



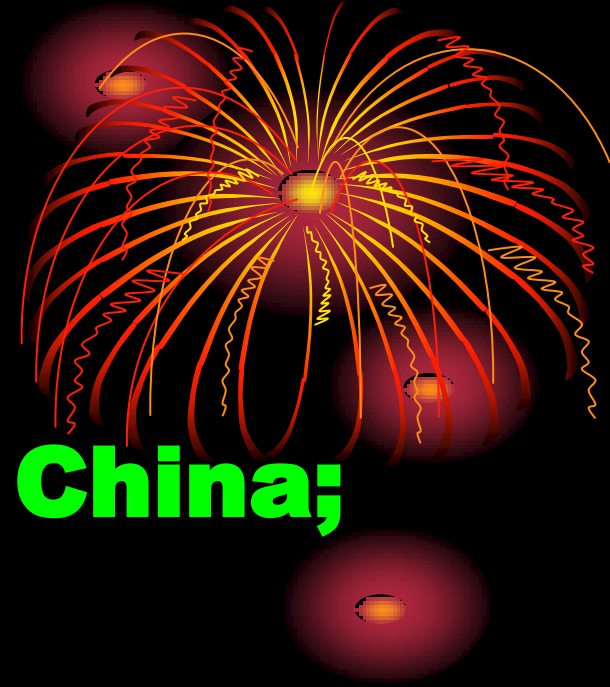
**A Brief Introduction to Mountain  
Farming in Guizhou of China**

**CAI Chengzhi**

**(Guizhou University of Finance and  
Economics, China)**

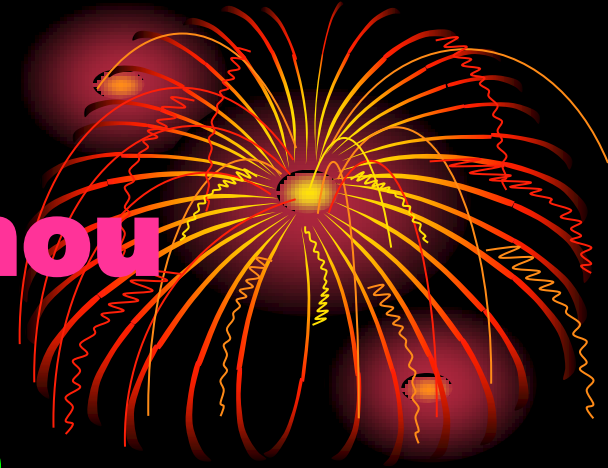
**Ormea of Italy, 8 July 2014**

# Content



- **Profile of Guizhou in China;**
- **Existing Constraints of Mountain Farming in Guizhou;**
- **Conclusion and Discussion**

# Profile of Guizhou



- **Guizhou is located in southwestern China, of east longitude  $103^{\circ} 36' \sim 109^{\circ} 35'$  and north latitude  $24^{\circ} 37' \sim 29^{\circ} 13'$ . The province's total land area is 176,167 square kilometers, accounting for 1.8% of China's total area.**

# Administrative Map of China

1:12 000 000

0 120 240 360 480 km

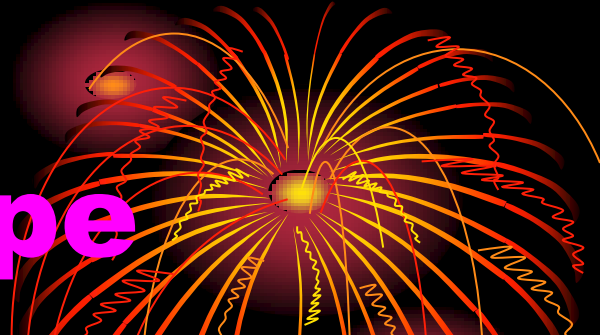


- **The province's landscape can be broadly divided into three basic types of plateau mountains, hills and basins, in which 92.5% is the former two with the elevation of 148 to 2901. Karst area is 109,084 square kilometers, accounting for 61.9% of Guizhou's total land area.**





