291.6	278.0	219.8	278.0
2004	432.3	403.0	320.1	321.6	287.9	290.5	263.6	324.0	325.0	324.9	325.0	123.0	325.0
2005	521.0	475.0	404.8	445.1	383.4	415.6	396.7	407.3	408.0	426.8	408.0	300.3	408.0
2006	372.0	345.0	264.1	286.2	231.9	255.3	269.2	268.0	269.0	297.1	269.0	209.0	269.0
2007	377.4	296.0	294.1	270.2	261.9	241.3	218.6	298.0	299.0	281.6	299.0	96.8	299.0
2008	313.0	250.0	217.1	218.8	184.9	229.2	211.0	221.0	222.0	231.1	222.0	137.0	222.0
2009	452.0	411.0	334.6	339.8	302.3	293.3	287.7	338.1	339.0	338.1	339.0	188.3	339.0
2010	371.3	317.0	292.3	326.7	260.3	308.2	301.0	296.0	297.0	307.9	297.0	266.8	297.0
2011	341.2	341.0	329.6	278.7	298.7	285.2	263.8	333.1	334.0	320.6	334.0	208.0	334.0
2012	412.3	382.0	335.6	344.3	314.1	340.2	315.9	338.3	339.0	347.7	339.0	203.6	339.0
2013	421.3	400.0	337.1	350.7	304.9	338.2	326.7	341.0	342.0	359.1	342.0	262.0	342.0
2014	300.4	285.0	200.1	240.7	167.9	269.3	232.5	204.0	205.0	229.6	205.0	158.0	205.0
2015	412.4	448.0	302.1	340.7	269.9	404.6	332.7	306.0	307.0	326.6	307.0	235.8	307.0
2016	351.3	385.0	267.9	299.2	235.5	287.5	284.0	271.9	273.0	296.4	273.0	205.3	273.0
2017	458.1	483.0	329.9	388.5	297.5	405.3	347.8	333.9	335.0	355.9	335.0	278.8	335.0
2018	310.3	327.0	190.6	208.7	158.3	211.5	173.8	194.1	195.0	212.8	195.0	110.3	195.0
2019	384.9	431.0	271.6	298.7	239.3	296.7	270.5	275.1	276.0	288.1	276.0	179.8	276.0
2020	327.4	332.0	249.1	269.7	216.9	262.3	258.3	253.0	254.0	271.4	254.0	195.0	254.0
Húmido	327.4	317.0	249.1	269.7	216.9	255.3	239.8	253.0	254.0	260.6	254.0	137.0	254.0
Medio	377.4	382.0	294.1	300.7	261.9	290.5	277.4	298.0	299.0	308.1	299.0	205.4	299.0
Seco	452.0	448.0	335.4	352.8	304.7	404.1	342.3	338.3	339.0	356.8	339.0	266.8	339.0

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### 5.28 AMEIXA

Tabela 56. Necessidades hídricas úteis anuais da ameixa (mm)

Ano	Estuário	Sado	Oeste	Vila Franca de Xira	Sorraia	Almourol	Castelo de Bode	Castelo de Bode 2	Belver	Pracana	Fratel	Lis	Cedilho
2003	469.2	486.0	386.8	423.7	360.1	405.3	392.8	390.1	391.0	412.1	391.0	345.0	391.0
2004	548.2	526.0	409.4	421.6	382.4	409.6	372.6	412.3	413.0	428.4	413.0	242.4	413.0
2005	586.1	549.0	483.4	523.8	460.8	499.0	482.7	485.6	486.0	517.6	486.0	440.0	486.0
2006	466.2	453.0	370.8	403.7	344.1	382.3	387.0	374.1	375.0	411.8	375.0	327.0	375.0
2007	495.2	393.0	434.8	407.6	408.0	375.3	374.4	438.1	439.0	421.8	439.0	270.1	439.0
2008	447.2	382.0	345.4	371.2	318.4	405.9	363.3	348.3	349.0	370.3	349.0	289.0	349.0
2009	533.1	498.0	410.8	414.6	384.0	387.3	374.0	414.1	415.0	419.1	415.0	301.5	415.0
2010	498.2	440.0	429.8	459.7	403.0	444.6	438.4	433.1	434.0	450.3	434.0	403.2	434.0
2011	485.1	497.0	488.8	424.7	462.1	410.6	424.8	492.1	493.0	485.1	493.0	371.0	493.0
2012	480.5	489.0	400.0	420.9	373.9	445.7	409.1	403.1	404.0	425.1	404.0	313.0	404.0
2013	526.2	506.0	442.8	463.6	416.1	465.6	444.6	446.1	447.0	471.6	447.0	373.4	447.0
2014	373.2	367.0	271.8	319.7	245.1	361.9	314.9	275.1	276.0	306.1	276.0	242.5	276.0
2015	502.1	556.0	400.4	431.6	373.4	491.4	426.0	403.3	404.0	428.9	404.0	349.0	404.0
2016	507.2	560.0	409.8	457.6	383.0	461.6	441.7	413.1	414.0	447.6	414.0	355.5	414.0
2017	583.2	648.0	434.1	506.6	407.1	546.6	476.7	437.3	438.0	470.9	438.0	392.5	438.0
2018	443.1	470.0	313.1	345.6	286.1	359.9	311.8	316.3	317.0	342.9	317.0	245.5	317.0
2019	486.2	529.0	400.8	435.6	374.1	445.6	407.5	404.1	405.0	425.1	405.0	297.5	405.0
2020	482.2	492.0	388.4	420.6	361.4	417.9	400.1	391.3	392.0	419.6	392.0	319.5	392.0
Húmido	466.2	440.0	370.8	403.7	344.1	382.3	361.2	374.1	375.0	389.1	375.0	270.1	375.0
Medio	495.2	497.0	409.4	423.7	382.4	417.9	406.4	412.3	413.0	431.8	413.0	327.0	413.0
Seco	548.2	556.0	442.8	463.6	416.1	490.4	451.6	446.1	447.0	472.4	447.0	392.5	447.0

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### 5.29 BETERRABA

Tabela 57. Necessidades hídricas úteis anuais da beterraba (mm)

Ano	Estuário	Sado	Oeste	Vila Franca de Xira	Sorraia	Almourol	Castelo de Bode	Castelo de Bode 2	Belver	Pracana	Fratel	Lis	Cedilho
2003	593.7	617.0	502.8	546.5	482.3	542.5	514.0	505.4	506.0	531.9	506.0	446.8	506.0
2004	660.6	637.0	540.0	562.4	526.5	552.8	495.8	541.6	542.0	553.2	542.0	362.9	542.0
2005	676.9	643.0	585.8	621.5	565.3	598.5	586.8	588.4	589.0	623.1	589.0	534.8	589.0
2006	632.1	618.0	523.3	574.7	502.5	569.1	564.4	525.5	526.0	577.4	526.0	502.8	526.0
2007	614.9	542.0	540.0	519.5	526.5	520.9	481.2	541.6	542.0	538.5	542.0	325.1	542.0
2008	550.1	484.0	432.5	452.3	413.0	463.4	433.9	434.2	434.0	453.1	434.0	369.8	434.0
2009	646.8	628.0	509.5	552.6	497.2	541.8	500.2	510.8	511.0	529.2	511.0	429.2	511.0
2010	630.9	572.0	535.8	594.5	516.8	594.5	568.7	538.4	539.0	566.3	539.0	536.8	539.0
2011	563.6	573.0	548.0	504.6	521.2	554.6	510.4	550.4	551.0	546.9	551.0	444.4	551.0
2012	610.9	602.0	527.6	555.2	507.1	582.3	544.6	530.2	531.0	555.8	531.0	435.0	531.0
2013	668.1	650.0	574.8	603.2	554.3	611.5	581.1	577.4	578.0	608.1	578.0	507.9	578.0
2014	559.7	551.0	445.3	505.7	424.5	571.4	505.3	447.5	448.0	488.4	448.0	422.8	448.0
2015	646.8	702.0	537.5	599.4	520.8	700.8	600.1	539.5	540.0	577.1	540.0	518.8	540.0
2016	605.1	662.0	500.3	557.8	480.4	583.5	543.5	502.5	503.0	543.1	503.0	436.9	503.0
2017	668.7	718.0	525.3	604.0	505.9	656.2	563.5	527.5	528.0	561.9	528.0	464.8	528.0
2018	499.0	536.0	362.6	395.7	341.7	436.5	367.0	365.2	366.0	398.1	366.0	275.1	366.0
2019	610.5	676.0	510.0	548.1	486.1	565.9	522.9	513.1	514.0	539.9	514.0	423.5	514.0
2020	594.5	608.0	506.3	544.8	486.2	566.1	536.9	508.5	509.0	542.4	509.0	458.3	509.0
Húmido	565.1	551.0	500.3	506.3	479.8	540.3	484.1	502.5	503.0	510.9	503.0	369.8	503.0
Medio	617.9	618.0	525.3	554.7	504.8	569.1	542.6	527.5	528.0	553.5	528.0	444.4	528.0
Seco	668.6	676.0	549.7	602.7	531.3	611.5	573.2	551.2	551.0	587.8	551.0	518.8	551.0

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### 5.30 LUZERNA

Tabela 58. Necessidades hídricas úteis anuais da luzerna (mm)

Ano	Estuário	Sado	Oeste	Vila Franca de Xira	Sorraia	Almourol	Castelo de Bode	Castelo de Bode 2	Belver	Pracana	Fratel	Lis	Cedilho
2003	600.1	629.0	497.1	547.3	464.9	540.2	502.9	501.0	502.0	529.6	502.0	434.3	502.0
2004	774.4	731.0	616.9	640.3	584.5	598.2	557.8	620.9	622.0	631.6	622.0	386.0	622.0
2005	851.4	802.0	698.0	764.0	676.8	728.6	699.7	700.5	701.0	734.0	701.0	588.1	701.0
2006	675.3	646.0	515.3	555.1	482.5	535.3	533.4	519.0	520.0	563.4	520.0	452.3	520.0
2007	714.4	612.0	612.9	589.7	580.5	552.2	523.6	616.9	618.0	602.4	618.0	331.0	618.0
2008	595.3	493.0	419.3	455.4	387.1	469.2	428.1	423.0	424.0	444.4	424.0	327.3	424.0
2009	781.3	730.0	636.1	661.3	603.9	607.5	594.6	640.0	641.0	651.9	641.0	483.0	641.0
2010	679.4	593.0	538.1	616.1	506.3	592.8	562.0	542.0	543.0	565.4	543.0	524.3	543.0
2011	658.6	636.0	641.9	595.1	609.5	596.8	564.2	645.9	647.0	622.6	647.0	452.3	647.0
2012	726.0	687.0	620.8	646.6	599.2	651.2	607.6	623.3	624.0	640.1	624.0	466.4	624.0
2013	714.0	685.0	603.3	637.1	571.3	628.3	604.0	607.0	608.0	637.6	608.0	521.0	608.0
2014	573.2	560.0	444.1	506.3	411.9	554.2	495.7	448.0	449.0	487.1	449.0	405.0	449.0
2015	743.2	803.0	599.1	663.3	566.9	759.3	655.3	603.0	604.0	642.6	604.0	531.0	604.0
2016	607.8	666.0	469.6	529.7	437.4	530.8	503.9	473.1	474.0	511.4	474.0	401.0	474.0
2017	793.4	857.0	608.3	712.7	576.3	747.3	650.2	612.0	613.0	650.6	613.0	543.3	613.0
2018	542.4	570.0	388.6	434.3	356.3	451.8	388.3	392.1	393.0	427.4	393.0	301.3	393.0
2019	700.3	769.0	555.6	597.3	523.3	601.6	540.2	559.1	560.0	576.1	560.0	391.3	560.0
2020	595.4	588.0	470.5	507.0	439.0	507.2	478.3	473.9	475.0	500.4	475.0	392.3	475.0
Húmido	595.8	588.0	469.6	507.0	437.4	530.8	480.4	473.1	474.0	494.4	474.0	386.0	474.0
Medio	699.8	666.0	599.1	597.3	566.9	596.8	553.4	603.0	604.0	611.1	604.0	452.3	604.0
Seco	781.3	802.0	636.6	663.4	606.3	728.5	658.6	640.1	641.0	670.4	641.0	531.0	641.0



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### 5.31 ROMÃ

Tabela 59. Necessidades hídricas úteis anuais da romã (mm)

Ano	Estuário	Sado	Oeste	Vila Franca de Xira	Sorraia	Almourol	Castelo de Bode	Castelo de Bode 2	Belver	Pracana	Fratel	Lis	Cedilho
2003	404.1	416.0	329.4	360.7	302.4	340.9	331.8	332.3	333.0	350.6	333.0	285.1	333.0
2004	472.1	450.0	344.1	352.2	317.1	338.6	305.7	347.3	348.0	361.6	348.0	181.5	348.0
2005	499.1	458.0	415.4	443.7	388.4	409.0	410.8	418.3	419.0	445.8	419.0	367.0	419.0
2006	403.1	383.0	313.8	341.6	287.1	317.6	324.8	317.1	318.0	350.4	318.0	267.4	318.0
2007	400.1	306.0	348.4	322.7	321.4	302.3	290.8	351.3	352.0	337.1	352.0	200.1	352.0
2008	371.1	325.0	292.6	304.7	265.4	333.6	301.3	295.3	296.0	312.6	296.0	230.5	296.0
2009	444.2	418.0	323.8	334.2	297.1	315.3	300.9	327.1	328.0	333.3	328.0	236.0	328.0
2010	427.2	373.0	363.8	389.6	337.1	373.9	369.1	367.1	368.0	381.3	368.0	333.5	368.0
2011	407.2	421.0	411.8	349.6	385.0	334.3	348.6	415.1	416.0	406.1	416.0	296.4	416.0
2012	407.2	415.0	339.4	355.2	312.4	371.3	346.0	342.3	343.0	359.9	343.0	255.0	343.0
2013	460.1	441.0	381.8	398.6	355.0	396.9	379.4	385.1	386.0	407.1	386.0	314.0	386.0
2014	322.1	316.0	225.1	269.6	198.1	306.3	263.7	228.3	229.0	256.3	229.0	194.4	229.0
2015	430.2	478.0	336.8	363.6	310.1	405.9	358.0	340.1	341.0	361.1	341.0	291.0	341.0
2016	432.2	476.0	344.4	384.7	317.4	384.3	370.6	347.3	348.0	377.6	348.0	291.0	348.0
2017	495.2	543.0	366.1	430.6	339.1	459.3	399.2	369.3	370.0	396.9	370.0	326.0	370.0
2018	372.2	395.0	253.1	281.6	226.1	291.9	248.1	256.3	257.0	278.3	257.0	192.4	257.0
2019	415.2	452.0	333.8	366.2	307.2	373.3	339.3	338.1	339.0	355.1	339.0	237.0	339.0
2020	408.2	416.0	320.8	349.6	294.1	343.9	331.0	324.1	325.0	348.8	325.0	265.5	325.0
Húmido	400.1	373.0	313.8	322.7	287.1	315.3	296.7	317.1	318.0	325.8	318.0	200.1	318.0
Medio	415.2	418.0	339.4	355.2	312.4	343.9	336.4	342.3	343.0	359.9	343.0	267.4	343.0
Seco	472.1	476.0	381.8	398.6	355.0	405.9	382.0	385.1	386.0	407.1	386.0	326.0	386.0

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### 5.32 AZEVÉM

Tabela 60. Necessidades hídricas úteis anuais do azevém (mm)

Ano	Estuário	Sado	Oeste	Vila Franca de Xira	Sorraia	Almourol	Castelo de Bode	Castelo de Bode 2	Belver	Pracana	Fratel	Lis	Cedilho
2003	11.4	0.0	0.0	4.7	4.4	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
2004	174.9	110.0	67.9	58.8	89.5	7.3	25.4	70.4	70.0	65.2	70.0	0.0	70.0
2005	331.2	268.0	156.7	199.0	275.9	139.6	133.3	161.7	163.0	167.9	163.0	34.7	163.0
2006	95.6	63.0	15.7	12.9	37.5	1.0	6.8	16.4	15.0	11.7	15.0	0.0	15.0
2007	232.4	153.0	158.5	127.1	128.7	20.0	86.8	164.5	166.0	133.7	166.0	76.1	166.0
2008	117.3	52.0	28.4	47.9	77.7	64.2	38.5	29.8	30.0	37.1	30.0	7.2	30.0
2009	268.3	222.0	190.9	163.7	228.8	71.6	112.8	197.3	199.0	184.2	199.0	45.8	199.0
2010	75.8	14.0	15.5	22.6	42.3	2.1	7.9	16.4	16.0	13.4	16.0	5.0	16.0
2011	139.1	98.0	121.3	59.6	54.8	10.9	47.8	125.4	126.0	106.6	126.0	18.1	126.0
2012	187.1	144.0	135.5	95.0	109.9	56.0	93.9	139.5	140.0	141.3	140.0	79.0	140.0
2013	99.9	60.0	36.0	34.8	36.8	4.4	15.0	36.7	35.0	30.5	35.0	2.5	35.0
2014	61.0	22.0	11.9	14.0	22.0	3.8	6.3	11.1	9.0	10.4	9.0	1.7	9.0
2015	161.0	170.0	68.7	81.7	109.5	99.3	70.1	71.9	72.0	76.6	72.0	11.0	72.0
2016	79.6	78.0	30.1	31.6	37.8	9.0	22.0	31.5	32.0	32.8	32.0	9.1	32.0
2017	235.0	260.0	83.8	135.2	178.1	110.1	102.0	88.0	89.0	100.0	89.0	56.8	89.0
2018	102.7	89.0	57.8	65.3	55.2	34.6	45.1	60.3	61.0	59.1	61.0	40.5	61.0
2019	185.4	201.0	65.7	61.3	138.1	18.6	31.5	68.4	69.0	54.0	69.0	2.5	69.0
2020	37.6	11.0	1.8	6.1	6.4	0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0
Húmido	74.0	22.0	13.9	14.0	29.1	2.1	7.2	15.6	15.0	12.7	15.0	0.0	15.0
Medio	139.3	98.0	66.2	60.4	72.4	18.4	34.4	69.5	69.0	63.2	69.0	9.1	69.0
Seco	235.0	222.0	156.7	135.2	178.1	99.2	103.3	161.7	163.0	157.2	163.0	56.6	163.0

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### 5.33 ALFACE (NOVEMBRO)

Tabela 61. Necessidades hídricas úteis anuais da alface (novembro) (mm)

Ano	Estuário	Sado	Oeste	Vila Franca de Xira	Sorraia	Almourol	Castelo de Bode	Castelo de Bode 2	Belver	Pracana	Fratel	Lis	Cedilho
2003	11.3	12.0	5.6	6.2	8.8	4.0	4.7	5.9	6.0	6.9	6.0	4.8	6.0
2004	43.5	36.0	22.3	24.5	32.2	20.4	22.1	22.9	23.0	25.1	23.0	24.5	23.0
2005	50.2	42.0	18.9	29.2	39.1	21.3	21.9	19.2	19.0	23.3	19.0	23.8	19.0
2006	28.5	23.0	9.1	12.2	18.4	5.8	6.9	9.5	9.0	10.0	9.0	8.3	9.0
2007	101.0	90.0	89.3	76.7	74.4	52.5	72.2	90.0	90.0	88.0	90.0	80.8	90.0
2008	57.3	48.0	28.2	31.1	44.9	53.4	37.5	29.2	29.0	33.8	29.0	29.2	29.0
2009	31.2	25.0	26.9	22.7	28.9	17.6	23.1	27.0	27.0	28.5	27.0	24.9	27.0
2010	25.0	19.0	19.3	15.7	15.6	11.0	16.3	20.0	20.0	20.6	20.0	18.4	20.0
2011	53.5	46.0	59.6	50.6	40.0	41.8	52.1	59.9	60.0	59.7	60.0	61.6	60.0
2012	39.8	43.0	34.3	22.0	25.5	17.3	23.5	34.3	34.0	33.8	34.0	18.5	34.0
2013	37.3	38.0	14.1	11.7	23.4	12.3	13.7	14.2	14.0	18.0	14.0	9.3	14.0
2014	42.2	43.0	26.4	20.7	29.5	30.9	30.2	28.3	29.0	30.8	29.0	25.6	29.0
2015	33.9	43.0	14.1	10.8	13.2	9.2	14.8	14.7	15.0	17.8	15.0	15.8	15.0
2016	31.6	33.0	21.5	27.3	27.0	26.4	26.4	21.1	21.0	23.7	21.0	27.5	21.0
2017	67.7	75.0	42.0	56.2	50.3	47.3	52.2	42.9	43.0	48.9	43.0	59.9	43.0
2018	33.3	28.0	25.3	27.4	26.1	22.3	24.6	25.2	25.0	25.7	25.0	28.3	25.0
2019	38.2	35.0	28.0	27.6	27.3	24.3	25.1	28.3	28.0	30.3	28.0	22.0	28.0
2020	7.2	4.0	1.1	2.0	1.4	0.0	0.4	0.5	0.0	1.3	0.0	1.7	0.0
Húmido	28.5	23.0	12.9	11.7	16.3	8.8	12.9	13.7	14.0	16.1	14.0	9.8	14.0
Medio	38.9	38.0	24.0	24.4	27.9	21.0	23.6	24.8	25.0	27.1	25.0	23.9	25.0
Seco	60.5	48.0	42.0	49.0	46.7	46.8	47.0	42.9	43.0	47.0	43.0	56.6	43.0

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### 5.34 ALFACE (FEVEREIRO)

Tabela 62. Necessidades hídricas úteis anuais da alface (fevereiro) (mm)

Ano	Estuário	Sado	Oeste	Vila Franca de Xira	Sorraia	Almourol	Castelo de Bode	Castelo de Bode 2	Belver	Pracana	Fratel	Lis	Cedilho
2003	293.7	296.0	237.6	251.6	222.0	252.2	239.8	237.0	237.0	249.2	237.0	222.9	237.0
2004	346.5	316.0	288.5	285.8	280.9	260.4	245.0	286.4	286.0	284.4	286.0	202.0	286.0
2005	365.9	343.0	309.2	327.5	301.2	316.0	300.5	307.9	308.0	316.5	308.0	268.8	308.0
2006	292.6	275.0	222.7	234.2	207.9	220.5	231.1	221.6	221.0	238.9	221.0	204.8	221.0
2007	277.4	251.0	222.3	212.4	209.8	193.7	185.2	220.1	220.0	216.5	220.0	134.3	220.0
2008	238.3	221.0	171.5	170.1	150.1	154.2	154.1	171.4	172.0	179.1	172.0	117.5	172.0
2009	338.8	307.0	293.6	293.3	276.1	278.7	276.1	291.7	292.0	296.1	292.0	252.8	292.0
2010	257.9	221.0	216.4	216.1	197.8	210.9	199.7	217.4	218.0	217.5	218.0	176.6	218.0
2011	286.4	268.0	287.5	248.8	265.3	252.0	245.9	287.6	288.0	272.1	288.0	230.2	288.0
2012	281.9	288.0	234.4	238.9	222.4	266.3	247.3	232.8	233.0	251.2	233.0	213.7	233.0
2013	288.8	280.0	226.8	237.2	220.4	243.0	218.9	226.3	226.0	234.8	226.0	172.3	226.0
2014	286.7	274.0	230.8	247.5	216.6	275.7	247.1	230.5	231.0	245.9	231.0	216.7	231.0
2015	331.2	371.0	265.4	289.2	256.6	343.2	286.8	263.1	263.0	278.5	263.0	255.0	263.0
2016	222.8	243.0	157.5	172.8	146.6	173.7	163.4	157.1	157.0	168.5	157.0	99.0	157.0
2017	357.1	388.0	283.0	318.0	265.4	330.3	301.4	282.8	283.0	296.6	283.0	261.3	283.0
2018	202.5	197.0	127.7	140.4	117.7	151.2	122.0	128.9	129.0	142.8	129.0	90.4	129.0
2019	313.4	344.0	264.5	272.3	250.3	264.8	260.5	263.0	263.0	274.5	263.0	218.1	263.0
2020	259.3	257.0	212.2	210.8	199.7	207.6	195.0	210.9	211.0	213.5	211.0	152.4	211.0
Húmido	257.3	243.0	211.4	209.7	195.8	193.7	182.6	210.7	211.0	209.8	211.0	134.3	211.0
Medio	291.1	280.0	234.1	248.0	223.3	252.6	234.7	232.8	233.0	246.2	233.0	213.0	233.0
Seco	346.6	344.0	291.6	293.6	275.8	315.8	294.1	288.7	288.0	297.2	288.0	256.6	288.0

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### 5.35 ALFACE (ABRIL)

Tabela 63. Necessidades hídricas úteis anuais da alface (abril) (mm)

