



**GERMANY**

**Irrigated crop calendar**

**2006**

Irrigated crops	Area	Crop area as percentage of the full control equipped and actually irrigated area by month											
	1000 ha	J	F	M	A	M	J	J	A	S	O	N	D
Barley	19				8	8	8	8	8				
Maize	41				17	17	17	17	17				
Other cereals	30				13	13	13	13	13				
Vegetables	11				5	5	5	5	5				
Fruits	38	16	16	16	16	16	16	16	16	16	16	16	16
Rapeseed	13				5	5	5	5	5				
Sunflower	2				1	1	1	1	1				
Potatoes	23				10	10	10	10	10				
Pulses	14				6	6	6	6	6				
Sugar beet	36				15	15	15	15	15	15			
Pasture permanent	9	4	4	4	4	4	4	4	4	4	4	4	4
<b>Harvested irrigated crop area [AHI<sub>full</sub>]</b>	<b>235</b>												
<b>Area equipped for full control irrigation actually irrigated [AAI<sub>full</sub>]</b>	<b>235</b>	<b>20</b>	<b>20</b>	<b>20</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>35</b>	<b>20</b>	<b>20</b>	<b>20</b>
<b>Cropping intensity (%) = 100 x [AHI<sub>full</sub>]/[AAI<sub>full</sub>]</b>	<b>100</b>												
<b>Area equipped for full control irrigation [AEI<sub>full</sub>]</b>	<b>516</b>												
<b>% of full control equipped actually irrigated = 100 x [AAI<sub>full</sub>]/[AEI<sub>full</sub>]</b>	<b>45</b>												
<b>Total area equipped for irrigation [AEI<sub>tot</sub>]</b>	<b>516</b>												



## Narrative Germany

$AEI_{tot}$  and  $AEI_{full}$  are 515 730 ha and  $AAI_{full}$  is 234 595 ha in 2006. Both are estimation from the Global Map of Irrigation Areas (Siebert *et al.*, 2010). The crop calendar is adapted from AT 2030/2050 (FAO, 2006).  $AHI_{full}$  is estimated to be equal to  $AAI_{full}$ . The main irrigated crops are cereals (38 percent), fruit (16 percent) and sugar beet (15 percent). Potatoes, pulses, rapeseed, vegetables, permanent pastures (grasslands are considered permanent pastures) and sunflowers are also sometimes irrigated. Except permanent crops which are irrigated almost the whole year, in particular fruit trees (for water deficit in summer and frost protection in winter/spring), the rest of the irrigated crops are temporary and grown in summer only, from April to August or September (for sugar beet).

## References

**FAO.** 2006. *World agriculture: towards 2030/2050*. Interim report. FAO, Global Perspective Studies Unit. Rome, Italy. Available at [http://www.fao.org/fileadmin/user\\_upload/esag/docs/Interim\\_report\\_AT2050web.pdf](http://www.fao.org/fileadmin/user_upload/esag/docs/Interim_report_AT2050web.pdf), accessed in November 2012.

**Siebert, S., Burke, J., Faures, J. M., Frenken, K., Hoogeveen, J., Döll, P., and Portmann, F. T.** 2010. Ground water use for irrigation - a global inventory. *Hydrol. Earth Syst. Sci.*, 14, 1863–1880. Available at <http://www.fao.org/docrep/013/al816e/al816e00.pdf>, accessed in June 2012.