



INDIA - EAST

(Arunachal Pradesh, Assam, Bihar, Orissa, West Bengal, Manipur, Meghalaya, Mizoram, Nagaland, Sikkim, Tripura)

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 | 4 314 | 46 | 46 | 46 | | | | | | | | 46 | 46 |
| Rice one | 3 203 | 34 | 34 | 34 | | | | | | | | 34 | 34 |
| Rice two | 3 203 | | | | | | 34 | 34 | 34 | 34 | 34 | | |
| Maize | 144 | | | | | | 2 | 2 | 2 | 2 | 2 | | |
| Millet | 131 | | | | | | 1 | 1 | 1 | 1 | 1 | | |
| Sorghum | 71 | | | | | | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | | |
| Barley | 48 | | | | | | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | | |
| Vegetables | 213 | 2 | 2 | 2 | | | | | | | | 2 | 2 |
| Fruits | 329 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| Soybeans | 154 | | | | | | 2 | 2 | 2 | 2 | 2 | | |
| Groundnuts | 86 | | | | | | 1 | 1 | 1 | 1 | 1 | | |
| Rapeseed | 60 | 0.6 | 0.6 | 0.6 | | | | | | | | 0.6 | 0.6 |
| Sesame | 27 | | | | | | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | | |
| Oil crops | 24 | | | | | | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | | |
| Potatoes and sweet potatoes | 86 | | | | | | 1 | 1 | 1 | 1 | 1 | | |
| Pulses | 238 | 3 | 3 | 3 | | | | | | | | 3 | 3 |
| Fodder temporary | 608 | 7 | 7 | 7 | | | | | | | | 7 | 7 |
| Fibre crops | 14 | | | | | | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | | |
| Tobacco | 35 | | | | | | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | | |
| Harvested irrigated crop area [AHI_{full}] | 12 988 | | | | | | | | | | | | |
| Area equipped for full control irrigation actually irrigated [AAI_{full}] | 9 349 | 96 | 96 | 96 | 4 | 4 | 47 | 47 | 47 | 47 | 47 | 96 | 96 |
| Cropping intensity (%) = 100 x [AHI_{full}]/[AAI_{full}] | 139 | | | | | | | | | | | | |
| Area equipped for full control irrigation [AEI_{full}] | 9 945 | | | | | | | | | | | | |
| % of full control equipped actually irrigated = 100 x [AAI_{full}]/[AEI_{full}] | 94 | | | | | | | | | | | | |
| Total area equipped for irrigation [AEI_{tot}] | | | | | | | | | | | | | |



INDIA - NORTH

(Haryana, Himachal Pradesh, Jammu & Kashmir, Punjab, Uttar Pradesh, Chandigarh, Delhi, Uttaranchal)