Ano	Estuário	Sado	Oeste	Vila Franca de Xira	Sorraia	Almourol	Castelo de Bode	Castelo de Bode 2	Belver	Pracana	Fratel	Lis	Cedilho
2003	226.3	227.0	189.0	204.2	184.8	204.6	193.4	190.3	190.0	197.8	190.0	171.3	190.0
2004	244.9	215.0	199.3	199.8	198.6	183.8	168.0	201.2	201.0	197.4	201.0	124.2	201.0
2005	239.3	217.0	207.6	213.4	208.5	212.0	197.1	210.0	210.0	212.8	210.0	161.8	210.0
2006	239.0	223.0	196.0	210.4	191.0	206.7	212.0	198.8	199.0	211.7	199.0	183.3	199.0
2007	195.5	171.0	156.0	151.1	149.2	149.1	135.9	159.7	160.0	158.0	160.0	86.3	160.0
2008	146.5	128.0	105.9	110.2	97.7	100.5	99.9	108.7	109.0	112.0	109.0	77.9	109.0
2009	203.1	197.0	144.7	165.0	132.5	168.9	151.5	148.4	149.0	155.3	149.0	122.8	149.0
2010	190.1	163.0	166.3	167.9	159.0	166.7	159.2	169.0	169.0	170.1	169.0	142.5	169.0
2011	189.1	179.0	200.2	174.3	189.2	176.2	174.7	203.3	204.0	190.6	204.0	169.7	204.0
2012	149.4	157.0	121.3	122.6	116.1	139.6	125.9	122.7	123.0	129.7	123.0	87.0	123.0
2013	217.8	211.0	174.7	185.9	174.1	186.5	170.3	177.0	177.0	182.6	177.0	133.7	177.0
2014	202.0	193.0	157.7	172.6	148.8	191.5	171.3	161.7	162.0	172.1	162.0	144.8	162.0
2015	222.6	236.0	173.2	193.7	168.1	216.7	187.4	175.0	175.0	185.0	175.0	172.2	175.0
2016	160.4	171.0	124.6	133.8	115.0	131.4	130.2	126.7	127.0	134.2	127.0	79.3	127.0
2017	251.0	264.0	199.1	224.6	194.5	236.9	215.5	201.0	201.0	211.9	201.0	176.3	201.0
2018	131.8	126.0	80.4	81.3	73.2	78.4	65.2	83.2	83.0	87.1	83.0	60.0	83.0
2019	204.7	219.0	166.6	180.0	163.9	184.3	173.0	168.9	169.0	177.9	169.0	140.0	169.0
2020	158.8	154.0	134.7	134.9	127.4	130.4	125.6	137.6	138.0	137.9	138.0	102.4	138.0
Húmido	158.6	157.0	125.2	133.2	117.8	131.4	125.7	126.9	127.0	132.6	127.0	85.2	127.0
Medio	204.1	197.0	167.6	173.7	164.0	183.6	163.6	169.4	169.0	173.4	169.0	139.7	169.0
Seco	239.4	227.0	199.1	209.4	194.5	212.4	196.8	201.0	201.0	206.1	201.0	173.0	201.0

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### 5.36 MELANCIA

Tabela 64. Necessidades hídricas úteis anuais da melancia (mm)

Ano	Estuário	Sado	Oeste	Vila Franca de Xira	Sorraia	Almourol	Castelo de Bode	Castelo de Bode 2	Belver	Pracana	Fratel	Lis	Cedilho
2003	344.6	344.0	273.2	306.5	262.3	328.1	289.6	280.4	281.0	299.6	281.0	226.8	281.0
2004	399.0	381.0	324.2	342.0	320.3	334.1	294.4	329.9	330.0	329.3	330.0	227.3	330.0
2005	381.0	342.0	331.0	354.0	326.9	353.4	338.5	336.7	337.0	355.9	337.0	282.6	337.0
2006	337.1	325.0	252.7	282.1	243.7	283.1	278.7	258.8	259.0	293.2	259.0	229.8	259.0
2007	303.9	240.0	242.0	236.0	238.6	255.1	210.0	247.2	247.0	242.1	247.0	85.5	247.0
2008	287.0	256.0	241.1	241.4	224.8	235.4	233.9	243.4	244.0	252.5	244.0	192.2	244.0
2009	309.0	292.0	203.5	236.1	199.9	236.9	204.1	208.2	208.0	217.2	208.0	141.3	208.0
2010	329.4	287.0	279.8	300.9	266.9	302.5	289.6	285.5	286.0	295.5	286.0	238.8	286.0
2011	294.0	298.0	285.5	269.8	274.1	286.1	270.2	292.7	293.0	289.8	293.0	239.9	293.0
2012	328.2	326.0	273.4	292.2	261.0	306.4	284.6	279.6	280.0	293.5	280.0	209.3	280.0
2013	378.0	367.0	312.5	337.0	308.1	351.0	324.8	317.7	318.0	336.4	318.0	268.2	318.0
2014	295.0	287.0	212.0	261.9	209.8	309.0	258.2	217.9	218.0	243.7	218.0	199.1	218.0
2015	364.6	399.0	286.9	329.2	277.4	383.0	321.7	293.6	294.0	315.0	294.0	274.8	294.0
2016	321.2	348.0	256.8	285.7	242.6	293.5	276.9	261.4	262.0	282.7	262.0	200.1	262.0
2017	358.4	381.0	276.5	317.0	265.2	348.4	295.0	281.6	282.0	298.1	282.0	229.3	282.0
2018	245.3	258.0	140.0	163.6	135.6	198.4	137.4	144.9	145.0	162.7	145.0	66.6	145.0
2019	311.8	351.0	244.7	271.2	232.1	282.8	257.0	251.5	252.0	270.5	252.0	186.3	252.0
2020	324.6	327.0	269.9	293.6	255.1	299.8	287.9	274.5	275.0	291.8	275.0	237.1	275.0
Húmido	301.0	287.0	239.3	243.2	224.4	255.1	233.9	243.4	244.0	252.5	244.0	186.3	244.0
Medio	328.2	327.0	272.8	292.2	260.8	302.7	283.7	279.5	280.0	293.5	280.0	227.6	280.0
Seco	378.0	381.0	312.5	337.8	308.1	351.0	324.8	317.7	318.0	336.4	318.0	268.1	318.0

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### 5.37 GRÃO DE BICO

Tabela 65. Necessidades hídricas úteis anuais do grão de bico (mm)

Ano	Estuário	Sado	Oeste	Vila Franca de Xira	Sorraia	Almourol	Castelo de Bode	Castelo de Bode 2	Belver	Pracana	Fratel	Lis	Cedilho
2003	155.9	143.0	103.3	121.2	92.4	107.6	105.7	116.3	117.0	120.3	117.0	57.5	117.0
2004	215.5	157.0	155.9	166.5	157.3	133.9	113.2	171.7	172.0	150.2	172.0	44.2	172.0
2005	219.2	149.0	151.5	168.2	144.3	147.6	142.4	167.3	168.0	167.6	168.0	79.4	168.0
2006	198.0	161.0	123.1	141.5	112.0	121.0	138.9	136.3	137.0	145.8	137.0	93.5	137.0
2007	193.0	147.0	119.0	123.0	119.1	96.6	89.3	133.6	134.0	123.0	134.0	6.6	134.0
2008	74.7	23.0	4.1	12.1	5.8	1.9	1.3	2.0	0.0	0.4	0.0	0.0	0.0
2009	211.0	174.0	120.9	146.0	120.0	126.6	114.4	134.6	135.0	134.7	135.0	46.2	135.0
2010	125.2	73.0	58.3	83.5	47.6	77.6	65.8	71.3	72.0	70.4	72.0	46.1	72.0
2011	105.1	61.0	77.9	71.7	74.5	91.6	55.4	93.5	93.0	76.6	93.0	20.1	93.0
2012	107.6	72.0	51.2	71.2	53.3	57.2	53.2	66.6	67.0	69.2	67.0	6.6	67.0
2013	192.1	162.0	126.1	141.2	115.4	123.6	120.5	139.3	140.0	142.1	140.0	65.1	140.0
2014	162.9	131.0	85.6	115.2	75.0	126.3	104.4	99.3	100.0	109.6	100.0	36.5	100.0
2015	192.0	177.0	123.9	165.5	126.0	202.6	155.8	140.6	141.0	148.0	141.0	79.9	141.0
2016	71.2	46.0	19.9	29.2	14.0	9.0	20.7	29.6	30.0	32.6	30.0	0.0	30.0
2017	208.0	175.0	116.6	153.7	109.0	154.0	125.0	133.3	134.0	137.1	134.0	72.1	134.0
2018	96.3	77.0	26.4	27.7	13.1	13.1	11.7	30.5	31.0	31.1	31.0	6.9	31.0
2019	173.4	188.0	100.8	120.7	92.8	104.9	107.4	115.5	116.0	120.8	116.0	52.5	116.0
2020	88.6	54.0	46.8	52.3	36.4	32.6	40.8	60.3	61.0	56.3	61.0	8.0	61.0
Húmido	94.3	61.0	45.9	52.3	36.4	32.6	40.8	60.3	61.0	55.8	61.0	6.6	61.0
Medio	173.4	147.0	103.3	121.2	92.9	107.8	104.9	116.3	117.0	120.3	117.0	46.4	117.0
Seco	214.0	175.0	127.6	163.8	127.4	147.3	134.3	141.2	141.0	147.4	141.0	77.2	141.0

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### 5.38 NABO

Tabela 66. Necessidades hídricas úteis anuais do nabo (mm)

Ano	Estuário	Sado	Oeste	Vila Franca de Xira	Sorraia	Almourol	Castelo de Bode	Castelo de Bode 2	Belver	Pracana	Fratel	Lis	Cedilho
2003	33.5	31.0	19.7	23.9	12.4	14.5	18.8	21.7	22.0	23.7	22.0	15.4	22.0
2004	40.2	31.0	11.0	11.8	6.2	5.7	11.6	14.0	14.0	20.6	14.0	1.1	14.0
2005	56.5	48.0	31.6	42.1	24.5	25.4	32.7	35.7	36.0	40.3	36.0	26.5	36.0
2006	18.1	16.0	11.5	10.0	5.4	4.6	8.5	11.8	12.0	11.8	12.0	7.7	12.0
2007	87.2	45.0	78.9	72.3	69.9	15.9	58.0	83.7	84.0	73.9	84.0	75.9	84.0
2008	67.0	35.0	17.4	38.5	9.0	65.9	34.7	20.7	21.0	28.0	21.0	3.0	21.0
2009	56.5	41.0	45.7	30.6	36.1	14.6	28.8	50.7	51.0	47.0	51.0	13.8	51.0
2010	35.0	22.0	23.7	26.3	16.6	15.2	21.0	26.7	27.0	25.6	27.0	11.9	27.0
2011	83.0	74.0	79.9	52.3	71.3	18.1	46.4	85.7	86.0	78.1	86.0	36.2	86.0
2012	31.7	27.0	23.3	23.5	16.4	15.1	21.2	24.0	24.0	25.2	24.0	18.4	24.0
2013	45.5	25.0	24.7	21.3	17.7	14.3	16.6	25.9	26.0	26.2	26.0	7.7	26.0
2014	3.2	1.0	1.0	1.1	0.6	0.2	0.6	1.1	1.0	1.0	1.0	0.6	1.0
2015	27.8	29.0	6.7	6.4	3.7	3.6	4.9	7.4	7.0	7.1	7.0	1.7	7.0
2016	51.9	50.0	26.1	35.1	18.4	19.8	28.3	30.6	31.0	33.3	31.0	27.4	31.0
2017	109.0	136.0	48.2	78.3	39.4	77.9	69.8	52.6	53.0	63.5	53.0	47.0	53.0
2018	71.1	63.0	46.8	55.0	37.8	36.1	45.0	51.7	52.0	52.0	52.0	43.2	52.0
2019	45.7	34.0	28.4	34.3	20.2	25.3	27.3	32.7	33.0	35.5	33.0	15.2	33.0
2020	36.6	26.0	15.6	18.6	11.1	10.7	14.9	16.0	16.0	17.0	16.0	15.8	16.0
Húmido	30.4	25.0	12.1	12.7	6.2	6.4	11.7	13.9	14.0	15.5	14.0	3.0	14.0
Medio	48.7	34.0	24.5	30.6	17.6	15.2	22.3	26.7	27.0	30.0	27.0	16.0	27.0
Seco	83.0	63.0	48.2	56.0	39.4	36.1	45.6	52.6	53.0	53.0	53.0	44.3	53.0



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### 5.39 PISTÁCIO

Tabela 67. Necessidades hídricas úteis anuais do pistácio (mm)

Ano	Estuário	Sado	Oeste	Vila Franca de Xira	Sorraia	Almourol	Castelo de Bode	Castelo de Bode 2	Belver	Pracana	Fratel	Lis	Cedilho
2003	215.3	223.0	166.8	176.7	145.4	177.0	160.0	169.3	170.0	177.8	170.0	111.5	170.0
2004	322.7	251.0	238.7	256.2	247.2	218.5	196.4	259.4	259.0	239.3	259.0	98.8	259.0
2005	346.1	270.0	240.8	285.3	251.3	275.7	248.8	262.6	263.0	263.5	263.0	146.5	263.0
2006	257.3	212.0	154.1	161.2	139.4	149.6	161.7	163.3	164.0	182.6	164.0	114.5	164.0
2007	262.9	182.0	161.3	170.5	162.4	136.6	133.2	186.3	187.0	175.8	187.0	4.6	187.0
2008	155.1	100.0	51.0	68.3	33.2	46.3	45.7	53.6	54.0	57.4	54.0	0.0	54.0
2009	322.8	243.0	230.3	247.1	247.4	206.6	213.9	259.6	260.0	255.8	260.0	95.6	260.0
2010	217.4	146.0	126.8	152.7	107.3	137.2	125.2	129.5	130.0	129.3	130.0	78.5	130.0
2011	220.6	152.0	185.6	183.1	187.6	200.8	165.3	209.7	210.0	183.9	210.0	83.5	210.0
2012	253.1	193.0	175.8	209.8	189.1	203.6	183.2	200.8	201.0	206.7	201.0	68.7	201.0
2013	271.0	249.0	196.5	210.5	179.0	197.6	187.0	203.3	204.0	210.1	204.0	116.5	204.0
2014	213.9	189.0	136.1	164.7	118.4	189.8	155.4	142.3	143.0	158.6	143.0	80.5	143.0
2015	323.0	310.0	222.5	280.1	234.1	340.5	271.5	246.6	247.0	261.3	247.0	140.8	247.0
2016	133.7	126.0	73.8	82.3	53.8	66.3	70.7	76.3	77.0	83.3	77.0	0.0	77.0
2017	305.4	282.0	198.8	242.4	188.0	246.8	208.9	212.3	213.0	219.9	213.0	142.6	213.0
2018	135.3	131.0	52.8	56.2	32.4	49.2	29.0	56.3	57.0	60.6	57.0	0.0	57.0
2019	285.3	289.0	171.7	203.0	181.0	198.4	167.3	197.0	197.0	196.2	197.0	84.6	197.0
2020	185.7	135.0	113.3	113.3	102.8	92.2	93.2	122.2	122.0	116.6	122.0	42.6	122.0
Húmido	185.7	135.0	113.3	113.3	102.8	92.2	93.2	122.2	122.0	117.0	122.0	4.6	122.0
Medio	258.3	212.0	172.8	183.1	175.2	196.0	171.6	196.4	197.0	198.1	197.0	84.6	197.0
Seco	322.7	282.0	230.0	256.2	245.4	246.8	222.7	258.5	259.0	255.1	259.0	140.7	259.0

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### 5.40 SOJA

Tabela 68. Necessidades hídricas úteis anuais da soja (mm)

Ano	Estuário	Sado	Oeste	Vila Franca de Xira	Sorraia	Almourol	Castelo de Bode	Castelo de Bode 2	Belver	Pracana	Fratel	Lis	Cedilho
2003	518.1	499.0	418.6	486.3	433.7	487.9	460.6	447.7	448.0	472.7	448.0	368.1	448.0
2004	541.0	487.0	406.6	453.0	421.1	456.9	407.7	435.7	436.0	451.8	436.0	258.9	436.0
2005	558.1	481.0	464.1	527.5	482.3	512.6	503.7	496.7	497.0	530.7	497.0	428.6	497.0
2006	537.0	479.0	414.1	493.7	433.7	493.6	482.7	447.7	448.0	494.0	448.0	385.9	448.0
2007	494.7	387.0	404.8	420.2	426.2	438.6	396.6	440.2	440.0	441.0	440.0	238.5	440.0
2008	484.0	399.0	379.0	410.7	383.0	420.3	401.2	408.4	409.0	424.8	409.0	312.7	409.0
2009	520.0	458.0	381.6	450.1	401.9	451.9	412.9	415.7	416.0	431.2	416.0	321.9	416.0
2010	545.0	455.0	438.7	520.0	452.5	525.6	500.6	471.8	472.0	497.2	472.0	426.6	472.0
2011	475.2	457.0	445.6	434.9	462.5	459.6	450.4	476.7	477.0	477.0	477.0	347.9	477.0
2012	531.0	481.0	425.0	480.9	438.1	502.6	469.3	458.5	459.0	480.8	459.0	326.9	459.0
2013	562.0	505.0	455.1	514.1	474.3	530.5	498.8	488.7	489.0	519.7	489.0	398.9	489.0
2014	465.0	432.0	345.9	428.1	362.4	486.6	428.2	375.6	376.0	410.5	376.0	329.2	376.0
2015	554.8	564.0	438.0	515.5	453.3	586.6	515.7	467.7	468.0	501.7	468.0	395.9	468.0
2016	537.1	542.0	413.4	495.4	421.4	517.4	483.7	445.7	446.0	483.8	446.0	348.4	446.0
2017	538.6	539.0	401.9	493.1	412.5	535.9	471.0	434.6	435.0	466.6	435.0	347.0	435.0
2018	446.0	440.0	301.5	365.0	315.3	408.6	339.7	329.7	330.0	360.2	330.0	227.9	330.0
2019	510.3	517.0	402.1	471.0	420.3	498.9	450.5	434.7	435.0	458.0	435.0	325.9	435.0
2020	529.0	494.0	413.5	481.5	425.7	502.7	469.9	444.9	445.0	475.8	445.0	358.5	445.0
Húmido	484.0	440.0	384.2	428.1	402.8	451.9	404.4	415.7	416.0	431.2	416.0	311.8	416.0
Medio	531.2	481.0	413.9	480.9	426.8	498.5	465.8	445.3	446.0	471.4	446.0	347.6	446.0
Seco	554.8	539.0	445.6	515.5	463.7	530.5	498.3	477.0	477.0	510.7	477.0	400.3	477.0

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### 5.41 FIGO

Tabela 69. Necessidades hídricas úteis anuais do figo (mm)

Ano	Estuário	Sado	Oeste	Vila Franca de Xira	Sorraia	Almourol	Castelo de Bode	Castelo de Bode 2	Belver	Pracana	Fratel	Lis	Cedilho
2003	343.1	351.0	275.1	301.6	248.1	280.3	273.9	278.3	279.0	293.3	279.0	230.0	279.0
2004	400.2	379.0	283.8	287.7	257.1	271.6	242.8	287.1	288.0	296.8	288.0	122.0	288.0
2005	429.1	388.0	353.1	374.6	326.1	341.3	343.4	356.3	357.0	378.4	357.0	294.4	357.0
2006	343.2	323.0	260.1	282.7	233.1	256.9	266.5	263.3	264.0	292.3	264.0	211.0	264.0
2007	311.2	237.0	264.8	241.6	238.1	238.6	211.1	268.1	269.0	258.6	269.0	129.5	269.0
2008	304.2	260.0	229.8	234.7	203.1	254.3	231.5	233.1	234.0	245.6	234.0	161.0	234.0
2009	363.2	340.0	253.8	270.6	227.1	251.9	236.0	257.1	258.0	261.1	258.0	175.1	258.0
2010	361.2	309.0	300.1	323.2	273.1	306.6	302.9	303.3	304.0	314.1	304.0	267.5	304.0
2011	330.2	346.0	335.8	274.6	309.0	259.6	273.1	339.1	340.0	327.6	340.0	221.1	340.0
2012	342.2	342.0	280.1	293.2	253.1	300.9	284.5	283.3	284.0	298.3	284.0	198.5	284.0
2013	398.2	380.0	324.1	337.2	297.1	331.6	317.7	327.3	328.0	345.4	328.0	256.0	328.0
2014	273.2	265.0	180.8	221.7	154.1	253.6	215.3	184.1	185.0	209.4	185.0	147.0	185.0
2015	365.2	408.0	278.8	302.7	252.1	336.3	295.2	282.1	283.0	298.9	283.0	241.4	283.0
2016	356.2	392.0	278.0	310.7	250.7	304.6	297.7	281.3	282.0	306.6	282.0	223.5	282.0
2017	421.2	451.0	301.8	357.9	275.1	377.3	323.0	305.1	306.0	326.4	306.0	259.4	306.0
2018	307.1	325.0	195.8	217.7	169.1	224.6	185.5	199.1	200.0	216.6	200.0	139.0	200.0
2019	349.2	381.0	274.8	302.7	248.1	305.9	276.6	278.1	279.0	291.3	279.0	189.4	279.0
2020	336.2	341.0	259.1	281.2	232.1	278.6	271.2	262.3	263.0	281.9	263.0	212.5	263.0
Húmido	311.2	309.0	253.8	241.6	227.1	253.6	236.0	257.1	258.0	263.6	258.0	147.0	258.0
Medio	349.2	346.0	278.0	293.2	250.7	280.3	276.9	281.3	282.0	296.1	282.0	212.5	282.0
Seco	400.2	392.0	324.1	337.2	297.1	336.3	317.7	327.3	328.0	342.9	328.0	259.4	328.0

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### 5.42 CASTANHEIRO

Tabela 70. Necessidades hídricas úteis anuais do castanheiro (mm)

Ano	Estuário	Sado	Oeste	Vila Franca de Xira	Sorraia	Almourol	Castelo de Bode	Castelo de Bode 2	Belver	Pracana	Fratel	Lis	Cedilho
2003	343.1	351.0	275.1	301.6	248.1	280.3	273.9	278.3	279.0	293.3	279.0	230.0	279.0
2004	400.2	379.0	283.8	287.7	257.1	271.6	242.8	287.1	288.0	296.8	288.0	122.0	288.0
2005	429.1	388.0	353.1	374.6	326.1	341.3	343.4	356.3	357.0	378.4	357.0	294.4	357.0
2006	343.2	323.0	260.1	282.7	233.1	256.9	266.5	263.3	264.0	292.3	264.0	211.0	264.0
2007	311.2	237.0	264.8	241.6	238.1	238.6	211.1	268.1	269.0	258.6	269.0	129.5	269.0
2008	304.2	260.0	229.8	234.7	203.1	254.3	231.5	233.1	234.0	245.6	234.0	161.0	234.0
2009	363.2	340.0	253.8	270.6	227.1	251.9	236.0	257.1	258.0	261.1	258.0	175.1	258.0
2010	361.2	309.0	300.1	323.2	273.1	306.6	302.9	303.3	304.0	314.1	304.0	267.5	304.0
2011	330.2	346.0	335.8	274.6	309.0	259.6	273.1	339.1	340.0	327.6	340.0	221.1	340.0
2012	342.2	342.0	280.1	293.2	253.1	300.9	284.5	283.3	284.0	298.3	284.0	198.5	284.0
2013	398.2	380.0	324.1	337.2	297.1	331.6	317.7	327.3	328.0	345.4	328.0	256.0	328.0
2014	273.2	265.0	180.8	221.7	154.1	253.6	215.3	184.1	185.0	209.4	185.0	147.0	185.0
2015	365.2	408.0	278.8	302.7	252.1	336.3	295.2	282.1	283.0	298.9	283.0	241.4	283.0
2016	356.2	392.0	278.0	310.7	250.7	304.6	297.7	281.3	282.0	306.6	282.0	223.5	282.0
2017	421.2	451.0	301.8	357.9	275.1	377.3	323.0	305.1	306.0	326.4	306.0	259.4	306.0
2018	307.1	325.0	195.8	217.7	169.1	224.6	185.5	199.1	200.0	216.6	200.0	139.0	200.0
2019	349.2	381.0	274.8	302.7	248.1	305.9	276.6	278.1	279.0	291.3	279.0	189.4	279.0
2020	336.2	341.0	259.1	281.2	232.1	278.6	271.2	262.3	263.0	281.9	263.0	212.5	263.0
Húmido	311.2	309.0	253.8	241.6	227.1	253.6	236.0	257.1	258.0	263.6	258.0	147.0	258.0
Medio	349.2	346.0	278.0	293.2	250.7	280.3	276.9	281.3	282.0	296.1	282.0	212.5	282.0
Seco	400.2	392.0	324.1	337.2	297.1	336.3	317.7	327.3	328.0	342.9	328.0	259.4	328.0

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### 5.43 DIOSPIRO

Tabela 71. Necessidades hídricas úteis anuais do diospiro (mm)

Ano	Estuário	Sado	Oeste	Vila Franca de Xira	Sorraia	Almourol	Castelo de Bode	Castelo de Bode 2	Belver	Pracana	Fratel	Lis	Cedilho
2003	443.2	457.0	364.6	399.7	337.1	379.6	369.7	367.3	368.0	388.3	368.0	325.0	368.0
2004	518.1	496.0	379.8	392.6	353.1	381.3	351.3	383.1	384.0	404.3	384.0	224.0	384.0
2005	547.5	511.0	458.8	494.6	432.1	455.9	459.3	462.1	463.0	494.6	463.0	426.4	463.0
2006	441.2	435.0	349.8	381.2	323.1	357.3	362.9	353.1	354.0	389.1	354.0	308.5	354.0
2007	475.1	380.0	429.4	400.7	402.4	365.9	367.6	432.3	433.0	415.9	433.0	297.5	433.0
2008	438.2	383.0	344.8	374.2	318.1	408.9	365.4	348.1	349.0	371.1	349.0	296.5	349.0
2009	495.1	466.0	379.1	394.2	352.1	372.3	351.2	382.3	383.0	391.6	383.0	284.4	383.0
2010	474.2	423.0	414.1	439.2	387.1	420.6	421.8	417.3	418.0	434.6	418.0	384.5	418.0
2011	469.2	486.0	474.1	413.6	447.1	391.9	410.3	477.3	478.0	470.4	478.0	365.5	478.0
2012	460.2	476.0	383.1	407.7	356.1	431.6	395.7	386.3	387.0	409.4	387.0	300.0	387.0
2013	499.2	478.0	420.1	439.7	393.1	442.6	422.9	423.3	424.0	448.6	424.0	355.1	424.0
2014	338.1	337.0	242.8	285.7	216.1	325.6	282.5	246.1	247.0	275.3	247.0	222.1	247.0
2015	471.2	525.0	375.1	403.2	348.1	451.3	397.6	378.3	379.0	402.3	379.0	323.0	379.0
2016	498.2	550.0	401.1	449.6	374.1	452.6	434.1	404.3	405.0	439.1	405.0	355.5	405.0
2017	559.1	622.0	418.8	486.5	392.1	523.3	468.7	422.1	423.0	458.8	423.0	387.0	423.0
2018	437.1	464.0	311.1	345.6	284.1	355.2	314.5	314.3	315.0	340.6	315.0	271.0	315.0
2019	467.2	507.0	384.8	418.2	358.1	427.6	391.3	388.1	389.0	408.1	389.0	286.4	389.0
2020	472.2	480.0	378.8	413.1	352.1	407.3	391.0	382.1	383.0	410.6	383.0	307.1	383.0
Húmido	441.2	423.0	349.8	381.2	323.1	365.9	342.5	353.1	354.0	369.9	354.0	284.4	354.0
Medio	472.2	478.0	383.1	407.7	356.1	408.9	390.7	386.3	387.0	408.3	387.0	308.5	387.0
Seco	518.1	525.0	429.4	449.6	402.4	452.6	442.5	432.3	433.0	460.1	433.0	384.5	433.0

