

Note: Key data/information in this sample page is hidden, while in the report it is not.

2 Supply and demand of starch in China

2.1.1 Overview of Chinese starch production situation

Table Output of starch in China, 2008-2011, tonne

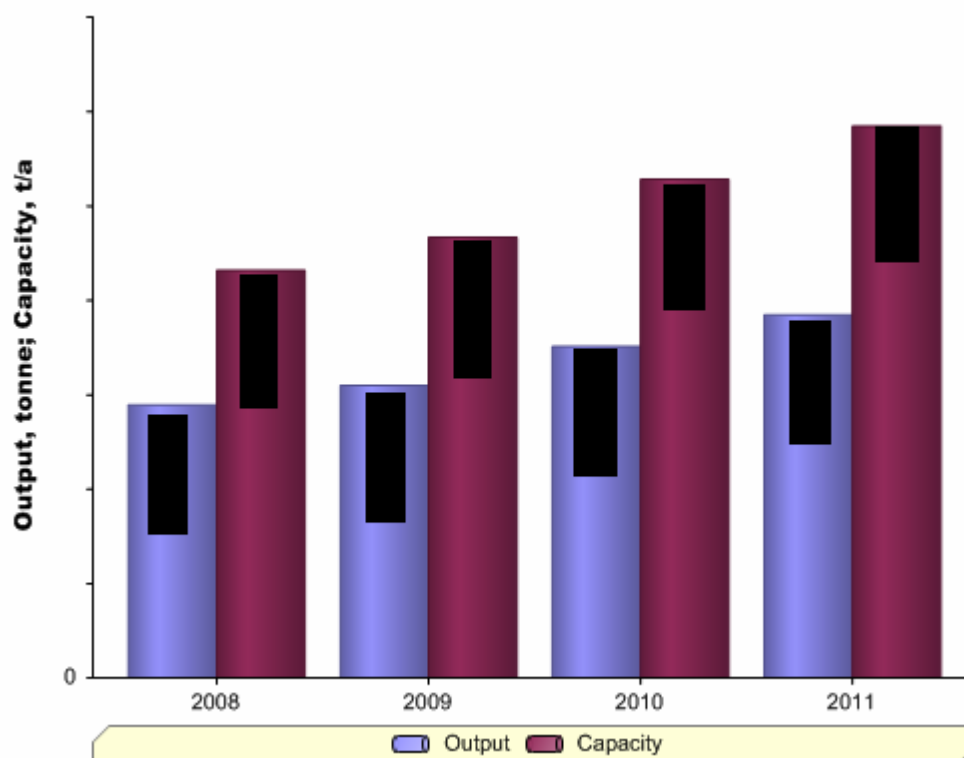
Year	Corn starch	Cassava starch	Potato starch	Wheat starch	Sweet potato starch	Others	Total
2008						400,000	
2009							
2010							
2011							

