



COHD 人文与发展学院
College of Humanities and Development Studies (COHD)

China Agricultural Development: Driven by Two Wheels

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Contents



Achievements of China's Agricultural Development

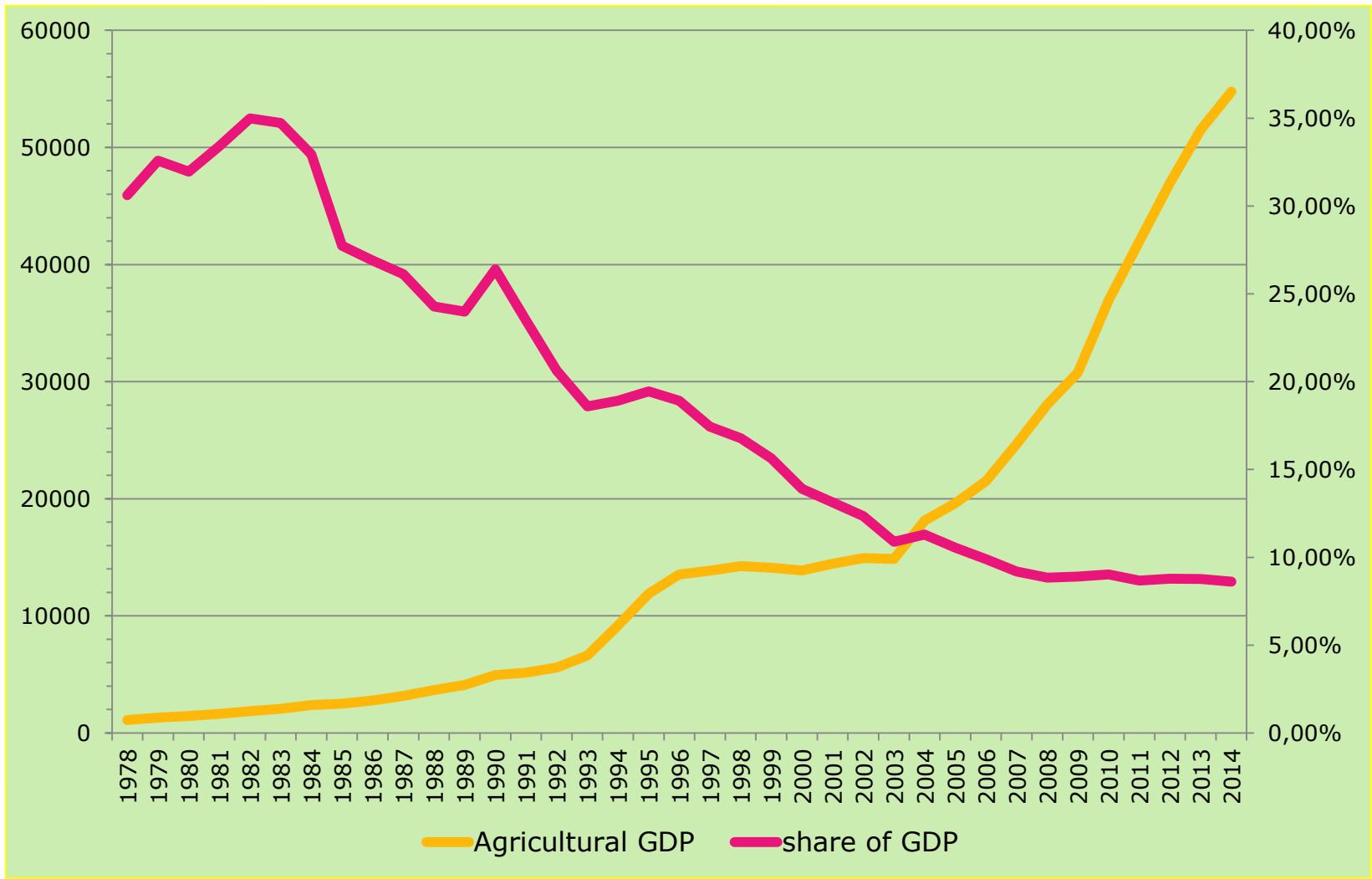


Why China can make Agriculture Successful