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### 5.44 FIGO DA INDIA

Tabela 72. Necessidades hídricas úteis anuais do figo da india (mm)

Ano	Estuário	Sado	Oeste	Vila Franca de Xira	Sorraia	Almourol	Castelo de Bode	Castelo de Bode 2	Belver	Pracana	Fratel	Lis	Cedilho
2003	133.2	404.0	263.3	96.7	68.1	73.6	82.6	98.1	99.0	101.3	99.0	274.5	99.0
2004	129.1	463.0	300.6	75.7	58.1	46.6	42.9	88.3	89.0	78.3	89.0	180.0	89.0
2005	116.2	550.0	376.4	84.2	59.1	56.4	68.5	89.1	90.0	91.3	90.0	376.6	90.0
2006	97.2	393.0	243.1	45.2	21.5	17.0	42.0	49.1	50.0	66.1	50.0	260.5	50.0
2007	67.3	367.0	296.0	13.0	11.1	6.3	8.6	25.3	25.0	18.8	25.0	197.5	25.0
2008	51.8	301.0	203.9	17.4	9.4	3.2	9.0	20.6	20.0	19.2	20.0	207.5	20.0
2009	82.2	480.0	307.3	32.0	7.7	9.5	13.0	16.8	16.0	16.0	16.0	256.4	16.0
2010	86.2	368.0	273.4	50.2	30.0	26.4	40.1	60.1	61.0	55.8	61.0	326.5	61.0
2011	73.2	409.0	321.5	44.7	51.4	33.0	47.6	81.3	82.0	68.6	82.0	287.4	82.0
2012	89.2	459.0	314.3	54.6	25.4	45.9	46.6	55.3	56.0	59.1	56.0	277.8	56.0
2013	114.2	449.0	304.5	62.2	31.4	45.0	43.3	61.3	62.0	66.1	62.0	318.5	62.0
2014	72.2	319.0	179.1	34.9	9.5	37.1	22.1	21.3	21.0	28.1	21.0	197.5	21.0
2015	127.2	512.0	285.1	92.6	56.0	86.6	81.7	86.1	87.0	91.1	87.0	278.0	87.0
2016	75.2	452.0	252.6	37.4	16.5	20.1	29.9	38.4	39.0	43.9	39.0	270.0	39.0
2017	99.1	585.0	306.3	62.2	29.1	42.0	49.1	59.1	60.0	61.9	60.0	348.5	60.0
2018	52.6	393.0	185.4	4.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	179.4	0.0
2019	102.2	507.0	264.3	67.7	35.1	53.5	53.2	65.1	66.0	69.4	66.0	234.5	66.0
2020	86.2	396.0	241.9	52.6	28.4	30.3	41.2	58.3	59.0	57.3	59.0	245.0	59.0
Húmido	72.2	368.0	232.4	32.0	9.5	9.5	14.5	21.3	21.0	20.0	21.0	197.5	21.0
Medio	89.2	449.0	278.4	52.6	29.1	37.1	41.5	59.1	60.0	59.6	60.0	270.0	60.0
Seco	127.2	512.0	324.1	84.2	58.1	56.4	68.2	88.3	89.0	92.6	89.0	326.5	89.0

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### 5.45 ARROZ

Tabela 73. Necessidades hídricas úteis anuais do arroz (mm)

Ano	Estuário	Sado	Oeste	Vila Franca de Xira	Sorraia	Almourol	Castelo de Bode	Castelo de Bode 2	Belver	Pracana	Fratel	Lis	Cedilho
2003	759.5	754.1	690.6	766.0	697.3	827.9	827.9	783.4	826.7	836.1	849.3	869.9	869.9
2004	742.4	724.6	662.1	730.1	668.8	792.4	792.4	754.9	791.2	801.5	838.4	871.1	871.1
2005	725.0	709.4	696.2	742.4	702.9	815.7	815.7	789.1	825.6	837.5	861.4	883.9	883.9
2006	773.9	782.8	742.6	812.2	749.3	837.3	837.3	835.4	836.0	843.9	863.7	887.6	887.6
2007	806.2	833.9	751.2	840.7	757.9	884.0	884.0	844.0	885.1	893.8	916.3	933.3	933.3
2008	858.3	882.9	803.1	901.8	809.8	909.4	909.4	895.9	918.8	939.2	963.6	991.5	991.5
2009	846.2	874.2	795.7	881.6	802.3	883.1	883.1	888.6	895.4	924.6	964.1	1002.7	1002.7
2010	779.0	831.1	740.6	848.6	747.4	901.0	901.0	833.5	929.2	963.2	1006.6	1046.9	1046.9
2011	821.3	843.7	777.2	878.3	783.8	908.0	908.0	870.0	931.0	964.2	1008.7	1048.3	1048.3
2012	829.2	875.0	762.4	861.8	769.0	906.8	906.8	855.2	953.3	1009.8	1030.7	1041.2	1041.2
2013	810.0	860.9	748.2	816.8	754.9	869.6	869.6	841.0	915.8	977.4	1007.2	1023.4	1023.4
2014	818.8	848.9	746.2	867.6	752.8	897.5	897.5	839.0	929.3	979.8	1015.1	1035.8	1035.8
2015	767.8	777.3	714.1	818.3	720.8	870.1	870.1	806.9	917.8	967.1	984.7	985.5	985.5
2016	779.6	813.1	738.6	832.2	745.3	895.2	895.2	831.5	946.3	998.9	1026.2	1037.4	1037.4
2017	715.4	746.2	662.6	748.5	669.2	846.8	846.8	755.4	861.0	875.2	891.8	899.8	899.8
2018	708.7	745.7	659.5	727.4	666.1	801.8	801.8	752.4	836.0	874.7	908.2	926.1	926.1
2019	776.8	787.6	745.1	815.3	751.7	863.5	863.5	837.9	891.4	920.8	940.0	950.9	950.9
2020	800.2	822.8	755.3	824.4	762.0	892.6	892.6	848.2	919.4	955.5	985.0	1005.7	1005.7
Húmido	742.4	746.2	690.6	748.5	697.3	827.9	827.9	783.4	836.0	843.9	863.7	887.6	887.6
Medio	779.6	822.8	745.1	824.4	751.7	883.1	883.1	837.9	915.8	939.2	964.1	991.5	991.5
Seco	829.2	874.2	777.2	878.3	783.8	906.8	906.8	870.0	931.0	979.8	1015.1	1041.2	1041.2

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### 5.46 ESTUFAS

Tabela 74. Necessidades hídricas úteis anuais em estufa (mm)

Ano	Estuário	Sado	Oeste	Vila Franca de Xira	Sorraia	Almourol	Castelo de Bode	Castelo de Bode 2	Belver	Pracana	Fratel	Lis	Cedilho
2003	557.9	557.9	557.9	557.9	557.9	557.9	557.9	557.9	557.9	557.9	557.9	557.9	557.9
2004	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9
2005	810.0	810.0	810.0	810.0	810.0	810.0	810.0	810.0	810.0	810.0	810.0	810.0	810.0
2006	579.4	579.4	579.4	579.4	579.4	579.4	579.4	579.4	579.4	579.4	579.4	579.4	579.4
2007	806.4	806.4	806.4	806.4	806.4	806.4	806.4	806.4	806.4	806.4	806.4	806.4	806.4
2008	495.8	495.8	495.8	495.8	495.8	495.8	495.8	495.8	495.8	495.8	495.8	495.8	495.8
2009	805.2	805.2	805.2	805.2	805.2	805.2	805.2	805.2	805.2	805.2	805.2	805.2	805.2
2010	632.0	632.0	632.0	632.0	632.0	632.0	632.0	632.0	632.0	632.0	632.0	632.0	632.0
2011	778.9	778.9	778.9	778.9	778.9	778.9	778.9	778.9	778.9	778.9	778.9	778.9	778.9
2012	710.8	710.8	710.8	710.8	710.8	710.8	710.8	710.8	710.8	710.8	710.8	710.8	710.8
2013	707.3	707.3	707.3	707.3	707.3	707.3	707.3	707.3	707.3	707.3	707.3	707.3	707.3
2014	499.4	499.4	499.4	499.4	499.4	499.4	499.4	499.4	499.4	499.4	499.4	499.4	499.4
2015	677.4	677.4	677.4	677.4	677.4	677.4	677.4	677.4	677.4	677.4	677.4	677.4	677.4
2016	550.8	550.8	550.8	550.8	550.8	550.8	550.8	550.8	550.8	550.8	550.8	550.8	550.8
2017	745.5	745.5	745.5	745.5	745.5	745.5	745.5	745.5	745.5	745.5	745.5	745.5	745.5
2018	512.5	512.5	512.5	512.5	512.5	512.5	512.5	512.5	512.5	512.5	512.5	512.5	512.5
2019	665.4	665.4	665.4	665.4	665.4	665.4	665.4	665.4	665.4	665.4	665.4	665.4	665.4
2020	561.5	561.5	561.5	561.5	561.5	561.5	561.5	561.5	561.5	561.5	561.5	561.5	561.5
Húmido	550.8	550.8	550.8	550.8	550.8	550.8	550.8	550.8	550.8	550.8	550.8	550.8	550.8
Medio	677.4	677.4	677.4	677.4	677.4	677.4	677.4	677.4	677.4	677.4	677.4	677.4	677.4
Seco	805.2	805.2	805.2	805.2	805.2	805.2	805.2	805.2	805.2	805.2	805.2	805.2	805.2



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### 6 NECESSIDADES HIDRICAS TOTAIS

#### 6.1 ABOBORA

Tabela 75. Necessidades hídricas totais anuais da abóbora (mm)

Ano	Estuário	Sado	Oeste	Vila Franca de Xira	Sorraia	Almourol	Castelo de Bode	Castelo de Bode 2	Belver	Pracana	Fratel	Lis	Cedilho
2003	628.3	650.2	522.0	589.6	509.6	612.5	554.7	522.6	522.0	560.2	522.0	489.3	522.0
2004	688.8	677.5	550.3	570.8	540.8	582.2	514.6	551.5	551.7	570.6	551.7	346.9	551.7
2005	724.4	691.7	635.7	680.4	626.0	667.7	647.4	636.8	637.1	679.4	637.1	598.2	637.1
2006	647.2	643.1	516.2	568.6	506.6	585.8	555.3	516.7	516.1	572.0	516.1	477.1	516.1
2007	607.0	520.8	544.5	526.2	535.7	559.7	494.8	545.4	545.8	543.3	545.8	329.2	545.8
2008	583.1	525.6	480.5	490.5	458.5	505.7	477.8	482.8	482.9	503.0	482.9	404.7	482.9
2009	643.9	621.7	505.2	550.6	497.0	549.9	499.8	506.4	506.6	523.6	506.6	419.0	506.6
2010	650.8	582.5	570.0	615.4	547.9	628.5	593.3	571.9	571.9	597.0	571.9	555.6	571.9
2011	564.0	593.2	554.6	503.0	531.9	533.8	497.5	557.0	557.6	552.5	557.6	427.4	557.6
2012	645.5	634.7	552.9	579.7	532.0	608.4	570.2	554.7	555.3	582.8	555.3	455.8	555.3
2013	731.6	716.6	644.4	679.2	635.1	711.6	665.4	645.2	645.4	683.4	645.4	587.8	645.4
2014	533.4	533.9	423.3	491.3	415.5	570.5	493.1	424.5	424.7	468.2	424.7	414.5	424.7
2015	658.6	740.3	533.9	598.0	524.4	700.5	587.3	533.7	532.7	566.6	532.7	488.6	532.7
2016	649.1	713.1	526.8	590.5	505.1	610.5	573.8	528.9	529.2	573.5	529.2	472.4	529.2
2017	697.5	759.3	558.0	643.1	546.4	706.9	605.4	558.3	557.6	596.9	557.6	507.4	557.6
2018	558.3	601.5	413.8	462.1	404.5	515.8	428.8	415.0	415.3	455.2	415.3	356.2	415.3
2019	605.0	684.6	501.5	544.4	484.7	574.3	515.0	502.8	503.1	527.8	503.1	413.1	503.1
2020	606.6	619.3	514.4	556.9	493.4	577.6	548.1	516.7	517.3	552.4	517.3	468.7	517.3
Húmido	585.4	582.5	500.1	503.3	484.3	549.8	486.2	502.1	503.1	521.0	503.1	404.7	503.1
Medio	642.7	643.1	533.6	573.1	522.7	587.0	557.0	533.7	532.7	565.9	532.7	468.7	532.7
Seco	697.5	716.6	570.9	643.1	552.2	700.5	609.6	572.1	571.9	613.9	571.9	555.6	571.9

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### 6.2 BATATA

Tabela 76. Necessidades hídricas totais anuais da batata (mm)

Ano	Estuário	Sado	Oeste	Vila Franca de Xira	Sorraia	Almourol	Castelo de Bode	Castelo de Bode 2	Belver	Pracana	Fratel	Lis	Cedilho
2003	447.1	457.3	371.7	398.3	358.3	398.6	376.3	373.9	374.5	390.8	374.5	325.9	374.5
2004	538.5	497.0	452.7	464.7	447.3	442.7	394.9	453.7	453.8	448.6	453.8	302.2	453.8
2005	531.1	484.2	454.6	479.8	438.6	466.4	450.7	456.6	457.3	476.1	457.3	402.4	457.3
2006	446.7	422.3	343.2	370.7	330.6	362.6	370.0	344.5	344.2	383.5	344.2	316.7	344.2
2007	447.3	387.3	360.6	347.4	356.2	344.0	294.9	361.5	361.7	348.9	361.7	151.2	361.7
2008	378.1	329.0	272.4	281.2	246.2	272.9	262.6	274.9	275.3	288.2	275.3	196.2	275.3
2009	477.6	458.5	352.0	388.5	348.2	383.8	346.4	352.5	352.3	363.5	352.3	279.5	352.3
2010	426.2	362.8	341.4	375.5	327.1	382.2	352.0	341.7	340.7	349.7	340.7	310.0	340.7
2011	416.9	395.5	400.2	364.2	376.3	397.8	363.4	403.1	403.7	392.9	403.7	327.0	403.7
2012	399.9	392.0	328.2	352.7	316.2	377.2	347.4	329.9	330.2	351.5	330.2	272.6	330.2
2013	492.7	477.2	404.1	431.1	391.2	437.4	408.3	405.6	406.0	425.8	406.0	346.7	406.0
2014	422.5	407.2	318.2	367.0	305.8	416.6	358.1	319.3	318.5	346.2	318.5	293.2	318.5
2015	493.5	529.7	411.7	465.2	405.5	547.2	460.4	411.7	410.7	438.4	410.7	400.9	410.7
2016	367.7	403.7	285.7	311.2	263.6	312.4	297.2	287.6	288.2	307.8	288.2	202.2	288.2
2017	507.9	533.2	386.8	447.2	375.4	479.8	408.2	387.6	387.3	404.3	387.3	337.6	387.3
2018	308.6	324.3	193.7	209.7	181.3	240.5	177.4	195.6	196.0	213.5	196.0	102.6	196.0
2019	433.5	494.7	357.2	376.9	335.5	382.6	362.3	359.7	360.5	380.6	360.5	288.4	360.5
2020	392.6	387.3	323.8	331.6	308.1	331.5	311.9	324.2	323.2	331.2	323.2	250.0	323.2
Húmido	391.9	387.3	318.2	329.5	304.9	331.5	305.9	319.3	318.5	327.7	318.5	202.2	318.5
Medio	440.3	422.3	356.9	374.6	350.0	385.3	361.3	359.7	360.5	377.7	360.5	306.7	360.5
Seco	509.4	497.0	411.7	465.1	406.8	466.4	415.5	411.7	410.7	433.4	410.7	346.7	410.7

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### 6.3 BATATA DOCE

Tabela 77. Necessidades hídricas totais anuais da batata doce (mm)

Ano	Estuário	Sado	Oeste	Vila Franca de Xira	Sorraia	Almourol	Castelo de Bode	Castelo de Bode 2	Belver	Pracana	Fratel	Lis	Cedilho
2003	593.1	609.0	474.0	531.9	444.3	539.1	492.7	477.1	477.2	509.8	477.2	403.3	477.2
2004	656.5	637.0	505.8	526.8	477.9	510.4	455.9	509.0	509.8	521.4	509.8	302.0	509.8
2005	690.3	651.0	589.8	628.0	561.6	596.3	589.3	593.9	595.0	632.5	595.0	531.5	595.0
2006	648.3	634.7	499.8	553.0	471.1	556.3	540.6	502.0	501.7	559.9	501.7	457.9	501.7
2007	605.2	514.5	528.2	501.1	500.1	509.9	469.1	531.2	532.0	531.1	532.0	273.9	532.0
2008	541.5	469.0	435.8	436.1	395.0	431.1	421.6	440.8	442.2	457.9	442.2	350.5	442.2
2009	617.8	588.0	466.4	505.8	438.5	484.3	448.2	469.4	470.2	484.7	470.2	361.1	470.2
2010	630.8	556.5	527.2	574.4	486.4	572.6	546.9	532.0	533.2	558.3	533.2	500.0	533.2
2011	520.1	540.2	507.3	450.3	466.5	484.7	460.6	511.9	513.3	508.0	513.3	383.0	513.3
2012	620.1	605.5	516.7	538.5	478.9	550.1	522.7	520.5	521.5	544.8	521.5	391.2	521.5
2013	702.9	679.0	601.0	629.7	572.7	634.8	606.0	604.6	605.5	638.4	605.5	523.9	605.5
2014	562.0	553.0	433.4	499.0	405.4	564.8	497.1	436.7	437.5	480.9	437.5	403.1	437.5
2015	646.9	716.3	511.8	578.4	484.2	663.9	566.4	514.4	514.5	551.0	514.5	471.0	514.5
2016	614.5	676.7	495.2	553.5	454.1	564.7	535.5	500.3	501.7	543.7	501.7	412.3	501.7
2017	667.0	717.5	510.4	591.0	482.9	642.6	546.0	513.5	514.5	550.3	514.5	441.1	514.5
2018	515.3	551.8	355.3	396.3	327.2	435.7	358.8	358.5	359.3	395.7	359.3	267.8	359.3
2019	593.1	669.7	472.6	511.8	438.5	523.3	475.4	476.3	477.2	500.4	477.2	358.5	477.2
2020	601.9	614.8	497.8	535.2	460.6	539.6	521.4	501.8	502.8	536.7	502.8	426.2	502.8
Húmido	562.0	551.8	465.9	499.0	435.6	484.7	446.7	468.9	470.2	484.7	470.2	350.5	470.2
Medio	620.1	614.8	504.1	537.7	472.7	548.7	520.5	508.4	509.8	536.3	509.8	404.7	509.8
Seco	667.0	679.0	531.3	591.9	502.4	634.8	570.7	533.5	533.2	583.6	533.2	500.0	533.2

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### 6.4 CENOURA

Tabela 78. Necessidades hídricas totais anuais da cenoura (mm)

Ano	Estuário	Sado	Oeste	Vila Franca de Xira	Sorraia	Almourol	Castelo de Bode	Castelo de Bode 2	Belver	Pracana	Fratel	Lis	Cedilho
2003	505.8	527.5	431.8	479.9	421.7	475.6	451.6	433.2	433.8	460.5	433.8	417.4	433.8
2004	595.8	597.5	468.8	499.4	458.4	517.2	482.3	469.6	470.0	512.3	470.0	346.5	470.0
2005	632.0	635.0	549.8	603.7	539.5	578.0	576.1	550.9	551.3	595.8	551.3	574.3	551.3
2006	494.0	500.0	400.4	442.3	391.4	429.8	421.0	401.4	401.3	442.7	401.3	378.1	401.3
2007	584.3	490.0	555.2	529.0	546.2	498.8	496.4	556.0	556.3	543.3	556.3	429.4	556.3
2008	579.5	527.5	488.5	534.4	478.4	593.5	530.4	489.6	490.0	523.6	490.0	463.0	490.0
2009	582.0	548.8	503.5	504.7	494.5	496.0	465.8	504.6	505.0	520.2	505.0	400.3	505.0
2010	575.3	530.0	527.3	560.3	517.7	551.8	546.6	528.4	528.8	552.7	528.8	516.5	528.8
2011	635.8	640.0	627.3	582.6	617.0	563.5	574.0	628.4	628.8	628.9	628.8	533.0	628.8
2012	579.1	596.3	494.8	536.2	484.4	575.5	522.7	495.9	496.3	525.2	496.3	428.0	496.3
2013	563.8	545.0	501.9	526.1	491.7	555.3	525.0	503.4	503.8	537.4	503.8	476.5	503.8
2014	382.0	391.3	319.8	361.6	310.0	411.2	369.7	320.9	321.3	351.8	321.3	335.5	321.3
2015	530.9	598.8	446.0	479.9	436.0	555.5	481.7	447.3	447.5	475.8	447.5	407.8	447.5
2016	638.3	707.5	538.5	607.6	528.5	636.0	591.7	539.8	540.0	583.9	540.0	532.8	540.0
2017	673.3	770.0	552.3	642.4	542.2	699.8	627.3	553.4	553.8	602.1	553.8	548.0	553.8
2018	561.9	598.8	441.8	498.6	432.0	541.5	470.1	443.2	443.8	484.3	443.8	409.9	443.8
2019	553.1	596.3	478.7	516.8	469.1	547.3	492.6	479.8	480.0	504.3	480.0	390.3	480.0
2020	586.9	603.8	488.2	533.7	477.9	551.0	515.7	489.6	490.0	530.2	490.0	412.8	490.0
Húmido	530.9	527.5	441.8	479.9	432.0	496.0	454.6	443.2	443.8	473.0	443.8	390.3	443.8
Medio	579.5	596.3	494.8	527.9	484.4	551.8	517.6	495.9	496.3	528.3	496.3	423.1	496.3
Seco	635.8	640.0	552.3	603.7	542.2	593.5	576.8	553.4	553.8	594.3	553.8	533.0	553.8

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### 6.5 COUVE

Tabela 79. Necessidades hídricas totais anuais da couve (mm)

Ano	Estuário	Sado	Oeste	Vila Franca de Xira	Sorraia	Almourol	Castelo de Bode	Castelo de Bode 2	Belver	Pracana	Fratel	Lis	Cedilho
2003	76.2	79.0	59.7	67.7	54.0	60.6	62.2	60.1	60.2	64.9	60.2	63.4	60.2
2004	103.3	90.8	55.7	59.4	50.0	62.0	58.3	56.5	56.6	67.8	56.6	38.0	56.6
2005	112.0	109.7	86.1	99.3	79.9	84.9	89.1	87.0	87.3	95.9	87.3	91.9	87.3
2006	53.7	49.6	39.3	39.1	34.2	30.3	31.8	39.8	40.1	39.9	40.1	28.3	40.1
2007	148.8	112.1	142.2	132.9	134.3	75.9	117.0	142.2	141.6	134.2	141.6	144.5	141.6
2008	116.7	86.1	62.6	89.8	55.2	131.9	87.2	63.5	63.7	74.6	63.7	47.7	63.7
2009	114.0	101.5	108.8	89.2	102.0	71.4	83.4	109.6	109.7	107.7	109.7	70.7	109.7
2010	88.2	67.2	71.7	75.8	66.7	64.9	68.4	72.3	72.0	72.3	72.0	63.7	72.0
2011	144.2	142.8	148.9	117.1	142.0	88.0	116.7	149.7	149.8	146.3	149.8	118.2	149.8
2012	74.6	87.3	59.0	63.6	54.5	65.5	59.9	59.8	60.2	64.0	60.2	59.2	60.2
2013	107.4	84.9	64.1	64.8	60.2	62.2	60.8	64.7	64.9	70.3	64.9	48.0	64.9
2014	17.1	5.9	5.1	6.2	3.9	3.9	5.1	5.7	5.9	6.3	5.9	2.9	5.9
2015	80.9	92.0	45.5	42.3	40.6	45.2	37.4	45.8	46.0	44.9	46.0	18.3	46.0
2016	107.2	118.0	81.2	93.2	74.8	83.8	86.9	82.3	82.6	88.5	82.6	92.0	82.6
2017	171.1	217.1	109.5	142.9	103.7	152.0	136.6	110.5	110.9	125.6	110.9	117.9	110.9
2018	127.8	129.8	107.5	116.9	100.2	102.6	106.8	108.4	108.5	111.3	108.5	115.3	108.5
2019	100.0	95.6	85.5	93.2	79.0	91.5	86.7	86.8	87.3	93.2	87.3	53.3	87.3
2020	90.3	83.8	58.7	65.7	52.5	48.2	50.3	59.3	59.0	64.3	59.0	46.0	59.0
Húmido	74.6	79.0	55.7	57.6	48.9	48.2	49.6	56.5	56.6	60.8	56.6	37.6	56.6
Medio	106.4	92.0	71.7	89.2	66.1	71.4	72.0	72.3	72.0	79.3	72.0	63.1	72.0
Seco	141.0	129.8	109.5	118.9	103.7	102.6	107.8	110.5	110.9	113.6	110.9	116.1	110.9