# Kast landscape

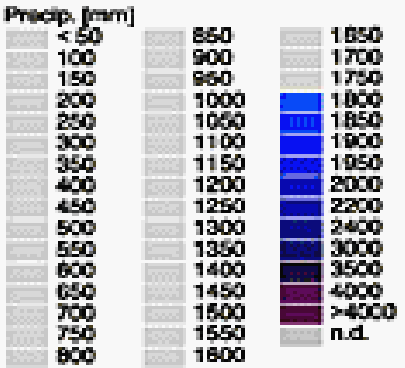
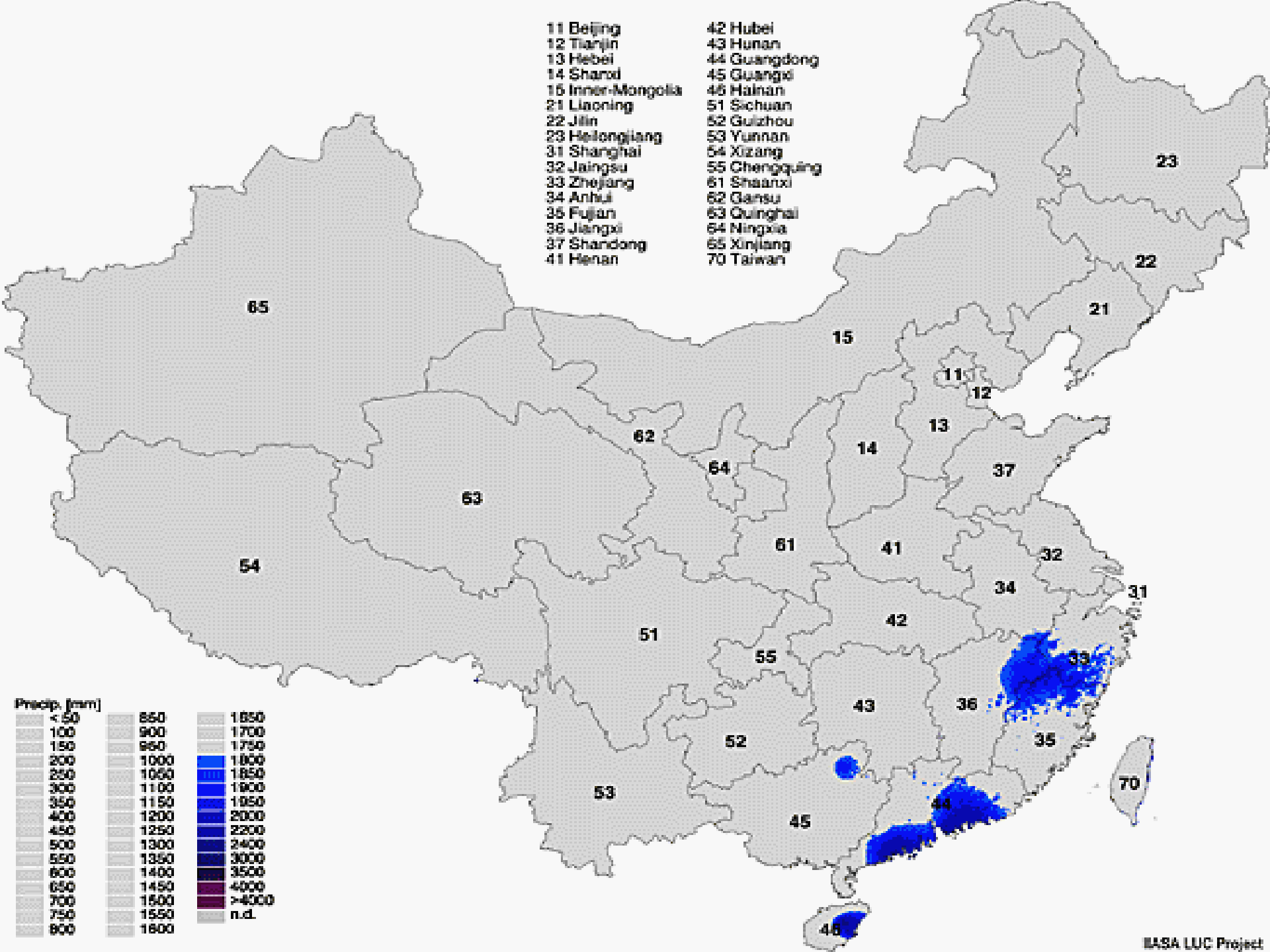