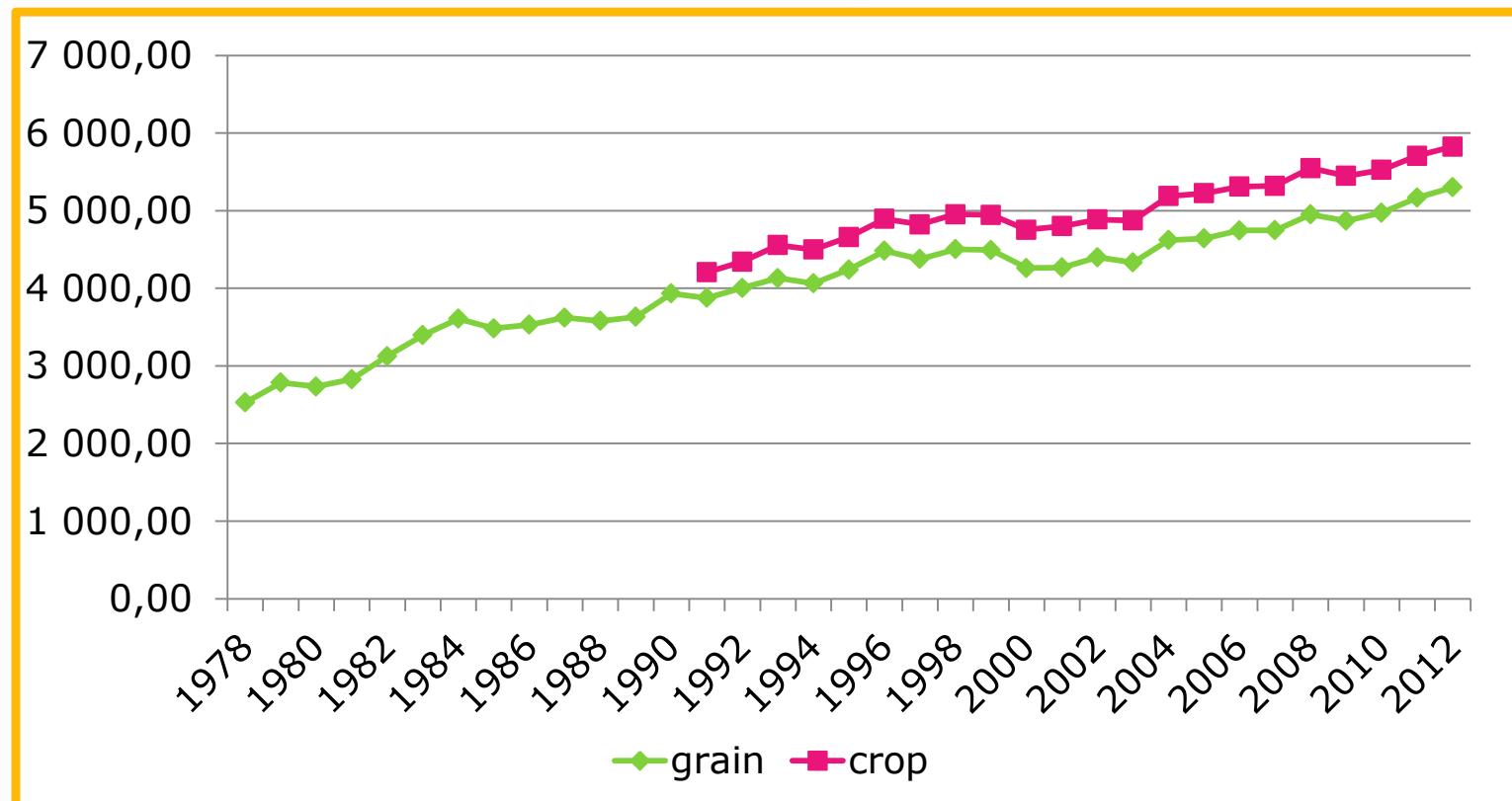


The Challenge of China's Agricultural Development

Achievements of China Agri-Development

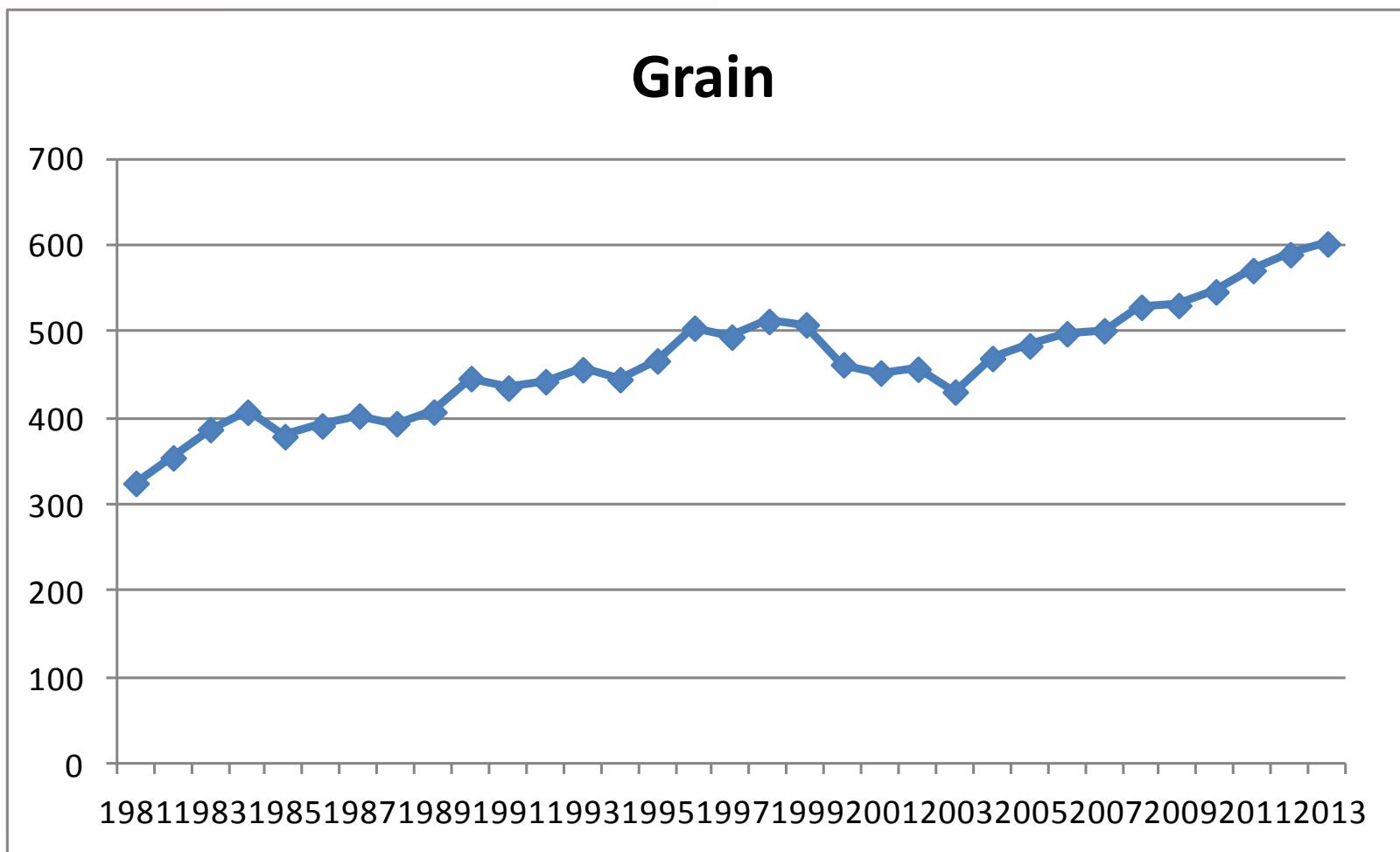


■ Capacity of Agricultural Production

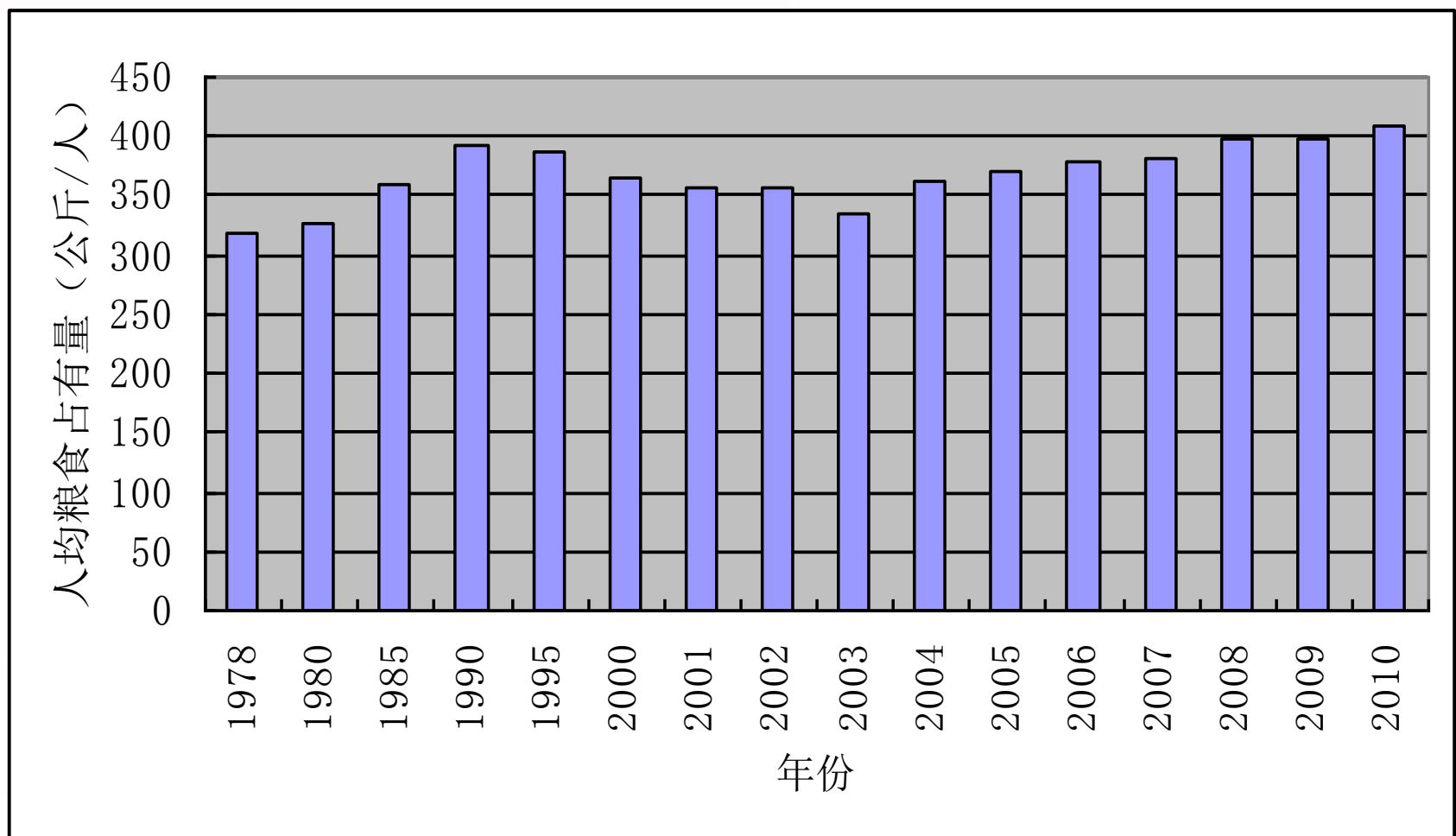


Yield of Grain and Crop (kg/ha)