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### 6.6 ERVILHA

Tabela 80. Necessidades hídricas totais anuais da ervilha (mm)

Ano	Estuário	Sado	Oeste	Vila Franca de Xira	Sorraia	Almourol	Castelo de Bode	Castelo de Bode 2	Belver	Pracana	Fratel	Lis	Cedilho
2003	13.1	0.0	0.0	3.2	2.2	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0
2004	65.9	56.3	44.0	33.4	16.1	3.0	14.0	37.6	38.4	30.9	38.4	6.7	38.4
2005	153.1	151.1	78.2	95.9	61.3	79.9	70.1	69.6	69.1	71.6	69.1	42.5	69.1
2006	17.7	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2007	108.3	112.7	70.0	48.9	30.0	4.7	24.1	56.7	57.6	48.3	57.6	7.4	57.6
2008	48.7	33.3	2.0	7.8	4.0	0.5	1.9	1.0	0.0	6.7	0.0	2.1	0.0
2009	154.4	139.6	144.5	118.5	113.1	74.7	106.0	140.0	140.9	136.6	140.9	93.0	140.9
2010	38.4	9.0	4.8	8.5	3.4	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0
2011	89.6	64.0	77.2	54.0	45.4	19.8	41.0	70.8	71.7	59.8	71.7	23.1	71.7
2012	150.1	124.2	148.9	132.0	125.2	133.5	140.5	136.8	137.0	151.9	137.0	152.6	137.0
2013	20.0	12.8	6.9	5.2	2.8	0.0	0.2	0.6	0.0	0.0	0.0	3.2	0.0
2014	31.2	0.0	0.0	5.9	3.5	0.0	0.8	1.3	0.0	0.0	0.0	0.0	0.0
2015	84.0	89.6	75.7	62.9	38.0	80.2	71.9	64.7	65.3	73.2	65.3	66.3	65.3
2016	11.5	6.4	0.0	1.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2017	108.6	128.0	62.8	66.2	27.1	33.2	43.7	52.8	52.5	52.9	52.5	44.6	52.5
2018	20.5	7.7	0.0	4.1	0.0	3.8	0.6	0.0	0.0	2.4	0.0	0.0	0.0
2019	75.8	87.1	42.3	31.6	20.6	5.7	27.7	44.2	44.8	43.5	44.8	10.8	44.8
2020	62.6	42.3	17.0	14.9	9.0	2.8	7.7	20.6	20.5	15.4	20.5	0.0	20.5
Húmido	17.7	6.4	0.0	3.3	2.2	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0
Medio	68.8	56.3	40.7	31.6	16.1	3.0	14.0	37.6	38.4	34.0	38.4	6.7	38.4
Seco	144.4	128.0	81.7	97.2	62.8	78.9	76.5	72.3	71.7	78.0	71.7	66.3	71.7

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### 6.7 PIMENTO

Tabela 81. Necessidades hídricas totais anuais do pimento (mm)

Ano	Estuário	Sado	Oeste	Vila Franca de Xira	Sorraia	Almourol	Castelo de Bode	Castelo de Bode 2	Belver	Pracana	Fratel	Lis	Cedilho
2003	561.6	495.8	410.7	517.9	455.3	551.9	493.1	465.0	464.3	497.0	464.3	335.0	464.3
2004	618.6	536.7	475.1	534.5	503.2	538.5	475.9	510.7	511.0	520.7	511.0	341.7	511.0
2005	615.1	492.3	489.9	582.3	542.8	580.6	557.8	549.4	549.5	582.5	549.5	426.9	549.5
2006	563.3	470.2	388.2	498.6	446.1	517.7	496.8	451.2	450.3	505.5	450.3	343.7	450.3
2007	528.3	361.7	385.2	444.0	453.1	475.7	414.6	459.4	459.7	458.3	459.7	149.5	459.7
2008	504.0	341.8	344.6	430.3	405.9	423.2	420.9	434.5	435.2	448.6	435.2	245.6	435.2
2009	534.6	430.5	340.1	446.0	398.7	449.9	398.7	403.4	403.7	417.1	403.7	242.3	403.7
2010	558.8	406.0	417.1	521.5	459.2	542.1	506.0	487.9	488.8	509.8	488.8	354.1	488.8
2011	506.6	418.8	430.4	470.6	473.5	515.9	473.7	494.8	494.7	496.1	494.7	341.0	494.7
2012	537.1	452.7	395.6	477.6	440.2	508.0	468.5	456.9	457.3	479.2	457.3	299.1	457.3
2013	618.5	516.8	468.9	569.5	531.7	596.3	555.6	538.7	539.0	569.3	539.0	397.7	539.0
2014	508.9	429.3	352.6	469.9	400.4	545.6	469.1	406.2	406.0	446.3	406.0	319.8	406.0
2015	587.2	572.8	430.4	546.1	473.1	637.6	536.3	478.3	477.2	512.3	477.2	399.4	477.2
2016	550.1	490.0	380.6	499.5	426.8	520.5	486.1	454.2	455.0	490.0	455.0	279.2	455.0
2017	600.3	539.0	421.6	550.7	473.5	608.6	518.9	483.8	483.0	513.9	483.0	350.1	483.0
2018	450.1	376.8	250.7	352.4	309.0	411.0	322.7	314.9	315.0	348.8	315.0	140.0	315.0
2019	508.4	505.2	368.8	450.0	398.3	482.1	427.5	410.7	410.7	441.9	410.7	280.7	410.7
2020	529.9	448.0	393.4	481.9	434.3	501.1	475.8	452.4	452.7	480.7	452.7	328.2	452.7
Húmido	511.7	406.0	352.7	448.6	400.6	475.7	413.6	411.0	410.7	430.2	410.7	245.6	410.7
Medio	553.0	470.2	396.5	492.8	450.3	522.8	482.5	460.1	459.7	486.1	459.7	335.4	459.7
Seco	615.1	536.7	461.9	550.7	505.7	596.3	546.0	510.7	511.0	548.3	511.0	393.7	511.0

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### 6.8 AMÊNDOA

Tabela 82. Necessidades hídricas totais anuais da amêndoa (mm)

Ano	Estuário	Sado	Oeste	Vila Franca de Xira	Sorraia	Almourol	Castelo de Bode	Castelo de Bode 2	Belver	Pracana	Fratel	Lis	Cedilho
2003	702.7	729.2	592.4	649.3	566.7	639.0	609.4	595.4	596.2	628.6	596.2	544.4	596.2
2004	820.2	795.7	659.2	678.5	634.2	661.0	605.6	662.0	662.7	677.9	662.7	421.3	662.7
2005	905.5	861.0	751.3	826.0	741.2	802.3	762.8	752.6	752.5	794.5	752.5	685.0	752.5
2006	736.2	714.0	592.4	645.2	567.0	631.8	627.3	595.4	596.2	650.5	596.2	552.4	596.2
2007	749.0	631.2	657.8	628.3	632.8	596.8	567.3	660.7	661.5	644.1	661.5	401.2	661.5
2008	664.2	583.3	516.6	545.2	493.8	591.0	534.8	519.5	520.3	546.9	520.3	437.6	520.3
2009	824.8	777.0	671.8	687.8	646.4	650.4	626.6	674.7	675.5	686.9	675.5	510.4	675.5
2010	747.8	675.5	640.0	706.5	615.4	703.0	675.6	643.1	644.0	674.1	644.0	643.5	644.0
2011	722.5	712.8	700.1	642.8	675.5	668.8	631.6	701.8	701.2	696.6	701.2	560.1	701.2
2012	766.0	739.7	656.6	690.4	646.3	715.3	664.5	657.7	658.0	692.5	658.0	525.6	658.0
2013	801.5	777.0	689.3	724.7	664.3	739.1	701.2	692.2	693.0	731.0	693.0	614.3	693.0
2014	618.7	606.7	487.4	555.5	462.0	627.1	554.2	490.4	491.2	536.4	491.2	459.1	491.2
2015	771.5	837.7	621.9	687.9	597.1	810.6	687.2	624.7	625.3	667.7	625.3	554.9	625.3
2016	731.7	802.7	600.6	670.5	575.7	693.6	652.3	603.5	604.3	652.8	604.3	541.9	604.3
2017	858.4	938.0	681.1	783.0	656.2	845.4	734.9	684.0	684.8	730.5	684.8	625.9	684.8
2018	645.2	687.2	482.5	529.1	457.4	567.2	489.0	485.6	486.5	528.6	486.5	403.3	486.5
2019	737.6	816.7	602.9	654.2	579.2	679.3	620.6	605.9	606.7	638.8	606.7	483.6	606.7
2020	687.8	705.8	571.4	617.8	546.0	631.1	598.6	574.4	575.2	615.2	575.2	509.3	575.2
Húmido	687.8	675.5	571.4	617.8	546.0	627.1	579.3	574.4	575.2	599.4	575.2	437.6	575.2
Medio	748.0	739.7	640.0	670.5	615.4	668.8	631.8	643.1	644.0	666.8	644.0	541.9	644.0
Seco	824.8	837.7	689.3	724.7	664.3	802.0	707.5	692.2	693.0	731.0	693.0	625.9	693.0



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### 6.9 LARANJA

Tabela 83. Necessidades hídricas totais anuais da laranja (mm)

Ano	Estuário	Sado	Oeste	Vila Franca de Xira	Sorraia	Almourol	Castelo de Bode	Castelo de Bode 2	Belver	Pracana	Fratel	Lis	Cedilho
2003	430.7	438.7	345.5	381.1	314.0	356.5	346.1	349.1	350.0	368.1	350.0	292.8	350.0
2004	535.6	502.8	400.3	405.0	368.8	379.5	339.1	404.0	404.8	407.6	404.8	178.5	404.8
2005	656.8	604.3	518.7	573.3	500.8	541.7	516.4	520.9	521.5	547.8	521.5	404.7	521.5
2006	450.6	423.5	331.8	360.1	300.2	330.5	341.3	335.1	336.0	370.8	336.0	274.3	336.0
2007	504.2	389.7	411.6	383.2	380.4	317.7	321.4	415.4	416.5	386.5	416.5	205.9	416.5
2008	396.9	322.0	286.7	305.2	255.5	341.3	298.6	290.6	291.7	308.9	291.7	216.4	291.7
2009	569.6	522.7	438.4	435.9	407.2	386.1	379.3	442.2	443.3	443.5	443.3	266.0	443.3
2010	458.7	396.7	374.2	413.2	343.1	396.8	386.1	378.1	379.2	392.7	379.2	348.3	379.2
2011	445.7	443.3	436.0	371.0	407.4	382.1	360.7	439.9	441.0	427.1	441.0	302.3	441.0
2012	524.9	500.5	438.3	448.9	421.5	452.9	418.3	440.4	441.0	459.2	441.0	296.7	441.0
2013	513.6	490.0	419.7	439.4	388.6	433.2	414.3	423.6	424.7	447.0	424.7	340.7	424.7
2014	356.2	343.0	245.4	294.7	213.9	334.3	286.8	248.8	249.7	279.8	249.7	203.4	249.7
2015	508.8	558.8	379.3	423.1	347.8	510.3	416.9	383.0	383.8	408.7	383.8	298.1	383.8
2016	447.0	491.2	350.9	391.6	319.8	386.1	375.8	354.7	355.8	386.0	355.8	287.0	355.8
2017	575.3	634.7	419.3	492.5	387.7	524.5	451.7	422.6	423.5	452.7	423.5	372.2	423.5
2018	401.6	424.7	262.6	288.9	231.2	296.7	249.6	266.3	267.2	290.3	267.2	186.1	267.2
2019	488.7	554.2	357.1	391.4	326.6	396.4	360.3	360.8	361.7	378.1	361.7	245.6	361.7
2020	432.1	430.5	326.4	356.0	295.2	345.7	334.1	330.2	331.3	355.7	331.3	261.3	331.3
Húmido	427.9	396.7	326.4	356.0	295.2	334.3	311.3	330.2	331.3	341.0	331.3	205.9	331.3
Medio	485.8	490.0	379.3	392.0	347.8	386.1	361.5	383.0	383.8	396.2	383.8	287.0	383.8
Seco	569.6	558.8	436.9	448.9	407.1	510.0	434.1	440.1	441.0	459.9	441.0	348.3	441.0

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### 6.10 MAÇÃ

Tabela 84. Necessidades hídricas totais anuais da maçã (mm)

Ano	Estuário	Sado	Oeste	Vila Franca de Xira	Sorraia	Almourol	Castelo de Bode	Castelo de Bode 2	Belver	Pracana	Fratel	Lis	Cedilho
2003	328.0	333.7	257.1	285.4	225.6	257.7	255.0	260.5	261.3	276.0	261.3	210.0	261.3
2004	367.7	345.3	252.9	253.9	221.8	245.3	237.0	256.7	257.8	279.8	257.8	106.8	257.8
2005	401.0	371.0	324.1	346.6	292.9	306.9	316.2	327.9	329.0	352.7	329.0	290.5	329.0
2006	319.9	297.5	233.0	254.0	201.9	222.3	234.3	236.9	238.0	266.4	238.0	176.6	238.0
2007	305.9	228.7	254.5	231.8	223.0	221.6	215.1	258.1	259.0	253.5	259.0	159.3	259.0
2008	325.7	282.3	248.9	254.5	217.4	276.9	248.7	252.3	253.2	265.2	253.2	169.6	253.2
2009	335.1	309.2	248.2	248.1	217.0	223.4	216.0	252.1	253.2	253.9	253.2	148.8	253.2
2010	356.1	315.0	307.3	326.0	275.7	298.6	307.8	310.6	311.5	322.1	311.5	265.2	311.5
2011	346.7	366.3	341.9	280.8	310.7	246.5	271.7	345.4	346.5	334.9	346.5	225.8	346.5
2012	350.2	347.7	284.4	291.9	253.2	297.8	284.0	288.2	289.3	302.6	289.3	196.0	289.3
2013	375.8	357.0	300.0	311.7	268.5	304.4	291.0	303.6	304.5	322.4	304.5	226.7	304.5
2014	231.2	233.3	154.9	182.2	123.7	200.6	179.7	158.7	159.8	178.3	159.8	140.6	159.8
2015	352.6	396.7	267.3	289.5	235.8	319.6	281.2	271.0	271.8	287.1	271.8	220.5	271.8
2016	375.9	413.0	289.5	326.2	258.0	315.7	311.5	293.1	294.0	321.2	294.0	243.8	294.0
2017	398.0	445.7	303.8	352.5	272.2	357.7	330.5	307.1	308.0	331.7	308.0	266.4	308.0
2018	302.4	323.2	201.5	222.5	170.4	230.9	208.5	205.4	206.5	227.0	206.5	169.8	206.5
2019	337.4	365.2	259.9	284.2	228.8	284.5	255.4	263.7	264.8	275.7	264.8	170.9	264.8
2020	350.1	354.7	260.3	286.0	228.8	280.3	274.1	264.0	264.8	286.0	264.8	209.4	264.8
Húmido	319.9	297.5	248.2	248.1	217.0	223.4	222.5	252.1	253.2	262.0	253.2	159.3	253.2
Medio	350.1	347.7	260.3	285.4	228.8	280.3	256.1	264.0	264.8	284.2	264.8	209.4	264.8
Seco	375.9	396.7	307.3	326.2	275.7	315.7	310.9	310.6	311.5	334.3	311.5	265.2	311.5

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

## ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

### 6.11 Noz

Tabela 85. Necessidades hídricas totais anuais da noz (mm)

Ano	Estuário	Sado	Oeste	Vila Franca de Xira	Sorraia	Almourol	Castelo de Bode	Castelo de Bode 2	Belver	Pracana	Fratel	Lis	Cedilho
2003	666.4	333.7	331.5	608.0	522.8	589.1	566.5	558.0	558.8	589.0	558.8	210.0	558.8
2004	787.7	345.3	341.3	628.5	575.6	614.0	559.5	610.5	611.3	629.2	611.3	106.8	611.3
2005	818.7	371.0	416.5	745.1	662.8	701.0	697.6	698.0	698.8	742.7	698.8	290.5	698.8
2006	679.0	297.5	311.2	594.6	514.9	573.2	574.8	549.8	550.7	601.8	550.7	176.6	550.7
2007	728.2	228.7	351.0	605.1	609.2	560.4	560.6	644.3	645.2	625.4	645.2	159.3	645.2
2008	655.9	282.3	310.8	536.2	464.6	579.5	519.7	499.4	500.5	529.4	500.5	169.6	500.5
2009	755.1	309.2	334.5	614.4	562.5	582.1	557.1	597.6	598.5	611.2	598.5	148.8	598.5
2010	709.6	315.0	381.1	664.0	570.9	650.5	630.8	605.7	606.7	633.9	606.7	265.2	606.7
2011	694.4	366.3	429.4	616.2	660.6	619.8	617.0	695.4	696.5	689.9	696.5	225.8	696.5
2012	669.2	347.7	355.0	601.6	535.9	635.7	585.8	570.8	571.7	602.1	571.7	196.0	571.7
2013	752.7	357.0	385.4	672.8	610.3	680.0	649.2	645.2	646.3	681.5	646.3	226.7	646.3
2014	561.4	233.3	223.4	493.1	398.2	554.5	489.8	433.1	434.0	475.8	434.0	140.6	434.0
2015	708.9	396.7	344.0	621.4	542.6	711.2	611.7	577.6	578.7	614.2	578.7	220.5	578.7
2016	704.9	413.0	361.2	642.5	544.9	656.0	622.2	579.9	581.0	626.9	581.0	243.8	581.0
2017	844.8	445.7	388.6	747.4	611.4	807.3	703.4	646.4	647.5	695.5	647.5	266.4	647.5
2018	634.9	323.2	267.5	510.6	434.2	534.2	466.4	469.3	470.2	508.5	470.2	169.8	470.2
2019	692.0	365.2	339.8	626.1	548.4	643.9	592.1	583.4	584.5	614.4	584.5	170.9	584.5
2020	672.5	354.7	333.5	595.8	521.3	599.2	572.0	556.6	557.7	595.7	557.7	209.4	557.7
Húmido	666.4	297.5	322.6	594.6	514.9	573.2	534.7	549.8	550.7	568.9	550.7	159.3	550.7
Medio	704.9	347.7	340.2	616.2	548.4	619.8	584.9	583.4	584.5	614.4	584.5	209.4	584.5
Seco	787.7	396.7	391.3	672.8	611.4	700.7	649.5	646.4	647.5	682.3	647.5	265.2	647.5

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ANEXO 8 – Necessidades Hídricas das Culturas

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### 6.12 OLIVAL

Tabela 86. Necessidades hídricas totais anuais do olival (mm)

Ano	Estuário	Sado	Oeste	Vila Franca de Xira	Sorraia	Almourol	Castelo de Bode	Castelo de Bode 2	Belver	Pracana	Fratel	Lis	Cedilho
2003	203.2	365.2	252.6	162.9	114.4	132.5	136.0	149.4	150.5	157.6	150.5	242.2	150.5
2004	263.9	385.0	253.2	147.8	123.8	125.5	109.4	158.7	159.8	165.2	159.8	122.0	159.8
2005	332.6	395.5	331.3	264.7	218.5	239.4	219.7	237.6	238.0	249.0	238.0	305.2	238.0
2006	197.4	334.8	232.2	128.0	87.7	91.3	111.0	122.8	123.7	142.5	123.7	219.5	123.7
2007	204.3	240.3	224.1	103.4	94.5	82.0	80.4	129.6	130.7	116.7	130.7	122.0	130.7
2008	172.9	280.0	213.6	108.7	77.0	133.3	104.4	112.1	113.2	119.1	113.2	176.8	113.2
2009	266.5	338.3	222.9	152.4	125.2	106.5	100.9	160.1	161.0	150.6	161.0	170.9	161.0
2010	213.7	327.8	281.5	171.1	133.2	148.0	155.5	168.3	169.2	170.5	169.2	279.0	169.2
2011	195.1	354.7	295.8	135.5	168.4	109.2	125.2	203.3	204.2	185.9	204.2	214.1	204.2
2012	230.7	359.3	260.5	163.8	135.7	152.9	141.7	153.5	152.8	165.1	152.8	210.1	152.8
2013	262.7	397.8	302.5	195.6	160.0	179.1	172.7	195.1	196.0	205.7	196.0	266.6	196.0
2014	135.6	278.8	149.7	80.1	21.1	98.4	68.5	49.2	50.2	68.0	50.2	164.6	50.2
2015	223.0	428.2	257.3	159.4	115.9	202.8	148.8	150.8	151.7	157.3	151.7	262.6	151.7
2016	212.6	411.8	257.3	165.3	115.9	141.5	152.6	150.8	151.7	167.5	151.7	240.5	151.7
2017	290.7	441.0	276.2	222.4	145.5	224.2	184.3	180.0	180.8	192.3	180.8	272.4	180.8
2018	182.1	333.7	168.0	94.7	54.9	81.2	80.6	89.9	91.0	97.8	91.0	153.0	91.0
2019	213.6	392.0	244.8	165.3	112.2	159.0	137.9	147.3	148.2	151.8	148.2	202.0	148.2
2020	198.5	353.5	241.9	140.7	95.8	125.5	129.8	130.7	131.8	142.4	131.8	232.3	131.8
Húmido	195.1	327.8	216.2	108.7	87.7	98.4	90.6	122.8	123.7	123.1	123.7	164.6	123.7
Medio	212.8	359.3	252.9	157.4	115.9	133.3	136.4	150.8	151.7	157.3	151.7	219.5	151.7
Seco	266.5	411.8	293.8	195.6	160.0	202.8	172.7	195.1	196.0	203.7	196.0	272.4	196.0

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### 6.13 OLIVAL INTENSIVO

Tabela 87. Necessidades hídricas totais anuais do olival intensivo (mm)

Ano	Estuário	Sado	Oeste	Vila Franca de Xira	Sorraia	Almourol	Castelo de Bode	Castelo de Bode 2	Belver	Pracana	Fratel	Lis	Cedilho
2003	286.1	687.2	470.3	242.3	186.8	213.9	211.8	222.0	222.8	233.7	222.8	502.8	222.8
2004	370.0	759.5	518.7	251.0	222.1	224.4	193.7	257.0	257.8	259.1	257.8	378.6	257.8
2005	459.6	773.5	606.8	384.7	328.3	357.0	334.6	348.3	348.8	364.4	348.8	644.4	348.8
2006	294.1	670.8	458.6	210.7	163.5	176.1	192.6	198.6	199.5	223.8	199.5	498.8	199.5
2007	330.4	600.8	542.4	221.8	215.4	160.2	166.8	250.9	252.0	222.1	252.0	416.5	252.0
2008	246.4	562.3	414.2	181.6	138.9	212.2	175.5	173.9	175.0	185.9	175.0	424.7	175.0
2009	389.9	717.5	513.2	264.4	239.6	216.9	212.0	274.5	275.3	269.0	275.3	470.3	275.3
2010	302.4	635.8	511.7	258.6	207.8	238.4	236.1	243.0	243.8	248.9	243.8	596.6	243.8
2011	286.3	700.0	591.2	219.5	260.9	221.2	213.9	294.3	295.2	277.4	295.2	549.9	295.2
2012	338.2	686.0	489.9	270.0	241.8	266.0	240.7	260.6	261.3	274.9	261.3	460.6	261.3
2013	357.2	725.7	550.1	287.7	245.0	274.5	262.7	280.1	281.2	295.6	281.2	560.0	281.2
2014	216.1	547.2	351.6	157.1	85.6	182.7	146.9	120.5	121.3	143.6	121.3	393.8	121.3
2015	332.7	785.2	487.1	259.2	196.0	320.4	249.6	231.1	232.2	245.9	232.2	511.0	232.2
2016	297.7	780.5	487.4	248.1	190.3	229.3	233.3	225.2	226.3	247.1	226.3	511.6	226.3
2017	407.3	936.8	550.7	332.1	244.0	346.0	292.7	278.9	280.0	298.5	280.0	587.4	280.0
2018	266.2	673.2	385.7	162.8	114.4	159.3	137.7	149.4	150.5	163.4	150.5	378.6	150.5
2019	320.7	754.8	490.9	251.6	193.9	248.4	222.2	229.0	229.8	238.1	229.8	452.7	229.8
2020	281.3	687.2	463.2	217.7	164.9	199.0	199.3	199.8	200.7	217.1	200.7	462.4	200.7
Húmido	280.0	635.8	458.6	210.7	163.5	182.7	176.2	198.6	199.5	204.3	199.5	416.5	199.5
Medio	319.2	700.0	494.4	251.0	207.8	224.4	218.1	243.0	243.8	249.5	243.8	498.8	243.8
Seco	389.9	780.5	551.0	287.7	247.8	320.4	264.3	280.1	281.2	295.6	281.2	587.4	281.2

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### 6.14 OLIVAL SUPER INTENSIVO

Tabela 88. Necessidades hídricas totais anuais do olival super intensivo (mm)

