

## Shanxi Province Natural Resources Dataset

### Data Documentation

#### I. Dataset content features

##### i. Abstract

The datasets are socioeconomic data of ShanXi province, which mainly Forest Resources, Land Use, Land Resources, Soil Resources, Vegetation Distribution Data. They are collected and organized by Institute of Geographic Sciences and Natural Resources Research, Chinese Academy of Sciences, and It mainly includes the distribution of forest resources, land use, distribution of land resources, distribution of soil resources and vegetation in Shanxi Province. They are mainly displayed in ArcGIS in shp format. The data can be used in the fields of geography science, environmental science, ecology, socio-economics, and population. Scientific research and education departments and central and local government decision-making departments provide data support.

##### ii. Elements (content fields)

The datasets are named as “Shanxi Province Natural Resources Dataset”, which include 5 data files. There are mainly 5 data name and they are described as table 1.

Table 1 Description of data element content

Data name	Item (field)	Field name in Chinese	Field measure unit	Field code description	Remarks
Natural resources	Shanxi Province Forest Resources	山西省森林资源			
Land use	Land use	山西省土地利用			
Land Resources	Land Resources	山西省土地资源			
Soil resources	Soil resources	山西省土壤资源			
vegetation	vegetation	植被			

##### iii. Temporal cover

Time of the dataset

##### iv. Spatial cover

The covered area of the dataset includes total The entire Shanxi region.

#### II. Subject/industry scope of dataset/atlas

##### i. Subject scope

Earth Science, environmental sciences, regional sustainable development, geography.

##### ii. Industry scope

Urban and rural development services, rural construction and planning.

##### iii. Other classifications (optional)

#### III. Accuracy of dataset/atlas

##### i. Time frequency

County level.

**ii. Spatial reference, accuracy, and granularity**

The geographic coordinate system of the dataset is GCS\_Clarke\_1866, The data format is shp

**IV. Dataset/atlas storage management**

**i. Data quantity**

The volume of the dataset is 25.9MB.

**ii. Type format**

The dataset is stored in hard disk in shp format.

**iii. Update management**

Unscheduled update.

**V. Quality control of the dataset/atlas**

**i. Data sources (condition selection)**

Remote sensing imagery

**ii. Methods of the data acquisition and processing (condition selection)**

Through correction, shear and exponential calculations, Get remote sensing data from Shanxi Province, Data processing software includes ArcGIS and ENVI. First, the acquired remote sensing data is corrected and processed. Then, use ArcGIS for index calculation and classification. Finally, add the above result to get the vectorization resource environment data.

**VI. Sharing and usage method of the dataset/atlas**

**i. Sharing methods and restrictions**

Full and open sharing.

**ii. Contact information of the sharing service (condition selection)**

**Online link address:**

Contact Information for Service:

Name: Yuan Yuele

Address: 11A, Datun Road, Chaoyang District, Beijing, 100101, China, Institute of Geographic Sciences and Natural Resources Research, CAS.

Zip Code: 100101

E-mail: wdc-rre@lreis.ac.cn

**iii. Conditions and methods of usage**

The dataset can be read by ArcGIS software.

**VII. Intellectual property rights of the dataset/atlas**

**i. Property rights (optional)**

Intellectual property of the dataset belonged to Institute of Geographic Sciences and Natural Resources Research, CAS.

**ii. Reference method of the dataset/atlas**

Shanxi Province Geographical Data, Institute of Geographic Sciences and Natural Resources Research, Chinese Academy of Sciences [Establishment organization], 2006, World Data Center for Renewable Resources and Environment [Communication agency], 2017-3-4.

**iii. Usage contacts of the datasets/atlas**

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**VIII. Others (optional)**

In addition to the above, other information must also be explained.

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