



USDA Foreign Agricultural Service

# GAIN Report

Global Agriculture Information Network

Template Version 2.09

Voluntary Report - public distribution

**Date:** 12/2/2004

**GAIN Report Number:** CH4031

## China, Peoples Republic of

## Tomatoes and Products

## Situation

## 2004

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### Report Highlights:

This is the first report on China's tomato and tomato product market situation since 1998 (CH8611). China remains the world's largest tomato producer with 2003 production at 33.1 MMT. China's tomato production is primarily consumed fresh, but processed tomato paste exports grew sharply to 437,000 MT and \$226 million in marketing year 2003/2004. National tomato paste processing capacity was 600,000 MT at the end of 2002 but has likely grown larger and more efficient with the introduction of western processing equipment. China's imports of tomatoes and tomato products are minimal. Companies continue developing and marketing added value tomato products making China an ever-greater threat in the processed tomato products market.

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Includes PSD Changes: Yes  
Includes Trade Matrix: Yes  
Unscheduled Report  
Beijing [CH1]  
[CH]

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### Executive Summary

China is the world's leading tomato producer by volume and area, but yields are lower than most other major producers. China's Ministry of Agriculture (MOA) "Statistical Report" indicates 2003 total tomato production was 33.1 million metric tons (MMT) on 801 thousand hectares for an average nationwide yield of 41 MT/Ha. MOA data does not distinguish between tomatoes for fresh or processing use. Although MOA deems the product a major vegetable crop, there is little publicly available information for the fresh and processed tomato industry's growth and success aside from periodic production data, wholesale market prices, and trade statistics. Chinese language complicates things as growers, traders, and officials interchangeably call tomatoes either Xi Hong Shi (???) or Fan Qie (??).

Processed tomato paste exports increased from 220 KMT and \$87 million in marketing year (MY) 00/01 to 437 KMT and \$227 million in MY03/04. Fresh tomato exports increased from 24 KMT and \$3.5 million in MY00/01 to 72.7 KMT and \$14.4 million in MY03/04. There is very little tomato sauce or puree trade.

Better economies of scale and more efficient production facilities are developing and causing a boom in processed tomato production that will increasingly compete with US and other nation's processed tomato production. Export prices have risen over the past three marketing years for fresh tomatoes (\$.16 to \$.20 per kilogram), canned tomatoes (\$.40 to \$.48 per kilogram), and tomato paste (\$.45 to \$.52 per kilogram). Although not all manufacturers and growers share in tomato production and processing profits (many exports are from speculative traders and middle-men), higher sales prices should encourage greater tomato and processed tomato product production and provide incentive for increased attention to crop management as Chinese growers often react to market prices.

News reports and provincial government announcements reveal 2004 Xinjiang province tomato production increased 30 percent from 2003 to 2004 reaching over 5 MMT. The bumper harvest, coupled with higher world production (namely California), pushed market procurement prices for processing tomatoes from \$60/MT in early July 2004 to \$30/MT in mid-August 2004. The price plunge caused growers and traders to delay delivering tomatoes to processors. The problem appears to have abated and manufacturers are operating now. Xinjiang prices rebounded to as high as \$84/MT in mid-September. Further price tracking for the past two years is available daily on MOA's website (<http://www.agri.gov.cn/jghq/sc/>) and a price table for Xi Hong Shi is included in this report.

China's tomato processing industry efforts are aimed at becoming a key international producer. An industry source indicates much of China's tomato production is contracted for processing and exports; i.e. the industry is integrating. Industry sources specify future paste production depends principally upon China's export market access to developed nations imposing increasingly austere sanitary import requirements. As such, industry growth depends largely on efforts to maintain markets and outperform export markets changing sanitary requirements.

Fresh tomato production occurs across China while, owing to its advantageous resources, tomato planting for the processing industry is in isolated Xinjiang province where labor is cheap, summers are hot, winters are cold, and land can be irrigated. Numerous varieties of processing tomatoes reach maturity between 10 to 11 weeks after planting in Xinjiang. In Xinjiang, integrated commercial production continues developing as agronomists and processing technicians work with growers to ensure tomato product quality. Industry members indicate Xinjiang tomato production yields are stable and crops encounter few disease problems. Increasingly, processors and food manufacturers are developing the sophistication of their tomato products and marketing them in more strategic ways.

## **Production**

### **MOA and FAO Production Comparison**

Official 2004 MOA nationwide production data is not available, but sources report the situation is better than last year (33.1 MMT on 801 thousand hectares (KHa)). Year 2003 production was an increase of nearly 30 KHa and slightly over 1 MMT from 2002. The greatest increase was in western China's province of Xinjiang, home of China's tomato processing industry, which alone increased area 12 KHa and 1 MMT.