Ano	Estuário	Sado	Oeste	Vila Franca de Xira	Sorraia	Almourol	Castelo de Bode	Castelo de Bode 2	Belver	Pracana	Fratel	Lis	Cedilho
2003	430.7	288.2	250.1	381.1	314.0	356.5	346.1	349.1	350.0	368.1	350.0	168.0	350.0
2004	535.6	341.8	290.4	405.0	368.8	379.5	339.1	404.0	404.8	407.6	404.8	52.5	404.8
2005	656.8	409.5	389.2	573.3	500.8	541.7	516.4	520.9	521.5	547.8	521.5	241.5	521.5
2006	450.6	266.0	229.1	360.1	300.2	330.5	341.3	335.1	336.0	370.8	336.0	131.8	336.0
2007	504.2	221.7	287.6	383.2	380.4	317.7	321.4	415.4	416.5	386.5	416.5	106.2	416.5
2008	396.9	201.8	199.2	305.2	255.5	341.3	298.6	290.6	291.7	308.9	291.7	100.7	291.7
2009	569.6	348.8	313.1	435.9	407.2	386.1	379.3	442.2	443.3	443.5	443.3	105.0	443.3
2010	458.7	248.5	273.1	413.2	343.1	396.8	386.1	378.1	379.2	392.7	379.2	195.4	379.2
2011	445.7	301.0	327.4	371.0	407.4	382.1	360.7	439.9	441.0	427.1	441.0	168.6	441.0
2012	524.9	310.3	303.0	448.9	421.5	452.9	418.3	440.4	441.0	459.2	441.0	130.6	441.0
2013	513.6	337.2	312.1	439.4	388.6	433.2	414.3	423.6	424.7	447.0	424.7	198.3	424.7
2014	356.2	201.8	149.2	294.7	213.9	334.3	286.8	248.8	249.7	279.8	249.7	71.8	249.7
2015	508.8	364.0	265.1	423.1	347.8	510.3	416.9	383.0	383.8	408.7	383.8	169.8	383.8
2016	447.0	325.5	253.8	391.6	319.8	386.1	375.8	354.7	355.8	386.0	355.8	159.8	355.8
2017	575.3	448.0	310.9	492.5	387.7	524.5	451.7	422.6	423.5	452.7	423.5	234.5	423.5
2018	401.6	278.8	174.7	288.9	231.2	296.7	249.6	266.3	267.2	290.3	267.2	103.1	267.2
2019	488.7	362.8	258.3	391.4	326.6	396.4	360.3	360.8	361.7	378.1	361.7	124.8	361.7
2020	432.1	282.3	229.1	356.0	295.2	345.7	334.1	330.2	331.3	355.7	331.3	138.8	331.3
Húmido	427.9	248.5	227.9	356.0	295.2	334.3	311.3	330.2	331.3	341.0	331.3	103.1	331.3
Medio	485.8	310.3	274.3	392.0	347.8	386.1	361.5	383.0	383.8	396.2	383.8	142.0	383.8
Seco	569.6	364.0	316.8	448.9	407.1	510.0	434.1	440.1	441.0	459.9	441.0	198.3	441.0

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### 6.15 VINHA DE QUANTIDADE

Tabela 89. Necessidades hídricas totais anuais da vinha de quantidade (mm)

Ano	Estuário	Sado	Oeste	Vila Franca de Xira	Sorraia	Almourol	Castelo de Bode	Castelo de Bode 2	Belver	Pracana	Fratel	Lis	Cedilho
2003	131.0	438.7	280.7	91.6	62.3	74.4	75.5	90.2	91.0	94.6	91.0	292.8	91.0
2004	174.2	502.8	332.4	134.9	104.7	112.9	118.9	132.4	133.0	139.5	133.0	178.5	133.0
2005	164.5	604.3	421.0	136.8	101.5	114.3	125.0	129.8	130.7	140.1	130.7	404.7	130.7
2006	98.0	423.5	260.0	49.0	21.3	16.1	39.7	48.1	49.0	66.9	49.0	274.3	49.0
2007	104.0	389.7	323.2	40.3	33.9	38.0	33.3	62.1	63.0	58.4	63.0	205.9	63.0
2008	160.2	322.0	246.2	119.6	100.4	101.8	111.2	128.6	129.5	132.2	129.5	216.4	129.5
2009	98.0	522.7	340.4	44.6	23.1	25.9	27.5	50.7	51.3	52.0	51.3	266.0	51.3
2010	135.3	396.7	306.0	102.9	77.9	81.9	91.5	105.5	106.2	106.0	106.2	348.3	106.2
2011	155.5	443.3	358.5	122.1	102.4	105.6	109.5	130.0	130.7	126.1	130.7	302.3	130.7
2012	154.4	500.5	357.0	116.1	87.2	104.7	104.6	114.9	115.5	118.5	115.5	296.7	115.5
2013	141.6	490.0	338.3	101.8	70.9	90.9	93.6	98.5	99.2	108.6	99.2	340.7	99.2
2014	96.0	343.0	197.0	66.6	27.0	64.9	60.1	55.2	56.0	62.8	56.0	203.4	56.0
2015	134.5	558.8	307.6	106.9	68.1	111.5	100.8	96.0	96.8	104.2	96.8	298.1	96.8
2016	149.3	491.2	290.2	122.8	84.4	112.6	110.4	112.4	113.2	122.6	113.2	287.0	113.2
2017	154.0	634.7	341.4	123.3	83.7	120.4	106.3	111.4	112.0	116.4	112.0	372.2	112.0
2018	74.8	424.7	197.6	15.2	5.5	20.3	4.9	8.6	7.0	14.9	7.0	186.1	7.0
2019	107.5	554.2	284.5	71.8	42.0	62.5	59.5	70.3	71.2	78.0	71.2	245.6	71.2
2020	144.8	430.5	272.4	115.0	86.8	98.9	106.4	114.7	115.5	121.7	115.5	261.3	115.5
Húmido	98.0	396.7	257.5	49.0	27.0	38.0	41.8	55.2	56.0	62.8	56.0	205.9	56.0
Medio	141.6	490.0	309.9	106.9	77.9	98.9	101.8	105.5	106.2	111.2	106.2	287.0	106.2
Seco	160.2	558.8	359.3	123.3	101.5	112.9	115.7	129.8	130.7	135.7	130.7	348.3	130.7

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### 6.16 VINHA DE QUALIDADE

Tabela 90. Necessidades hídricas totais anuais da vinha de qualidade (mm)

Ano	Estuário	Sado	Oeste	Vila Franca de Xira	Sorraia	Almourol	Castelo de Bode	Castelo de Bode 2	Belver	Pracana	Fratel	Lis	Cedilho
2003	79.7	365.2	226.4	42.6	19.6	24.4	29.2	46.4	45.5	46.4	45.5	242.2	45.5
2004	113.3	385.0	233.1	77.6	50.6	54.0	63.6	80.3	79.3	82.6	79.3	122.0	79.3
2005	106.2	395.5	291.1	79.5	48.7	55.5	68.1	78.2	77.0	82.7	77.0	305.2	77.0
2006	48.3	334.8	204.2	17.8	6.3	1.4	6.4	14.1	11.7	23.5	11.7	219.5	11.7
2007	52.0	240.3	195.5	12.4	7.8	3.0	7.1	18.8	16.3	14.6	16.3	122.0	16.3
2008	102.7	280.0	204.3	64.8	46.7	44.9	55.9	76.8	75.8	76.2	75.8	176.8	75.8
2009	47.4	338.3	185.0	9.9	5.9	0.7	3.4	11.9	9.3	7.5	9.3	170.9	9.3
2010	79.7	327.8	253.2	48.5	27.3	26.0	38.3	56.9	56.0	53.4	56.0	279.0	56.0
2011	99.3	354.7	264.0	67.9	48.7	48.7	55.1	78.2	77.0	72.2	77.0	214.1	77.0
2012	98.0	359.3	238.6	62.5	36.6	48.0	52.0	66.3	65.3	66.0	65.3	210.1	65.3
2013	87.6	397.8	266.1	49.3	22.4	36.1	41.1	51.1	50.2	56.4	50.2	266.6	50.2
2014	46.4	278.8	139.5	21.2	6.0	11.4	13.1	11.9	9.3	13.5	9.3	164.6	9.3
2015	79.5	428.2	231.7	53.3	21.3	50.6	46.3	49.9	49.0	52.3	49.0	262.6	49.0
2016	91.0	411.8	234.9	66.1	33.1	50.9	54.5	62.8	61.8	68.0	61.8	240.5	61.8
2017	97.2	441.0	246.8	67.9	33.9	57.4	51.7	63.9	63.0	63.4	63.0	272.4	63.0
2018	36.9	333.7	145.3	4.0	1.7	0.5	0.2	0.0	0.0	0.0	0.0	153.0	0.0
2019	60.0	392.0	214.7	28.9	12.3	15.1	18.1	29.9	28.0	32.1	28.0	202.0	28.0
2020	90.2	353.5	225.3	62.0	36.2	42.6	53.6	66.3	65.3	68.6	65.3	232.3	65.3
Húmido	48.3	327.8	188.2	17.8	6.3	3.0	6.4	14.1	11.7	15.3	11.7	164.6	11.7
Medio	87.6	359.3	229.0	53.3	27.3	42.6	48.4	56.9	56.0	57.5	56.0	219.5	56.0
Seco	102.7	411.8	264.0	67.9	48.7	54.0	59.1	78.2	77.0	79.4	77.0	272.4	77.0



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### 6.17 MILHO

Tabela 91. Necessidades hídricas totais anuais do milho (mm)

Ano	Estuário	Sado	Oeste	Vila Franca de Xira	Sorraia	Almourol	Castelo de Bode	Castelo de Bode 2	Belver	Pracana	Fratel	Lis	Cedilho
2003	503.1	576.9	441.8	429.9	367.9	429.1	391.8	396.1	398.0	424.2	398.0	404.5	398.0
2004	596.2	556.1	437.5	454.3	424.7	421.3	377.1	442.1	443.3	448.8	443.3	211.3	443.3
2005	620.5	565.2	524.4	555.4	514.3	514.5	514.2	532.8	534.1	562.3	534.1	481.0	534.1
2006	578.0	539.3	435.6	458.3	403.5	439.5	432.0	420.1	420.0	466.3	420.0	390.3	420.0
2007	523.6	420.0	435.3	405.1	417.8	384.7	359.0	433.3	434.3	428.8	434.3	228.9	434.3
2008	475.9	429.1	382.4	373.4	357.2	350.7	352.8	384.7	386.3	398.0	386.3	283.4	386.3
2009	555.1	531.5	412.6	423.4	372.9	392.2	356.3	389.2	390.2	401.2	390.2	331.8	390.2
2010	558.2	517.2	471.9	494.3	437.9	465.4	465.3	466.1	468.0	489.4	468.0	477.0	468.0
2011	461.7	519.8	475.4	378.4	409.5	414.8	373.1	434.8	435.6	425.3	435.6	321.3	435.6
2012	556.4	545.7	455.0	460.3	425.7	454.4	440.8	452.2	453.7	472.9	453.7	343.5	453.7
2013	614.3	589.8	515.2	534.7	497.5	526.0	504.1	515.9	517.2	545.1	517.2	440.5	517.2
2014	456.6	438.1	316.0	374.0	305.9	404.2	355.8	321.5	322.8	357.5	322.8	280.0	322.8
2015	569.6	645.6	450.0	496.0	421.5	570.4	483.0	437.2	436.9	469.3	436.9	361.6	436.9
2016	557.5	606.7	421.5	482.3	408.8	473.5	460.0	436.5	438.1	477.4	438.1	348.9	438.1
2017	622.1	623.5	435.7	534.8	445.2	573.7	485.4	461.6	462.8	496.2	462.8	359.5	462.8
2018	420.8	534.1	318.0	278.3	226.6	288.2	246.2	254.9	256.7	286.2	256.7	256.6	256.7
2019	512.0	588.5	421.0	416.4	363.5	405.5	377.4	391.2	392.8	410.0	392.8	325.3	392.8
2020	544.6	518.5	418.7	463.5	406.8	449.3	444.6	435.0	436.9	467.4	436.9	339.9	436.9
Húmido	480.9	517.2	402.7	381.1	362.6	392.2	356.8	388.2	390.2	400.4	390.2	278.1	390.2
Medio	555.6	545.7	435.9	455.6	411.9	438.6	432.6	435.6	436.9	460.3	436.9	341.5	436.9
Seco	614.3	606.7	483.6	534.1	448.7	526.0	489.7	468.2	468.0	502.3	468.0	440.5	468.0

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### 6.18 GIRASSOL

Tabela 92. Necessidades hídricas totais anuais do girassol (mm)

Ano	Estuário	Sado	Oeste	Vila Franca de Xira	Sorraia	Almourol	Castelo de Bode	Castelo de Bode 2	Belver	Pracana	Fratel	Lis	Cedilho
2003	572.1	710.4	547.2	525.3	449.8	508.0	489.2	478.7	479.6	508.0	479.6	534.6	479.6
2004	601.9	740.2	569.5	483.9	445.9	487.1	439.4	474.8	475.7	489.9	475.7	379.1	475.7
2005	649.8	755.7	659.6	598.3	526.2	564.3	564.5	555.5	556.1	599.3	556.1	653.6	556.1
2006	582.4	702.6	541.6	517.5	444.6	498.1	494.7	473.8	474.4	522.9	474.4	521.2	474.4
2007	558.6	569.1	570.9	473.6	470.5	494.3	443.6	499.7	500.4	499.9	500.4	357.3	500.4
2008	524.9	567.8	496.9	422.7	369.2	427.5	406.2	419.7	421.3	437.2	421.3	442.1	421.3
2009	591.5	679.3	534.1	507.3	452.4	500.1	466.9	481.6	482.2	496.4	482.2	457.8	482.2
2010	634.7	636.5	608.2	613.6	543.9	597.3	594.2	573.3	574.3	601.9	574.3	607.1	574.3
2011	517.6	648.1	580.8	449.4	485.6	450.2	451.5	515.0	515.9	511.5	515.9	466.2	515.9
2012	634.8	690.9	590.8	575.9	523.7	601.2	566.2	552.8	553.5	581.5	553.5	498.0	553.5
2013	627.8	783.0	664.3	568.5	515.9	581.8	553.9	545.1	545.7	582.1	545.7	642.2	545.7
2014	445.0	583.3	430.8	393.1	307.6	448.2	390.1	336.4	337.0	374.8	337.0	450.1	337.0
2015	602.3	808.9	562.9	543.6	470.5	618.1	543.3	499.7	500.4	533.2	500.4	533.8	500.4
2016	648.5	770.0	564.0	596.7	504.2	615.5	582.2	533.2	534.1	581.5	534.1	516.1	534.1
2017	645.9	824.4	585.0	599.3	499.8	635.5	573.7	529.2	530.2	570.6	530.2	550.8	530.2
2018	504.6	657.2	429.5	403.5	333.3	439.2	368.8	362.1	363.0	398.1	363.0	389.1	363.0
2019	573.4	748.0	531.7	516.2	454.9	533.8	489.3	484.1	484.8	508.3	484.8	451.3	484.8
2020	609.6	676.7	551.6	568.1	493.8	580.6	551.8	523.1	523.7	559.2	523.7	512.1	523.7
Húmido	526.9	636.5	527.6	450.2	444.6	450.2	436.0	473.8	474.4	480.4	474.4	439.3	474.4
Medio	601.9	702.6	562.6	525.3	470.5	533.8	502.4	499.7	500.4	533.2	500.4	512.1	500.4
Seco	645.9	783.0	603.9	598.3	523.7	615.5	580.7	552.8	553.5	588.1	553.5	607.1	553.5

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### 6.19 SORGO

Tabela 93. Necessidades hídricas totais anuais do sorgo (mm)

Ano	Estuário	Sado	Oeste	Vila Franca de Xira	Sorraia	Almourol	Castelo de Bode	Castelo de Bode 2	Belver	Pracana	Fratel	Lis	Cedilho
2003	451.4	593.7	437.5	370.2	271.2	359.4	330.8	325.1	326.7	354.3	326.7	435.1	326.7
2004	512.3	587.2	446.0	377.0	316.5	330.8	299.0	370.7	372.0	368.9	372.0	289.9	372.0
2005	518.8	632.6	521.6	448.1	376.0	394.4	409.4	430.1	431.7	459.3	431.7	537.4	431.7
2006	457.9	566.5	430.2	337.4	255.7	323.1	324.3	309.6	311.1	357.6	311.1	435.1	311.1
2007	425.3	473.1	455.2	296.6	278.8	285.1	253.2	332.9	334.4	324.3	334.4	285.9	334.4
2008	383.2	455.0	382.4	265.7	204.1	206.5	243.2	289.2	291.7	297.4	291.7	338.5	291.7
2009	433.4	562.6	427.0	297.7	219.4	256.4	234.8	274.6	276.1	279.2	276.1	390.9	276.1
2010	441.4	584.6	510.1	367.8	253.8	352.4	337.3	332.1	334.4	347.0	334.4	550.4	334.4
2011	372.6	558.7	466.3	293.8	261.3	314.8	275.7	333.0	334.4	325.3	334.4	365.0	334.4
2012	433.2	624.8	490.8	324.5	265.9	286.9	282.9	317.6	317.6	326.0	317.6	447.2	317.6
2013	524.0	609.3	511.9	437.7	369.5	418.2	411.1	423.6	425.2	449.0	425.2	484.3	425.2
2014	398.2	455.0	316.5	318.5	212.9	353.8	307.3	267.8	269.6	303.9	269.6	309.3	269.6
2015	476.0	668.9	457.8	393.8	290.1	445.9	373.4	343.3	344.8	370.2	344.8	461.2	344.8
2016	426.0	713.0	473.5	330.9	218.5	295.3	303.2	304.7	307.2	335.0	307.2	484.3	307.2
2017	495.3	724.6	480.3	400.2	290.7	417.2	347.9	345.8	347.4	370.9	347.4	472.6	347.4
2018	351.7	549.6	315.7	209.6	132.5	220.8	164.3	187.7	189.3	215.3	189.3	293.2	189.3
2019	399.5	623.5	426.6	294.0	212.5	285.0	244.0	265.5	267.0	281.4	267.0	397.4	267.0
2020	416.1	636.5	463.9	320.7	246.4	288.7	286.1	300.2	299.4	320.8	299.4	479.1	299.4
Húmido	390.8	549.6	421.5	293.4	214.8	281.3	241.6	273.8	276.1	282.3	276.1	310.4	276.1
Medio	439.6	593.7	453.2	334.0	262.0	323.9	307.7	323.8	326.7	341.2	326.7	435.1	326.7
Seco	512.3	668.9	504.4	400.2	316.7	417.2	381.6	370.7	372.0	403.3	372.0	484.3	372.0

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### 6.20 TRIGO

Tabela 94. Necessidades hídricas totais anuais do trigo (mm)

Ano	Estuário	Sado	Oeste	Vila Franca de Xira	Sorraia	Almourol	Castelo de Bode	Castelo de Bode 2	Belver	Pracana	Fratel	Lis	Cedilho
2003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2004	126.8	15.8	44.5	37.2	45.3	0.0	14.6	46.0	44.9	33.7	44.9	0.0	44.9
2005	258.7	132.1	89.6	113.2	176.1	40.6	51.0	93.6	95.1	83.9	95.1	0.4	95.1
2006	94.8	6.6	4.4	11.5	26.4	0.0	0.9	2.6	0.0	0.0	0.0	0.0	0.0
2007	183.1	62.1	77.7	48.3	63.7	0.0	26.9	80.9	80.6	60.4	80.6	6.2	80.6
2008	32.5	0.0	0.0	0.3	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2009	212.8	125.5	117.4	104.4	145.8	17.9	59.7	123.8	125.5	115.0	125.5	2.9	125.5
2010	38.0	0.0	0.0	3.5	16.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2011	64.7	2.6	22.9	21.2	14.0	0.0	7.2	22.3	19.8	15.9	19.8	6.5	19.8
2012	131.8	19.8	81.2	41.9	45.1	6.4	36.8	84.6	85.8	85.9	85.8	10.5	85.8
2013	81.6	0.0	14.3	19.6	22.1	0.0	3.2	10.1	5.3	4.0	5.3	0.0	5.3
2014	62.1	0.0	6.2	16.2	17.2	0.0	2.8	3.4	0.0	0.0	0.0	0.0	0.0
2015	135.0	96.4	43.7	53.1	66.6	52.2	36.2	45.8	44.9	45.6	44.9	0.0	44.9
2016	11.9	0.0	0.0	1.3	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2017	130.2	60.8	15.2	39.2	49.2	7.6	8.1	11.3	6.6	5.0	6.6	2.5	6.6
2018	20.6	0.0	0.1	3.4	4.5	0.0	0.3	0.2	0.0	0.0	0.0	1.1	0.0
2019	127.6	89.8	10.0	18.9	48.7	0.0	0.0	5.2	0.0	0.0	0.0	0.0	0.0
2020	20.6	0.0	0.0	0.0	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Húmido	20.6	0.0	0.0	1.3	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Medio	94.8	6.6	14.3	19.6	26.4	0.0	2.7	10.1	5.3	4.0	5.3	0.0	5.3
Seco	183.1	96.4	84.2	59.1	71.8	17.9	47.8	86.2	85.8	77.0	85.8	6.2	85.8

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### 6.21 TOMATE

Tabela 95. Necessidades hídricas totais anuais do tomate (mm)

Ano	Estuário	Sado	Oeste	Vila Franca de Xira	Sorraia	Almourol	Castelo de Bode	Castelo de Bode 2	Belver	Pracana	Fratel	Lis	Cedilho
2003	573.5	422.3	342.3	516.5	453.4	537.2	491.5	482.1	483.0	508.8	483.0	223.7	483.0
2004	658.5	446.8	389.4	567.3	530.8	553.3	500.3	543.3	543.7	546.6	543.7	143.2	543.7
2005	637.2	430.5	435.5	597.4	558.1	590.5	567.5	570.4	570.5	596.6	570.5	320.5	570.5
2006	592.4	400.2	327.3	509.3	456.6	505.8	500.1	468.4	467.8	517.1	467.8	209.7	467.8
2007	541.1	305.7	341.4	444.4	447.7	449.5	403.7	459.4	459.7	454.5	459.7	42.4	459.7
2008	503.5	291.7	300.1	418.1	390.8	407.5	406.9	420.2	420.0	434.1	420.0	154.0	420.0
2009	561.4	371.0	291.0	458.6	402.3	453.3	406.2	413.8	414.2	430.9	414.2	118.7	414.2
2010	585.7	337.2	349.2	536.7	466.9	534.6	511.1	497.0	497.0	517.7	497.0	264.5	497.0
2011	546.0	334.8	362.3	508.5	511.4	549.7	511.1	540.6	541.3	540.8	541.3	187.0	541.3
2012	547.6	393.2	336.7	494.3	451.0	515.3	483.5	473.1	473.7	495.7	473.7	132.2	473.7
2013	613.4	462.0	420.5	556.8	515.4	574.5	536.8	528.2	528.5	555.7	528.5	300.1	528.5
2014	507.3	357.0	279.2	446.2	377.0	505.9	438.6	386.9	386.2	424.3	386.2	195.7	386.2
2015	605.9	490.0	358.7	561.2	485.0	649.2	554.3	495.8	495.8	531.2	495.8	244.1	495.8
2016	545.3	430.5	315.8	493.2	421.9	510.6	478.2	445.9	445.7	480.8	445.7	163.7	445.7
2017	646.6	486.5	365.5	592.7	507.0	648.9	552.3	518.6	518.0	549.2	518.0	233.2	518.0
2018	428.2	346.5	199.1	312.8	262.2	354.0	282.5	287.4	288.2	317.2	288.2	62.0	288.2
2019	510.3	430.5	285.2	452.2	392.1	472.6	431.7	417.0	417.7	448.8	417.7	92.4	417.7
2020	529.9	378.0	319.5	482.2	424.9	498.9	474.4	448.5	449.2	478.5	449.2	178.4	449.2
Húmido	511.0	337.2	290.9	446.9	392.1	453.3	408.9	417.0	417.7	433.5	417.7	119.8	417.7
Medio	558.1	400.2	337.5	506.6	453.2	515.7	486.7	473.3	473.7	496.9	473.7	181.0	473.7
Seco	637.2	462.0	388.8	567.9	518.9	590.5	557.2	540.2	541.3	566.7	541.3	264.5	541.3

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### 6.22 PASTAGEM PERMANENTE

Tabela 96. Necessidades hídricas totais anuais da pastagem permanente (mm)

Ano	Estuário	Sado	Oeste	Vila Franca de Xira	Sorraia	Almourol	Castelo de Bode	Castelo de Bode 2	Belver	Pracana	Fratel	Lis	Cedilho
2003	280.0	637.9	430.5	222.9	157.6	182.6	186.4	204.8	206.0	214.4	206.0	435.8	206.0
2004	365.1	709.2	509.0	236.0	202.4	193.3	166.2	247.6	248.3	239.5	248.3	431.8	248.3
2005	470.6	661.7	556.5	375.4	314.4	337.5	317.6	346.4	347.4	356.3	347.4	549.3	347.4
2006	305.6	631.3	427.1	192.4	137.4	144.3	177.2	184.9	186.2	211.5	186.2	473.0	186.2
2007	296.4	517.7	425.1	164.5	151.0	124.5	100.8	198.2	199.4	174.5	199.4	214.9	199.4
2008	217.1	467.5	349.8	93.3	53.4	98.2	79.6	101.5	103.0	106.1	103.0	351.7	103.0
2009	386.1	603.6	399.3	249.3	204.5	188.9	184.0	252.3	253.6	244.8	253.6	324.5	253.6
2010	285.7	550.8	436.3	225.2	150.4	197.2	192.7	198.1	199.4	202.2	199.4	503.2	199.4
2011	247.8	573.2	488.4	170.1	196.4	171.1	146.2	241.8	243.0	217.4	243.0	469.5	243.0
2012	330.2	586.4	439.7	247.0	214.5	235.0	211.0	246.1	247.0	249.4	247.0	399.9	247.0
2013	362.4	673.6	500.7	271.5	221.1	242.1	236.8	269.2	270.8	281.5	270.8	509.3	270.8
2014	240.4	556.0	344.9	163.2	79.0	183.0	147.8	126.8	128.1	150.3	128.1	367.2	128.1
2015	342.6	721.1	462.8	257.3	178.7	311.1	242.6	225.9	227.2	241.2	227.2	509.7	227.2
2016	240.9	635.3	392.2	177.9	117.3	143.1	159.8	165.1	166.4	182.1	166.4	386.1	166.4
2017	402.8	768.7	490.5	313.9	217.0	315.0	263.4	264.2	265.5	278.5	265.5	500.4	265.5
2018	226.4	492.6	240.8	97.4	48.7	87.1	53.5	96.4	97.7	106.5	97.7	159.0	97.7
2019	324.6	644.5	378.7	222.8	155.1	207.6	188.1	203.2	204.7	209.5	204.7	332.2	204.7
2020	223.7	581.1	393.6	164.8	110.7	140.4	149.9	158.5	159.8	168.5	159.8	416.7	159.8
Húmido	240.4	550.8	368.0	164.5	110.7	140.4	121.2	158.5	159.8	155.0	159.8	332.2	159.8
Medio	305.6	631.3	430.7	222.8	157.6	188.9	183.2	204.8	206.0	210.5	206.0	428.5	206.0
Seco	386.1	709.2	501.8	271.5	219.5	310.8	254.1	264.4	265.5	277.5	265.5	509.0	265.5

