# Current Development and Prospect: Potato Production and Processing in China



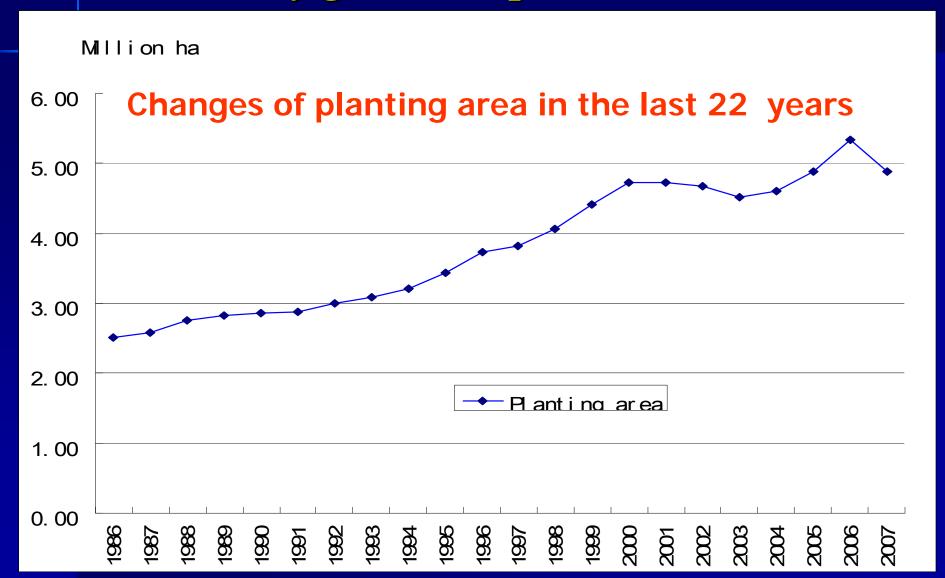
## The importance of potato industry

- Fifth most important food crop in China:
  - Vegetables and staple food
  - Processing
- Poverty alleviation
- Food security
- Farmer's income