Source: CCM International

2.1.2 Corn starch

2.1.2.1 Capacity and output, 2008-2011

Figure Production of corn starch in China, 2008-2011



Source: CCM International

2.1.2.2 Key players

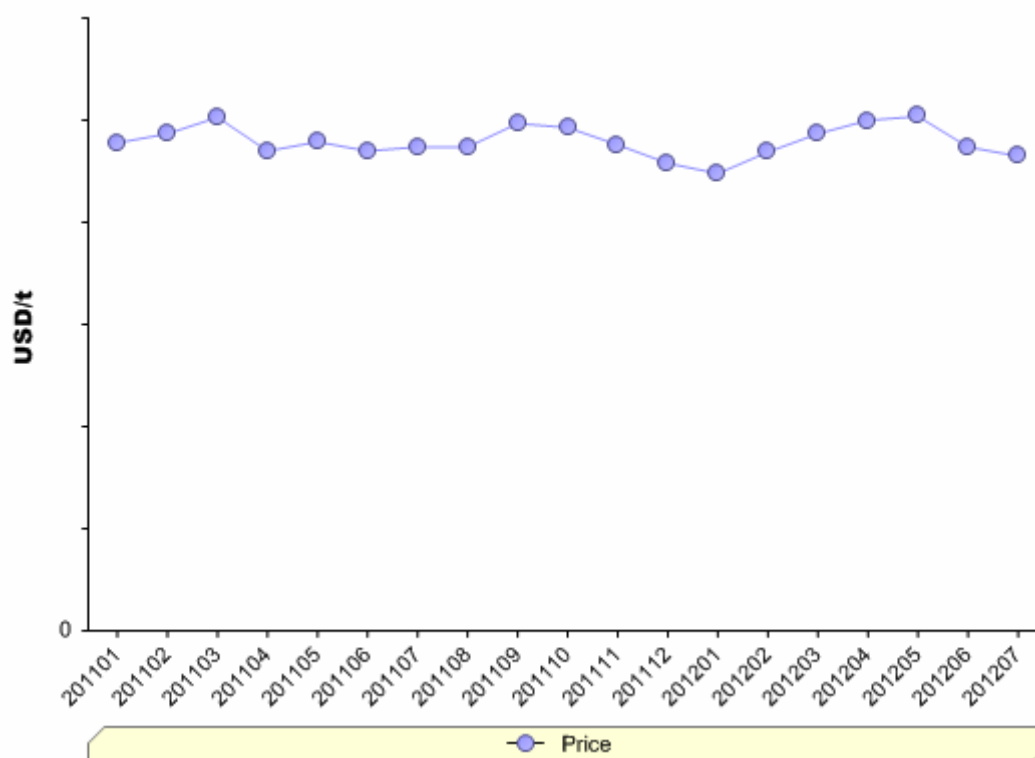
Table Capacity and output of main corn starch manufacturers in China, 2008-June 2012

No.	Manufacturer	Status, June 2012	Capacity, t/a					Output, tonne			
			June 2012	2011	2010	2009	2008	2011	2010	2009	2008
1	Zhucheng Xingmao	Active	■	■	■	■	■	■	■	■	■
2	XXX	Active	2,600,000	■	■	■	■	■	■	■	■
3	XXX	Active	■	1,800,000	■	■	■	■	■	■	■
4	XXX	Active	■	■	1,000,000	■	■	■	■	■	■
5	XXX	Active	■	■	■	1,300,000	■	■	■	■	■
6	XXX	Active	■	■	■	■	1,000,000	■	■	■	■
7	XXX	Active	■	■	■	■	■	800,000	■	■	■
8	XXX	Active	■	■	■	■	■	■	600,000	■	■
9	XXX	Active	■	■	■	■	■	■	■	450,000	■
10	XXX	Active	■	■	■	■	■	■	■	■	200,000
...
Others		/	■	■	■	■	■	■	■	■	■
Total		/	■	■	■	■	■	■	■	■	■

Source: CCM International

2.1.2.3 Price

Figure Monthly ex-work price of corn starch in China, Jan. 2011-Jul. 2012



Source: CCM International

2.1.2.4 Manufacturing cost structure

Table Manufacturing cost of corn starch in Shandong Province, July 2012

Item		Unit price (USD/unit)	Unit consumption per tonne of corn starch	Unit Cost (USD/t)
Variable cost	Corn	USD380/t	■ tonnes	■
	Water	USD ■/t	■ tonnes	■
	Electricity	USD ■/kWh	■/kWh	■
	Labor	USD ■/a	■ people for ■ t/a production	■
Fixed cost	Depreciation			■
	Maintenance			■
	Waste treatment			■
	Others (management fee, tax, etc.)			■
Total cost, USD/t				■
Cost of by-products (estimated)				■
Cost of corn starch				■

Source: CCM International

2.1.7 Forecast on starch production, 2012-2016

Table 2.1.7-1 Forecast on output of starch in China, 2012-2016, tonne

Year	Corn starch	Cassava starch	Potato starch	Wheat starch	Sweet potato starch	Others	Total
2012	■	■	■	■	■	■	■
2013	■	■	■	■	■	■	■
2014	■	■	■	■	■	■	■
2015	■	■	■	■	■	■	■
2016	■	■	■	■	■	■	■

Source: CCM International

2.2 Import & export of starch, 2009-2011

Table Import volume of starch in China, 2004-2011, tonne

Year	Corn starch	Cassava starch	Potato starch	Wheat starch	Others	Total
2004	3,095	■	■	■	■	■
2005	■	467,305	■	■	■	■
2006	■	■	68,231	■	■	■
2007	■	■	■	1,716	■	■
2008	■	■	■	■	459	■
2009	■	■	■	■	■	■
2010	■	■	■	■	■	■
2011	■	■	■	■	■	■

