



China Data Institute

chinadatatcenter.net
China-data-online.org

An Introduction to the Population Census Data of China

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Background

- **Population Census (1953, 1964, 1982, 1990, 2000, 2010)**
- Industrial Census (1950, 1985, 1995)
- The Third Industry Census (1993)
- Basic Unit Census (1996, 2001)
- Economic Census (2004, 2008, 2013)
- R&D Resource Census (2000, 2009)
- Agricultural Census (1997, 2007, 2016)

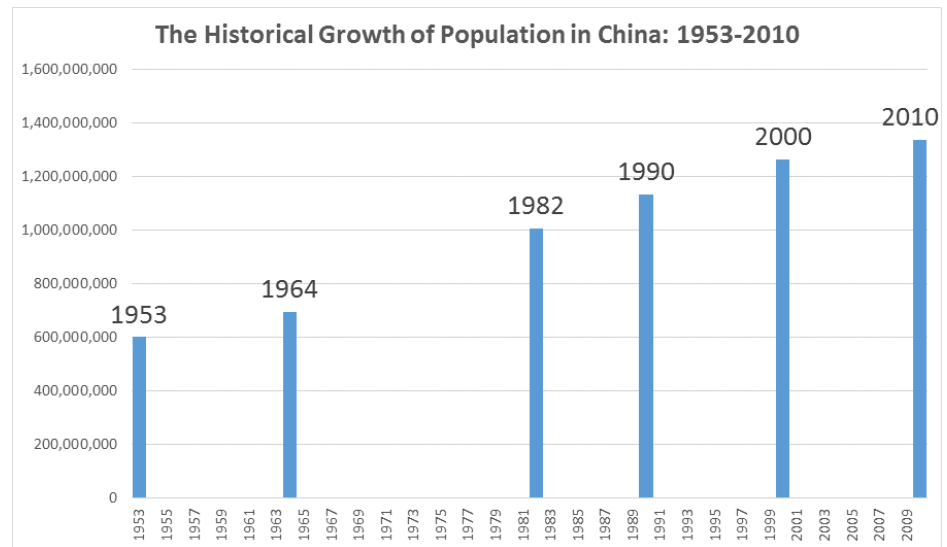
The Population Census of China

- The earliest population Census in China: 2 AD

(西汉汉平帝元始二年,公元2年)

- Recent censuses:

- The 1st Census: July 1, 1953
- The 2nd Census: July 1, 1964
- The 3rd Census: July 1, 1982
- The 4th Census: July 1, 1990
- The 5th Census: Nov 1, 2000
- The 6th Census: Nov 1, 2010



- 1990, 2000 & 2010 Census household survey forms:

- Short Form (100%)
- Long Form (about 10%)

- Notes

- Data in the publication do not include People's Army.
- The post-census sample survey indicates an undercount of 0.12% in 2010 Census.

The Definition of Residents

Residents: All permanent residents who have Chinese citizenships and have permanent living places in Mainland China:

- a) Those who reside in the townships, towns and street communities and have their permanent household registration there.
- b) Those who have resided in the townships, towns and street communities for more than 6 months but the places of their permanent household registration are elsewhere.
- c) Those who have resided in the townships, towns and street communities for less than 6 months but have been away from the place of their permanent household registration for more than 6 months.
- d) Those who live in the townships, towns and street communities during the population census while the places of their household registration have not yet settled.
- e) Those who used to live in the townships, towns and street communities but are working or studying abroad during the census and have no Permanent household registration for the time being.