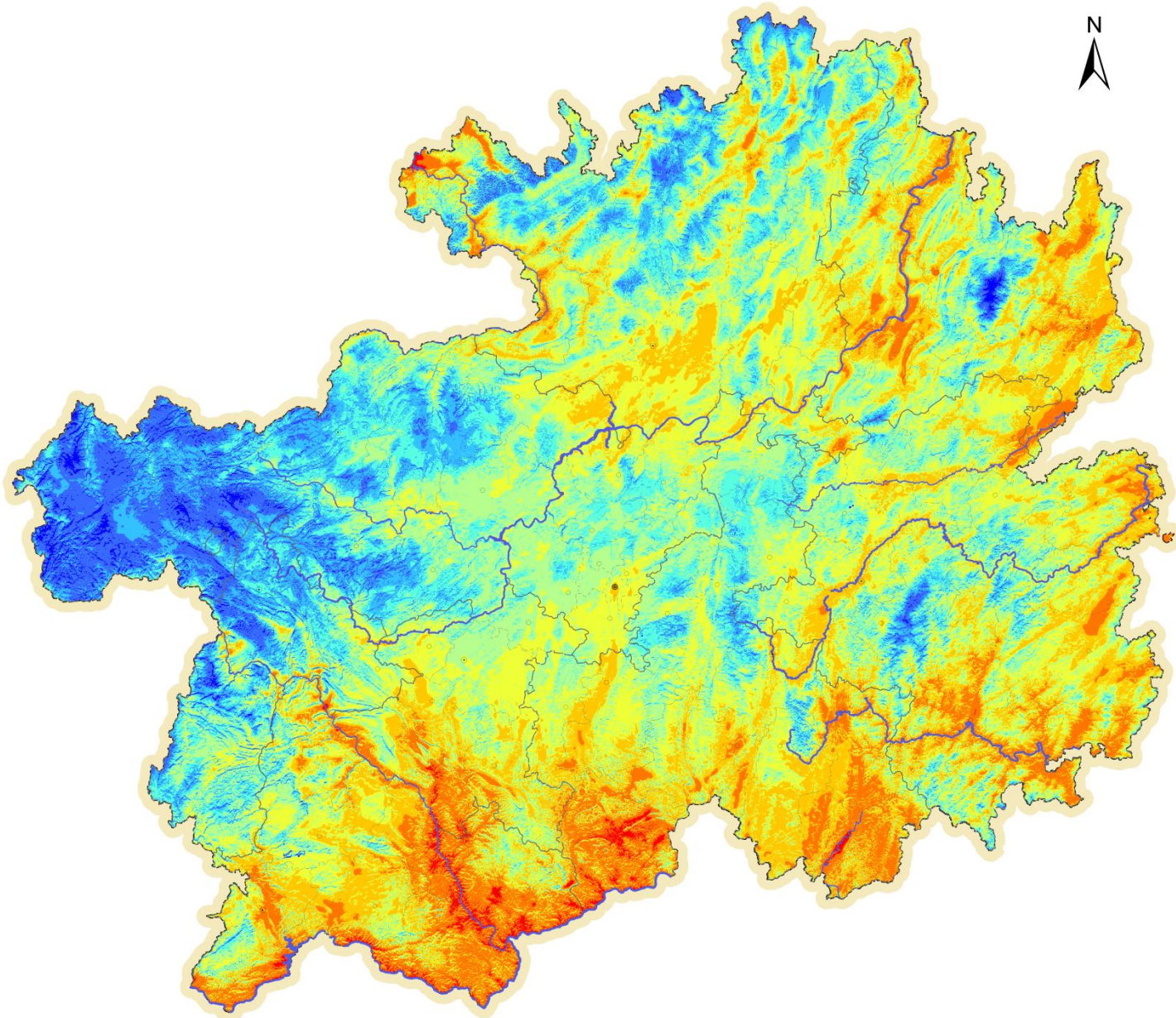
- **Guizhou's average annual temperature is 15°C, that in January is usually 3°C ~ 6°C while 22°C ~ 25°C in July. Annual precipitation is from 688 mm to 1,480 millimeters unevenly distributed across province. There are over 150 cloudy days in a year.**