Source: China Customs

Table Monthly import volume and price of cassava starch in China, 2009-2011

Month	2011		2010		2009	
	Quantity, kg	Price, USD/kg	Quantity, kg	Price, USD/kg	Quantity, kg	Price, USD/kg
Jan.	75,727,581					
Feb.		0.54				
Mar.			84,564,497			
Apr.				0.42		
May					69,892,300	
Jun.						0.27
Jul.						
Aug.						
Sept.						
Oct.						
Nov.						
Dec.						
Total						

Source: China Customs

Table Monthly export volume and price of corn starch in China, 2009-2011

Month	2011		2010		2009	
	Quantity, kg	Price, USD/kg	Quantity, kg	Price, USD/kg	Quantity, kg	Price, USD/kg
Jan.	25,429,000					
Feb.		0.47				
Mar.			19,696,460			
Apr.				0.39		
May					32,906,000	
Jun.						0.33
Jul.						
Aug.						
Sept.						
Oct.						
Nov.						
Dec.						
Total						

Source: China Customs

Table Export volume of starch in China, 2004-2011, tonne

Year	Corn starch	Cassava starch	Potato starch	Wheat starch	Others	Total
2004	105,415					
2005		345				
2006			10,142			
2007				21,967		
2008					52,552	
2009						
2010						
2011						

Source: China Customs

2.3.1 Demand summary, 2009-2011

Table Consumption volume of starch in China, 2008-2011, tonne

Year	Sweet potato starch	Wheat starch	Corn starch	Cassava starch	Potato starch	Others	Total
2008							
2009							
2010							
2011							
CAGR '08-11	16.63%						

Source: CCM International

2.3.2 Demand segment

Table Starch consumption volume by application area in China, 2011

Industry	Consumption volume, tonnes	Proportion
Deep processing		
Food processing		
Papermaking		
Beverage		
Others		
Total		

Source: CCM International

2.3.3 Forecast, 2012-2016

Table Forecast on demand of starch in China, 2012-2016, tonne

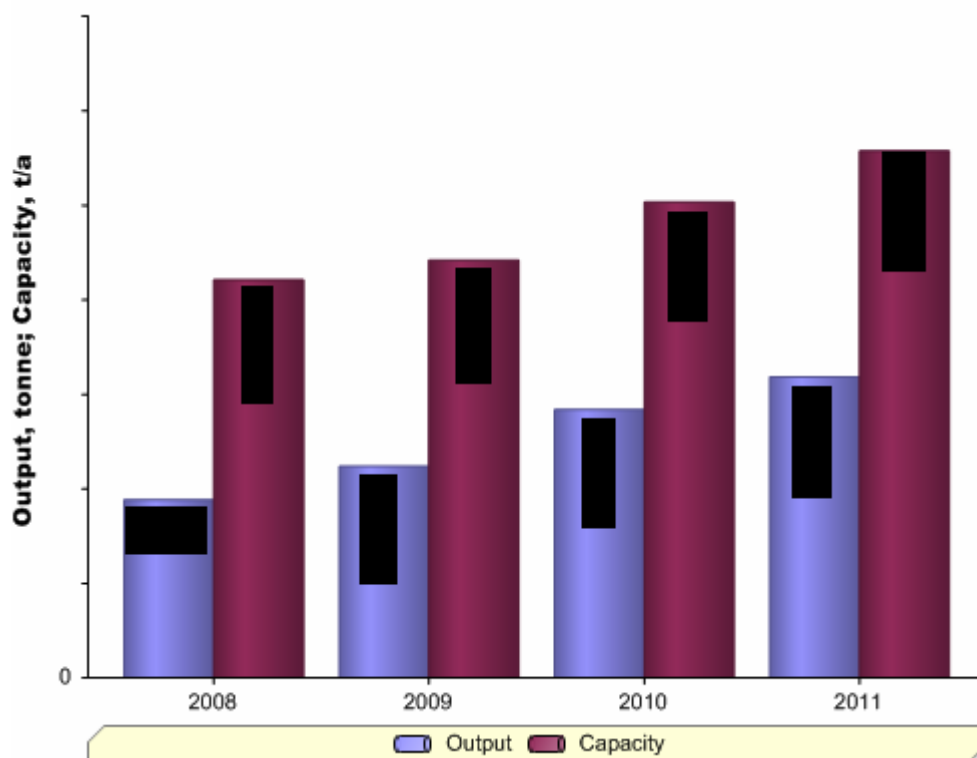
Year	Sweet potato starch	Wheat starch	Cassava starch	Potato starch	Corn starch	Others	Total
2012	■	■	■	■	■	■	■
2013	■	■	■	■	■	■	■
2014	■	■	■	■	■	■	■
2015	■	■	■	■	■	■	■
2016	■	■	■	■	■	■	■
CAGR '12-16	11.00%	■	■	■	■	■	■