Permanent Population & Migration

Permanent Population (> 6 months):

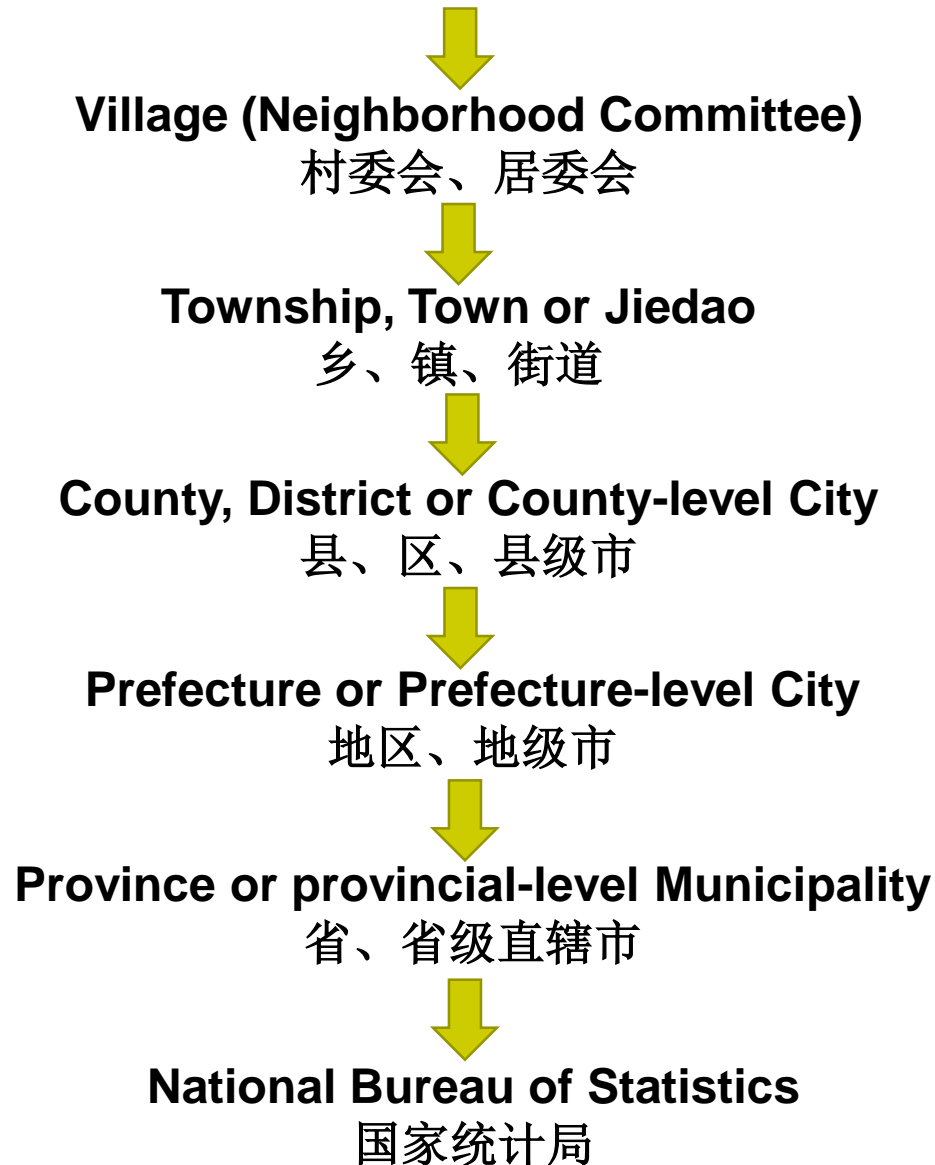
- a) Those who have resided in the townships, towns and street communities for more than 6 months.
- b) Those who have local household registration but have been living in other places for less than 6 months.
- c) Those who used to live in the townships, towns and street communities but are working or studying abroad during the census and have no permanent household registration for the time being.

Migration (less than 6 months):

Those who have resided in the townships, towns and street communities for less than 6 months.

- Other Townships of the same county (city)
- Other Towns of the same county (city)
- Other Jiedao of the same county (city)
- Other Townships of the same district
- Other Towns of the same district
- Other Jiedao of the same district
- Other county or district of the same province
- Other provinces

The Flow Charts of Data Reporting



Government Publications

- **National Census Bulletin** 人口普查公报
- **Population Census Data Assemblies (nation, province, city and county)** 人口普查数据资料汇编
 - **China Population Data Assemblies**
全国人口普查数据处理资料汇编
 - **Province Population Data Assemblies**
省级人口普查数据处理资料汇编
 - **China Population Data by Counties**
中国人口普查分县资料
 - **China Population Data by Xiang, Zhen and Jiedao**
中国人口普查分乡、镇、街道资料
- **Population 1% Sampling Report** 全国1%人口抽样调查主要数据公报