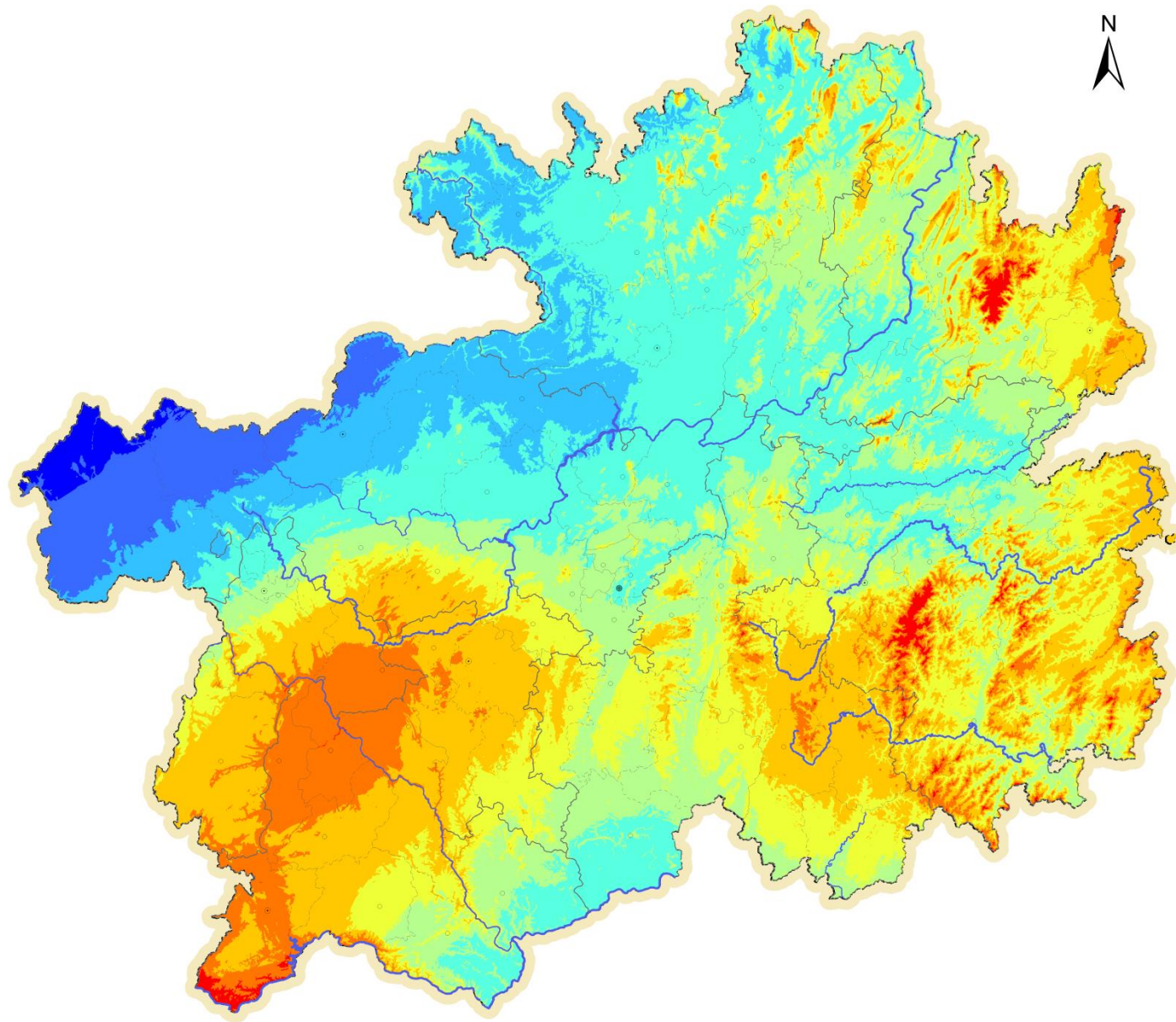
- 11 Beijing
- 12 Tianjin
- 13 Hebei
- 14 Shanxi
- 15 Inner-Mongolia
- 21 Liaoning
- 22 Jilin
- 23 Heilongjiang
- 31 Shanghai
- 32 Jiangsu
- 33 Zhejiang
- 34 Anhui
- 35 Fujian
- 36 Jiangxi
- 37 Shandong
- 41 Henan
- 42 Hubei
- 43 Hunan
- 44 Guangdong
- 45 Guangxi
- 46 Hainan
- 51 Sichuan
- 52 Guizhou
- 53 Yunnan
- 54 Xizang
- 55 Chengqing
- 61 Shaanxi
- 62 Gansu
- 63 Qinghai
- 64 Ningxia
- 65 Xinjiang
- 70 Taiwan