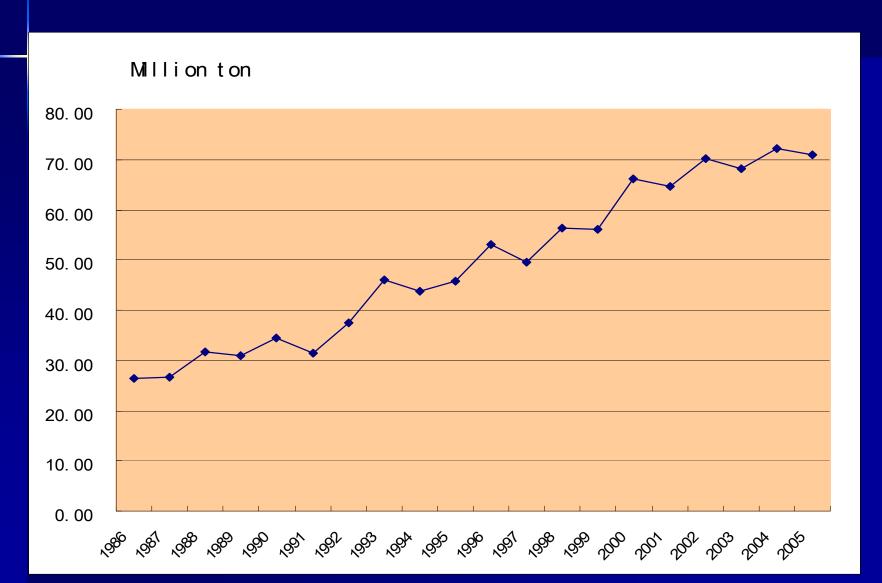




## 1. Over view potato production in China1.1 Steady growth of production

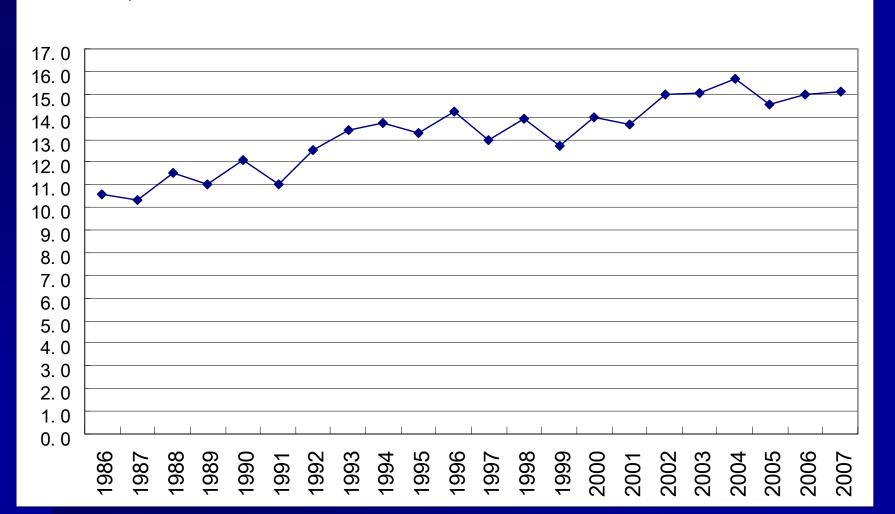


#### Changes of potato production in the last 20 years

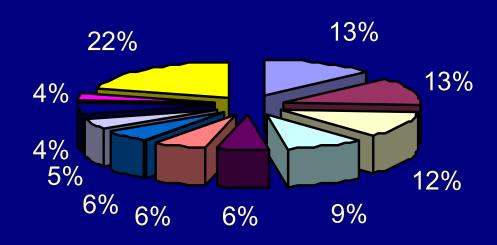


#### Changes of potato yield in the last 22 years

tons per ha

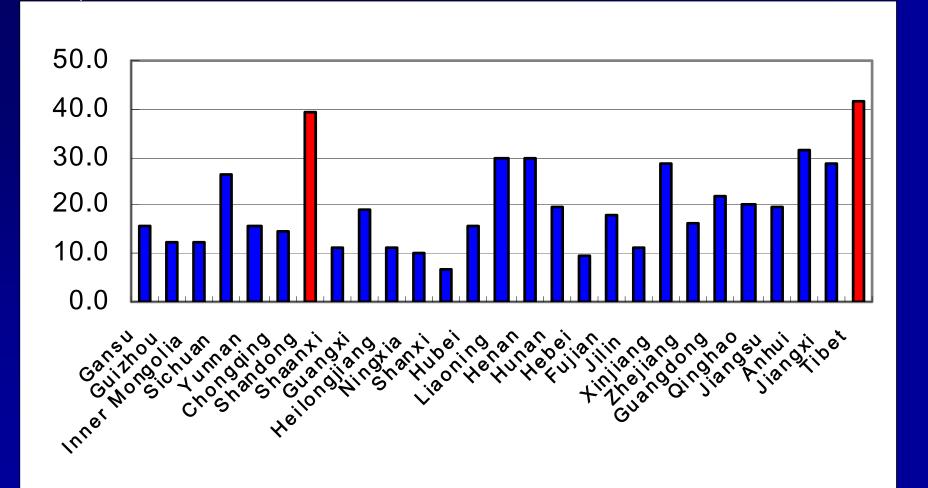


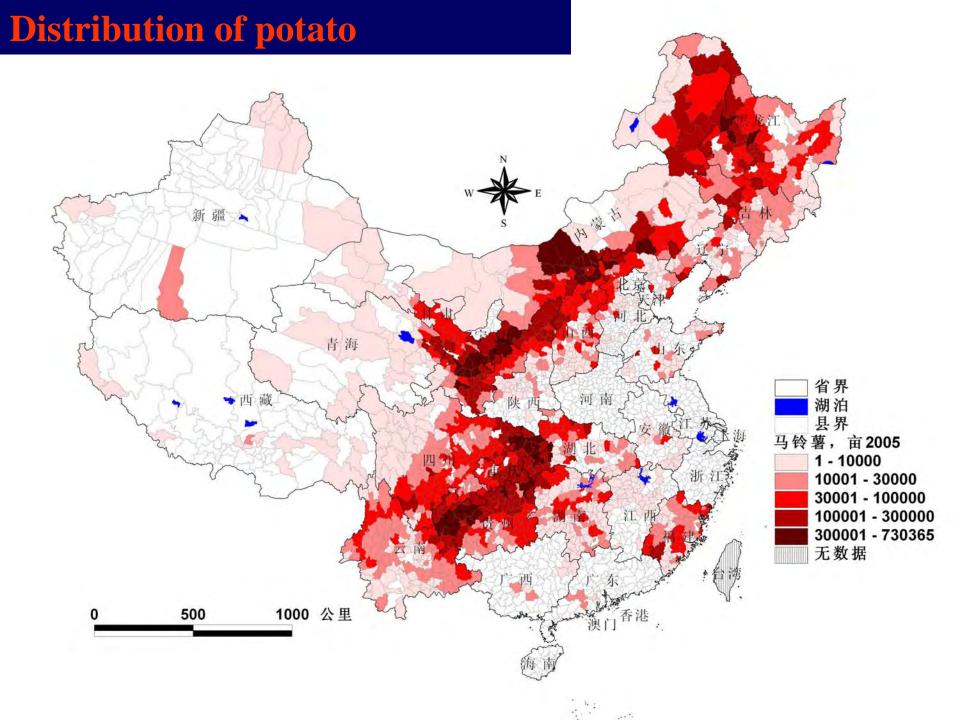
## 10 leading provinces by area



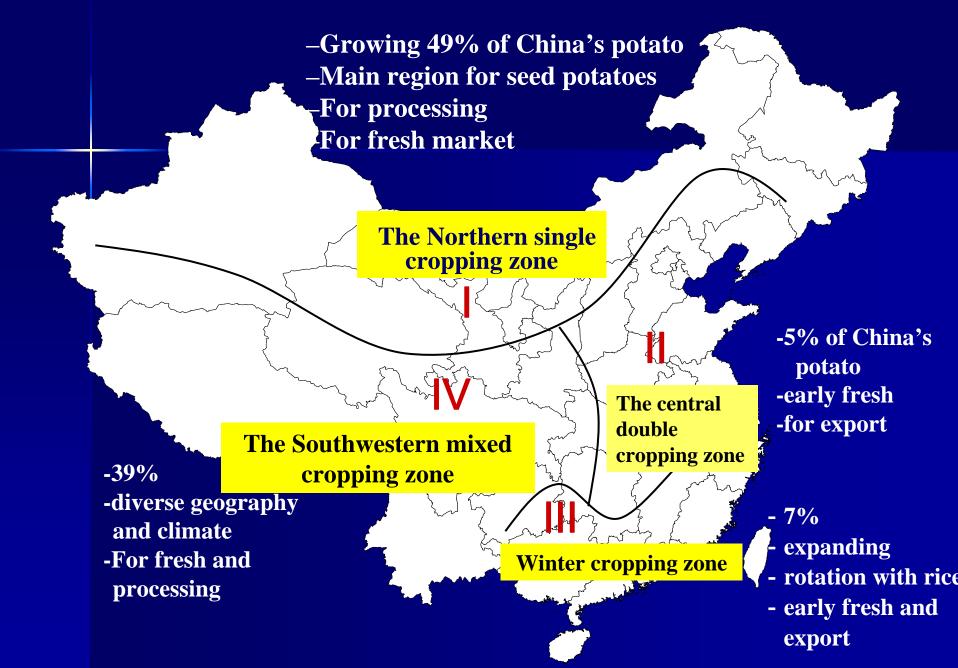
- Gansu
- Inner Mongolia
- ☐ Guizhou
- Yunnan
- Chongqing
- Shanxi
- Sichuan
- Shaanxi
- Heilongjiang
- Ningxia
- other

## Yield changes by province in 2007





#### 1.2 Dominant zones being formed



## 1.3 Expanded use of improved variety and quality seed

#### **Varieties**

- >120 varieties have been developed in last 10 years
- 90 of them being grown commercially presently







## 1.3 Expanded use of improved variety and quality seed Seed potatoes production

- 400 million of minitubers produced
- 25% of total growing area use good quality seed
- Seed and marketing participated by institutes, univeristies, enterprises and joint ventures
- 23 national minituber propagation centers have been established
- 2 national potato quality supervision centers

## **Seed potatoes production**



### Main seed potato production region

### North single cropping regions

- Inner Mongolia, Heilongjiang, Hebei, Gansu, Ningxia, and Qinghai
- Seed tubers are transported to central and winter cropping area