Some Issues with Census Data Publications

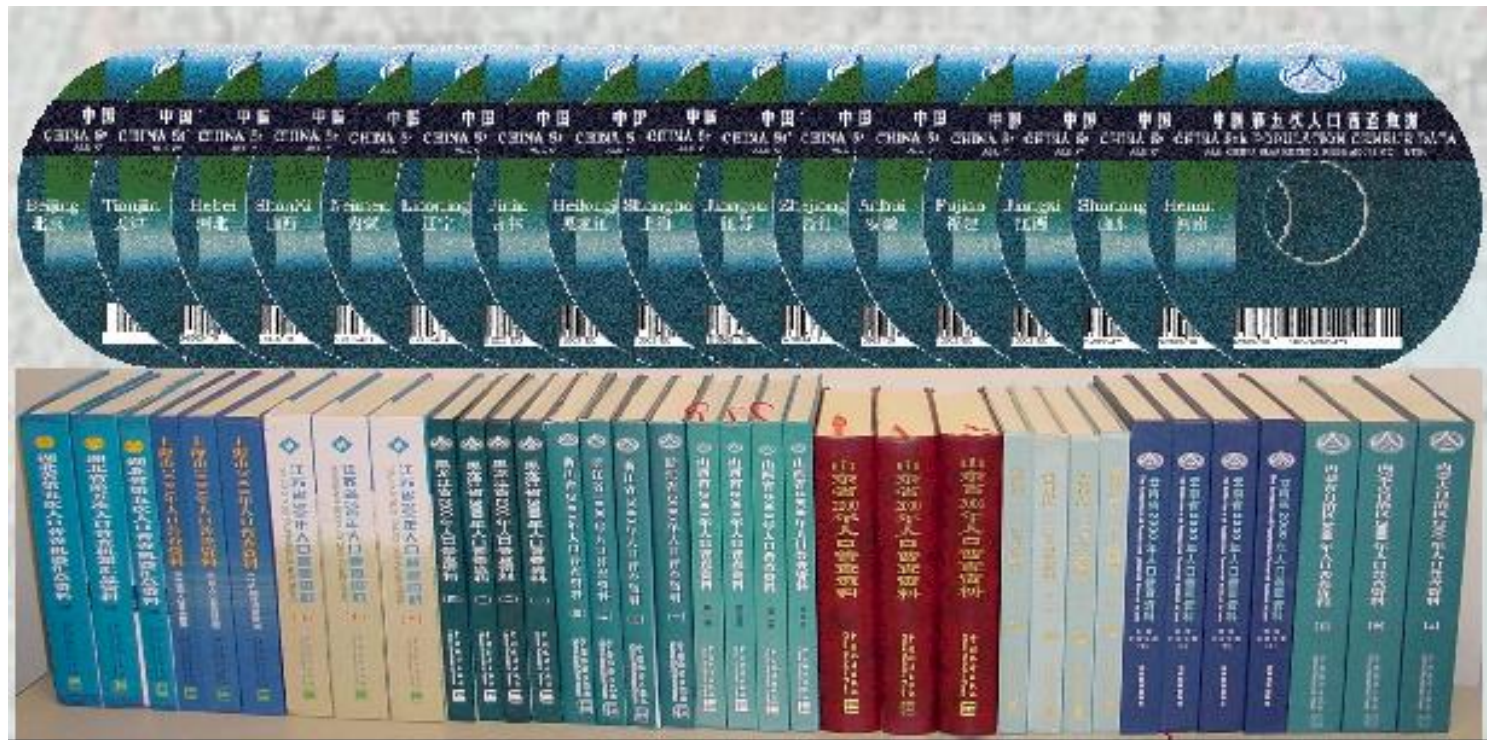
- **Most data are in paper publications only**
- **Most publications are in Chinese only**
- **No income data in household surveys**
- **No geo-reference data similar to TIGER/Line data (Topologically Integrated Geographic Encoding and Referencing)**
- **Inconsistent and Incomplete census tables across regions**