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 | 7 670 | 38 | 38 | 38 | | | | | | | | 38 | 38 |
| Rice one | 3 546 | 18 | 18 | 18 | | | | | | | | 18 | 18 |
| Rice two | 3 546 | | | | | | 18 | 18 | 18 | 18 | 18 | | |
| Maize | 432 | | | | | | 2 | 2 | 2 | 2 | 2 | | |
| Millet | 392 | | | | | | 2 | 2 | 2 | 2 | 2 | | |
| Sorghum | 214 | | | | | | 1 | 1 | 1 | 1 | 1 | | |
| Barley | 144 | | | | | | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | | |
| Vegetables | 465 | 2 | 2 | 2 | | | | | | | | 2 | 2 |
| Fruits | 721 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| Soybeans | 337 | | | | | | 2 | 2 | 2 | 2 | 2 | | |
| Rapeseed | 163 | 0.8 | 0.8 | 0.8 | | | | | | | | 0.8 | 0.8 |
| Sesame | 58 | | | | | | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | | |
| Oil crops | 52 | | | | | | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | | |
| Potatoes and sweet potatoes | 189 | | | | | | 1 | 1 | 1 | 1 | 1 | | |
| Pulses | 1 255 | 6 | 6 | 6 | | | | | | | | 6 | 6 |
| Sugarcane | 2 103 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| Fodder temporary | 1 330 | | | | | | 7 | 7 | 7 | 7 | 7 | | |
| Cotton | 1 189 | | | | 6 | 6 | 6 | 6 | 6 | 6 | 6 | | |
| Fibre crops | 31 | | | | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | | |
| Tobacco | 77 | | | | | | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | | |
| Harvested irrigated crop area [AHI_{full}] | 23 914 | | | | | | | | | | | | |
| Area equipped for full control irrigation actually irrigated [AAI_{full}] | 20 046 | 79 | 79 | 79 | 20 | 20 | 54 | 54 | 54 | 54 | 54 | 79 | 79 |
| Cropping intensity (%) = 100 x [AHI_{full}]/[AAI_{full}] | 119 | | | | | | | | | | | | |
| Area equipped for full control irrigation [AEI_{full}] | 21 325 | | | | | | | | | | | | |
| % of full control equipped actually irrigated = 100 x [AAI_{full}]/[AEI_{full}] | 94 | | | | | | | | | | | | |
| Total area equipped for irrigation [AEI_{tot}] | | | | | | | | | | | | | |



INDIA - SOUTH

(Andra Pradesh, Karnataka, Kerala, Tamil Nadu, Pondicherry)

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 | 240 | 2 | 2 | 2 | 2 | | | | | | | | | 2 |
| Rice one | 6 321 | 56 | 56 | 56 | 56 | | | | | | | | | 56 |
| Rice two | 1 000 | | | | | | | 9 | 9 | 9 | 9 | 9 | | |
| Barley | 106 | | | | | | | 1 | 1 | 1 | 1 | 1 | | |
| Maize | 317 | | | | | | | 3 | 3 | 3 | 3 | 3 | | |
| Millet | 287 | 3 | 3 | 3 | 3 | | | | | | | | | 3 |
| Sorghum | 157 | 1 | 1 | 1 | 1 | | | | | | | | | 1 |
| Vegetables | 239 | 2 | 2 | 2 | | | | | | | | | 2 | 2 |
| Fruits | 371 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Soybeans | 174 | | | | | | | 2 | 2 | 2 | 2 | 2 | | |
| Oil crops | 27 | | | | | | | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | | |
| Sesame | 30 | | | | | | | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | | |
| Groundnuts | 719 | | | | | | | 6 | 6 | 6 | 6 | 6 | | |
| Potatoes and sweet potatoes | 97 | | | | | | | 1 | 1 | 1 | 1 | 1 | | |
| Pulses | 136 | 1 | 1 | | | | | | | | | 1 | 1 | 1 |
| Sugarcane | 1 031 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| Fodder temporary | 684 | 6 | 6 | 6 | 6 | | | | | | | | | 6 |
| Cotton | 317 | 3 | | | | | | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Fibre crops | 16 | | | | | | | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | | |
| Tobacco | 39 | | | | | | | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | | |
| Harvested irrigated crop area [AHI_{full}] | 12 308 | | | | | | | | | | | | | |
| Area equipped for full control irrigation actually irrigated [AAI_{full}] | 11 308 | 87 | 84 | 83 | 80 | 12 | 12 | 38 | 38 | 38 | 39 | 41 | 87 | |
| Cropping intensity (%) = 100 x [AHI_{full}]/[AAI_{full}] | 109 | | | | | | | | | | | | | |
| Area equipped for full control irrigation [AEI_{full}] | 14 320 | | | | | | | | | | | | | |
| % of full control equipped actually irrigated = 100 x [AAI_{full}]/[AEI_{full}] | 79 | | | | | | | | | | | | | |
| Total area equipped for irrigation [AEI_{tot}] | | | | | | | | | | | | | | |



