



NEPAL

Irrigated crop calendar

2006

| Irrigated crops  | Area<br>1000 ha | Crop area as percentage of the<br>full control actually irrigated area by month |           |           |           |           |           |           |           |           |           |           |           |           |
|--|-----------------|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|  |                 | J   | F         | M         | A         | M         | J         | J         | A         | S         | O         | N         | D         |           |
| Wheat  | 645             | 55  | 55        | 55        | 55        | 55        |           |           |           |           |           |           | 55        | 55        |
| Rice one   | 263             |   |           |           |           |           |           |           |           | 23        | 23        | 23        | 23        | 23        |
| Rice two   | 263             |   |           | 23        | 23        | 23        | 23        | 23        |           |           |           |           |           |           |
| Maize  | 580             |   |           |           |           |           | 50        | 50        | 50        | 50        | 50        |           |           |           |
| Vegetables   | 31              |   |           |           |           |           | 3         | 3         | 3         | 3         | 3         |           |           |           |
| Rapeseed   | 36              |   |           |           |           |           | 3         | 3         | 3         | 3         | 3         |           |           |           |
| Sugarcane  | 33              | 3   | 3         | 3         | 3         | 3         | 3         | 3         | 3         | 3         | 3         | 3         | 3         | 3         |
| Fodder temporary   | 58              | 5   | 5         | 5         | 5         | 5         |           |           |           |           |           |           | 5         | 5         |
| <b>Harvested irrigated crop area [AHI<sub>full</sub>]</b>  | <b>1 909</b>    |   |           |           |           |           |           |           |           |           |           |           |           |           |
| <b>Area equipped for full control irrigation actually irrigated [AAI<sub>full</sub>]</b>               | <b>1 168</b>    | <b>63</b>   | <b>63</b> | <b>86</b> | <b>86</b> | <b>86</b> | <b>81</b> | <b>81</b> | <b>81</b> | <b>81</b> | <b>81</b> | <b>81</b> | <b>86</b> | <b>86</b> |
| <b>Cropping intensity (%) = 100 x [AHI<sub>full</sub>]/[AAI<sub>full</sub>]</b>                        | <b>163</b>      |   |           |           |           |           |           |           |           |           |           |           |           |           |
| <b>Area equipped for full control irrigation [AEI<sub>full</sub>]</b>                                  | <b>1 168</b>    | *   |           |           |           |           |           |           |           |           |           |           |           |           |
| <b>% of full control equipped actually irrigated = 100 x [AAI<sub>full</sub>]/[AEI<sub>full</sub>]</b> | <b>100</b>      |   |           |           |           |           |           |           |           |           |           |           |           |           |
| <b>Total area equipped for irrigation [AEI<sub>tot</sub>]</b>  | <b>1 168</b>    | * These areas refer to the year 2002  |           |           |           |           |           |           |           |           |           |           |           |           |

Narrative

AEI<sub>tot</sub> and AEI<sub>full</sub> are equal to 1 168 300 ha in 2002 (FAO, 2012), while AHI<sub>full</sub> is estimated at 1 909 000 ha in 2006 in AT 2050/2080 (FAO, 2011). AAI<sub>full</sub> is considered equal to AEI<sub>full</sub> due to the high AHI<sub>full</sub>, and which is consistent with Siebert *et al.* (2005). The resulting cropping intensity is 163 percent. The main irrigated crops are wheat (34 percent), maize (30 percent) and rice (28 percent). Some temporary fodder, sugarcane, vegetables and oil crops (assumed to be rapeseed) are also irrigated. Temporary crops with a single cropping are irrigated either from May to September (maize, vegetables, rapeseed) or from November to April (wheat, temporary fodder).

References

FAO. 2011. *World agriculture: towards 2050/2080*. FAO, Global Perspective Studies Unit. Rome. (Internal document).

FAO. 2012. AQUASTAT, FAO's global information system on water and agriculture. <http://www.fao.org/nr/aquastat>

Siebert, S., Döll, P., Hoogeveen, J., Faures, J.M., Frenken, K., & Feick, S. 2005. Development and validation of the global map of irrigation areas. *Hydrol. Earth System Sci.* 9 535–47. Available at <ftp://ftp.fao.org/agl/aglw/docs/PaperHess2005.pdf>, accessed in June 2012.