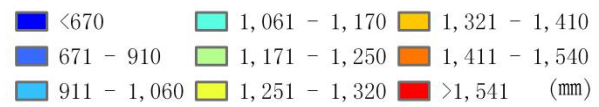


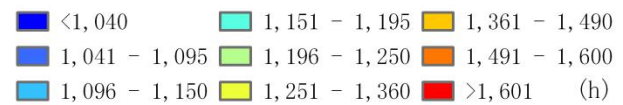
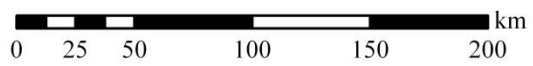
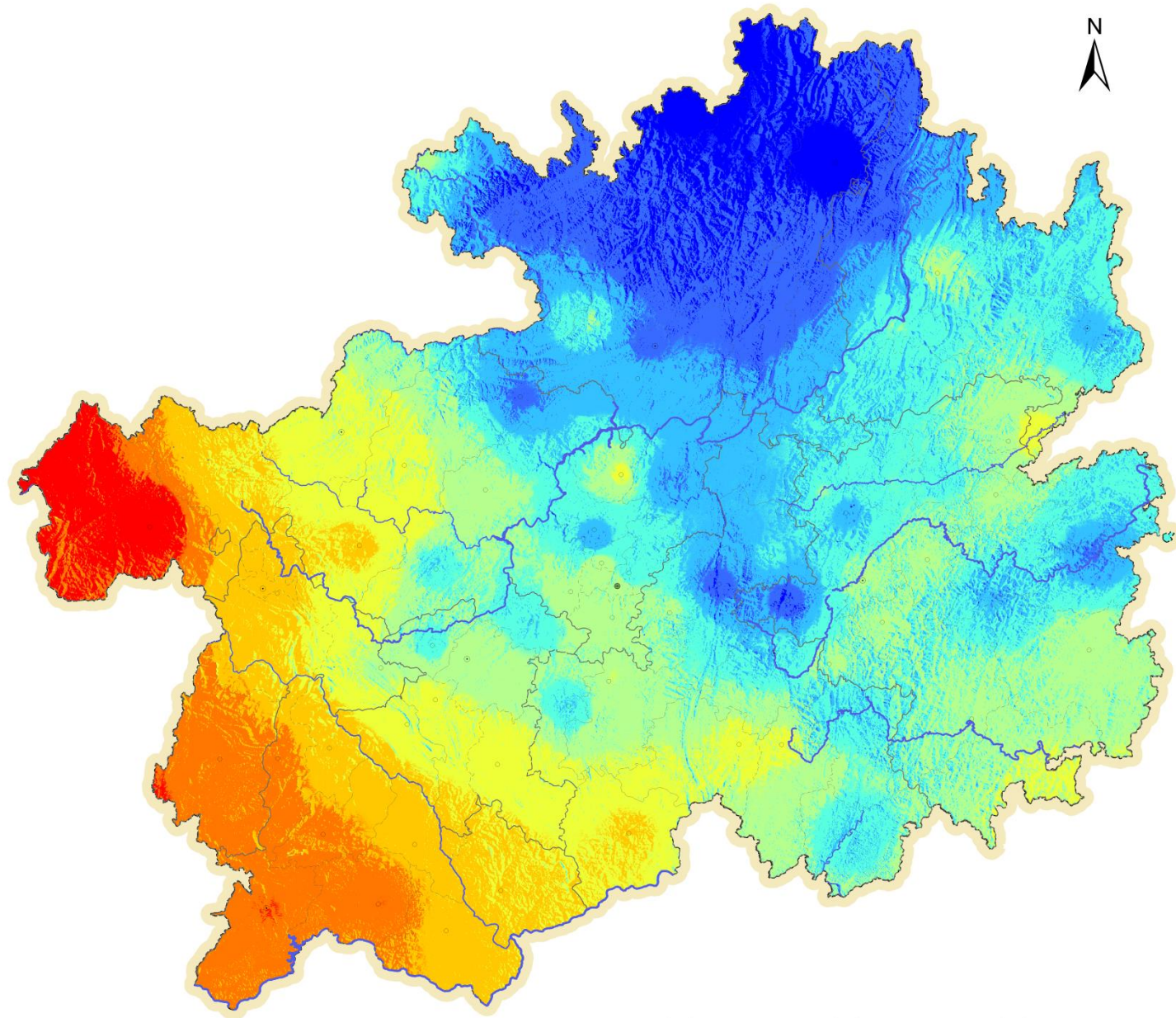
0 25 50 100 150 200 km

■ <7.8	■ 11.5 - 12.5	■ 14.6 - 15.6
■ 7.9 - 10.1	■ 12.6 - 13.5	■ 15.7 - 17.6
■ 10.2 - 11.4	■ 13.6 - 14.5	■ >17.7 (°C)



