



JAPAN

Irrigated crop calendar

2006

Irrigated crops	Area 1000 ha	Crop area as percentage of the full control actually irrigated area by month											
		J	F	M	A	M	J	J	A	S	O	N	D
Wheat	127	5	5	5	5						5	5	5
Rice one	1000					38	38	38	38	38			
Rice two	691	27	27	27								27	27
Other cereals	56					2	2	2	2	2			
Vegetables	269					10	10	10	10	10			
Soybeans	71					3	3	3	3	3			
Potatoes	46					2	2	2	2	2			
Pulses	35					1	1	1	1	1			
Sugarcane	16	1	1	1	1	1	1	1	1	1	1	1	1
Sugar beet	47					2	2	2	2	2	2		
Cotton	267					10	10	10	10	10	10	10	
Pasture permanent	332	13	13	13	13	13	13	13	13	13	13	13	13
Harvested irrigated crop area [AHI_{full}]	2 957												
Area equipped for full control irrigation actually irrigated [AAI_{full}]	2 600	45	45	45	18	82	82	82	82	82	30	55	45
Cropping intensity (%) = 100 x [AHI_{full}]/[AAI_{full}]	114												
Area equipped for full control irrigation [AEI_{full}]	2 800												
% of full control equipped actually irrigated = 100 x [AAI_{full}]/[AEI_{full}]	93												
Total area equipped for irrigation [AEI_{tot}]													



Narrative Japan

AEI_{full} was 3 128 079 ha in 1993, consisting of 2 781 411 ha of irrigated paddy fields and 346 668 ha of irrigated upland fields. Siebert *et al.* (2010) estimated AEI_{full} at 2 800 000 ha and AAI_{full} at 2 600 000 ha. AHI_{full} , 2 957 000 ha, is taken from AT 2030/2050 (FAO, 2006), resulting in a cropping intensity of 114 percent. The main irrigated crops are rice, permanent pastures, vegetables, cotton and other cereals. Some soybean, sugar beets, potatoes, pulses and sugarcane are also irrigated. Temporary crops are mostly irrigated from May to September (or November for cotton only), except wheat which is grown from October to April and the second rice crop which is grown from November to March.

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, accessed in July 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.