■ Total yield of Grain growth: 2013:
602 million ton



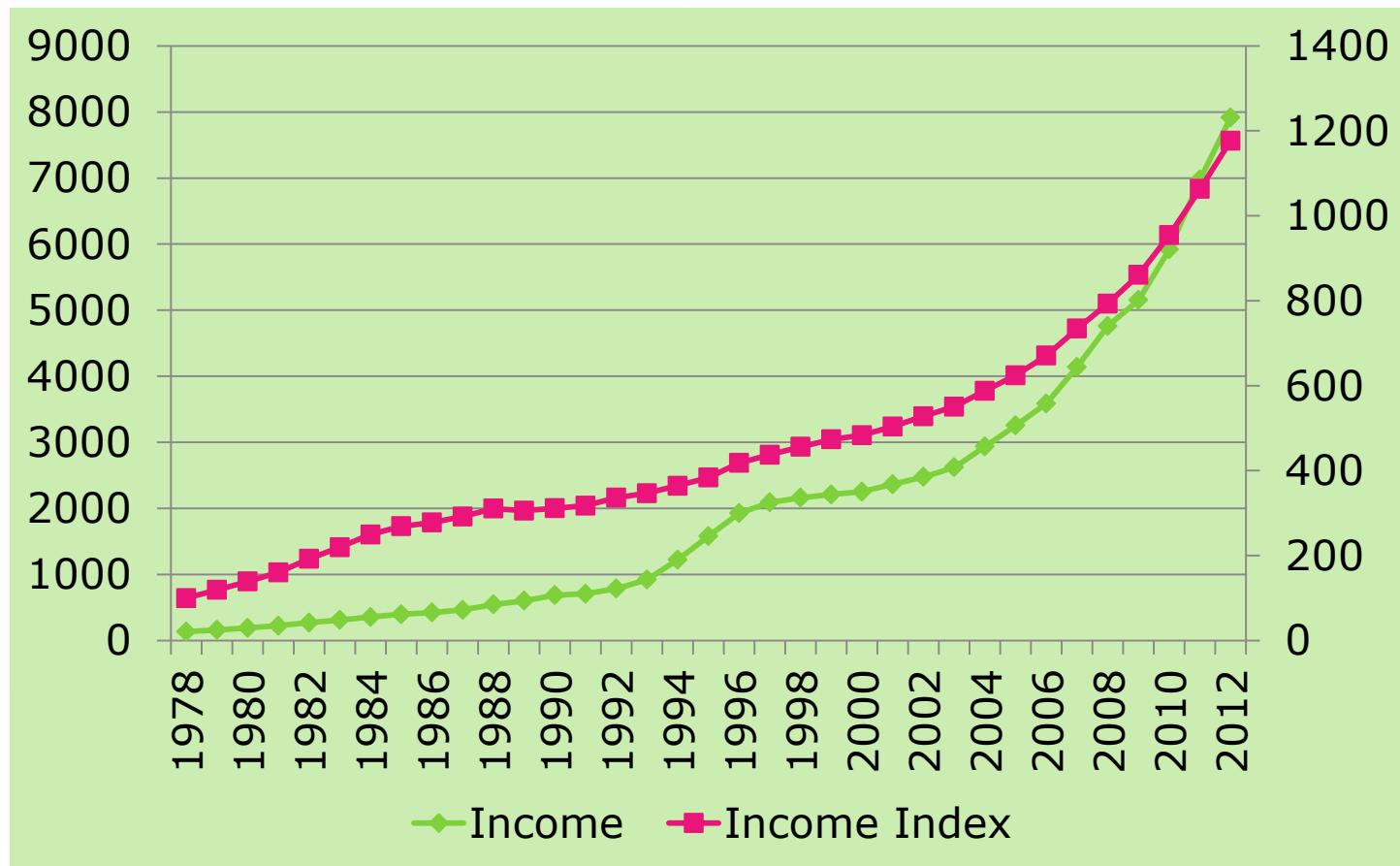
■ 22% of population fed by 7% of world arable land



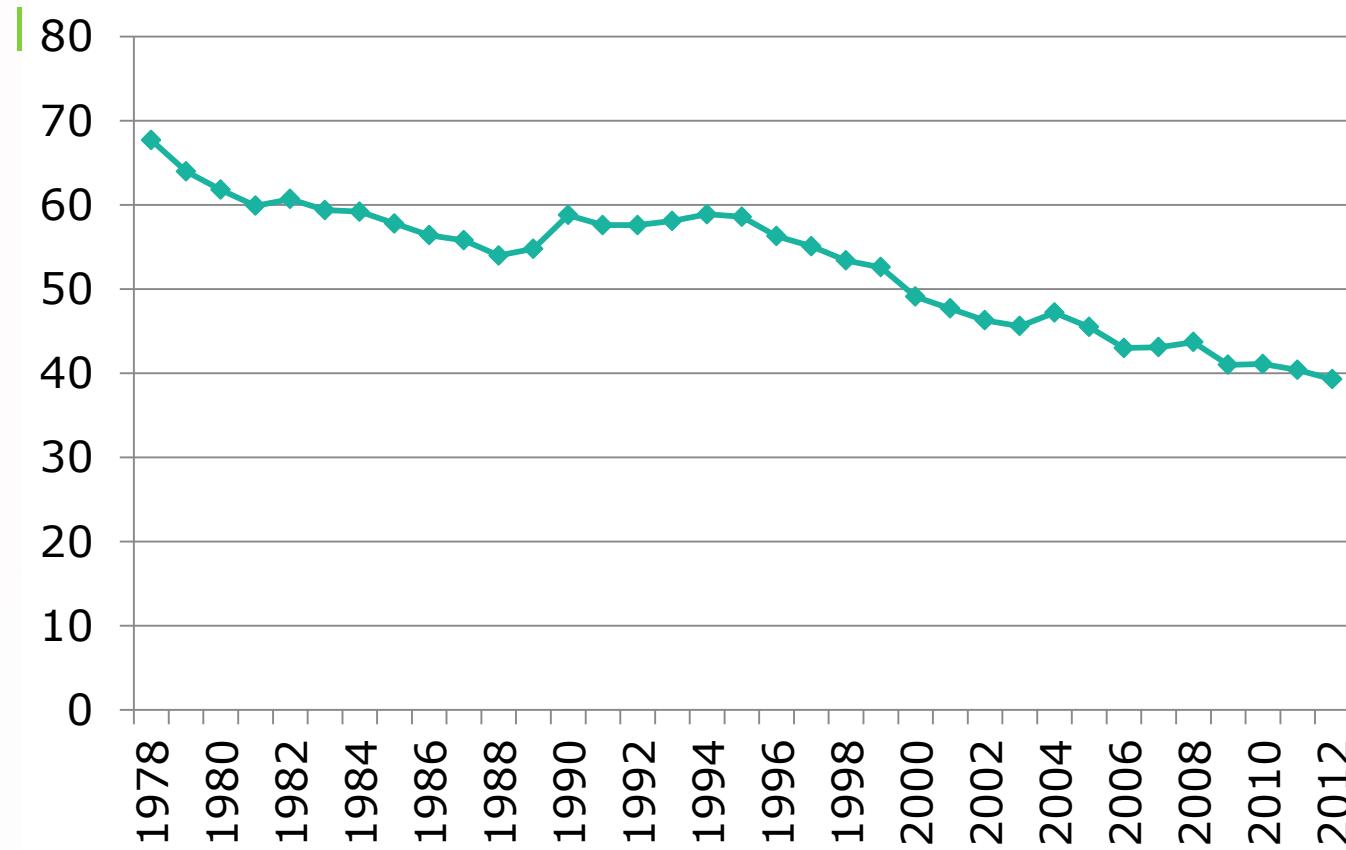
Growth of Per capital Income of Farmers

income

Income index



Quality of Rural Life (food and non food)