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### 6.23 PRADOS TEMPORÁRIOS

Tabela 97. Necessidades hídricas totais anuais dos prados temporários (mm)

Ano	Estuário	Sado	Oeste	Vila Franca de Xira	Sorraia	Almourol	Castelo de Bode	Castelo de Bode 2	Belver	Pracana	Fratel	Lis	Cedilho
2003	537.5	276.0	257.3	469.7	385.5	446.7	426.3	433.2	434.5	455.8	434.5	129.4	434.5
2004	680.6	328.9	311.7	526.0	469.3	479.7	435.7	516.4	517.7	520.5	517.7	42.6	517.7
2005	812.7	408.1	418.1	702.0	616.0	664.0	633.2	647.6	648.5	676.4	648.5	195.4	648.5
2006	598.3	265.5	242.1	465.2	385.5	433.4	451.8	433.2	434.5	480.6	434.5	104.3	434.5
2007	607.5	198.1	264.3	443.5	433.6	412.3	382.5	480.8	482.1	464.7	482.1	2.5	482.1
2008	483.4	145.3	154.0	346.9	284.7	347.8	318.2	332.6	334.2	348.5	334.2	17.1	334.2
2009	707.1	340.8	318.7	556.9	491.1	500.9	481.7	538.9	540.2	545.9	540.2	60.5	540.2
2010	573.7	221.9	257.6	508.0	409.4	494.2	472.0	456.8	458.3	475.9	458.3	143.0	458.3
2011	511.9	247.0	300.6	429.6	448.1	461.4	414.4	495.3	496.6	473.6	496.6	83.5	496.6
2012	680.2	287.9	324.7	577.9	542.0	578.0	538.6	573.6	574.5	585.8	574.5	77.0	574.5
2013	660.9	336.8	332.3	559.7	495.4	543.1	523.5	542.8	544.2	569.0	544.2	159.8	544.2
2014	516.4	216.6	184.3	431.6	330.6	478.5	420.9	377.7	379.1	416.1	379.1	58.4	379.1
2015	683.1	371.1	298.3	590.7	486.5	691.6	586.0	533.7	534.9	573.3	534.9	143.0	534.9
2016	508.8	261.5	218.0	434.8	350.4	431.7	415.2	397.5	398.9	431.0	398.9	70.3	398.9
2017	687.2	412.1	322.4	592.6	468.1	628.4	537.8	516.2	517.7	547.3	517.7	196.5	517.7
2018	445.1	232.5	136.5	302.0	230.2	320.0	253.9	277.4	278.7	305.6	278.7	12.0	278.7
2019	621.5	367.2	256.7	463.1	390.7	473.3	422.0	438.5	439.8	453.5	439.8	100.7	439.8
2020	523.0	220.6	216.7	437.9	365.2	432.2	420.5	412.1	413.4	439.0	413.4	80.5	413.4
Húmido	511.3	220.6	213.1	431.6	350.4	431.7	385.1	397.5	398.9	402.3	398.9	42.6	398.9
Medio	607.5	276.0	269.2	470.1	433.6	478.5	451.8	480.8	482.1	493.8	482.1	83.5	482.1
Seco	691.3	371.1	329.4	591.3	495.4	628.4	545.7	542.8	544.2	569.0	544.2	159.8	544.2

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### 6.24 AMENDOIM

Tabela 98. Necessidades hídricas totais anuais do amendoim (mm)

Ano	Estuário	Sado	Oeste	Vila Franca de Xira	Sorraia	Almourol	Castelo de Bode	Castelo de Bode 2	Belver	Pracana	Fratel	Lis	Cedilho
2003	552.5	551.7	434.1	525.5	462.4	521.4	496.0	474.4	474.8	505.0	474.8	341.7	474.8
2004	593.0	622.2	498.0	504.9	470.0	520.1	484.5	482.2	482.6	514.8	482.6	287.3	482.6
2005	642.5	738.3	617.4	609.5	552.4	584.9	580.6	564.4	564.8	607.7	564.8	473.7	564.8
2006	544.4	554.3	428.9	500.7	443.5	488.9	478.4	453.9	453.9	500.1	453.9	358.5	453.9
2007	538.8	503.5	475.2	484.2	485.3	515.8	462.8	495.3	495.7	502.5	495.7	133.4	495.7
2008	549.9	400.4	356.2	486.4	449.3	527.5	477.5	461.3	461.7	487.4	461.7	232.5	461.7
2009	584.7	648.3	517.9	522.8	486.9	520.1	488.1	496.6	497.0	516.7	497.0	346.0	497.0
2010	608.2	491.7	473.6	600.1	551.8	595.4	585.3	563.2	563.5	589.4	563.5	416.1	563.5
2011	545.9	489.1	500.0	502.8	541.0	504.1	503.0	552.8	553.0	552.3	553.0	314.7	553.0
2012	621.5	627.4	559.7	575.8	540.8	601.9	568.9	552.7	553.0	578.3	553.0	367.0	553.0
2013	617.9	619.6	534.9	579.1	540.3	612.0	575.4	551.5	551.7	589.4	551.7	423.9	551.7
2014	422.0	489.1	363.4	399.8	342.4	455.8	408.7	354.4	354.8	388.9	354.8	312.1	354.8
2015	573.3	734.3	511.1	521.9	470.5	603.5	526.8	482.3	482.6	513.1	482.6	442.5	482.6
2016	633.4	553.0	423.4	601.4	524.1	627.1	591.7	535.8	536.1	582.3	536.1	292.5	536.1
2017	633.4	717.4	509.2	602.7	517.5	659.7	583.8	529.2	529.6	570.5	529.6	420.0	529.6
2018	534.3	459.1	305.3	467.2	407.1	514.5	443.3	418.3	418.7	462.3	418.7	152.4	418.7
2019	562.6	688.7	440.0	524.7	470.5	555.3	498.1	482.3	482.6	506.9	482.6	301.3	482.6
2020	579.9	506.1	423.7	538.0	480.7	567.9	533.5	492.7	493.0	528.5	493.0	322.1	493.0
Húmido	544.4	489.1	404.8	488.9	450.4	514.5	475.6	461.3	461.7	487.4	461.7	287.3	461.7
Medio	579.9	554.3	475.2	524.8	485.3	555.3	502.3	495.3	495.7	524.5	495.7	341.7	495.7
Seco	633.4	717.4	535.2	601.4	541.0	612.0	582.2	552.8	553.0	590.4	553.0	423.9	553.0



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### 6.25 CEBOLA

Tabela 99. Necessidades hídricas totais anuais da cebola (mm)

Ano	Estuário	Sado	Oeste	Vila Franca de Xira	Sorraia	Almourol	Castelo de Bode	Castelo de Bode 2	Belver	Pracana	Fratel	Lis	Cedilho
2003	668.7	566.0	33.1	611.0	554.8	625.8	586.1	569.0	568.5	597.3	568.5	453.8	568.5
2004	774.3	585.2	76.8	685.3	660.2	670.2	619.3	661.1	660.7	677.5	660.7	335.7	660.7
2005	745.5	623.6	105.6	695.3	653.6	690.4	662.5	661.9	662.0	694.4	662.0	563.7	662.0
2006	704.5	522.4	18.0	633.7	568.0	629.3	624.9	583.9	583.9	631.7	583.9	425.4	583.9
2007	687.4	475.1	149.5	583.5	586.0	581.9	548.2	600.2	600.5	603.6	600.5	352.0	600.5
2008	615.7	491.7	69.9	532.5	507.9	537.1	518.1	529.4	530.1	552.5	530.1	379.3	530.1
2009	703.1	546.8	77.0	620.1	560.8	626.9	587.4	585.8	586.5	609.8	586.5	419.7	586.5
2010	694.4	558.3	63.1	646.3	587.9	656.9	623.9	609.1	609.5	632.4	609.5	536.4	609.5
2011	694.3	578.8	130.2	654.5	667.0	684.2	652.2	684.8	685.1	680.0	685.1	437.2	685.1
2012	644.7	591.6	96.6	586.3	545.2	637.4	589.3	559.3	559.6	591.1	559.6	473.0	559.6
2013	718.4	590.3	45.9	654.8	611.3	679.7	634.5	618.3	618.5	649.6	618.5	509.9	618.5
2014	634.2	423.8	33.6	580.8	512.4	655.9	587.0	526.5	526.3	568.2	526.3	362.6	526.3
2015	723.0	628.7	41.6	683.0	608.9	790.6	687.9	617.5	617.2	660.6	617.2	434.0	617.2
2016	630.8	685.1	68.3	580.1	512.8	614.9	568.3	526.0	526.3	565.1	526.3	508.9	526.3
2017	773.2	700.4	101.2	722.1	623.8	781.0	691.9	640.9	641.5	678.4	641.5	490.3	641.5
2018	512.2	566.0	83.3	410.0	364.2	464.1	386.5	381.1	381.6	418.1	381.6	375.2	381.6
2019	651.9	596.7	51.5	592.2	543.3	627.2	576.3	551.6	551.9	589.9	551.9	409.0	551.9
2020	630.4	585.2	1.3	578.6	533.9	606.1	567.8	548.9	549.3	578.8	549.3	460.2	549.3
Húmido	631.7	522.4	35.6	579.7	514.9	606.1	562.0	530.0	530.1	563.8	530.1	373.1	530.1
Medio	694.0	585.2	71.8	620.1	568.8	637.4	599.1	586.6	586.5	613.4	586.5	437.2	586.5
Seco	745.5	628.7	106.8	686.3	653.5	690.4	662.1	660.5	660.7	692.8	660.7	509.9	660.7

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### 6.26 ABACATE

Tabela 100. Necessidades hídricas totais anuais do abacate (mm)

Ano	Estuário	Sado	Oeste	Vila Franca de Xira	Sorraia	Almourol	Castelo de Bode	Castelo de Bode 2	Belver	Pracana	Fratel	Lis	Cedilho
2003	373.5	380.3	296.1	326.2	264.9	300.2	294.1	299.9	301.0	316.5	301.0	244.2	301.0
2004	450.6	424.7	321.7	323.9	290.6	300.9	267.5	325.6	326.7	335.2	326.7	127.6	326.7
2005	536.8	488.8	416.2	462.5	399.4	435.2	410.3	418.3	418.8	440.5	418.8	323.8	418.8
2006	374.6	350.0	277.4	301.7	246.3	270.6	282.7	281.2	282.3	313.1	282.3	219.3	282.3
2007	399.2	290.5	313.5	287.8	282.4	252.6	243.9	317.4	318.5	297.3	318.5	164.5	318.5
2008	333.9	288.2	253.3	260.9	221.8	295.8	258.1	257.0	257.8	271.9	257.8	179.1	257.8
2009	464.6	422.3	338.0	336.8	306.9	290.9	282.8	341.9	343.0	339.9	343.0	182.6	343.0
2010	396.8	337.2	328.0	352.0	296.5	333.2	329.5	331.6	332.5	343.1	332.5	288.6	332.5
2011	366.6	388.5	374.9	303.0	343.4	295.5	300.9	378.3	379.2	364.6	379.2	248.5	379.2
2012	426.4	392.0	334.0	351.5	317.7	348.3	322.4	336.1	336.0	354.7	336.0	212.0	336.0
2013	440.1	420.0	355.5	369.4	324.4	361.6	346.9	359.4	360.5	379.5	360.5	276.9	360.5
2014	294.2	283.5	188.7	235.2	157.6	269.4	226.6	192.6	193.7	220.6	193.7	148.6	193.7
2015	409.7	448.0	303.0	335.0	271.9	406.7	329.5	306.9	308.0	325.6	308.0	254.7	308.0
2016	395.7	435.2	307.0	343.2	275.5	334.0	328.2	310.6	311.5	339.0	311.5	245.0	311.5
2017	479.7	528.5	342.0	406.7	310.5	428.1	364.7	345.6	346.5	370.0	346.5	295.2	346.5
2018	340.9	361.7	212.5	237.0	181.0	242.2	201.9	216.1	217.0	235.5	217.0	156.7	217.0
2019	389.3	438.7	299.1	330.3	267.6	333.1	300.3	302.5	303.3	316.8	303.3	194.8	303.3
2020	372.4	378.0	279.7	307.0	248.5	296.7	290.8	283.6	284.7	306.7	284.7	223.2	284.7
Húmido	366.6	337.2	277.4	287.8	246.3	270.6	254.2	281.2	282.3	290.3	282.3	164.5	282.3
Medio	397.4	392.0	313.5	330.3	282.4	300.9	300.9	317.4	318.5	332.0	318.5	223.9	318.5
Seco	464.6	448.0	355.7	369.4	324.8	406.7	346.9	359.4	360.5	379.5	360.5	288.6	360.5

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### 6.27 MIRTILO

Tabela 101. Necessidades hídricas totais anuais do mirtilo (mm)

Ano	Estuário	Sado	Oeste	Vila Franca de Xira	Sorraia	Almourol	Castelo de Bode	Castelo de Bode 2	Belver	Pracana	Fratel	Lis	Cedilho
2003	406.5	411.8	318.6	350.8	280.9	319.9	314.3	323.2	324.3	340.2	324.3	256.4	324.3
2004	504.4	470.2	373.4	375.2	335.8	338.9	307.5	378.0	379.2	379.0	379.2	143.5	379.2
2005	607.8	554.2	472.3	519.3	447.3	484.8	462.8	475.2	476.0	497.9	476.0	350.3	476.0
2006	434.0	402.5	308.1	333.9	270.5	297.8	314.1	312.7	313.8	346.6	313.8	243.8	313.8
2007	440.3	345.3	343.1	315.3	305.5	281.5	255.0	347.7	348.8	328.5	348.8	113.0	348.8
2008	365.2	291.7	253.3	255.2	215.7	267.4	246.2	257.8	259.0	269.6	259.0	159.8	259.0
2009	527.3	479.5	390.3	396.4	352.7	342.2	335.7	394.4	395.5	394.5	395.5	219.6	395.5
2010	433.2	369.8	341.0	381.1	303.7	359.6	351.2	345.3	346.5	359.2	346.5	311.2	346.5
2011	398.1	397.8	384.5	325.1	348.5	332.7	307.8	388.6	389.7	374.0	389.7	242.6	389.7
2012	481.0	445.7	391.5	401.6	366.5	396.9	368.6	394.6	395.5	405.7	395.5	237.5	395.5
2013	491.5	466.7	393.3	409.1	355.7	394.6	381.1	397.8	399.0	418.9	399.0	305.6	399.0
2014	350.5	332.5	233.4	280.8	195.8	314.2	271.2	238.0	239.2	267.9	239.2	184.3	239.2
2015	481.1	522.7	352.4	397.4	314.8	472.0	388.2	357.0	358.2	381.0	358.2	275.0	358.2
2016	409.9	449.2	312.5	349.1	274.7	335.4	331.3	317.2	318.5	345.7	318.5	239.5	318.5
2017	534.5	563.5	384.8	453.3	347.0	472.9	405.8	389.5	390.8	415.2	390.8	325.2	390.8
2018	362.0	381.5	222.3	243.4	184.7	246.8	202.8	226.4	227.5	248.3	227.5	128.6	227.5
2019	449.1	502.8	316.8	348.4	279.2	346.2	315.5	320.9	322.0	336.1	322.0	209.8	322.0
2020	382.0	387.3	290.6	314.6	253.0	306.0	301.3	295.2	296.3	316.6	296.3	227.5	296.3
Húmido	382.0	369.8	290.6	314.6	253.0	297.8	279.8	295.2	296.3	304.0	296.3	159.8	296.3
Medio	440.3	445.7	343.1	350.8	305.5	338.9	323.6	347.7	348.8	359.5	348.8	239.6	348.8
Seco	527.3	522.7	391.3	411.6	355.4	471.4	399.4	394.7	395.5	416.3	395.5	311.2	395.5

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### 6.28 AMEIXA

Tabela 102. Necessidades hídricas totais anuais da ameixa (mm)

Ano	Estuário	Sado	Oeste	Vila Franca de Xira	Sorraia	Almourol	Castelo de Bode	Castelo de Bode 2	Belver	Pracana	Fratel	Lis	Cedilho
2003	579.6	600.4	477.8	523.4	444.8	500.7	485.2	481.8	483.0	509.1	483.0	426.2	483.0
2004	677.2	649.8	505.7	520.8	472.3	505.9	460.3	509.3	510.2	529.1	510.2	299.4	510.2
2005	724.0	678.2	597.1	647.1	569.2	616.4	596.2	599.8	600.4	639.4	600.4	543.5	600.4
2006	575.9	559.6	458.0	498.7	425.0	472.3	478.1	462.1	463.2	508.7	463.2	403.9	463.2
2007	611.7	485.5	537.1	503.5	504.0	463.6	462.4	541.1	542.3	521.0	542.3	333.6	542.3
2008	552.4	471.9	426.6	458.5	393.3	501.4	448.8	430.2	431.1	457.4	431.1	357.0	431.1
2009	658.5	615.2	507.4	512.2	474.4	478.4	462.0	511.5	512.6	517.7	512.6	372.4	512.6
2010	615.4	543.5	530.9	567.9	497.8	549.2	541.6	534.9	536.1	556.3	536.1	498.1	536.1
2011	599.2	613.9	603.8	524.6	570.8	507.2	524.7	607.8	609.0	599.2	609.0	458.3	609.0
2012	593.6	604.1	494.1	519.9	461.9	550.5	505.4	497.9	499.1	525.1	499.1	386.6	499.1
2013	650.0	625.1	546.9	572.7	514.0	575.1	549.2	551.0	552.2	582.6	552.2	461.2	552.2
2014	461.0	453.4	335.7	394.9	302.7	447.1	388.9	339.8	340.9	378.1	340.9	299.6	340.9
2015	620.2	686.8	494.6	533.2	461.2	607.0	526.2	498.1	499.1	529.8	499.1	431.1	499.1
2016	626.5	691.8	506.2	565.3	473.1	570.2	545.6	510.2	511.4	552.9	511.4	439.1	511.4
2017	720.4	800.5	536.3	625.8	502.9	675.2	588.9	540.1	541.1	581.6	541.1	484.9	541.1
2018	547.4	580.6	386.8	427.0	353.5	444.6	385.1	390.7	391.6	423.5	391.6	303.3	391.6
2019	600.6	653.5	495.0	538.1	462.1	550.4	503.3	499.1	500.3	525.1	500.3	367.5	500.3
2020	595.7	607.8	479.8	519.6	446.4	516.3	494.2	483.3	484.2	518.3	484.2	394.7	484.2
Húmido	575.9	543.5	458.0	498.7	425.0	472.3	446.2	462.1	463.2	480.7	463.2	333.6	463.2
Medio	611.7	613.9	505.7	523.4	472.3	516.3	502.0	509.3	510.2	533.4	510.2	403.9	510.2
Seco	677.2	686.8	546.9	572.7	514.0	605.8	557.8	551.0	552.2	583.5	552.2	484.9	552.2

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## ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

### 6.29 BETERRABA

Tabela 103. Necessidades hídricas totais anuais da beterraba (mm)

Ano	Estuário	Sado	Oeste	Vila Franca de Xira	Sorraia	Almourol	Castelo de Bode	Castelo de Bode 2	Belver	Pracana	Fratel	Lis	Cedilho
2003	784.1	814.9	664.0	721.7	636.9	716.5	678.8	667.5	668.3	702.4	668.3	590.1	668.3
2004	872.5	841.3	713.2	742.7	695.4	730.1	654.8	715.3	715.8	730.6	715.8	479.3	715.8
2005	894.0	849.2	773.7	820.9	746.6	790.5	775.0	777.1	777.9	823.0	777.9	706.4	777.9
2006	834.8	816.2	691.1	759.0	663.6	751.6	745.4	694.0	694.7	762.5	694.7	664.0	694.7
2007	812.1	715.8	713.2	686.1	695.4	688.0	635.5	715.3	715.8	711.2	715.8	429.4	715.8
2008	726.5	639.2	571.3	597.4	545.5	612.0	573.0	573.4	573.2	598.4	573.2	488.4	573.2
2009	854.3	829.4	672.9	729.9	656.7	715.6	660.6	674.6	674.9	698.9	674.9	566.9	674.9
2010	833.3	755.5	707.6	785.1	682.6	785.2	751.0	711.0	711.9	747.9	711.9	709.0	711.9
2011	744.4	756.8	723.7	666.5	688.4	732.5	674.0	726.9	727.7	722.3	727.7	586.9	727.7
2012	806.8	795.1	696.8	733.3	669.8	769.1	719.3	700.3	701.3	734.0	701.3	574.5	701.3
2013	882.4	858.5	759.1	796.7	732.0	807.6	767.4	762.6	763.4	803.1	763.4	670.8	763.4
2014	739.2	727.7	588.1	667.9	560.6	754.7	667.3	591.0	591.7	645.0	591.7	558.4	591.7
2015	854.3	927.2	709.8	791.7	687.9	925.6	792.6	712.5	713.2	762.1	713.2	685.2	713.2
2016	799.2	874.3	660.7	736.7	634.5	770.6	717.8	663.6	664.3	717.3	664.3	577.0	664.3
2017	883.2	948.3	693.8	797.7	668.1	866.7	744.2	696.6	697.4	742.1	697.4	613.9	697.4
2018	659.1	707.9	478.8	522.6	451.3	576.5	484.7	482.3	483.4	525.8	483.4	363.3	483.4
2019	806.3	892.8	673.6	723.9	642.0	747.4	690.6	677.7	678.9	713.0	678.9	559.3	678.9
2020	785.2	803.0	668.7	719.6	642.2	747.7	709.0	671.5	672.3	716.3	672.3	605.3	672.3
Húmido	746.4	727.7	660.7	668.7	633.7	713.6	639.4	663.6	664.3	674.7	664.3	488.4	664.3
Medio	816.1	816.2	693.8	732.7	666.7	751.6	716.6	696.6	697.4	731.0	697.4	586.9	697.4
Seco	883.1	892.8	726.0	796.0	701.8	807.6	757.1	727.9	727.7	776.3	727.7	685.2	727.7

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### 6.30 LUZERNA

Tabela 104. Necessidades hídricas totais anuais da luzerna (mm)

Ano	Estuário	Sado	Oeste	Vila Franca de Xira	Sorraia	Almourol	Castelo de Bode	Castelo de Bode 2	Belver	Pracana	Fratel	Lis	Cedilho
2003	792.6	830.8	656.5	722.8	614.0	713.5	664.2	661.7	663.0	699.5	663.0	573.5	663.0
2004	1022.8	965.5	814.7	845.6	771.9	790.1	736.7	820.0	821.5	834.2	821.5	509.8	821.5
2005	1124.5	1059.2	921.9	1009.0	893.8	962.3	924.1	925.1	925.8	969.4	925.8	776.7	925.8
2006	891.9	853.2	680.6	733.2	637.3	707.0	704.4	685.5	686.8	744.0	686.8	597.3	686.8
2007	943.5	808.3	809.4	778.8	766.6	729.3	691.5	814.7	816.2	795.6	816.2	437.1	816.2
2008	786.2	651.1	553.8	601.4	511.2	619.7	565.4	558.7	560.0	586.9	560.0	432.2	560.0
2009	1031.9	964.2	840.1	873.4	797.5	802.4	785.3	845.3	846.6	860.9	846.6	637.9	846.6
2010	897.3	783.2	710.7	813.8	668.7	783.0	742.2	715.8	717.2	746.7	717.2	692.4	717.2
2011	869.8	840.0	847.7	786.0	805.0	788.3	745.2	853.0	854.5	822.3	854.5	597.3	854.5
2012	958.9	907.4	819.9	853.9	791.4	860.1	802.4	823.2	824.2	845.4	824.2	615.9	824.2
2013	943.0	904.7	796.8	841.5	754.6	829.9	797.7	801.7	803.0	842.1	803.0	688.1	803.0
2014	757.1	739.6	586.5	668.6	544.0	731.9	654.7	591.7	593.0	643.3	593.0	534.9	593.0
2015	981.6	1060.6	791.2	876.0	748.7	1002.9	865.4	796.4	797.7	848.7	797.7	701.3	797.7
2016	802.8	879.6	620.2	699.7	577.7	701.1	665.5	624.8	626.0	675.4	626.0	529.6	626.0
2017	1047.9	1131.9	803.4	941.3	761.2	987.0	858.7	808.3	809.6	859.3	809.6	717.5	809.6
2018	716.4	752.8	513.2	573.6	470.6	596.8	512.8	517.8	519.1	564.4	519.1	397.9	519.1
2019	924.9	1015.7	733.8	788.8	691.2	794.5	713.5	738.4	739.6	760.8	739.6	516.7	739.6
2020	786.4	776.6	621.4	669.6	579.8	669.9	631.7	625.9	627.4	660.8	627.4	518.1	627.4
Húmido	786.9	776.6	620.2	669.6	577.7	701.1	634.4	624.8	626.0	652.9	626.0	509.8	626.0
Medio	924.3	879.6	791.2	788.8	748.7	788.3	730.9	796.4	797.7	807.1	797.7	597.3	797.7
Seco	1031.9	1059.2	840.8	876.2	800.8	962.1	869.8	845.3	846.6	885.4	846.6	701.3	846.6