MOA "Statistical Reports" indicate steady nationwide production and planted area growth from the mid-1990s with particularly rapid expansion in the latter half of the 1990s. (See Report's Statistical Table). The dramatic decline in planted area from 2000 to 2001 was due to a number of factors including; market correction following the late 90's rapid expansion and weather related problems. MOA's 2001 through 2003 production volume are higher than UN FAO data while planted area estimates are all lower. FAO estimates 2003 production was 28.9 MMT on 1.2 MHa, 2002 production was 27.2 MMT on 1,005 MHa and 24.1 MMT on 934 KHa in 2001.

### **Production Locations and Yields**

MOA indicates principle tomato production provinces are Shandong, Hebei, Xinjiang, Henan, and Jiangsu. Each of the above-mentioned provinces reports over 50 KHa of planted area. Reports and data indicate planting area is changing in some of these principle-growing areas as growers convert croplands from other vegetables to higher yielding and higher value crops such as tomatoes. Most of the producing areas, with the exception of Xinjiang, specialize in producing tomatoes for fresh consumption. Large portions of central Shandong also grow hothouse or greenhouse tomatoes for year-round consumption.

According to MOA data, nationwide tomato yields, whether for processed use or fresh use, increased from 35 MT/Ha to 41 MT/Ha during the 2000 to 2003 period owing largely to more consistent weather patterns, introduction of improved varieties, and better, more consistent management. UN FAO data indicates China tomato yields are much lower at 25.8, 27.0 and 23.9 MT/Ha from 2001 to 2003.

### **Xinjiang Tomato Harvesting and Processing**

Commercial tomato production is for processing use and export while conventional production (i.e. small plots centered near major cities) is for domestic fresh consumption. Commercial production is prevalent in Xinjiang while conventional production takes place across China. Although China's government approved transgenic (delayed ripening) tomato planting, commercial and conventional Xinjiang growers have not adopted the technology due to commercial concerns that export and domestic markets will not accept products. (Note: there are no indications transgenic tomatoes are planted for conventional or commercials use elsewhere in China, either). Stemming from commercial concerns that export markets will institute more stringent health requirements, Xinjiang producers pay careful attention to tomato plant growth; including monitoring/controlling pesticide use and near constant crop inspection and analysis.

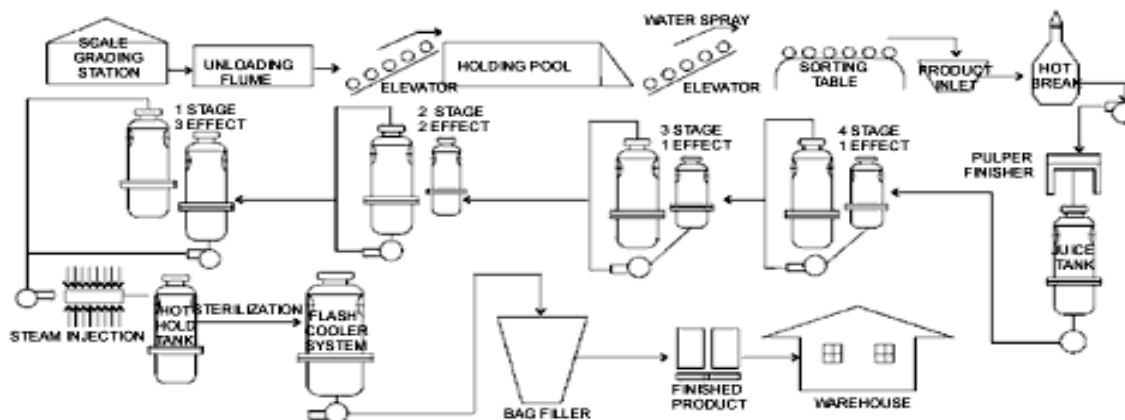
Xinjiang's rural and urban per capita incomes averaged \$258 and \$948 in 2003 while the nationwide average was \$316 and \$1021 respectively. With low labor and resource costs, commercial production in Xinjiang is profitable and allows growers to move through fields several times a season, handpick ripe tomatoes, and transport only those from fields to processing plants.

China's Chamber of Commerce for Import and Export of Foodstuffs, Native Produce and Animal By-Products Fruits and Vegetables Sub-Chamber reports nationwide tomato paste production was 450 KMT net weight in 2002 with a capacity of 600 KMT. China's largest tomato processor reports their own production techniques outshine most major U.S., European and Japanese food manufacturers. Each of its commercial plants received approval indicating it surpasses International Organization of Standardization (ISO) sanitary requirements along with large multinational food company standards.

Imported processing equipment from the United States and Italy drives increased tomato processing. With increasing equipment imports, adoption of modern management techniques, and better-trained materials utilization, tomato processors expect to continue promoting Xinjiang's tomato processing sector. At present, well-managed and well-equipped companies are able to attain an average total capacity of processing 30,000 MT fresh tomatoes per twenty-four hours.