0 25 50 100 150 200 km

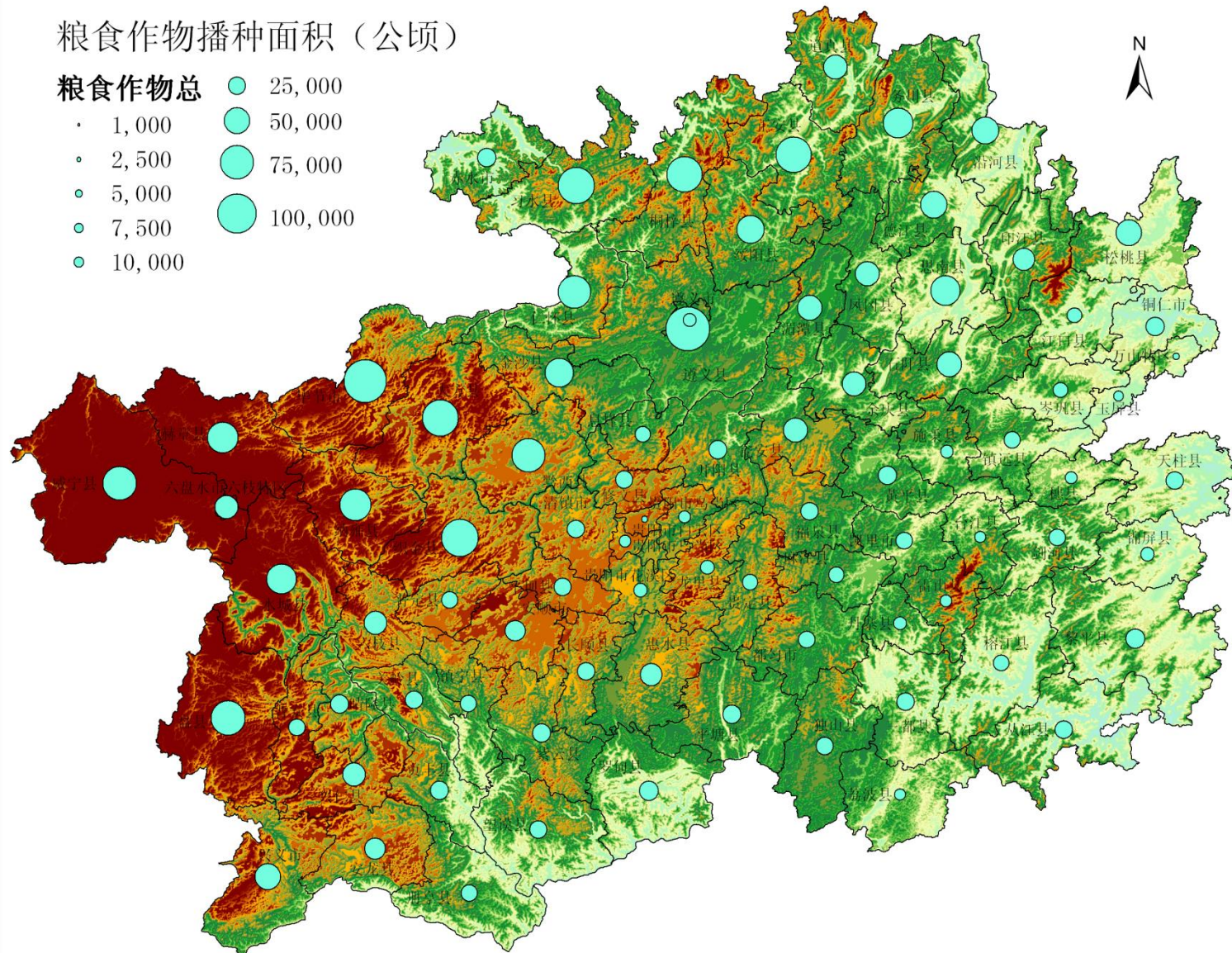
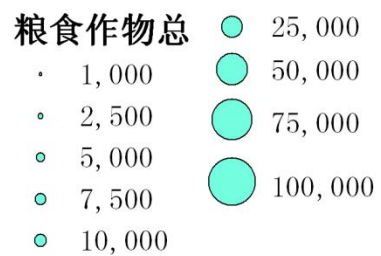




- **Guizhou's soil area is 159,000 square kilometers, accounting for 90.4% of the total land area, in which only 83.7% can be used for agriculture, forestry and animal with typical stereo characteristics based on various ecological conditions.**