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### 6.31 ROMÃ

Tabela 105. Necessidades hídricas totais anuais da romã (mm)

Ano	Estuário	Sado	Oeste	Vila Franca de Xira	Sorraia	Almourol	Castelo de Bode	Castelo de Bode 2	Belver	Pracana	Fratel	Lis	Cedilho
2003	533.7	549.4	435.0	476.4	399.3	450.3	438.2	438.8	439.8	463.1	439.8	376.5	439.8
2004	623.5	594.3	454.5	465.1	418.9	447.2	403.7	458.6	459.6	477.5	459.6	239.7	459.6
2005	659.2	604.9	548.6	586.0	512.9	540.2	542.6	552.4	553.4	588.8	553.4	484.7	553.4
2006	532.4	505.8	414.4	451.2	379.2	419.4	428.9	418.7	420.0	462.7	420.0	353.1	420.0
2007	528.4	404.2	460.1	426.2	424.4	399.2	384.0	463.9	464.9	445.2	464.9	264.3	464.9
2008	490.1	429.2	386.5	402.4	350.6	440.6	397.9	390.0	390.9	412.9	390.9	304.4	390.9
2009	586.7	552.1	427.6	441.3	392.4	416.4	397.4	432.0	433.2	440.2	433.2	311.7	433.2
2010	564.2	492.6	480.4	514.5	445.2	493.8	487.4	484.8	486.0	503.6	486.0	440.5	486.0
2011	537.8	556.0	543.8	461.8	508.5	441.5	460.3	548.2	549.4	536.3	549.4	391.4	549.4
2012	537.8	548.1	448.2	469.1	412.5	490.4	457.0	452.0	453.0	475.3	453.0	336.8	453.0
2013	607.7	582.5	504.2	526.5	468.9	524.2	501.0	508.6	509.8	537.6	509.8	414.7	509.8
2014	425.4	417.4	297.3	356.1	261.7	404.5	348.2	301.5	302.5	338.5	302.5	256.7	302.5
2015	568.2	631.3	444.8	480.3	409.5	536.1	472.8	449.1	450.4	476.9	450.4	384.3	450.4
2016	570.8	628.7	454.8	508.1	419.1	507.6	489.5	458.6	459.6	498.7	459.6	384.3	459.6
2017	654.0	717.2	483.6	568.8	447.9	606.6	527.2	487.7	488.7	524.1	488.7	430.6	488.7
2018	491.6	521.7	334.3	372.0	298.7	385.6	327.7	338.4	339.4	367.6	339.4	254.0	339.4
2019	548.4	597.0	440.8	483.6	405.7	493.0	448.1	446.5	447.7	469.0	447.7	313.0	447.7
2020	539.1	549.4	423.7	461.8	388.4	454.2	437.1	428.0	429.2	460.7	429.2	350.7	429.2
Húmido	528.4	492.6	414.4	426.2	379.2	416.4	391.8	418.7	420.0	430.3	420.0	264.3	420.0
Medio	548.4	552.1	448.2	469.1	412.5	454.2	444.2	452.0	453.0	475.3	453.0	353.1	453.0
Seco	623.5	628.7	504.2	526.5	468.9	536.1	504.5	508.6	509.8	537.6	509.8	430.6	509.8

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### 6.32 AZEVÉM

Tabela 106. Necessidades hídricas totais anuais do azevém (mm)

Ano	Estuário	Sado	Oeste	Vila Franca de Xira	Sorraia	Almourol	Castelo de Bode	Castelo de Bode 2	Belver	Pracana	Fratel	Lis	Cedilho
2003	15.1	0.0	0.0	6.2	5.7	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
2004	231.0	145.3	89.6	77.7	118.2	9.6	33.5	92.9	92.5	86.0	92.5	0.0	92.5
2005	437.4	354.0	207.0	262.9	364.4	184.4	176.1	213.5	215.3	221.8	215.3	45.9	215.3
2006	126.3	83.2	20.7	17.0	49.6	1.3	8.9	21.6	19.8	15.4	19.8	0.0	19.8
2007	306.9	202.1	209.3	167.9	169.9	26.4	114.6	217.2	219.2	176.5	219.2	100.5	219.2
2008	154.9	68.7	37.5	63.3	102.6	84.8	50.8	39.3	39.6	48.9	39.6	9.4	39.6
2009	354.4	293.2	252.1	216.2	302.2	94.6	149.0	260.6	262.8	243.2	262.8	60.5	262.8
2010	100.1	18.5	20.4	29.8	55.8	2.8	10.4	21.6	21.1	17.7	21.1	6.5	21.1
2011	183.7	129.4	160.2	78.7	72.4	14.4	63.1	165.6	166.4	140.8	166.4	23.9	166.4
2012	247.1	190.2	179.0	125.5	145.2	73.9	124.0	184.2	184.9	186.6	184.9	104.3	184.9
2013	131.9	79.2	47.5	46.0	48.5	5.8	19.7	48.5	46.2	40.2	46.2	3.3	46.2
2014	80.6	29.1	15.7	18.4	29.1	5.1	8.3	14.7	11.9	13.7	11.9	2.2	11.9
2015	212.6	224.5	90.7	107.9	144.7	131.2	92.6	95.0	95.1	101.2	95.1	14.5	95.1
2016	105.1	103.0	39.8	41.7	49.9	11.9	29.0	41.6	42.3	43.3	42.3	12.0	42.3
2017	310.4	343.4	110.6	178.6	235.2	145.4	134.7	116.2	117.5	132.0	117.5	75.1	117.5
2018	135.6	117.5	76.3	86.2	72.9	45.6	59.5	79.6	80.6	78.0	80.6	53.5	80.6
2019	244.9	265.5	86.8	81.0	182.4	24.6	41.5	90.3	91.1	71.3	91.1	3.3	91.1
2020	49.7	14.5	2.4	8.0	8.4	0.0	0.0	1.6	0.0	0.0	0.0	0.0	0.0
Húmido	97.7	29.1	18.4	18.4	38.4	2.8	9.4	20.6	19.8	16.7	19.8	0.0	19.8
Medio	184.0	129.4	87.5	79.8	95.6	24.3	45.4	91.7	91.1	83.5	91.1	12.0	91.1
Seco	310.4	293.2	207.0	178.6	235.2	131.1	136.4	213.5	215.3	207.6	215.3	74.7	215.3



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### 6.33 ALFACE (NOVEMBRO)

Tabela 107. Necessidades hídricas totais anuais da alface (novembro) (mm)

Ano	Estuário	Sado	Oeste	Vila Franca de Xira	Sorraia	Almourol	Castelo de Bode	Castelo de Bode 2	Belver	Pracana	Fratel	Lis	Cedilho
2003	13.6	14.4	6.7	7.5	10.6	4.7	5.6	7.0	7.2	8.3	7.2	5.7	7.2
2004	52.2	43.2	26.8	29.4	38.7	24.5	26.5	27.4	27.6	30.1	27.6	29.4	27.6
2005	60.2	50.4	22.7	35.0	46.9	25.5	26.3	23.0	22.8	27.9	22.8	28.6	22.8
2006	34.2	27.6	10.9	14.7	22.1	6.9	8.3	11.4	10.8	12.0	10.8	10.0	10.8
2007	121.2	108.0	107.1	92.1	89.3	63.0	86.6	107.9	108.0	105.5	108.0	96.9	108.0
2008	68.8	57.6	33.8	37.4	53.9	64.1	45.0	35.0	34.8	40.6	34.8	35.0	34.8
2009	37.4	30.0	32.3	27.2	34.7	21.2	27.7	32.4	32.4	34.1	32.4	29.8	32.4
2010	30.0	22.8	23.1	18.8	18.7	13.2	19.5	23.9	24.0	24.7	24.0	22.1	24.0
2011	64.2	55.2	71.5	60.7	47.9	50.2	62.5	71.8	72.0	71.6	72.0	73.9	72.0
2012	47.8	51.6	41.1	26.4	30.6	20.8	28.2	41.1	40.8	40.6	40.8	22.2	40.8
2013	44.8	45.6	16.9	14.0	28.1	14.7	16.4	17.0	16.8	21.5	16.8	11.1	16.8
2014	50.6	51.6	31.7	24.8	35.4	37.1	36.2	33.9	34.8	37.0	34.8	30.7	34.8
2015	40.7	51.6	16.9	13.0	15.8	11.0	17.7	17.6	18.0	21.4	18.0	18.9	18.0
2016	37.9	39.6	25.7	32.7	32.4	31.7	31.6	25.3	25.2	28.4	25.2	33.0	25.2
2017	81.2	90.0	50.4	67.4	60.4	56.8	62.6	51.5	51.6	58.6	51.6	71.9	51.6
2018	40.0	33.6	30.3	32.8	31.3	26.8	29.5	30.2	30.0	30.8	30.0	33.9	30.0
2019	45.8	42.0	33.6	33.1	32.8	29.2	30.1	34.0	33.6	36.4	33.6	26.4	33.6
2020	8.6	4.8	1.3	2.3	1.7	0.0	0.4	0.5	0.0	1.6	0.0	2.0	0.0
Húmido	34.2	27.6	15.5	14.0	19.6	10.6	15.5	16.4	16.8	19.3	16.8	11.8	16.8
Medio	46.7	45.6	28.7	29.2	33.5	25.2	28.3	29.7	30.0	32.5	30.0	28.7	30.0
Seco	72.6	57.6	50.4	58.8	56.0	56.2	56.3	51.5	51.6	56.3	51.6	68.0	51.6

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### 6.34 ALFACE (FEVEREIRO)

Tabela 108. Necessidades hídricas totais anuais da alface (fevereiro) (mm)

Ano	Estuário	Sado	Oeste	Vila Franca de Xira	Sorraia	Almourol	Castelo de Bode	Castelo de Bode 2	Belver	Pracana	Fratel	Lis	Cedilho
2003	343.6	346.3	278.0	294.3	259.8	295.1	280.5	277.3	277.3	291.5	277.3	260.8	277.3
2004	405.4	369.7	337.5	334.4	328.7	304.6	286.6	335.0	334.6	332.7	334.6	236.3	334.6
2005	428.1	401.3	361.7	383.2	352.3	369.7	351.5	360.2	360.3	370.2	360.3	314.4	360.3
2006	342.3	321.7	260.6	274.0	243.2	258.0	270.4	259.2	258.6	279.5	258.6	239.6	258.6
2007	324.5	293.6	260.1	248.5	245.5	226.6	216.7	257.5	257.4	253.3	257.4	157.1	257.4
2008	278.8	258.6	200.6	199.0	175.6	180.4	180.2	200.5	201.2	209.5	201.2	137.4	201.2
2009	396.4	359.2	343.5	343.2	323.0	326.0	323.0	341.2	341.6	346.4	341.6	295.7	341.6
2010	301.7	258.6	253.2	252.8	231.4	246.7	233.6	254.3	255.0	254.4	255.0	206.6	255.0
2011	335.1	313.5	336.4	291.1	310.4	294.8	287.7	336.4	336.9	318.3	336.9	269.3	336.9
2012	329.8	336.9	274.2	279.5	260.2	311.5	289.3	272.4	272.6	293.9	272.6	250.0	272.6
2013	337.9	327.6	265.3	277.6	257.9	284.3	256.0	264.7	264.4	274.6	264.4	201.5	264.4
2014	335.4	320.6	270.0	289.5	253.4	322.5	289.0	269.7	270.3	287.7	270.3	253.5	270.3
2015	387.5	434.0	310.5	338.3	300.2	401.5	335.5	307.7	307.7	325.8	307.7	298.3	307.7
2016	260.7	284.3	184.2	202.1	171.5	203.2	191.2	183.8	183.7	197.1	183.7	115.9	183.7
2017	417.8	453.9	331.1	372.0	310.5	386.5	352.6	330.9	331.1	346.9	331.1	305.7	331.1
2018	236.9	230.5	149.4	164.3	137.7	176.9	142.7	150.7	150.9	167.1	150.9	105.8	150.9
2019	366.7	402.5	309.4	318.6	292.9	309.8	304.7	307.6	307.7	321.1	307.7	255.1	307.7
2020	303.4	300.7	248.2	246.6	233.7	242.8	228.1	246.7	246.9	249.8	246.9	178.3	246.9
Húmido	301.0	284.3	247.3	245.3	229.1	226.6	213.6	246.4	246.9	245.4	246.9	157.1	246.9
Medio	340.6	327.6	273.9	290.1	261.2	295.5	274.5	272.4	272.6	288.0	272.6	249.2	272.6
Seco	405.5	402.5	341.1	343.5	322.7	369.5	344.1	337.7	336.9	347.7	336.9	300.2	336.9

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ANEXO 8 – Necessidades Hídricas das Culturas

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### 6.35 ALFACE (ABRIL)

Tabela 109. Necessidades hídricas totais anuais da alface (abril) (mm)

Ano	Estuário	Sado	Oeste	Vila Franca de Xira	Sorraia	Almourol	Castelo de Bode	Castelo de Bode 2	Belver	Pracana	Fratel	Lis	Cedilho
2003	264.8	265.6	221.1	238.9	216.2	239.4	226.2	222.6	222.3	231.4	222.3	200.3	222.3
2004	286.5	251.5	233.2	233.7	232.4	215.1	196.5	235.4	235.2	230.9	235.2	145.3	235.2
2005	280.0	253.9	242.8	249.6	243.9	248.1	230.6	245.6	245.7	249.0	245.7	189.3	245.7
2006	279.6	260.9	229.3	246.2	223.4	241.8	248.0	232.6	232.8	247.6	232.8	214.4	232.8
2007	228.7	200.1	182.5	176.7	174.5	174.4	159.0	186.8	187.2	184.8	187.2	100.9	187.2
2008	171.4	149.7	123.9	128.9	114.3	117.5	116.9	127.2	127.5	131.0	127.5	91.1	127.5
2009	237.6	230.5	169.3	193.0	155.0	197.5	177.2	173.6	174.3	181.6	174.3	143.7	174.3
2010	222.4	190.7	194.6	196.4	186.0	195.1	186.3	197.7	197.7	198.9	197.7	166.7	197.7
2011	221.2	209.4	234.2	203.9	221.3	206.1	204.3	237.8	238.7	222.9	238.7	198.6	238.7
2012	174.8	183.7	141.9	143.4	135.9	163.3	147.3	143.5	143.9	151.7	143.9	101.8	143.9
2013	254.8	246.9	204.4	217.5	203.6	218.2	199.2	207.0	207.1	213.6	207.1	156.4	207.1
2014	236.3	225.8	184.4	201.9	174.1	224.0	200.4	189.1	189.5	201.3	189.5	169.4	189.5
2015	260.4	276.1	202.6	226.6	196.6	253.5	219.2	204.7	204.7	216.4	204.7	201.4	204.7
2016	187.7	200.1	145.7	156.5	134.5	153.7	152.3	148.2	148.6	157.0	148.6	92.8	148.6
2017	293.6	308.9	232.9	262.7	227.6	277.1	252.1	235.2	235.2	247.9	235.2	206.2	235.2
2018	154.2	147.4	94.1	95.1	85.6	91.7	76.3	97.3	97.1	101.8	97.1	70.2	97.1
2019	239.5	256.2	194.8	210.6	191.8	215.6	202.4	197.6	197.7	208.1	197.7	163.8	197.7
2020	185.8	180.2	157.6	157.8	149.0	152.5	146.9	161.0	161.4	161.3	161.4	119.8	161.4
Húmido	185.5	183.7	146.4	155.8	137.8	153.7	147.0	148.5	148.6	155.1	148.6	99.6	148.6
Medio	238.8	230.5	196.1	203.2	191.8	214.8	191.4	198.1	197.7	202.8	197.7	163.4	197.7
Seco	280.1	265.6	232.9	245.0	227.5	248.4	230.2	235.2	235.2	241.1	235.2	202.4	235.2

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### 6.36 MELANCIA

Tabela 110. Necessidades hídricas totais anuais da melancia (mm)

Ano	Estuário	Sado	Oeste	Vila Franca de Xira	Sorraia	Almourol	Castelo de Bode	Castelo de Bode 2	Belver	Pracana	Fratel	Lis	Cedilho
2003	402.0	401.3	318.7	357.5	306.1	382.7	337.9	327.1	327.8	349.5	327.8	264.6	327.8
2004	465.5	444.5	378.2	399.0	373.6	389.8	343.5	384.8	385.0	384.1	385.0	265.2	385.0
2005	444.5	399.0	386.1	413.0	381.4	412.3	394.9	392.8	393.2	415.2	393.2	329.7	393.2
2006	393.3	379.2	294.8	329.1	284.3	330.2	325.2	301.9	302.2	342.0	302.2	268.1	302.2
2007	354.6	280.0	282.3	275.4	278.4	297.6	245.0	288.4	288.2	282.5	288.2	99.7	288.2
2008	334.8	298.7	281.3	281.6	262.3	274.6	272.8	283.9	284.7	294.6	284.7	224.2	284.7
2009	360.5	340.7	237.4	275.4	233.2	276.4	238.1	242.8	242.7	253.4	242.7	164.9	242.7
2010	384.3	334.8	326.4	351.0	311.4	352.9	337.9	333.1	333.7	344.8	333.7	278.6	333.7
2011	343.0	347.7	333.1	314.7	319.8	333.7	315.2	341.4	341.8	338.0	341.8	279.9	341.8
2012	382.9	380.3	319.0	340.9	304.5	357.4	332.0	326.2	326.7	342.4	326.7	244.2	326.7
2013	441.0	428.2	364.5	393.2	359.5	409.4	378.9	370.6	371.0	392.5	371.0	312.9	371.0
2014	344.2	334.8	247.3	305.6	244.8	360.4	301.2	254.2	254.3	284.3	254.3	232.2	254.3
2015	425.4	465.5	334.7	384.1	323.6	446.8	375.3	342.5	343.0	367.5	343.0	320.6	343.0
2016	374.7	406.0	299.6	333.3	283.0	342.4	323.0	304.9	305.7	329.8	305.7	233.5	305.7
2017	418.1	444.5	322.6	369.8	309.4	406.5	344.1	328.5	329.0	347.7	329.0	267.5	329.0
2018	286.2	301.0	163.3	190.9	158.2	231.5	160.3	169.0	169.2	189.8	169.2	77.7	169.2
2019	363.8	409.5	285.4	316.4	270.8	329.9	299.8	293.4	294.0	315.6	294.0	217.4	294.0
2020	378.7	381.5	314.9	342.5	297.7	349.8	335.9	320.3	320.8	340.4	320.8	276.6	320.8
Húmido	351.2	334.8	279.1	283.7	261.8	297.6	272.8	283.9	284.7	294.6	284.7	217.4	284.7
Medio	382.9	381.5	318.2	340.9	304.3	353.2	331.0	326.1	326.7	342.4	326.7	265.5	326.7
Seco	441.0	444.5	364.5	394.1	359.5	409.4	378.9	370.6	371.0	392.5	371.0	312.8	371.0

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### 6.37 GRÃO DE BICO

Tabela 111. Necessidades hídricas totais anuais do grão de bico (mm)

Ano	Estuário	Sado	Oeste	Vila Franca de Xira	Sorraia	Almourol	Castelo de Bode	Castelo de Bode 2	Belver	Pracana	Fratel	Lis	Cedilho
2003	204.6	187.7	135.6	159.1	121.2	141.2	138.7	152.6	153.6	157.9	153.6	75.5	153.6
2004	282.8	206.1	204.6	218.5	206.4	175.7	148.6	225.3	225.8	197.1	225.8	58.0	225.8
2005	287.7	195.6	198.9	220.7	189.4	193.8	186.8	219.6	220.5	220.0	220.5	104.2	220.5
2006	259.9	211.3	161.5	185.8	147.1	158.7	182.2	178.9	179.8	191.4	179.8	122.8	179.8
2007	253.3	192.9	156.2	161.5	156.3	126.8	117.2	175.4	175.9	161.4	175.9	8.7	175.9
2008	98.0	30.2	5.3	15.9	7.6	2.4	1.6	2.6	0.0	0.5	0.0	0.0	0.0
2009	276.9	228.4	158.6	191.7	157.5	166.2	150.2	176.6	177.2	176.7	177.2	60.6	177.2
2010	164.3	95.8	76.6	109.6	62.5	101.8	86.3	93.6	94.5	92.3	94.5	60.5	94.5
2011	137.9	80.1	102.2	94.1	97.8	120.2	72.6	122.7	122.1	100.5	122.1	26.4	122.1
2012	141.2	94.5	67.2	93.4	69.9	75.0	69.8	87.3	87.9	90.8	87.9	8.7	87.9
2013	252.1	212.6	165.4	185.4	151.4	162.2	158.1	182.8	183.8	186.4	183.8	85.4	183.8
2014	213.8	171.9	112.3	151.3	98.5	165.7	137.0	130.3	131.3	143.8	131.3	47.9	131.3
2015	252.0	232.3	162.6	217.2	165.4	265.9	204.5	184.5	185.1	194.2	185.1	104.9	185.1
2016	93.5	60.4	26.1	38.4	18.3	11.8	27.2	38.9	39.4	42.7	39.4	0.0	39.4
2017	273.0	229.7	153.0	201.7	143.1	202.1	164.0	174.9	175.9	179.9	175.9	94.6	175.9
2018	126.4	101.1	34.6	36.3	17.2	17.2	15.3	40.0	40.7	40.8	40.7	9.0	40.7
2019	227.6	246.8	132.3	158.5	121.8	137.6	141.0	151.5	152.3	158.6	152.3	68.9	152.3
2020	116.3	70.9	61.4	68.7	47.8	42.8	53.5	79.1	80.1	73.9	80.1	10.5	80.1
Húmido	123.8	80.1	60.2	68.7	47.8	42.8	53.5	79.1	80.1	73.2	80.1	8.7	80.1
Medio	227.6	192.9	135.6	159.1	121.9	141.4	137.7	152.6	153.6	157.9	153.6	60.8	153.6
Seco	280.9	229.7	167.5	215.0	167.3	193.3	176.2	185.3	185.1	193.4	185.1	101.3	185.1

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### 6.38 NABO

Tabela 112. Necessidades hídricas totais anuais do nabo (mm)

Ano	Estuário	Sado	Oeste	Vila Franca de Xira	Sorraia	Almourol	Castelo de Bode	Castelo de Bode 2	Belver	Pracana	Fratel	Lis	Cedilho
2003	39.5	36.6	23.2	28.2	14.6	17.1	22.1	25.6	26.0	27.9	26.0	18.2	26.0
2004	47.4	36.6	13.0	13.9	7.3	6.7	13.7	16.5	16.5	24.2	16.5	1.3	16.5
2005	66.7	56.6	37.3	49.6	28.8	29.9	38.6	42.1	42.5	47.5	42.5	31.2	42.5
2006	21.4	18.9	13.5	11.8	6.4	5.4	10.0	13.9	14.2	13.9	14.2	9.1	14.2
2007	102.9	53.1	93.0	85.3	82.4	18.8	68.4	98.7	99.1	87.2	99.1	89.5	99.1
2008	79.0	41.3	20.5	45.4	10.6	77.8	40.9	24.4	24.8	33.0	24.8	3.6	24.8
2009	66.7	48.4	53.9	36.1	42.5	17.2	33.9	59.8	60.2	55.4	60.2	16.2	60.2
2010	41.3	26.0	28.0	31.0	19.6	17.9	24.8	31.4	31.9	30.2	31.9	14.0	31.9
2011	97.9	87.3	94.2	61.7	84.1	21.3	54.7	101.0	101.5	92.1	101.5	42.7	101.5
2012	37.4	31.9	27.4	27.7	19.3	17.8	25.0	28.3	28.3	29.7	28.3	21.7	28.3
2013	53.7	29.5	29.1	25.1	20.9	16.9	19.5	30.5	30.7	30.9	30.7	9.1	30.7
2014	3.8	1.2	1.2	1.2	0.7	0.2	0.7	1.2	1.2	1.1	1.2	0.6	1.2
2015	32.8	34.2	7.8	7.5	4.3	4.2	5.8	8.7	8.3	8.3	8.3	1.9	8.3
2016	61.2	59.0	30.7	41.4	21.6	23.3	33.3	36.0	36.6	39.3	36.6	32.3	36.6
2017	128.6	160.4	56.9	92.4	46.4	91.9	82.3	62.1	62.5	74.9	62.5	55.4	62.5
2018	83.9	74.3	55.2	64.9	44.6	42.6	53.1	60.9	61.3	61.3	61.3	50.9	61.3
2019	53.9	40.1	33.4	40.4	23.8	29.8	32.2	38.5	38.9	41.9	38.9	17.9	38.9
2020	43.2	30.7	18.4	21.9	13.1	12.7	17.6	18.8	18.9	20.0	18.9	18.6	18.9
Húmido	35.9	29.5	14.2	14.9	7.3	7.5	13.8	16.3	16.5	18.2	16.5	3.6	16.5
Medio	57.5	40.1	28.8	36.1	20.8	17.9	26.3	31.5	31.9	35.3	31.9	18.9	31.9
Seco	97.9	74.3	56.9	66.0	46.5	42.6	53.7	62.1	62.5	62.5	62.5	52.2	62.5

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### 6.39 PISTÁCIO

Tabela 113. Necessidades hídricas totais anuais do pistácio (mm)