Engels Coefficient (%)

■ Main driver for poverty reduction

1985-1996			1996-2008		
Agriculture	Industry	Service	Agriculture	Industry	Service
-2.35*** (-3.71)	-1.24*** (-2.65)	- 1.04*** (-4.44)	-2.56*** (-8.05)	-1.31*** (-18.64)	-1.25*** (-7.80)

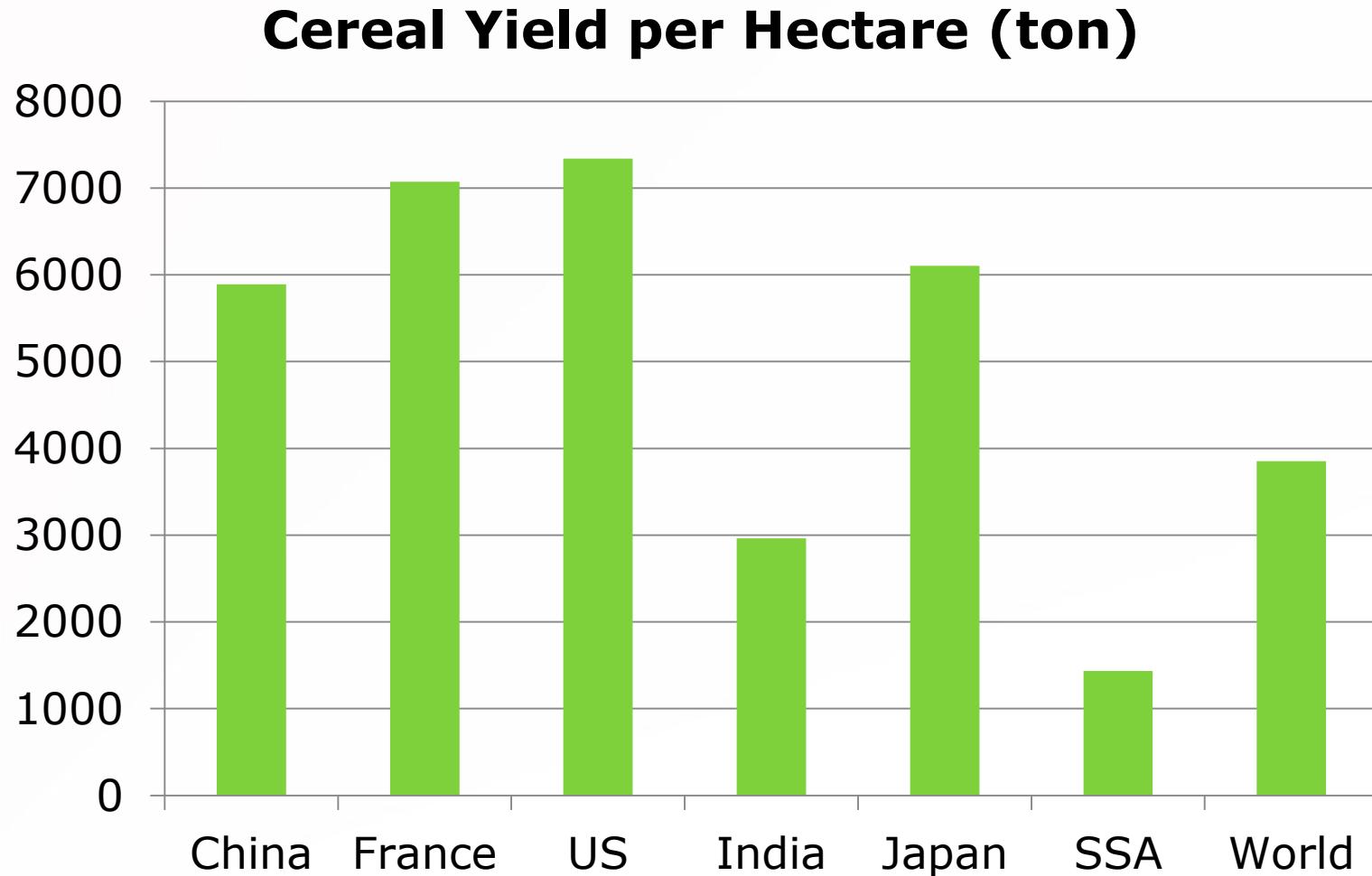
Why China Can Make Successful?

- Two-Wheels Driven
 - Smallholder farming system based on Household Responsibility System
 - Food security for rural population
 - Self-sufficient economy
 - Large-scaled State-owned Agricultural Reclamation System
 - Food security for urban population
 - Market-oriented with strong governmental intervention

Smallholder Farming System

	China (2012)	France (2011)
Rural household	260 million	0.5 million
Rural population	971 million	2 million
Rural population/total	60%	3%
Rural labour	539 million	1.0 million
Land per capita	0.08 ha	0.28 ha
Land per household	0.6 ha	¼ household > 82 ha, 10% household > 143 ha

