

## China Water Institution and Management Panel Survey (CWIM)

### Timing of Survey:

CWIM 2001: January 2002.

CWIM 2004: September 2004 and August 2005.

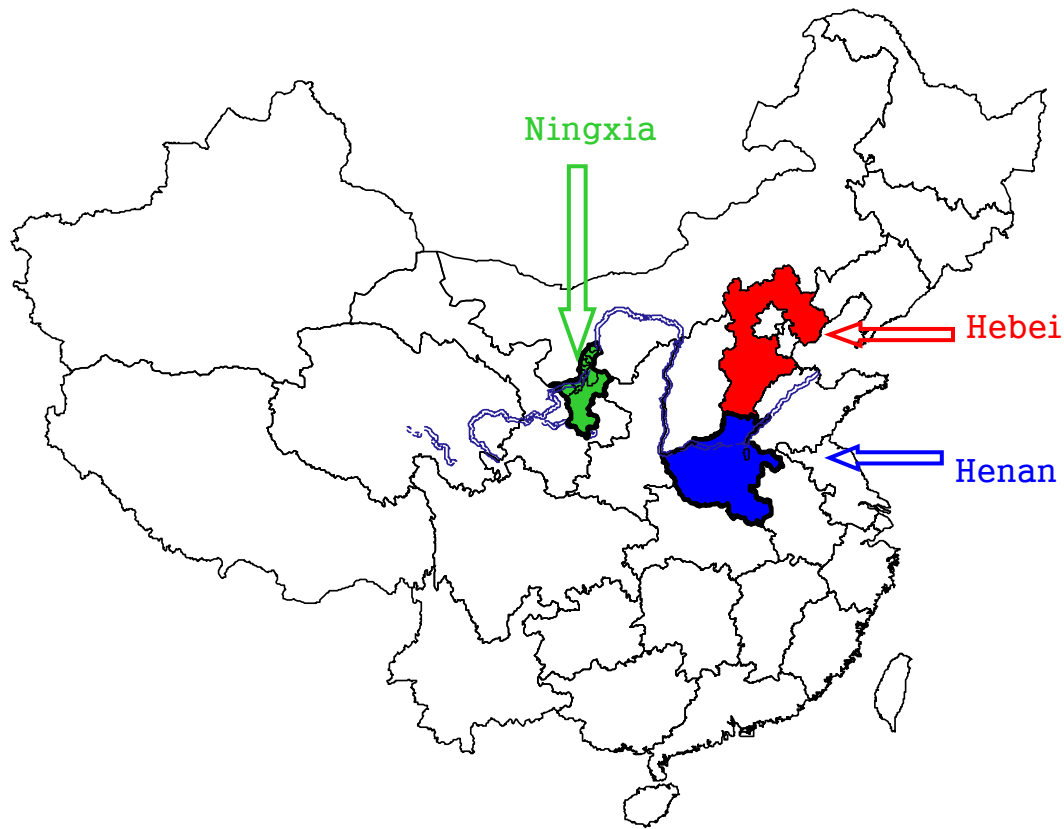
CWIM 2007: April 2008.

CWIM 2011: May 2012.

### Geographical Coverage:

3 provinces / 14 counties / 47 townships / 80 villages / 320 households

Hebei, Henan and Ningxia provinces in north China.



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Years of Coverage: 2011; 2007; 2004; 2001 and (by recall) 1995

Enumerators: Ph.D. and Master students from several Chinese Universities

Survey Questionnaires (all respondents were randomly selected):

- 80 Village level questionnaires: village demographic characteristics, agricultural production, share of groundwater and surface water resource; changes in depth-to-water and perception of water scarcity; village average water use by crops; details on different water management institutions; local government water policies.
- About 109 Groundwater water manager questionnaires (randomly selected 1 to 4 water managers in each groundwater-using village) and about 68 surface water manager questionnaire (randomly selected 1 to 2 canal managers in surface-water using villages): Characteristics of the wells and/or the canals and their command area; village average water use by crops within their command area; Operation and Maintenance of wells and canals; managerial form (collective or private), water fee collection, water reliability, investment in irrigation system, local government water policy etc.
- About 320 household survey questionnaires (randomly selected 4 households in each village): demographic information; crop mix and plot size, agricultural activities (input uses and costs: **water use**, labor, fertilizer, capital, machinery, seed, etc.; yield, crop price), payment for water and willingness to pay for water; water saving technology (adoptions, cost and investment, field water savings).

Note: Except for the village leaders survey questionnaires, the number of groundwater, surface water and household survey questionnaires may vary from year to year due to attrition.