Ano	Estuário	Sado	Oeste	Vila Franca de Xira	Sorraia	Almourol	Castelo de Bode	Castelo de Bode 2	Belver	Pracana	Fratel	Lis	Cedilho
2003	251.2	260.2	194.6	206.1	169.6	206.4	186.7	197.5	198.3	207.4	198.3	130.1	198.3
2004	376.5	292.8	278.5	298.9	288.4	254.9	229.1	302.6	302.2	279.2	302.2	115.2	302.2
2005	403.8	315.0	280.9	332.8	293.2	321.6	290.2	306.3	306.8	307.4	306.8	170.9	306.8
2006	300.2	247.3	179.8	188.1	162.6	174.5	188.6	190.5	191.3	213.0	191.3	133.6	191.3
2007	306.7	212.3	188.2	199.0	189.4	159.3	155.3	217.4	218.2	205.1	218.2	5.4	218.2
2008	181.0	116.7	59.5	79.6	38.7	54.0	53.3	62.5	63.0	66.9	63.0	0.0	63.0
2009	376.6	283.5	268.7	288.2	288.6	241.0	249.5	302.8	303.3	298.4	303.3	111.5	303.3
2010	253.6	170.3	148.0	178.1	125.1	160.1	146.0	151.0	151.7	150.9	151.7	91.6	151.7
2011	257.4	177.3	216.6	213.6	218.8	234.2	192.9	244.7	245.0	214.6	245.0	97.4	245.0
2012	295.3	225.2	205.1	244.8	220.7	237.5	213.7	234.2	234.5	241.1	234.5	80.2	234.5
2013	316.2	290.5	229.3	245.6	208.9	230.5	218.1	237.2	238.0	245.1	238.0	135.9	238.0
2014	249.6	220.5	158.8	192.1	138.1	221.4	181.3	166.0	166.8	185.0	166.8	93.9	166.8
2015	376.8	361.7	259.6	326.8	273.1	397.3	316.8	287.6	288.2	304.9	288.2	164.2	288.2
2016	156.0	147.0	86.1	96.0	62.8	77.3	82.4	89.0	89.8	97.2	89.8	0.0	89.8
2017	356.3	329.0	231.9	282.8	219.4	287.9	243.7	247.7	248.5	256.5	248.5	166.3	248.5
2018	157.9	152.8	61.6	65.6	37.8	57.4	33.8	65.7	66.5	70.7	66.5	0.0	66.5
2019	332.9	337.2	200.3	236.8	211.1	231.5	195.1	229.8	229.8	228.9	229.8	98.6	229.8
2020	216.7	157.5	132.2	132.2	120.0	107.6	108.7	142.6	142.3	136.0	142.3	49.6	142.3
Húmido	216.7	157.5	132.2	132.2	120.0	107.6	108.7	142.6	142.3	136.4	142.3	5.4	142.3
Medio	301.4	247.3	201.6	213.6	204.4	228.7	200.1	229.1	229.8	231.1	229.8	98.6	229.8
Seco	376.5	329.0	268.4	298.9	286.3	287.9	259.8	301.6	302.2	297.6	302.2	164.2	302.2

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### 6.40 SOJA

Tabela 114. Necessidades hídricas totais anuais da soja (mm)

Ano	Estuário	Sado	Oeste	Vila Franca de Xira	Sorraia	Almourol	Castelo de Bode	Castelo de Bode 2	Belver	Pracana	Fratel	Lis	Cedilho
2003	684.3	659.1	552.9	642.3	572.8	644.3	608.3	591.2	591.7	624.3	591.7	486.2	591.7
2004	714.5	643.2	537.1	598.3	556.2	603.4	538.4	575.4	575.8	596.7	575.8	341.9	575.8
2005	737.1	635.3	613.0	696.6	637.0	677.0	665.2	656.0	656.4	700.9	656.4	566.1	656.4
2006	709.2	632.6	546.9	652.0	572.8	651.9	637.5	591.2	591.7	652.4	591.7	509.7	591.7
2007	653.4	511.1	534.6	555.0	562.9	579.3	523.8	581.3	581.1	582.5	581.1	315.0	581.1
2008	639.2	527.0	500.6	542.5	505.8	555.1	529.8	539.3	540.2	561.0	540.2	412.9	540.2
2009	686.8	604.9	504.0	594.5	530.8	596.8	545.3	549.0	549.4	569.4	549.4	425.2	549.4
2010	719.8	600.9	579.4	686.8	597.6	694.2	661.1	623.1	623.4	656.7	623.4	563.5	623.4
2011	627.6	603.6	588.5	574.4	610.9	607.0	594.9	629.5	630.0	629.9	630.0	459.5	630.0
2012	701.3	635.3	561.3	635.1	578.7	663.8	619.8	605.6	606.2	635.0	606.2	431.8	606.2
2013	742.3	667.0	601.1	679.0	626.4	700.7	658.8	645.4	645.8	686.3	645.8	526.8	645.8
2014	614.2	570.6	456.8	565.4	478.7	642.6	565.5	496.0	496.6	542.1	496.6	434.8	496.6
2015	732.8	744.9	578.5	680.8	598.7	774.8	681.1	617.7	618.1	662.6	618.1	522.9	618.1
2016	709.4	715.8	546.0	654.3	556.6	683.4	638.8	588.6	589.1	638.9	589.1	460.1	589.1
2017	711.4	711.9	530.8	651.3	544.8	707.8	622.1	574.0	574.5	616.2	574.5	458.2	574.5
2018	589.1	581.1	398.2	482.0	416.4	539.7	448.6	435.4	435.8	475.7	435.8	301.0	435.8
2019	674.0	682.8	531.1	622.1	555.1	658.9	595.0	574.1	574.5	604.8	574.5	430.4	574.5
2020	698.7	652.5	546.2	636.0	562.2	663.9	620.6	587.6	587.7	628.3	587.7	473.5	587.7
Húmido	639.2	581.1	507.4	565.5	532.0	596.8	534.1	549.0	549.4	569.4	549.4	411.8	549.4
Medio	701.6	635.3	546.6	635.2	563.7	658.4	615.2	588.1	589.1	622.6	589.1	459.1	589.1
Seco	732.8	711.9	588.5	680.8	612.4	700.7	658.1	629.9	630.0	674.4	630.0	528.7	630.0



Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

## ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

### 6.41 FIGO

Tabela 115. Necessidades hídricas totais anuais do figo (mm)

Ano	Estuário	Sado	Oeste	Vila Franca de Xira	Sorraia	Almourol	Castelo de Bode	Castelo de Bode 2	Belver	Pracana	Fratel	Lis	Cedilho
2003	400.3	409.5	321.0	351.9	289.5	327.0	319.5	324.6	325.5	342.2	325.5	268.3	325.5
2004	466.9	442.2	331.1	335.6	299.9	316.8	283.3	334.9	336.0	346.3	336.0	142.3	336.0
2005	500.6	452.7	412.0	437.1	380.5	398.1	400.6	415.6	416.5	441.4	416.5	343.4	416.5
2006	400.4	376.8	303.5	329.8	272.0	299.7	310.9	307.1	308.0	341.0	308.0	246.2	308.0
2007	363.1	276.5	308.9	281.9	277.8	278.3	246.3	312.7	313.8	301.7	313.8	151.1	313.8
2008	354.9	303.3	268.1	273.8	236.9	296.7	270.1	271.9	273.0	286.5	273.0	187.8	273.0
2009	423.7	396.7	296.1	315.7	264.9	293.9	275.3	299.9	301.0	304.6	301.0	204.3	301.0
2010	421.4	360.5	350.1	377.0	318.7	357.7	353.4	353.8	354.7	366.4	354.7	312.1	354.7
2011	385.2	403.7	391.7	320.4	360.5	302.9	318.6	395.6	396.7	382.2	396.7	257.9	396.7
2012	399.2	399.0	326.8	342.0	295.3	351.1	331.9	330.5	331.3	348.0	331.3	231.6	331.3
2013	464.6	443.3	378.1	393.3	346.7	386.8	370.7	381.8	382.7	402.9	382.7	298.7	382.7
2014	318.7	309.2	210.9	258.6	179.8	295.8	251.2	214.7	215.8	244.2	215.8	171.5	215.8
2015	426.1	476.0	325.2	353.1	294.1	392.4	344.4	329.1	330.2	348.7	330.2	281.6	330.2
2016	415.6	457.3	324.4	362.5	292.5	355.3	347.3	328.1	329.0	357.6	329.0	260.8	329.0
2017	491.4	526.2	352.1	417.6	320.9	440.2	376.8	355.9	357.0	380.7	357.0	302.6	357.0
2018	358.3	379.2	228.4	254.0	197.3	262.0	216.4	232.2	233.3	252.7	233.3	162.2	233.3
2019	407.4	444.5	320.5	353.1	289.4	356.9	322.6	324.4	325.5	339.9	325.5	220.9	325.5
2020	392.2	397.8	302.3	328.0	270.8	325.0	316.3	306.0	306.8	328.8	306.8	247.9	306.8
Húmido	363.1	360.5	296.1	281.9	264.9	295.8	275.3	299.9	301.0	307.5	301.0	171.5	301.0
Medio	407.4	403.7	324.4	342.0	292.5	327.0	323.0	328.1	329.0	345.5	329.0	247.9	329.0
Seco	466.9	457.3	378.1	393.3	346.7	392.4	370.7	381.8	382.7	400.0	382.7	302.6	382.7

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ANEXO 8 – Necessidades Hídricas das Culturas

## ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

### 6.42 CASTANHEIRO

Tabela 116. Necessidades hídricas totais anuais do castanheiro (mm)

Ano	Estuário	Sado	Oeste	Vila Franca de Xira	Sorraia	Almourol	Castelo de Bode	Castelo de Bode 2	Belver	Pracana	Fratel	Lis	Cedilho
2003	400.3	409.5	321.0	351.9	289.5	327.0	319.5	324.6	325.5	342.2	325.5	268.3	325.5
2004	466.9	442.2	331.1	335.6	299.9	316.8	283.3	334.9	336.0	346.3	336.0	142.3	336.0
2005	500.6	452.7	412.0	437.1	380.5	398.1	400.6	415.6	416.5	441.4	416.5	343.4	416.5
2006	400.4	376.8	303.5	329.8	272.0	299.7	310.9	307.1	308.0	341.0	308.0	246.2	308.0
2007	363.1	276.5	308.9	281.9	277.8	278.3	246.3	312.7	313.8	301.7	313.8	151.1	313.8
2008	354.9	303.3	268.1	273.8	236.9	296.7	270.1	271.9	273.0	286.5	273.0	187.8	273.0
2009	423.7	396.7	296.1	315.7	264.9	293.9	275.3	299.9	301.0	304.6	301.0	204.3	301.0
2010	421.4	360.5	350.1	377.0	318.7	357.7	353.4	353.8	354.7	366.4	354.7	312.1	354.7
2011	385.2	403.7	391.7	320.4	360.5	302.9	318.6	395.6	396.7	382.2	396.7	257.9	396.7
2012	399.2	399.0	326.8	342.0	295.3	351.1	331.9	330.5	331.3	348.0	331.3	231.6	331.3
2013	464.6	443.3	378.1	393.3	346.7	386.8	370.7	381.8	382.7	402.9	382.7	298.7	382.7
2014	318.7	309.2	210.9	258.6	179.8	295.8	251.2	214.7	215.8	244.2	215.8	171.5	215.8
2015	426.1	476.0	325.2	353.1	294.1	392.4	344.4	329.1	330.2	348.7	330.2	281.6	330.2
2016	415.6	457.3	324.4	362.5	292.5	355.3	347.3	328.1	329.0	357.6	329.0	260.8	329.0
2017	491.4	526.2	352.1	417.6	320.9	440.2	376.8	355.9	357.0	380.7	357.0	302.6	357.0
2018	358.3	379.2	228.4	254.0	197.3	262.0	216.4	232.2	233.3	252.7	233.3	162.2	233.3
2019	407.4	444.5	320.5	353.1	289.4	356.9	322.6	324.4	325.5	339.9	325.5	220.9	325.5
2020	392.2	397.8	302.3	328.0	270.8	325.0	316.3	306.0	306.8	328.8	306.8	247.9	306.8
Húmido	363.1	360.5	296.1	281.9	264.9	295.8	275.3	299.9	301.0	307.5	301.0	171.5	301.0
Medio	407.4	403.7	324.4	342.0	292.5	327.0	323.0	328.1	329.0	345.5	329.0	247.9	329.0
Seco	466.9	457.3	378.1	393.3	346.7	392.4	370.7	381.8	382.7	400.0	382.7	302.6	382.7

Valorização dos Recursos Hídricos para a Agricultura no Vale do Tejo e Oeste

ANEXO 8 – Necessidades Hídricas das Culturas

## ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

### 6.43 DIOSPIRO

Tabela 117. Necessidades hídricas totais anuais do diospiro (mm)

Ano	Estuário	Sado	Oeste	Vila Franca de Xira	Sorraia	Almourol	Castelo de Bode	Castelo de Bode 2	Belver	Pracana	Fratel	Lis	Cedilho
2003	517.1	533.2	425.4	466.3	393.3	442.8	431.3	428.5	429.3	453.0	429.3	379.2	429.3
2004	604.5	578.7	443.1	458.1	411.9	444.8	409.9	446.9	448.0	471.7	448.0	261.3	448.0
2005	638.8	596.2	535.2	577.1	504.1	531.9	535.8	539.1	540.2	577.0	540.2	497.4	540.2
2006	514.7	507.5	408.0	444.7	376.9	416.9	423.3	411.9	413.0	453.9	413.0	359.9	413.0
2007	554.3	443.3	500.9	467.5	469.4	426.9	428.8	504.3	505.2	485.2	505.2	347.1	505.2
2008	511.2	446.8	402.2	436.5	371.1	477.1	426.3	406.1	407.2	432.9	407.2	345.9	407.2
2009	577.6	543.7	442.3	459.8	410.8	434.4	409.7	446.0	446.8	456.8	446.8	331.7	446.8
2010	553.2	493.5	483.1	512.3	451.7	490.7	492.1	486.8	487.7	507.0	487.7	448.6	487.7
2011	547.4	567.0	553.1	482.6	521.7	457.2	478.7	556.8	557.7	548.7	557.7	426.4	557.7
2012	536.9	555.3	447.0	475.7	415.5	503.5	461.7	450.6	451.5	477.6	451.5	350.0	451.5
2013	582.4	557.7	490.1	513.0	458.7	516.3	493.4	493.8	494.7	523.3	494.7	414.3	494.7
2014	394.5	393.2	283.2	333.3	252.1	379.8	329.5	287.1	288.2	321.2	288.2	259.1	288.2
2015	549.7	612.5	437.6	470.3	406.2	526.5	463.8	441.3	442.2	469.4	442.2	376.8	442.2
2016	581.2	641.7	468.0	524.6	436.5	528.0	506.4	471.6	472.5	512.3	472.5	414.8	472.5
2017	652.3	725.7	488.5	567.6	457.4	610.5	546.8	492.4	493.5	535.3	493.5	451.5	493.5
2018	510.0	541.3	363.0	403.2	331.5	414.4	366.9	366.6	367.5	397.4	367.5	316.2	367.5
2019	545.1	591.5	448.9	487.8	417.8	498.8	456.5	452.7	453.8	476.1	453.8	334.1	453.8
2020	550.9	560.0	441.9	481.9	410.8	475.2	456.2	445.7	446.8	479.0	446.8	358.3	446.8
Húmido	514.7	493.5	408.0	444.7	376.9	426.9	399.5	411.9	413.0	431.5	413.0	331.7	413.0
Medio	550.9	557.7	447.0	475.7	415.5	477.1	455.8	450.6	451.5	476.4	451.5	359.9	451.5
Seco	604.5	612.5	500.9	524.6	469.4	528.0	516.2	504.3	505.2	536.8	505.2	448.6	505.2

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### 6.44 FIGO DA INDIA

Tabela 118. Necessidades hídricas totais anuais do figo da india (mm)

Ano	Estuário	Sado	Oeste	Vila Franca de Xira	Sorraia	Almourol	Castelo de Bode	Castelo de Bode 2	Belver	Pracana	Fratel	Lis	Cedilho
2003	155.4	471.3	307.2	112.8	79.4	85.8	96.3	114.4	115.5	118.2	115.5	320.3	115.5
2004	150.6	540.2	350.7	88.3	67.8	54.4	50.1	103.0	103.8	91.4	103.8	210.0	103.8
2005	135.6	641.7	439.1	98.2	68.9	65.8	79.9	103.9	105.0	106.5	105.0	439.3	105.0
2006	113.4	458.5	283.6	52.7	25.1	19.8	48.9	57.2	58.3	77.1	58.3	303.9	58.3
2007	78.5	428.2	345.3	15.2	13.0	7.4	10.0	29.5	29.2	21.9	29.2	230.4	29.2
2008	60.4	351.2	237.9	20.3	11.0	3.7	10.5	24.0	23.3	22.4	23.3	242.1	23.3
2009	95.9	560.0	358.5	37.3	9.0	11.1	15.2	19.6	18.7	18.7	18.7	299.1	18.7
2010	100.6	429.3	318.9	58.5	35.0	30.8	46.7	70.1	71.2	65.1	71.2	380.9	71.2
2011	85.4	477.2	375.1	52.1	59.9	38.5	55.5	94.8	95.7	80.0	95.7	335.2	95.7
2012	104.1	535.5	366.6	63.7	29.6	53.6	54.3	64.5	65.3	69.0	65.3	324.1	65.3
2013	133.2	523.8	355.3	72.5	36.6	52.4	50.5	71.5	72.3	77.1	72.3	371.6	72.3
2014	84.2	372.2	209.0	40.7	11.1	43.3	25.7	24.9	24.5	32.7	24.5	230.4	24.5
2015	148.4	597.3	332.6	108.1	65.4	101.0	95.3	100.4	101.5	106.3	101.5	324.3	101.5
2016	87.7	527.3	294.7	43.6	19.3	23.4	34.9	44.7	45.5	51.2	45.5	315.0	45.5
2017	115.6	682.5	357.3	72.5	33.9	49.0	57.3	68.9	70.0	72.2	70.0	406.6	70.0
2018	61.4	458.5	216.3	4.7	2.4	0.0	0.0	0.0	0.0	0.0	0.0	209.2	0.0
2019	119.2	591.5	308.3	79.0	40.9	62.4	62.0	75.9	77.0	80.9	77.0	273.6	77.0
2020	100.6	462.0	282.2	61.4	33.1	35.4	48.1	68.0	68.8	66.9	68.8	285.8	68.8
Húmido	84.2	429.3	271.1	37.3	11.1	11.1	16.9	24.9	24.5	23.3	24.5	230.4	24.5
Medio	104.1	523.8	324.8	61.4	33.9	43.3	48.4	68.9	70.0	69.5	70.0	315.0	70.0
Seco	148.4	597.3	378.1	98.2	67.8	65.8	79.6	103.0	103.8	108.0	103.8	380.9	103.8

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## ESTUDO DE VALORIZAÇÃO DOS RECURSOS HÍDRICOS PARA A AGRICULTURA NO VALE DO TEJO E OESTE

### 6.45 ARROZ

Tabela 119. Necessidades hídricas totais anuais do arroz (mm)

Ano	Estuário	Sado	Oeste	Vila Franca de Xira	Sorraia	Almourol	Castelo de Bode	Castelo de Bode 2	Belver	Pracana	Fratel	Lis	Cedilho
2003	1265.8	1256.9	1151.0	1276.6	1162.1	1379.9	1379.9	1305.7	1377.9	1393.5	1415.5	1449.8	1449.8
2004	1237.3	1207.7	1103.5	1216.8	1114.6	1320.6	1320.6	1258.2	1318.7	1335.9	1397.3	1451.8	1451.8
2005	1208.4	1182.4	1160.3	1237.3	1171.5	1359.5	1359.5	1315.1	1376.0	1395.8	1435.6	1473.1	1473.1
2006	1289.8	1304.7	1237.7	1353.6	1248.8	1395.5	1395.5	1392.4	1393.3	1406.5	1439.5	1479.3	1479.3
2007	1343.6	1389.8	1252.0	1401.1	1263.1	1473.4	1473.4	1406.6	1475.2	1489.7	1527.1	1555.5	1555.5
2008	1430.5	1471.5	1338.5	1503.0	1349.6	1515.7	1515.7	1493.2	1531.4	1565.3	1606.0	1652.5	1652.5
2009	1410.4	1457.0	1326.1	1469.3	1337.2	1471.8	1471.8	1481.0	1492.4	1541.0	1606.9	1671.2	1671.2
2010	1298.3	1385.2	1234.4	1414.3	1245.6	1501.7	1501.7	1389.2	1548.7	1605.3	1677.7	1744.8	1744.8
2011	1368.8	1406.2	1295.3	1463.9	1306.4	1513.3	1513.3	1450.0	1551.6	1607.0	1681.2	1747.1	1747.1
2012	1382.0	1458.4	1270.6	1436.4	1281.7	1511.3	1511.3	1425.4	1588.9	1683.0	1717.9	1735.4	1735.4
2013	1350.0	1434.9	1247.0	1361.4	1258.1	1449.4	1449.4	1401.7	1526.3	1629.0	1678.7	1705.6	1705.6
2014	1364.7	1414.8	1243.6	1446.0	1254.7	1495.9	1495.9	1398.3	1548.8	1633.0	1691.8	1726.3	1726.3
2015	1279.6	1295.5	1190.2	1363.9	1201.3	1450.1	1450.1	1344.9	1529.7	1611.8	1641.2	1642.5	1642.5
2016	1299.4	1355.1	1231.0	1387.0	1242.1	1492.0	1492.0	1385.8	1577.2	1664.9	1710.4	1729.0	1729.0
2017	1192.4	1243.7	1104.3	1247.5	1115.4	1411.3	1411.3	1259.0	1435.0	1458.7	1486.4	1499.7	1499.7
2018	1181.2	1242.8	1099.1	1212.4	1110.2	1336.3	1336.3	1254.0	1393.4	1457.8	1513.6	1543.5	1543.5
2019	1294.6	1312.6	1241.8	1358.9	1252.9	1439.1	1439.1	1396.5	1485.6	1534.7	1566.6	1584.9	1584.9
2020	1333.6	1371.3	1258.9	1374.0	1270.0	1487.7	1487.7	1413.6	1532.4	1592.5	1641.7	1676.1	1676.1
Húmido	1237.3	1243.7	1151.0	1247.5	1162.1	1379.9	1379.9	1305.7	1393.3	1406.5	1439.5	1479.3	1479.3
Medio	1299.4	1371.3	1241.8	1374.0	1252.9	1471.8	1471.8	1396.5	1526.3	1565.3	1606.9	1652.5	1652.5
Seco	1382.0	1457.0	1295.3	1463.9	1306.4	1511.3	1511.3	1450.0	1551.6	1633.0	1691.8	1735.4	1735.4

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### 6.46 ESTUFAS

Tabela 120. Necessidades hídricas totais anuais em estufa (mm)

Ano	Estuário	Sado	Oeste	Vila Franca de Xira	Sorraia	Almourol	Castelo de Bode	Castelo de Bode 2	Belver	Pracana	Fratel	Lis	Cedilho
2003	619.9	619.9	619.9	619.9	619.9	619.9	619.9	619.9	619.9	619.9	619.9	619.9	619.9
2004	783.2	783.2	783.2	783.2	783.2	783.2	783.2	783.2	783.2	783.2	783.2	783.2	783.2
2005	900.0	900.0	900.0	900.0	900.0	900.0	900.0	900.0	900.0	900.0	900.0	900.0	900.0
2006	643.8	643.8	643.8	643.8	643.8	643.8	643.8	643.8	643.8	643.8	643.8	643.8	643.8
2007	896.0	896.0	896.0	896.0	896.0	896.0	896.0	896.0	896.0	896.0	896.0	896.0	896.0
2008	550.9	550.9	550.9	550.9	550.9	550.9	550.9	550.9	550.9	550.9	550.9	550.9	550.9
2009	894.7	894.7	894.7	894.7	894.7	894.7	894.7	894.7	894.7	894.7	894.7	894.7	894.7
2010	702.2	702.2	702.2	702.2	702.2	702.2	702.2	702.2	702.2	702.2	702.2	702.2	702.2
2011	865.5	865.5	865.5	865.5	865.5	865.5	865.5	865.5	865.5	865.5	865.5	865.5	865.5
2012	789.8	789.8	789.8	789.8	789.8	789.8	789.8	789.8	789.8	789.8	789.8	789.8	789.8
2013	785.8	785.8	785.8	785.8	785.8	785.8	785.8	785.8	785.8	785.8	785.8	785.8	785.8
2014	554.9	554.9	554.9	554.9	554.9	554.9	554.9	554.9	554.9	554.9	554.9	554.9	554.9
2015	752.7	752.7	752.7	752.7	752.7	752.7	752.7	752.7	752.7	752.7	752.7	752.7	752.7
2016	611.9	611.9	611.9	611.9	611.9	611.9	611.9	611.9	611.9	611.9	611.9	611.9	611.9
2017	828.3	828.3	828.3	828.3	828.3	828.3	828.3	828.3	828.3	828.3	828.3	828.3	828.3
2018	569.5	569.5	569.5	569.5	569.5	569.5	569.5	569.5	569.5	569.5	569.5	569.5	569.5
2019	739.4	739.4	739.4	739.4	739.4	739.4	739.4	739.4	739.4	739.4	739.4	739.4	739.4
2020	623.9	623.9	623.9	623.9	623.9	623.9	623.9	623.9	623.9	623.9	623.9	623.9	623.9
Húmido	611.9	611.9	611.9	611.9	611.9	611.9	611.9	611.9	611.9	611.9	611.9	611.9	611.9
Medio	752.7	752.7	752.7	752.7	752.7	752.7	752.7	752.7	752.7	752.7	752.7	752.7	752.7
Seco	894.7	894.7	894.7	894.7	894.7	894.7	894.7	894.7	894.7	894.7	894.7	894.7	894.7