# 粮食作物播种面积（公顷）





粮食作物总

油料合计

棉花

麻类合计

糖料合计

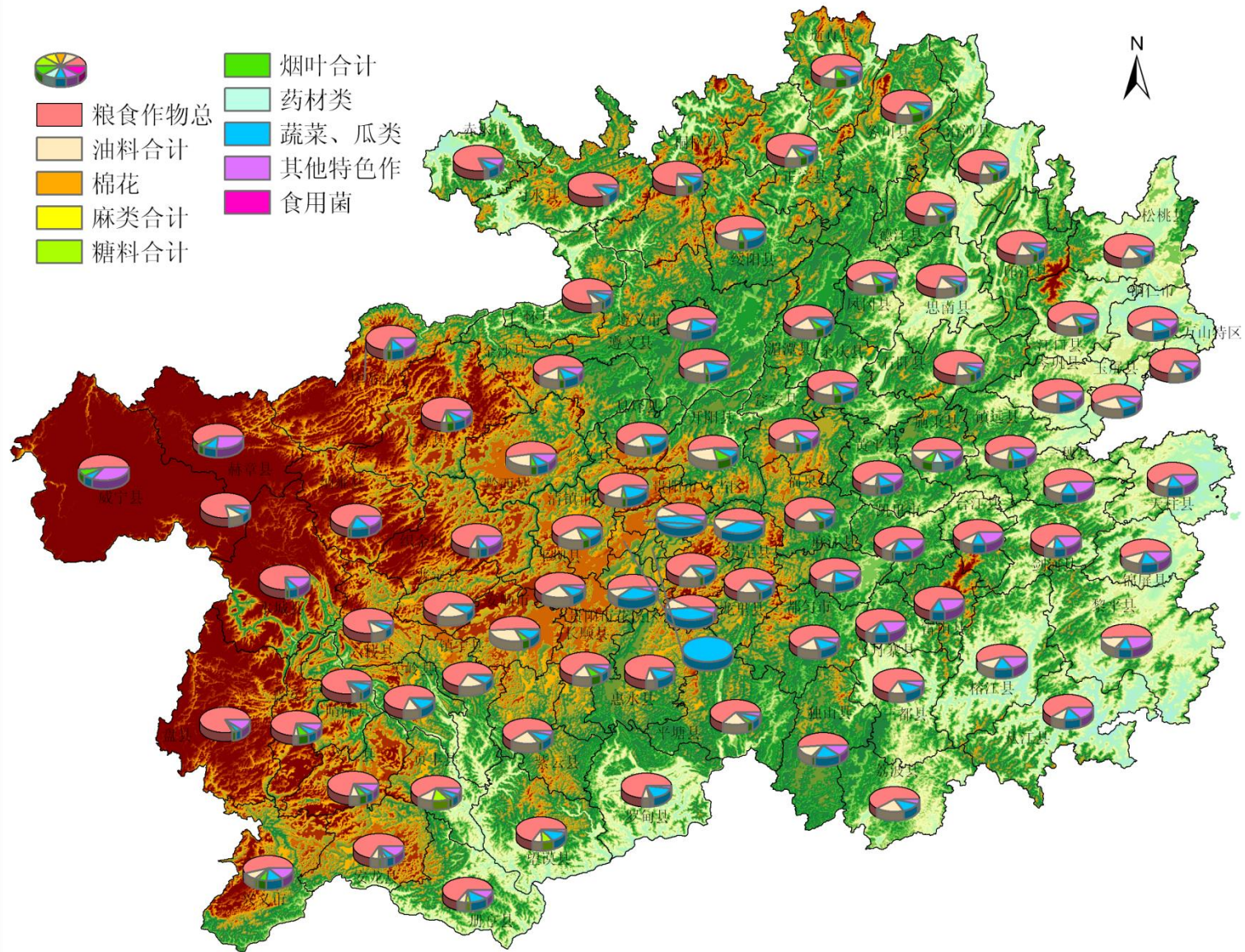
烟叶合计

药材类

蔬菜、瓜类

其他特色作

食用菌







# **The Constraints of Mountain Farming in Guizhou**



- **The sunrays, temperature and rainfall in Guizhou can theoretically meet most local crops' requirement in whole growth period. However, the crops often suffer from flood and**

- **drought seasonally and regionally due to insufficient irrigation facilities. As a consequence, crop's yield is decreased and soil erosion is increased by flash flood down slope, which severely reduces the sustainability of mountain farming.**