Source: CCM International

3 Starch derivatives in China

3.1 Modified starch

Figure Production situation of modified starch in China, 2008-2011



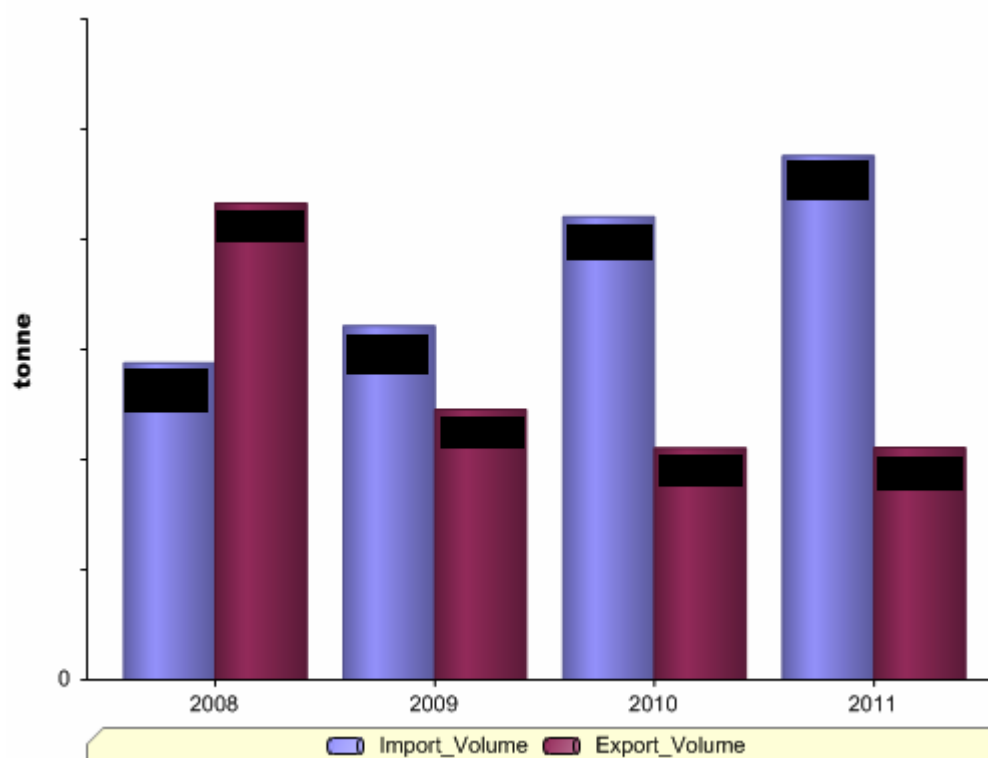
Source: CCM International

Table Capacity and output of main modified starch manufacturers in China, 2008-June 2012

No.	Manufacturer	Status, June 2012	Capacity, t/a					Output, tonne			
			12-Jun	2011	2010	2009	2008	2011	2010	2009	2008
1	XXX	Active	300,000								
2	XXX	Active		300,000							
3	XXX	Active			300,000						
4	XXX	Active				100,000					
5	XXX	Active					40,000				
6	XXX	Active						40,000			
7	XXX	Active							45,000		
8	XXX	Active								25,000	
9	XXX	Active									20,000
10	XXX	Active									
...
Others		/									
Total		/									

Source: CCM International

Figure Import and export volume of modified starch in China, 2008-2011



Source: China Customs