Missing Urban & Rural Population

100	Urban 城镇
110	City 城市
111	Urban with Districts (>1500 persons/sq km) 设区市的市区
112	Urban without Districts 不设区市的市区
120	Town 镇
121	The capital town of county 县及县级以上人民政府所在建制镇的镇区
122	Other towns 其他建制镇的镇区
200	Rural 乡村
210	Rural Townships 集镇
220	Villages 农村
	Others (mines, tourist areas, development zones, etc.)
	Urban if more than 3000 population
	Rural if less than 3000 population

CDC Publications: E-books

- the mostly complete and comprehensive census data of China
- The Complete Collection of China 2000 Provincial Population Census Data Assembly (**32** volumes)
- The Complete Collection of China 2000 County Population Census Data Assembly (**2,876** volumes)



CDC Publications: GIS Based Products

- 2000 China Province Population Census Data with GIS Maps
- 2000 China City Population Census Data with GIS Maps
- 2000 China County Population Census Data with GIS Maps
- 2000 China Township Population Census Data with GIS Maps
- 2000 China Grid Population Census Data with Township Boundaries
- 2010 China Province Population Census Data with GIS Maps
- 2010 China City Population Census Data with GIS Maps
- 2010 China County Population Census Data with GIS Maps
- 2010 China Township Population Census Data with GIS Maps
- 2010 China Grid Population Census Data with Township Boundaries
- 2000-2010 China Province Population Census Data with GIS Maps
- 2000-2010 China City Population Census Data with GIS Maps
- 2000-2010 China County Population Census Data with GIS Maps
- China Historical Province Population Census Data with GIS Maps (1953, 1964, 1982, 1990, 2000)
- China Historical County Population Census Data with GIS Maps (1953, 1964, 1982, 1990, 2000)



Notes On The GIS Maps for Census Data

- (1) The China GIS maps were developed for population Census data, which covered all mainland of China, except for Taiwan, Hong Kong and Macau.
- (2) The GIS data is based on the national digital map (1:1 million) developed by the National Geographic Information Center of China (NGCC).
- (3) The China GIS maps are developed for matching China population Census data, which should only be used as references for research or education instead of used as official maps.

Unique Features of Census Data from the China Data Institute

- **Electronic** data directly from the National Bureau of Statistics with official authorization
- **Language** available in Chinese and English
- Comparable data across regions (province, city and county) and years (2000 and 2010)
- **Geo-referenced** census data with GIS maps
- **Complete** data coverage for all regions
- **Affordable** costs
- **Three-level customer support** (CDI, ACMR, NBS)

Population Census Data with GIS Maps

> 2,000 demographic variables in population Census

Geographical Levels:













