



Cold and Arid Regions Science Data Center

HiWATER: Dataset of Leaf Area Index by LAI2200 in the  
lower reaches of the Heihe River Basin

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# HiWATER: Dataset of Leaf Area Index by LAI2200 in the lower reaches of the Heihe River Basin

## Abstract

LAI observation was carried out for the typical underlying surface in the lower reaches of Heihe River Basin during the aviation flight experiment in 2014. The observation started on 24 July, 2014 and finished on 1 August, 2014.

### 1. Observation time

On days of 24 July, 27 July, 30 July, 31 July and 1 August, 2014

### 2. Samples and observation methods

Large areas with homogeneous vegetation (greater than 100 m \* 100 m) were chosen as the observation samples. And forty field samples were selected according to the characteristics of vegetation distribution in the downstream. The land-use types including the cantaloupe, the *Tamarix chinensis*, the reeds, the weeds, the *Karelinia caspica*, the *Sophora alopecuroides* and so on.

LAI data were calculated according to the transmittance derived from an A value (above-canopy readings) and four B values (below readings). More than two LAI values were obtained for each sample. At the same time, the heights of the vegetation in each sample were measured.

### 3. Observation instrument

LAI 2200

### 4. Data storage

The observation recorded data were stored in excel and the original LAI data were stored in txt files.

## Keywords

Theme: synchronous observation, LAI,

Place: Heihe River Basin, the natural oasis eco-hydrology experimental area,

Temporal: 2014, 2014-07-31, 2014-08-01, 2014-07-22, 2014-07-27, 2014-07-30,

Discipline: Geographic science, remote sensing,

Statrum:

## ISO 19115 Category

Category: geoscientificInformation

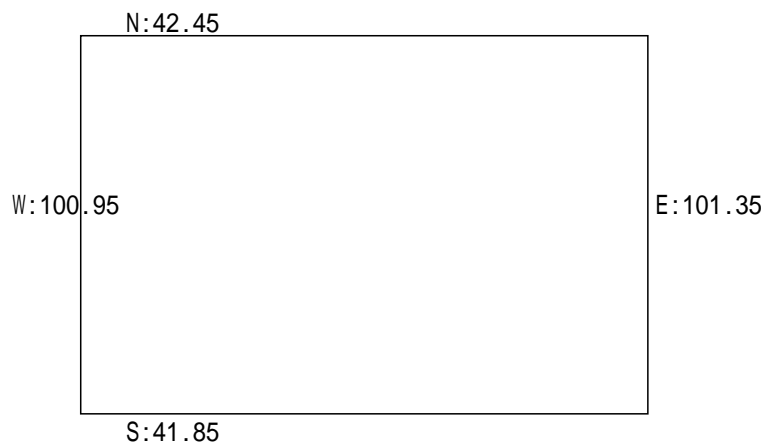
## Detail

Project: +proj=longlat +datum=WGS84 +no\_defs

Data Volume(MB): 0.46

Data Format: \*.txt

## Position and Thumbnail



## Temporal Range

Start: 2014-08-01

End:

## Citation

Geng Liying, Ma Mingguo, Song Yi, Liang Ji, Li Yimeng, Zhou Shengnan. HiWATER: Dataset of Leaf Area Index by LAI2200 in the lower reaches of the Heihe River Basin. Cold and Arid Regions Environmental and Engineering Research Institute, Chinese Academy of Sciences. 2015. 10.3972/hiwater.268.2015.db

## Recommended Publications

DOI

10.3972/hiwater.268.2015.db

## Funding

1. National Natural Science Foundation of China : (No: 91125004)

## Limitation

1. The dataset is generated from the "Heihe Watershed Allied Telemetry Experimental Research (HiWATER)". User must have a clear statement in the article of the original data source and cite the dataset and papers in the Citation section.

## Online Resources

1. Cold and Arid Regions Science Data Center at Lanzhou (CARD) [www.heihedata.org](http://www.heihedata.org)

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