Production Capacity



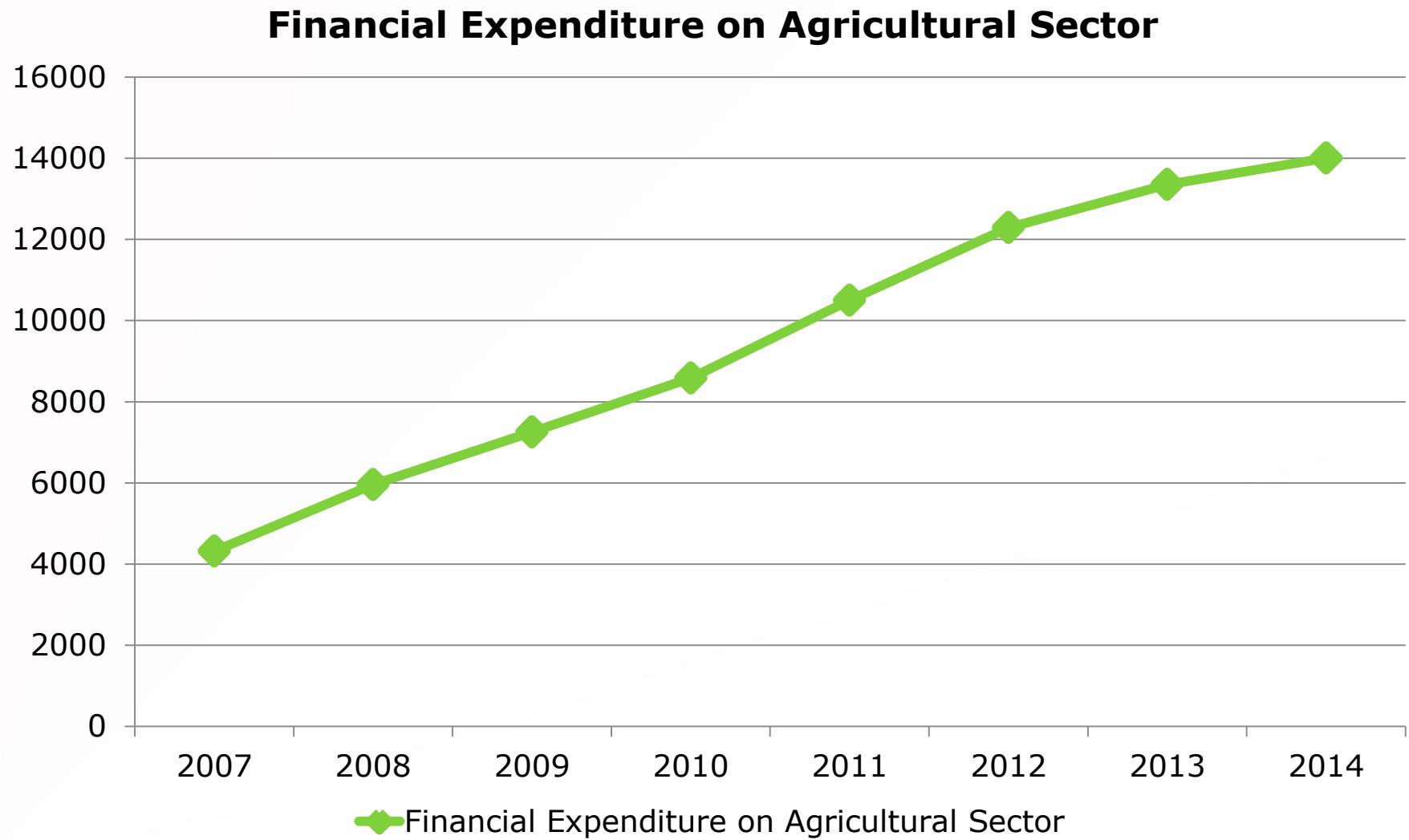
Why Smallholder Farming System Works

- Labour-intensive agricultural tradition and technology

- Policy-Driven Development

- Agricultural first policy
- Huge revenue support
- Regional development models
- Village self-governance
- Land Tenure system
- Infrastructure Development system
- Rural industry development
- Rural Social Security Policy

Huge revenue support



FINANCIAL INPUT ON AGRICULTURE/TOTAL FINANCIAL INPUT



Rural infrastructure

- Access to road of villages : 98.2%
- Access to electricity of villages : 99.7%
- Access to TV signal : 98.7%
- Access to telecom signal : 98.9%



Large-scaled State-owned Reclamation System

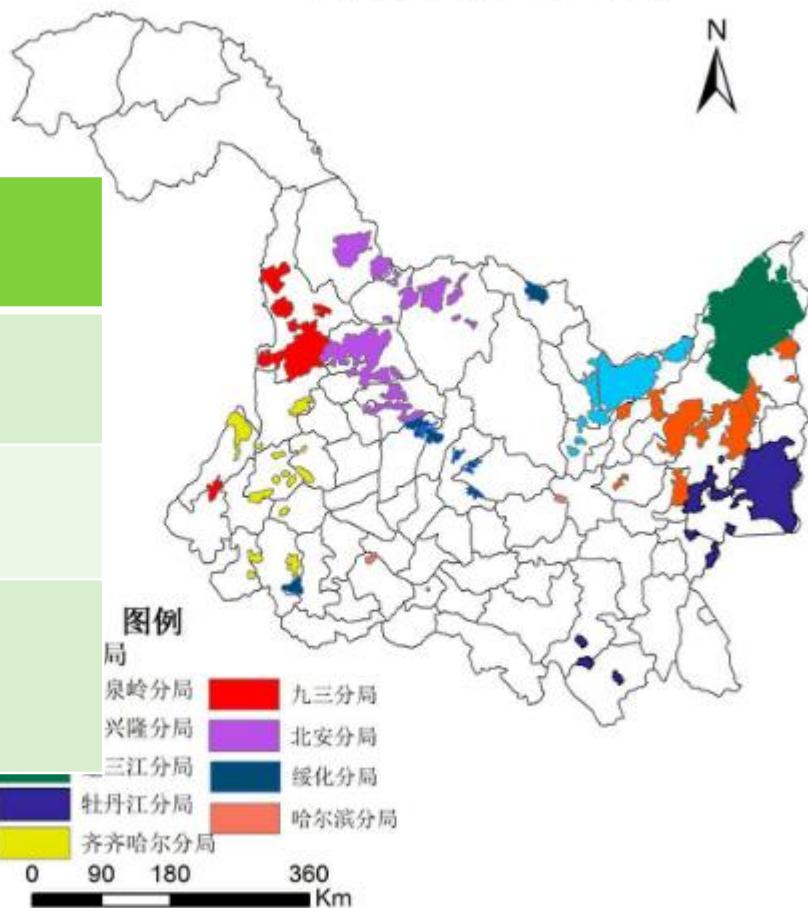
- 1811 agricultural reclamation farms in China (unit: M ha, ton)

	Total China	Reclamation Farms	%
Arable land	135.16	6.66	4.93%
Food crop land	112	4.83	4.31%
Total yield	602	34.19	5.68%
Commercialization rate	65%	90%	

■ One case from Heilongjiang reclamation farms

黑龙江垦区分布图

N



	Heilongjian g	Share of total
Cultivated land	2.84 million ha	1/45
Total grain	40.7 million ton	1/30
Commercial grain	38.3 million ton	1/4

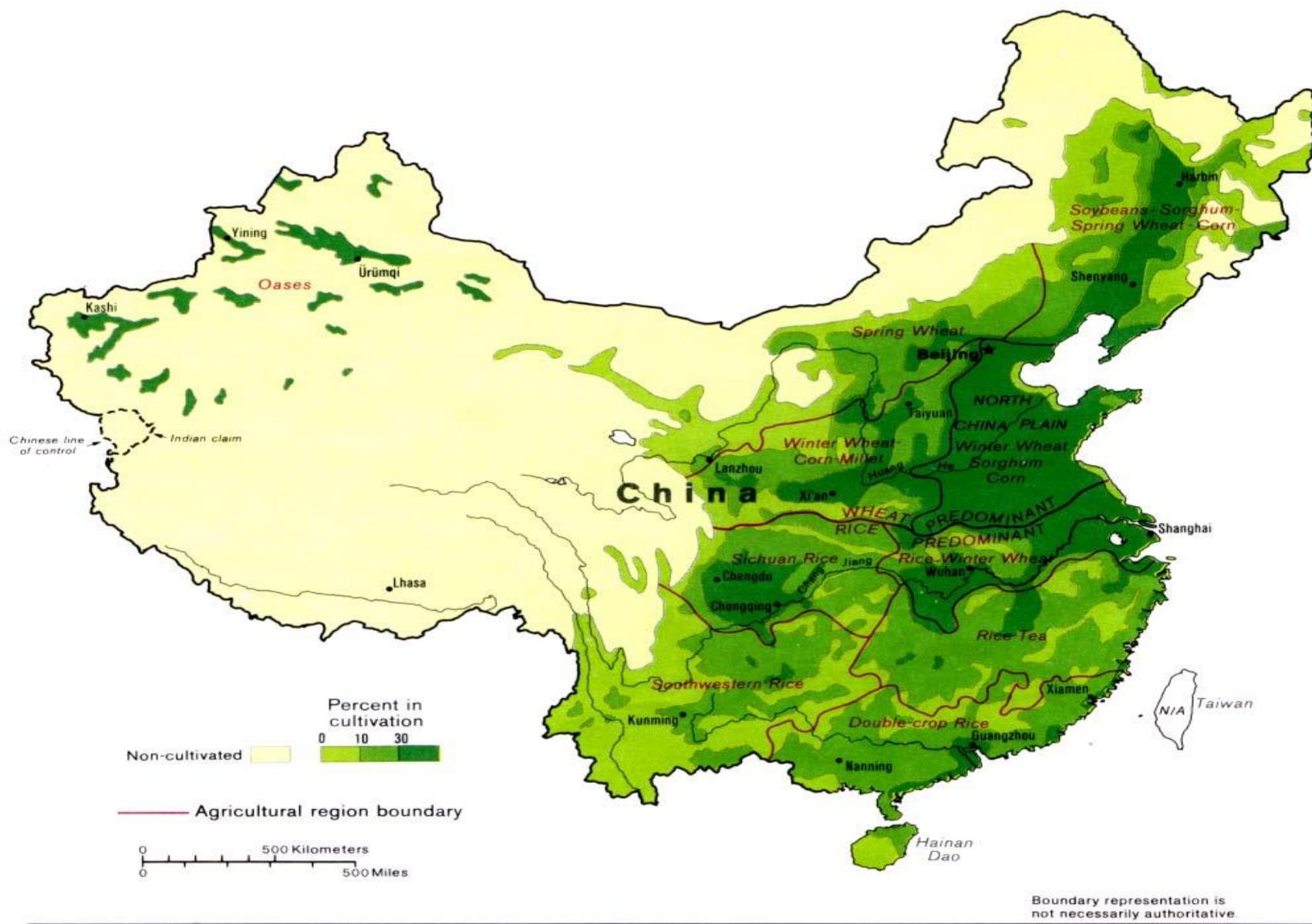
- Cultivated land of reclamation farms in China mainly from consolidation of unusable land.
- Enterprising managing model
- Modernization and mechanization