Country
|
Province
|
Prefecture
|
County
|
Township
|
1 sq km Grid

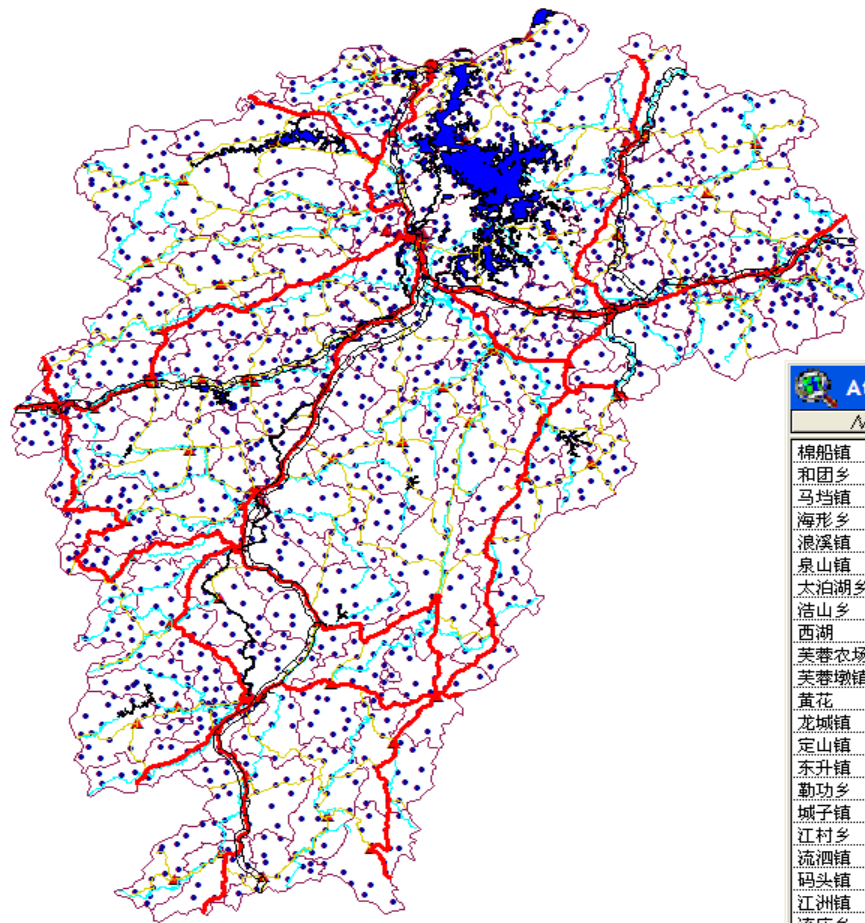
Census data variables:

- General Information
- Nationalities
- Age Structure
- Household Structure
- Education
- Fertility
- Deaths
- Marriage
- Migration
- Housing Status
- Industries and Occupations

Township Map with Census Data

The 2000 Population Census Data with Township Maps

- Rail.shp 
- Gd.shp 
- Sd.shp 
- Driver.shp 
- River.shp 
- Cline.shp 
- Class1.shp 
- Class2.shp 
- Class3.shp 
- Class4.shp 
- Townprj 
- Pointprj 



Name	A1	A2
棉船镇	35616	17867
和团乡	6362	3240
马档镇	25191	12661
海形乡	3685	1987
浪溪镇	11965	6118
泉山镇	20004	10127
太泊湖乡	5444	2779
浩山乡	9180	4825
西湖	8070	4189
芙蓉农场虚拟乡	11520	6006
芙蓉墩镇	20815	10537
黄花	17252	8785
龙城镇	41865	21766
定山镇	17634	8952
东升镇	15773	8124
勤功乡	7057	3645
城子镇	14863	7599
江村乡	9829	5059
流河镇	29172	14964
码头镇	32525	17583
江洲镇	35726	18150
流庄乡	13238	6979
黄金乡	9953	5202

Access to the Census Data

❑ Order CD products:

<http://chinadatacenter.net>

❑ Online access to e-books:

<http://china-data-online.com>

❑ Online access to census maps:

<http://china-data-online.com>

❑ Online access to spatial data:

<http://chinageoexplorer.com>

The image displays three screenshots from the China Data Online website. The top screenshot shows the 'CENSUS YEARBOOK' menu with a tree structure listing various census years and provinces. The middle screenshot shows a search for 'XINJIANG 2000 POPULATION CENSUS ASSEMBLY' with a table of contents listing categories like General Information, Nationalities, Age, Education, Households, Deaths, Migration, and Housing. The bottom screenshot shows a detailed data table for '1-1 Family households, population and sex ratio by region'.

