

Data type	Resolution	Source	Description
DEM	90 m × 90 m	http://srtm.csi.cgiar.org/ last access: 5 January 2017	Digital elevation model
Land use	1 km × 1 km	http://www.landcover.org/ last access: 7 January 2017	Land use classification
Soil	30 arcsec	http://www.fao.org/soils-portal/ last access: 15 January 2017	Soil type classification and characterization of soil parameters
Global weather data	30 stations	https://globalweather.tamu.edu/ last access: 15 January 2017	Relative humidity, wind speed, solar radiation and the minimum and maximum air temperatures
Observed rainfall	138 gauges	Hydrologic Bureau of Huaihe River Commission	Daily data: 1991–2010; sub-daily data: flood period during 1991–2010
Observed streamflow	1 gauges	Hydrologic Bureau of Huaihe River Commission	Wangjiaba station, daily data for 1991–2010, sub-daily data for flood period during 1991–2010