Challenges of China Agriculture

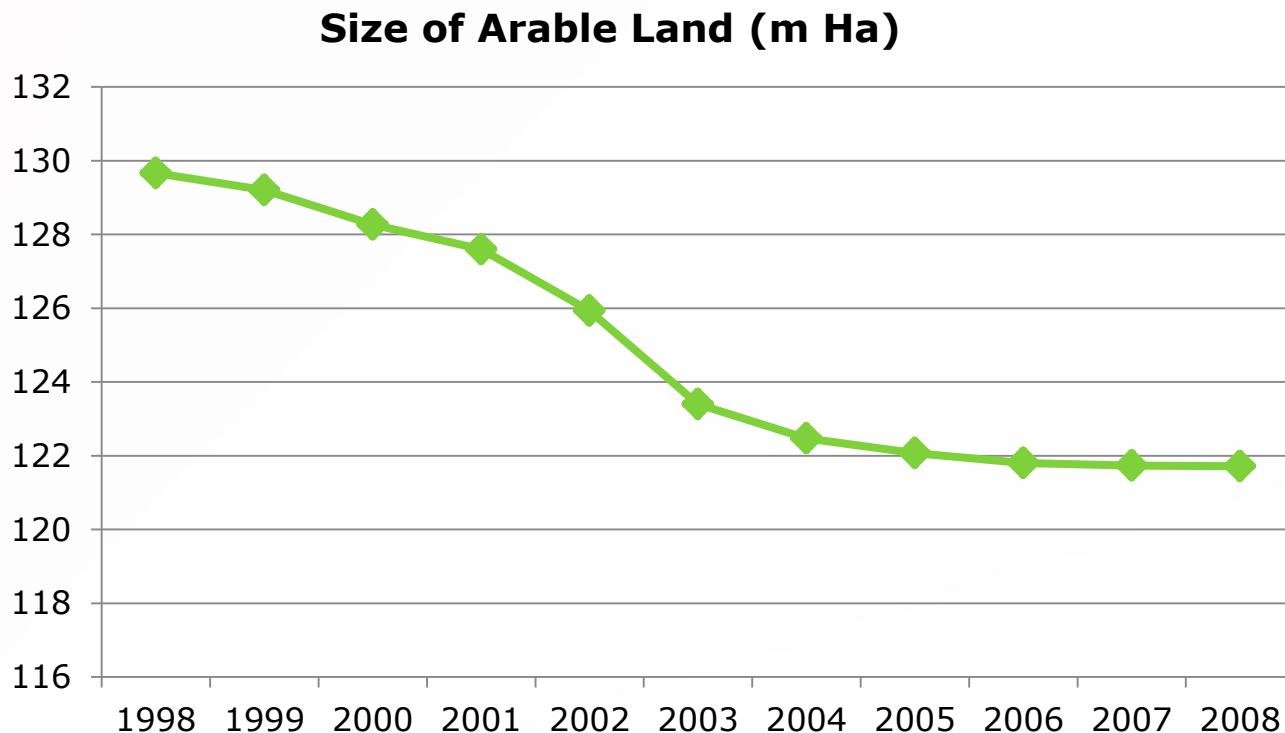
- Resource restriction
 - Land resource restriction due to urbanization and industrialization
 - Labour resource restriction due to population mobilization
 - Water resource restriction due to water shortage
 - Climate change and natural disasters

Agricultural Regions



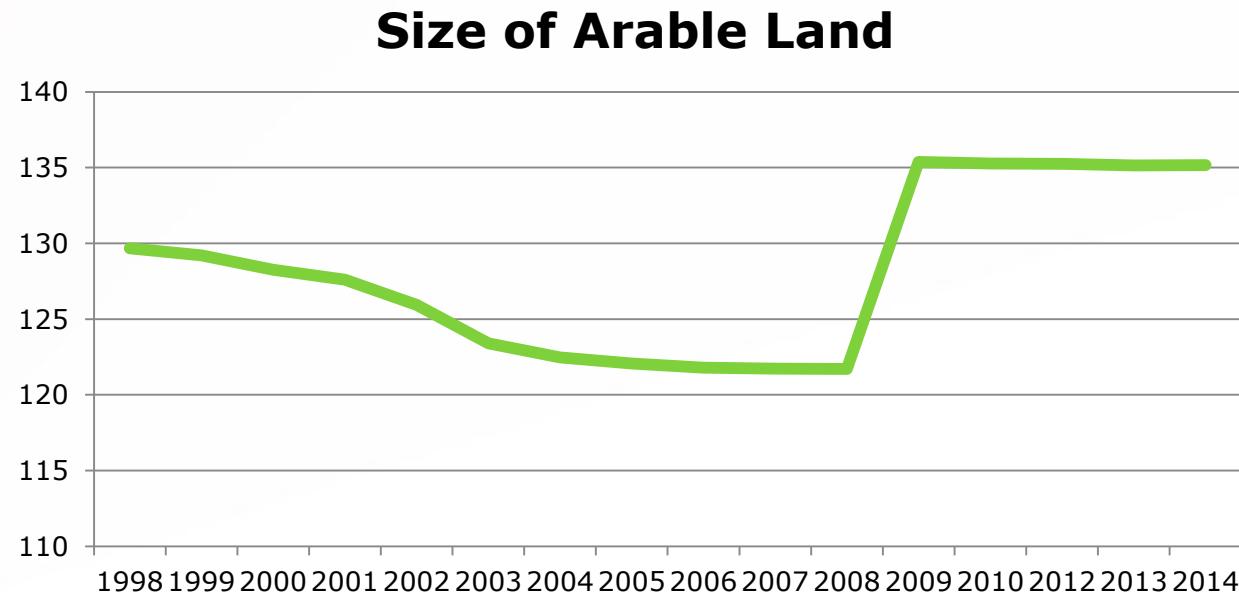
Challenge of China Agriculture

■ Arable land and Human resource

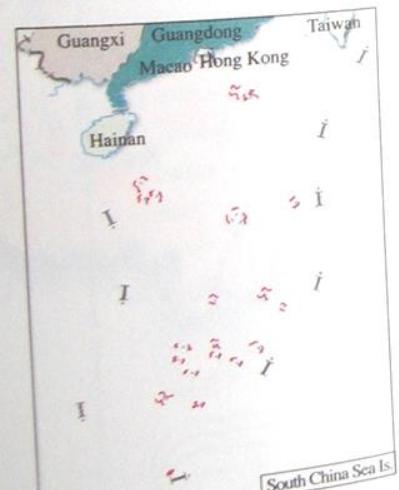


Countermeasures

- Strict farmland protection system
- land consolidation campaign: 24.95 billion yuan for new arable land 256.5 thousand Ha.

