

## II Current situation of crop in China

At present, China ranks the first in total grain output in the world, with per capita output of grain reaching approximately [REDACTED] tonnes (including legume and tuber crops), more than the global average level.

Crop planting area in China has been relatively stable these years, with a fluctuation range of 2%. The grain crops are always the main crops being planted in China, accounting for [REDACTED]% of the total crop planting area in China in 1990, which was the largest proportion in history.

Table II.1 Planting area of different crops in China, 2000-2007 (10<sup>3</sup> hectares)

Item	2000	2001	2002	2003	2004	2005	2006	2007
grain crops	108,463	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
vegetable	15,237	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
oil-bearing crops	15,400	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
Cotton	4,041	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
melon	2,045	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
sugar crops	1,514	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
tobacco leaf	1,437	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
medicinal herbs	676	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
Other crops	7,487	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
<b>Total planting area of crops</b>	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]

Source: Ministry of Agriculture of the People's Republic of China

## II-4 GM crops

Table II-4.1 Key researchers of GM crops in China

No.	Person in charge	Institute	Research content
1	[REDACTED]	[REDACTED]	[REDACTED] [REDACTED] [REDACTED] [REDACTED]
2	[REDACTED]	[REDACTED]	[REDACTED]
3	[REDACTED]	[REDACTED]	[REDACTED]
4	[REDACTED]	[REDACTED]	[REDACTED]
5	[REDACTED]	[REDACTED] [REDACTED] [REDACTED] [REDACTED]	To transfer CpTI gene and develop GM rice "II-Youming 86" To do research on the gene of rice which regulates its flowering
6	[REDACTED]	[REDACTED]	[REDACTED]
7	[REDACTED]	[REDACTED]	[REDACTED]
8	[REDACTED]	[REDACTED]	[REDACTED]

### III-1 Overview of China's pesticide industry

Table III-1.6 Capacity and output of pesticides in China, 1994-2007 (converted to 100% technical, tonnes)

Year	Insecticides		Herbicides		Fungicides		Others		Total	
	Cap.	Output	Cap.	Output	Cap.	Output	Cap.	Output	Cap.	Output
1994										
1995										
1996										
1997	547,000									
1998	575,900									
1999	632,900									
2000	652,600									
2001	685,900									
2002	765,700									
2003	796,800									
2004	708,700									
2005	723,800									
2006										
2007										

Table III-1.10 Distribution of pesticide consumption in China in 2007, by province (tonnes)

Region	Herbicide	Insecticide	Fungicide	Total
Henan				
Shandong				
Hebei				
Hunan				
Sichuan				
Guangxi				
Guangdong				
Anhui				
Jiangsu				
Jiangxi				
Hubei				
Heilongjiang				
Shanxi				
Yunnan				
Jilin				
Liaoning				
Xinjiang				

Fujian				
Zhejiang				
Shanxi				
Guizhou				
Gansu				
Inner Mongolia				
Chongqing				
Hainan	569			
Ningxia	443			
Tianjin	323			
Beijing	313			
Shanghai				
Qinghai				
Tibet				
<b>Total</b>				

Source: CCM International Ltd.

Table III-2.2.2 Major manufacturers of herbicides in China in 2008, ranking by capacity

Herbicide	Ranking the 1st	Ranking the 2nd	Ranking the 3rd	Others
<b>Glyphosate</b>				
<b>Acetochlor</b>				
<b>Butachlor</b>				
<b>Nicosulfuron</b>				
<b>Atrazine</b>	Technology Co., Ltd. (%)	Chemical Industry Co., Ltd. (%)	Chemical Co., Ltd. (%)	others (25.20%)
<b>Paraquat</b>				

### IV-1.1 3S technology (Remote Sensing, Geography Information System and Global Positioning System)

Table IV-1.1.1 Institutes which developed radars used to monitor insects

Year	Radar	Institute
1986	Centimeter -wave radar for insect monitor	[REDACTED]
1998	Centimeter-wave radar for insect monitor	[REDACTED]
2004	Centimeter- wave vertical radar for insect monitor	[REDACTED]
2006	[REDACTED]	[REDACTED]
2006	[REDACTED]	[REDACTED]

### IV-3 Natural enemy introduction

Table IV-3.1 Natural enemies for the prevention and control of insect pests

Natural enemy	Insect pests	Source of natural enemy	Comments
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	Hyphantria cunea	[REDACTED]	[REDACTED]
[REDACTED]	Hemiberlesia pitysophila	[REDACTED]	[REDACTED]

### VI-1.1 Introduction to the major diseases

There are more than [REDACTED] types of plant diseases in the world and China is one of the most severely stricken countries by plant diseases.

#### - Diseases in traditional crops

China is a traditional agricultural country and the diseases in traditional crops are very serious. Rice, wheat, corn and cotton play very important roles in Chinese people's major food. The planting area of rice, wheat, corn, and cotton accounted for [REDACTED] of traditional crops in 2006.

The major diseases in rice, wheat, corn and cotton mainly include [REDACTED]  
 [REDACTED]  
 [REDACTED]

Table VI-1.1.1 Total stricken area of major diseases in traditional crops in 2003-2007, hectares

Year	Rice	Corn	Wheat	Cotton
2003	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
2004	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
2005	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
2006	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
2007	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]

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Table VI-1.1.5 Total area hit by major diseases in horticulture, 2006-2007, million hectares

Year	Vegetable					
	Frosty mildew	Powdery mildew	Grey mould	Phytophthora capsici	Fusarium wilt	Total
2006	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
2007	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]

### VI-2.1 Prevention and treatment in traditional crops

Table VI-2.1.1 Major pesticides that prevent and control diseases in traditional crops

	Rice blast	Sheath blight	Rice stripe	Big and small curvularia leaf spot	Stripe rust	Powdery mildew	Sharp eyespot	Fusarium wilt
Pesticides	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
	[REDACTED]	[REDACTED]	[REDACTED]	thiophanate methyl	[REDACTED]	[REDACTED]	[REDACTED]	
	[REDACTED]	[REDACTED]	[REDACTED]	chlorothalonil	[REDACTED]	[REDACTED]	[REDACTED]	
	[REDACTED]	[REDACTED]	[REDACTED]		[REDACTED]	[REDACTED]	[REDACTED]	