### Southwest mixed-cropping regions

- Guizhou, Yunnan, Hubei, Chongqing, Sichuan
- Supplying seed tubers inside the region

## 1.4 Improvement in cropping mode and culture technology



mechanized farming



mulching for keeping soil moisture in the North



**Dripping under mulch in Qinghai** 

## 1.4 Improvement in cropping mode and culture technology



intercropping



mulching for keeping soil warm



1.4 Improvement in cropping mode and

culture technology



no/less tillage with rice straw covering





### 2. Overview of potato Processing industry

- > 5000 enterprises, among them, only 140 in large scale(10,000 products per year)
- Refined starch: 2 million tons of designed capacity, 300,000tonnes output. Potato shortage.
- flour: about 10 companies with a capacity of 100,000 tons, output 30,000 tons
- fries: about 10 companies with processing capacity of 130,000 tons, output 70,000 tons
- Chips: about 30 with processing capacity of 130,000 tons
- Starch noodles: 80,000 tons

#### 3. Technical needs

- seed potatoes quality improvement
- Varieties development
- Mechanization of farming
- Storage technology
- Processing

### 4.Prospects

- Growing consumer demand inside China
  - Per capita increased from 14kg in 2000 to 38 kg in 2006.
  - More Raw material for processing
  - Quality seed potaoes
- Bright prospects for exports
  - Increasing of international trade in 2000-2006
  - Geographical advantage for export potato to neighbouring countries (potential markets)

## Importers of frozen fries in ESEA (2002)