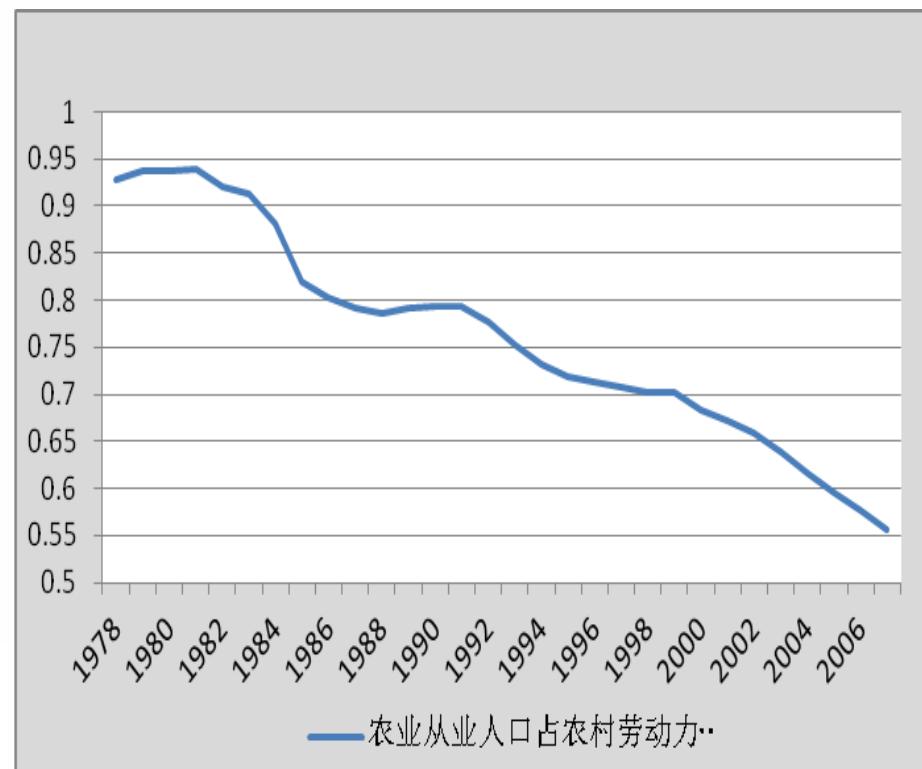
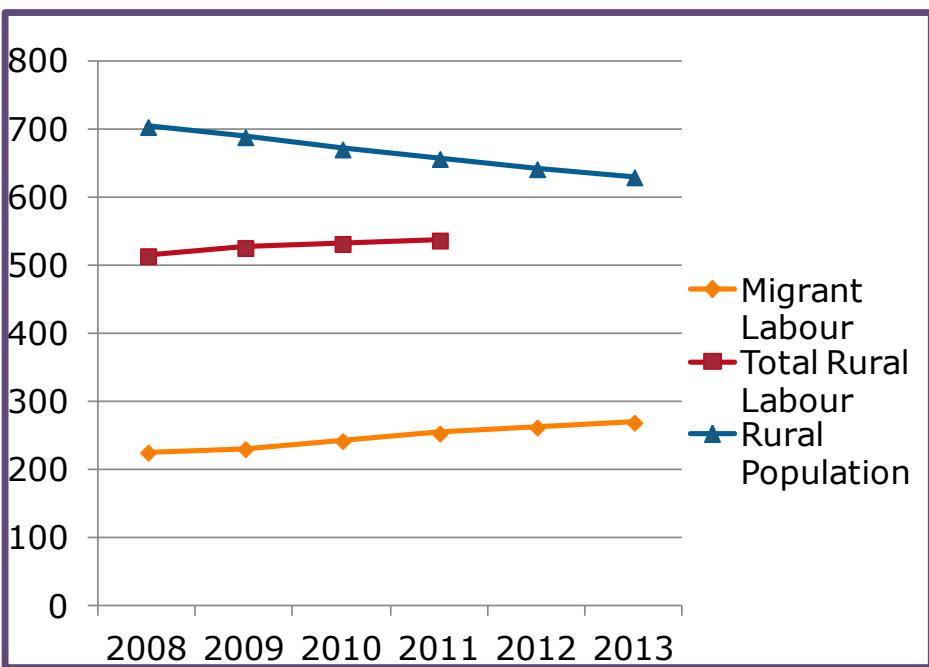


into one characterized



19.06.2010

■ Farmers to Migrant Labours (thousand headcount)



Farmers/rural labours

Countermeasures

■ New transitions in smallholder system

■ Family farmers

- 877 thousand family farmers
- Land per household is about 13.33 ha
- Total land: 11.73 million ha with 13.4% of total land

■ Farmer Cooperative organizations

- 980 thousand cooperative organizations
- 74 million rural households with 25% of total rural household

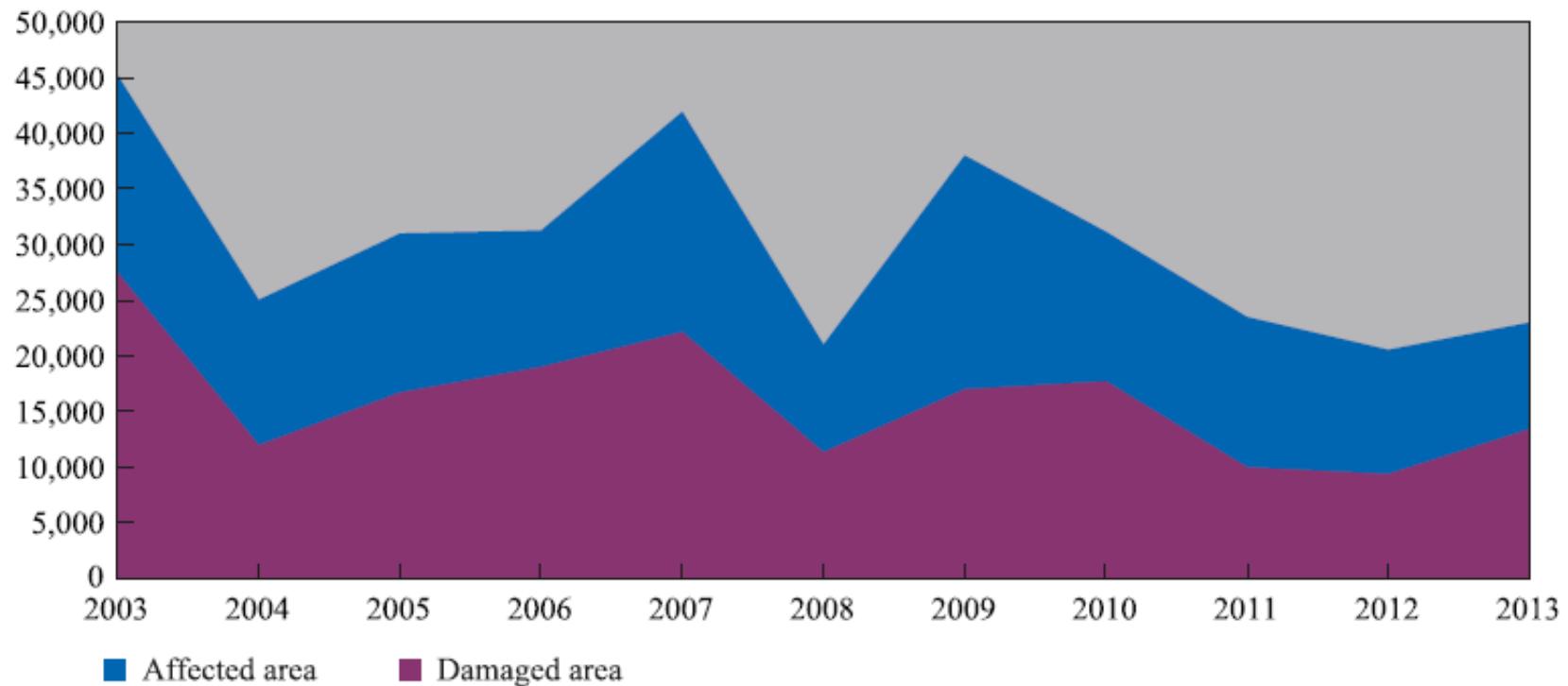
Irrigation and Water Resource

- Water per capita: 2173 m³, ¼ of world average level
- Irrigation land: 634.7 million ha, 46.96% of total arable land
- Agricultural using water/ total using water: about 60%