Region	Households			Population		
	Total	Family	Collective	Total	Male	Female
Total	625119	608968	16207	2512422	1302164	1210258
Lanzhou Shi	91909	88254	50636	3142523	1535825	1506698
Chengdeu Qu	31073	28745	23138	936880	482097	454783
Qinghai Qu	145916	136966	8960	474857	252985	221872
Xiguo Qu	108876	103373	5503	336029	174395	161634
Honggu Qu	50021	48444	5877	168704	105511	63193
Honggu Qu	40031	38086	2115	140481	75860	64621
Yongjiang Xian	123183	120660	2583	478059	244998	233061
Guizhou Xian	39016	39155	741	141212	62415	78797
Yuchang Xian	102494	99995	2499	415513	215551	199962
Jiayuguan Shi	53049	51729	1860	159541	85869	73672
Urumqi Districts	53939	51709	1860	159541	85869	73672
Anchang Shi	131461	128141	3320	451570	235792	215778
Jinchuan Shi	67850	65884	1766	204902	106725	98177
Yongcheng Xian	62795	60577	3218	204668	120487	117160
Bayan Shi	406375	396397	10978	1713735	888032	825703
Qinghai Qu	94294	91369	3025	274854	145506	129348
Pingchuan Qu	50026	47822	2284	186428	98166	88262
Jingyuan Xian	97242	94489	2853	463076	237699	225377
Huangpi Xian	124687	118115	1272	508034	264665	243369
Anguo Xian	55646	54602	944	227043	116166	110877
Tianzhu Shi	739610	728888	10722	3219232	1657844	1561474
Chengde Qu	152381	149123	3258	504679	261909	242770
Beidou Qu	135024	131152	3272	542916	281809	261107
Qinghai Xian	64034	63548	486	278207	143421	134786
Qinghai Xian	117117	114485	2732	342723	177879	164844
Gaoguo Xian	119627	118302	1325	553377	283547	269830

China Data Sources

Authoritative, Unique, Comprehensive

Province

Prefecture

County

Township

ZIP

Sq Km Grid

- **Government Statistics**
 - Provincial Statistics (1949 -)
 - City Statistics (1996 -)
 - County Statistics (1997 -)
- **Population Census**
 - Census 1953 (GRID)
 - Census 1964 (GRID)
 - Census 1982 (GRID)
 - Census 1990 (GRID)
 - Census 2000/2010 (province, city, county, township, GRID)
- **Economic Census**
 - Industrial Census 1995 (province, city, county, ZIP)
 - Basic Unit Census 2001 (province, city, county, ZIP)
 - Economic Census 2004/2008 (province, city, county, ZIP)
- **Establishments (individual companies and organizations)**
 - Industrial Census(1995)
 - Basic Unit Census (2001)
 - Economic Census (2004/2008)
- **Geography and Environment**
 - Land use data (province, city, county, township, GRID)
 - Night-Time light data (province, city, county, township, GRID)
 - ...

Features of China Geo-Explorers

Comparable:

- Comparable data from different sources (years)
- Comparable data for different regions
- Comparable terms between English and Chinese

Flexible:

- Flexible functions for data selection
- Flexible formats for data export (Excel, HTM, Word, PDF, GIS shape file)
- Flexible outputs of tables, reports, charts, and maps

Unlimited:

- Unlimited data access
- Unlimited new data sets generated from limited databases
- Unlimited outputs (reports, charts, maps and tables)

Easy:

- No professional training is required for using the explorers
- No GIS skills is required for spatial analysis and mapping

Selection by Administrative Regions

The screenshot displays the chinageoexplorer.org web application interface. The browser address bar shows the URL chinageoexplorer.org/cge/cityclient160/#. The application has several tabs: Administrative Unit, X&Y Location, Chart, Time Series, Structure Analysis, Establishment, Theme Map, and GIS Map Export. The 'Administrative Unit' tab is active.

On the left side, there are several control panels:

- Base Year:** Radio buttons for 2000, 2010, and 2000-2010.
- Group:** Radio buttons for Single group and Multi-groups.
- Level:** Radio buttons for Province, City, County, Town, and Any area.
- Region:** A table with columns for Region, Index, and Report. A red box highlights the 'China (Province)' section, which lists provinces like Anhui, Beijing, Chongqing, Fujian, Gansu, Guangdong, Guangxi, Guizhou, Hainan, and Hebei.
- Selection:** A list of administrative units with a red arrow pointing to the 'Add All' button.

The main map area shows a map of China with administrative boundaries. A red box highlights the 'Operations' toolbar, which includes icons for pan, zoom, and selection. A red arrow points from the text 'Select by map' to the selection icon in the toolbar. The map shows a pink shaded region in the eastern part of China, representing the selected administrative units.