# Major crops in Guizhou



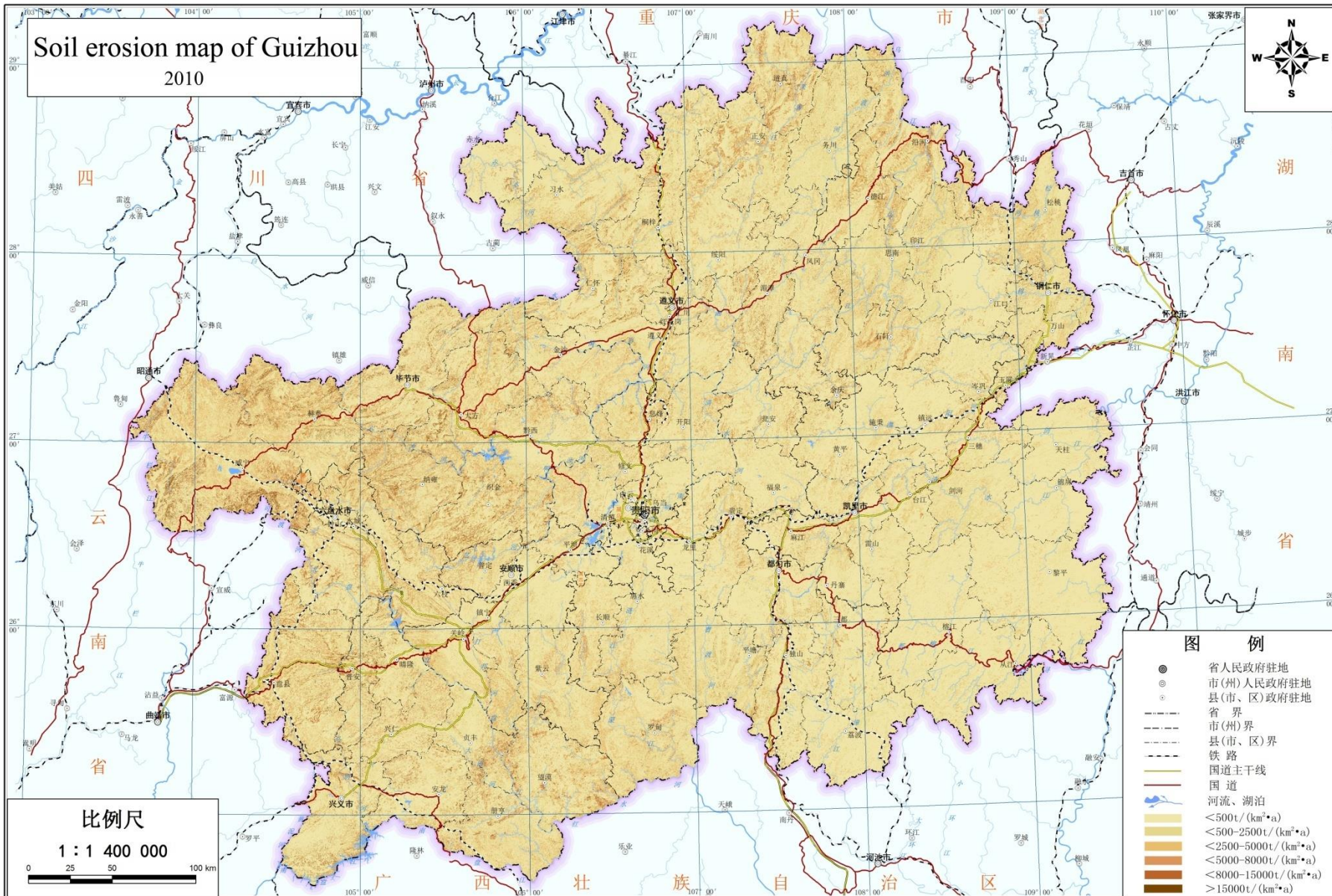
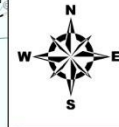
Items	Sown area (1000 ha)	Irrigated (%)	Rain fed (%)	Potential yield irrigated (t/ha)	Potential yield rain-fed (t/ha)	Potential yield average (t/ha)	Potential output (1000 t)
Rice	1139.1	79.0	21.0	7.3	7.3	7.3	8315.4
Wheat	571.8	9.9	90.1	8.0	8.0	8.0	4574.4
Maize	918.5	0	100	5.0	5.0	5.0	4592.5
Potato	360.2	0	100	6.1	5.3	5.3	1909.1
Soybean	175.6	0	100	2.8	2.8	2.8	491.7
Rapeseed	580.8	0	100	2.9	2.9	2.9	1684.3





# Soil erosion map of Guizhou

2010



## 图例

- 省人民政府驻地
- 市(州)人民政府驻地
- 县(市、区)政府驻地
- 省界
- 市(州)界
- 县(市、区)界
- 铁路
- 国道主干线
- 国道
- 河流、湖泊
- 浅黄色 <math>< 500\text{t}/(\text{km}^2\cdot\text{a})</math>
- 淡黄色 <math>< 500\text{--}2500\text{t}/(\text{km}^2\cdot\text{a})</math>
- 黄色 <math>< 2500\text{--}5000\text{t}/(\text{km}^2\cdot\text{a})</math>
- 橙黄色 <math>< 5000\text{--}8000\text{t}/(\text{km}^2\cdot\text{a})</math>
- 橙色 <math>< 8000\text{--}15000\text{t}/(\text{km}^2\cdot\text{a})</math>
- 深橙色 <math>> 15000\text{t}/(\text{km}^2\cdot\text{a})</math>

比例尺

1 : 1 400 000

0 25 50 100 km

# CONCLUSION

- **In conclusion, improving sustainability of mountain farming in Guizhou province of China basically relies on the construction of infrastructure focusing on irrigation facilities of farming land...**



***Thank you***

***for your attention!***