Agricultural disaster area

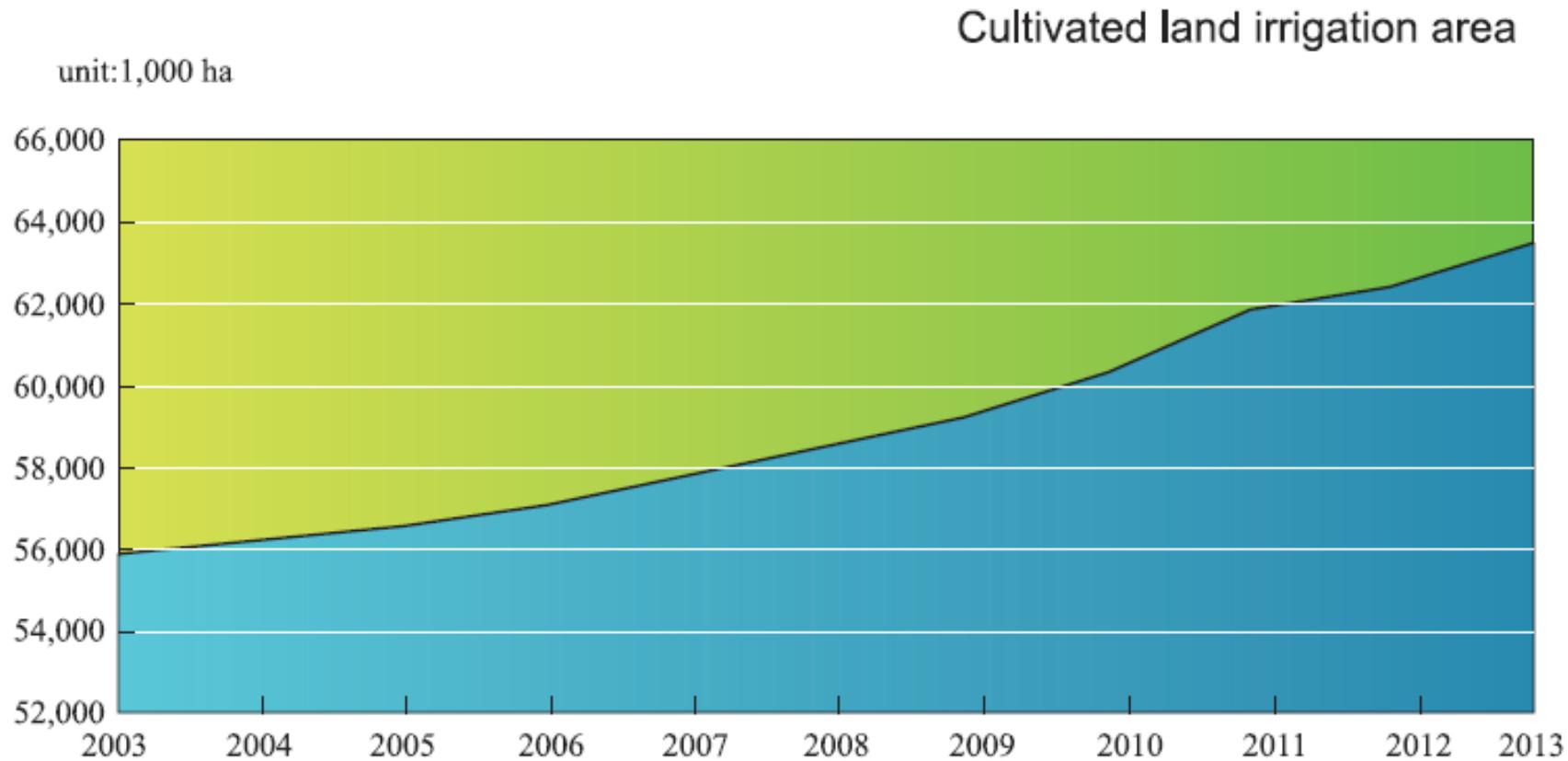
Flood or drought affected and damaged areas

unit: 1,000 ha

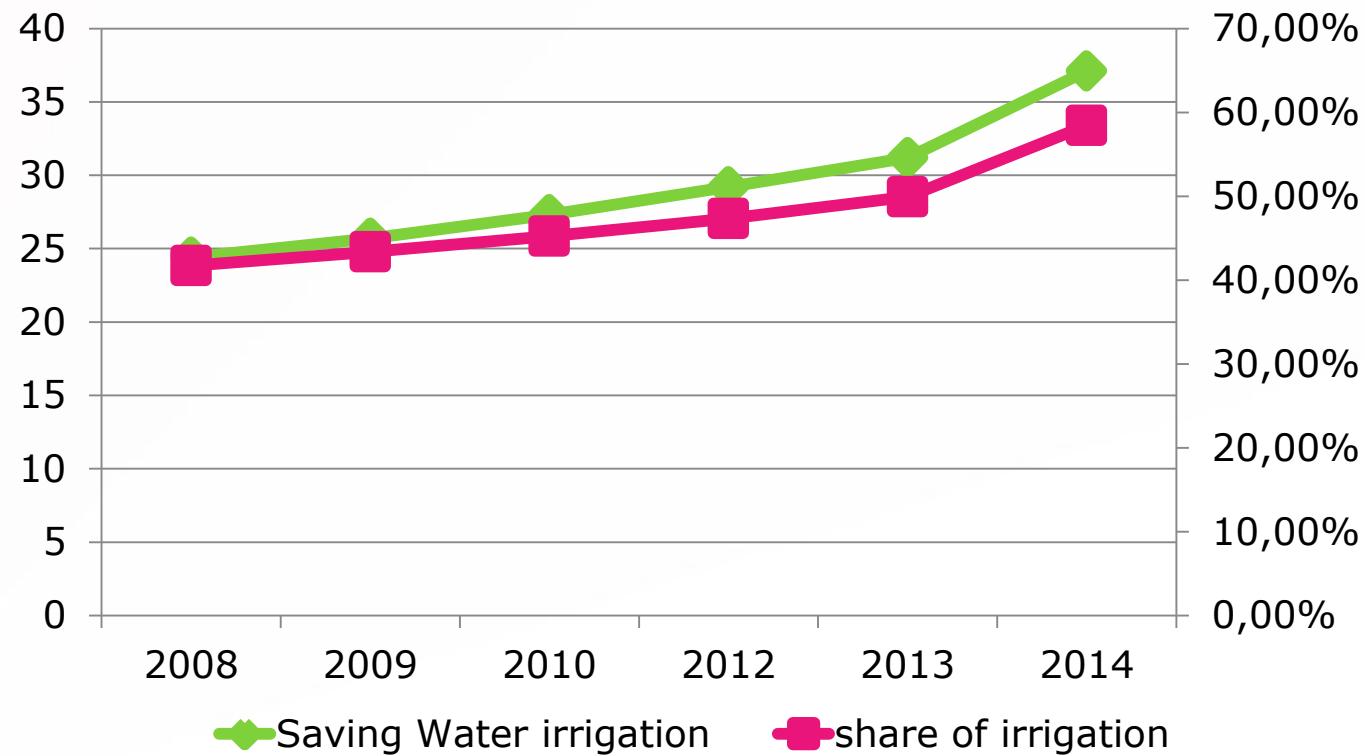


Countermeasures

■ Irrigation and water conservancy construction



■ Water saving irrigation programme (m ha)



- Thank you for your attention
- Questions?
- Contact way: Tanglx@cau.edu.cn