On the right side, there are layer lists:

- Theme Layer List:** Includes Basic Layer List (OpenStreetMap, TianDiTu, No BaseMap) and Boundary Layer List (Province Layer, Prefecture Layer, County Layer, Township Layer).

At the bottom right, there is a copyright notice: © OpenStreetMap contributors.

Selection by Self-Defined Shape (Polygon, Circle, Rectangle)

The screenshot displays a GIS web application interface. At the top, there is a navigation bar with tabs: Administrative Unit, X&Y Location, Chart, Time Series, Structure Analysis, Establishment, Theme Map, and GIS Map Export. The user is logged in as 'Welcome, UM Asia Library!' and the language is set to '中文' (Chinese).

The main interface is divided into several sections:

- Left Panel (Region Selection):** Contains a 'Region' list with 'China (Province)' selected. Below the list are buttons for 'Add', 'Add All', 'Remove', and 'clear'. A 'Selection' box at the bottom shows 'Area 1 251.69km²'.
- Top Panel (Operations):** Includes a toolbar with icons for pan, zoom, and selection. The 'Level' dropdown is set to 'Any area'.
- Right Panel (Layer List):** Contains three sections: 'Theme Layer List', 'Basic Layer List' (with 'OpenStreetMap' selected), and 'Boundary Layer List' (with 'Province Layer', 'Prefecture Layer', 'County Layer', and 'Township Layer' all unchecked).
- Main Map:** Shows a blue grid with a large purple polygon selection. A vertical scale on the left indicates a height of 17 units.

At the bottom left, the text 'Selection count: 1' is visible. At the bottom right, the copyright notice '© OpenStreetMap contributors' is present.

Selection by Locations

District Selection **Coordinate Selection** **Observation Point**

Stat. Report **Stat. Map** **Theme Layer**

Go to choose a report

Units: miles Range: 1,3,5

Label: coord

Lat: 28.68	Huaibei Lat:34.023 Lon:116.892
	Suzhou Lat:33.689 Lon:117.14
Lon: 115.89	Xuzhou Lat:34.279 Lon:117.238
	Coordinate1 Lat:34.039 Lon:117.552
	Coordinate2 Lat:33.707 Lon:117.602

Add Edit Delete clear

Browse Delete clear Upload

File name	Type	Size

Select by X & Y coordinates

Select by locations on map

Map Satellite Mixed Terrain Map Operation

District level Km Grid

Theme Layer List

- Basic Layer List
 - Base Layer
- Reference Layer List
 - (wms)topp:province_2000a
 - (wms)topp:prefecture_2000
 - (wms)topp:county_2000a
 - (wms)topp:township_2000a
 - (wms)topp:grid
 - Result Layer
 - Selection Layer

Multiple Outputs

The image displays two overlapping windows from Microsoft Office. The background window is Microsoft Excel, showing a 'Summary Report' for a population census. The report includes a date of 23/10/2014 and a list of 31 selected provinces: Anhui, Beijing, Chongqing, Fujian, Gansu, Guangdong, Guizhou, Hainan, Hebei, Heilongjiang, Henan, Hubei, Hunan, Jiangsu, Jilin, Liaoning, Neimenggu, Ningxia, Qinghai, Shaanxi, Shandong, Shanxi, Sichuan, Tianjin, Xinjiang, Xizang, Yunnan, and Zhejiang. Below the report, a list of 14 data items is shown, including household counts, population statistics, and industrial units.

The foreground window is Microsoft Word, displaying a table titled '数据源' (Data Source) with columns for 'code', '中文名' (Chinese Name), 'English', and 'Datasource'. The table lists 14 data items, each with its corresponding code, name, and the source census or survey.