INDIA - WEST

(Gujarat, Madhya Pradesh, Maharashtra, Rajasthan, Goa, Daman & Diu, D & N Haveli, Chhattisgarh)

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 | 11 744 | 66 | 66 | 66 | 66 | 66 | 66 | | | | | | 66 |
| Rice | 2 059 | | | | | | | 11 | 11 | 11 | 11 | 11 | |
| Barley | 183 | | | | | | | 1 | 1 | 1 | 1 | 1 | |
| Maize | 547 | | | | | | | 3 | 3 | 3 | 3 | 3 | |
| Millet | 496 | | | | | | | 3 | 3 | 3 | 3 | 3 | |
| Sorghum | 271 | | | | | | | 2 | 2 | 2 | 2 | 2 | |
| Vegetables | 412 | 2 | 2 | 2 | | | | | | | | 2 | 2 |
| Fruits | 639 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| Soybeans | 299 | | | | | | | 2 | 2 | 2 | 2 | 2 | |
| Groundnuts | 268 | | | | | | | 1 | 1 | 1 | 1 | 1 | |
| Rapeseed | 320 | 2 | 2 | | | | | | | | 2 | 2 | 2 |
| Sesame | 51 | | | | | | | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | |
| Oil crops | 47 | | | | | | | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | |
| Potatoes and sweet potatoes | 167 | | | | | | | 1 | 1 | 1 | 1 | 1 | |
| Pulses | 1 764 | 10 | 10 | 10 | | | | | | | | 10 | 10 |
| Sugarcane | 990 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| Fodder temporary | 1 178 | 7 | 7 | 7 | 7 | | | | | | | | 7 |
| Cotton | 1 136 | | | | | 6 | 6 | 6 | 6 | 6 | 6 | 6 | |
| Fibre crops | 27 | | | | | | | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | |
| Tobacco | 68 | | | | | | | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | |
| Harvested irrigated crop area [AHI_{full}] | 22 666 | | | | | | | | | | | | |
| Area equipped for full control irrigation actually irrigated [AAI_{full}] | 17 912 | 95 | 95 | 93 | 81 | 81 | 81 | 40 | 40 | 40 | 42 | 54 | 95 |
| Cropping intensity (%) = 100 x [AHI_{full}]/[AAI_{full}] | 127 | | | | | | | | | | | | |
| Area equipped for full control irrigation [AEI_{full}] | 19 055 | | | | | | | | | | | | |
| % of full control equipped actually irrigated = 100 x [AAI_{full}]/[AEI_{full}] | 94 | | | | | | | | | | | | |
| Total area equipped for irrigation [AEI_{tot}] | | | | | | | | | | | | | |



| INDIA - TOTAL | 2006 1000 ha |
|--|-----------------|
| Harvested irrigated crop area [AHI_{full}] | 71 876 |
| Area equipped for full control irrigation actually irrigated [AAI_{full}] | 58 614 |
| Cropping intensity (%) = $100 \times [AHI_{full}]/[AAI_{full}]$ | 123 |
| Area equipped for full control irrigation [AEI_{full}] | 64 646 |
| % of full control equipped actually irrigated = $100 \times [AAI_{full}]/[AEI_{full}]$ | 91 |

Narrative India

The AQUASTAT database reports that AEI_{full} is 64 646 000 ha and 66 334 000 ha, respectively, in 2005 and 2008, and AHI_{full} 76 820 000 ha and 87 259 000 ha, respectively, in 2004 and 2008 (FAO, 2012). AAI_{full} was calculated as 94 percent of AEI_{full} as found in previous reports for that year (MOA, 2009; MWR, 2007). Four crop calendars have been adapted from AT 2050/2080 (FAO, 2011). The resulting cropping intensity for the whole country equals to 123 percent. Rice is the main irrigated crop in the East (49 percent of regional AHI_{full}) and the South (59 percent). Wheat is the main irrigated crop in the West (52 percent) and in the North (both 32 percent).

References

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