code	中文名	English	数据源	Datasource
gbcode	国标编码	GB code		
a101004	总人口数	Total Population	2000年中国人口普查	2000 China Population Census
a101007	性别比	Sex Ratio	2000年中国人口普查	2000 China Population Census
a101005	男性人口总数	Total Males	2000年中国人口普查	2000 China Population Census
a101006	女性人口总数	Total Females	2000年中国人口普查	2000 China Population Census
tunits_95	企业总数	Total Industrial Units	1995年中国工业普查	1995 China Industry census
tunits_01	企业总数	Total Industrial Units	2001年中国基本单位普查	2001 China Basic Unit Census
tunits_04	全部企业	Number of All Units	2004年中国经济普查	2004 China Economic Census
a101002	家庭户的户数	Total Number of Family Households	2000年中国人口普查	2000 China Population Census
a101001	家庭总户数	Total Number of Households	2000年中国人口普查	2000 China Population Census
a101003	集体户的户数	Total Number of Collective Households	2000年中国人口普查	2000 China Population Census

Upload User's Data

Select Year
Select level

Upload your data

Upload data

Add data to table

Upload table **Download code table**

Select and Upload **Download code book (All regions)**

	A	B	C	D
1	code	name	Total Number of Households	Total Population
2	33	Zhejiang	14789669	45930651
3	23	Heilongjiang	11070922	36237576
4	65	Xinjiang	4916647	18459511
5	12	Tianjin	3079377	9848731
6	53	Yunnan	11120685	42360089
7	54	Xizang	544909	2616329
8	31	Shanghai	5642588	16407734
9	37	Shandong	27320402	89971789
10	51	Sichuan	24092307	82348296

Applications

- ◆ **Disaster Assessment**
- ◆ **Regional Planning**
- ◆ **Environmental and Public Health**
- ◆ **Religious Studies**
- ◆ **Business Site Selections**
- ◆ **Projections and Simulations**
- ◆ **Household/Field Surveys**
- ◆ **Comparative Study of US and China**

Related Publications

- Liu, Guirong, Shuming Bao, Jinfeng She, Hongli Zhang. 2016. The Spatio-temporal Analysis of Financial Institution Structure in China. In Geographical Research. (to be published)
- Rui, Jianxun, Fayong Zhang, Shuming Bao, and Congxiao Wang, 2015. The Spatial-temporal Data Managing Model of Typhoon Events and Process. In Journal of Catastrophology, 2015.30(3).43-46.
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More Publications from Google Scholar

The screenshot shows a web browser window with a Google Scholar search for "census data 'China data center'". The search results page displays a list of articles with various filters and options. The search results are as follows:

- Articles**
 - [CITATION] China data online**
CD Center - Ann Arbor: University of Michigan. <http:// ..., 2006
Cited by 8 Related articles Cite Save
- Case law**
- My library**
 - Accounting for growth: comparing China and India** [PDF] from ufrgs.br
B Bosworth, SM Collins - 2007 - nber.org
... population censuses, begins in 1990; and consistent estimates for the earlier years were obtained ... have not yet incorporated the revisions that resulted from the last economic census and that ... 5
The data were available online from the China Data Center are included in a table ...
Cited by 655 Related articles All 34 versions Web of Science: 115 Cite Save More
- Any time**
 - Since 2016
 - Since 2015
 - Since 2012
 - Custom range...
- Sort by relevance**
- Sort by date**
- include patents
- include citations
- Create alert

The following table summarizes the search results:

Article Title	Author(s)	Year	Source	Citations
[CITATION] China data online	CD Center	2006	University of Michigan	8
Accounting for growth: comparing China and India	B Bosworth, SM Collins	2007	nber.org	655
Compact, dispersed, fragmented, extensive? A comparison of urban growth in twenty-five global cities using remotely sensed data, pattern metrics and census	A Schneider, CE Woodcock	2008	usj.sagepub.com	115
An examination of urban versus rural mortality in China using community and individual data	Z Zimmer, T Kaneda, L Spess	2007	psychsocgerontology.oxfordjournals.org	156
China's human resources for health: quantity, quality, and distribution	S Anand, VY Fan, J Zhang, L Zhang, Y Ke, Z Dong	2008	The Lancet	138
Neighborhood racial composition, neighborhood poverty, and the spatial accessibility of supermarkets in metropolitan Detroit	SN Zenk, AJ Schulz, BA Israel	2005	ajph.aphapublications.org	690
Missing women and the price of tea in China: The effect of sex-specific earnings on sex imbalance	N Qian	2006	papers.ssm.com	341

<http://china-data-online.com>

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