China's largest tomato processing company revealed its work force consists of one thousand employees year round and an additional two to four hundred employees starting from the late-April or mid-May processing and harvest period. The processing period begins during late April or early May. The company's processing period lasts approximately 60 - 90 days depending on the alacrity of the work force and the smoothness of product processing. During low processing periods, the plant typically runs at half capacity utilizing only 3 out of 5 processing lines. Other tomato processing operations likely act in a similar pattern, i.e. hiring temporary workers during peak season and reducing processing lines during non-peak production seasons.

An example of one processors technique is in the picture below:



## Trade

### Processed Tomato Paste Exports Flourishing

Although exports of both fresh and processed tomatoes continues growing, the biggest story is the rapid transformation and growth of China's tomato paste export sector which surged on a gross weight basis from 123 KMT and \$63 million to 437 KMT and \$226 million in a period of just five years. Most tomato paste export increases are to European countries and, according to trade sources, under contract/private label for large, international food manufacturers. (see Export Trade Tables for trends over the past five years)

## Wholesale Market Prices Table

Average Tomato Wholesale Market Prices Across China*												
\$/MT 2004	15-Jan	16-Feb	16-Mar	15-Apr	14-May	15-Jun	13-Jul	17-Aug	15-Sep			
Xinjiang Tonghui	518	566	433	289	277	181	36	30	84			
Beijing Baliqiao	313	289	229	205	157	96	72	120	84			
Qingdao Chengyang	0	217	217	217	265	132	126	181	157			
Zhengzhou Nongchanpin	241	265	193	0	108	96	77	132	169			
Guangdong Shantou	120	163	144	247	151	120	193	169	211			
\$/MT 2003	16-Jan	14-Feb	14-Mar	14-Apr	16-May	16-Jun	16-Jul	15-Aug	15-Sep	15-Oct	14-Nov	15-Dec
Xinjiang Tonghui			482	361	337	144	60	36	36	120	181	482
Beijing Baliqiao	144	265	313	313	181	84	36	169	120	144		289
Qingdao Chengyang	157	277	313	241	193	120	48		144	253	205	265
Zhengzhou Nongchanpin							24	84	144	193	212	241
Guangdong Shantou	120	114	289	433	307	385	361	373	144	253	205	229
\$/MT 2002									16-Sep	14-Oct	15-Nov	16-Dec
Xinjiang Tonghui											120	
Beijing Baliqiao									84	96	96	144
Qingdao Chengyang									144	169	96	157
Zhengzhou Nongchanpin												
Guangdong Shantou									199	217	241	
Source: Ministry of Agriculture. Location References: Xinjiang: Northwest China, Beijing: Northern Central China, Qingdao: North Coastal China, Zhengzhou: Central China, Guangdong: Southeast Coastal China *Markets do not distinguish between fresh or processing use tomatoes. With the exception of Xinjiang, nearly all tomatoes should be for fresh use.												

## Policy

China's Food and Agricultural Import Regulations and Standards Country Report CH4028 includes references to UNOFFICIAL translations of numerous regulations issued by China's government on microbiological, pathogenic, and tolerance levels for residues. The report includes referenced, publicly available, translations of information on China's approval of hygienic standards, pesticide residue limits, and transgenic crops; including tomatoes.

**Residue Limits**

China drafted the following chemical residue limits for tomatoes and tomato products (CH4018):

<u>Residues</u>	<u>Main usage</u>	<u>Acceptable Daily Intake</u>	<u>Substituted Standard</u>	<u>MRL (mg/kg)</u>
Anilazine	Fungicide	0.1 mg/kg bw (1989)	GB15194-1994	10
Bifenthrin	Insecticide/acaricide	0.02 mg/kg bw (1992)	N/A	0.5
Carbendazim	Fungicide	0.03 mg/kg bw (1995)	GB14870-1994	0.5
Chlorpyrifos	Insecticide	0.01 mg/kg bw (1999)	GB16333-1996	0.5
Ethephon	Plant growth regulator	0.05 mg/kg bw (1997)	N/A	2
Iprodione	Fungicide	0.06 mg/kg bw (1995)	GB16333-1996	5
Vinclozolin	Fungicide	0.01 mg/kg bw (1995)	GB15194-1994	3

**Processing Specifications Example**

One of China's largest tomato processors provided the following information as an example of the microbial limits they use for their own processing.

Microbiological:	
Standard Plate Count	100,000/g Max.
Yeast and Mold	500/g Max.
Howard Mold Count	40% Max.
Salmonella	Negative/25g
Coliform	100/g Max.
E. coli	Negative/g
Coagulase Positive Staph.	100/g Max.

### 2004 Tomato Product Import Tariff and VAT Rates

China is near the end of its scheduled tariff reductions that entered into effect with the nation's 2001 WTO accession. In 2005, China is expected to lower the rate on 20029090 further to 18 percent. Since 2001 tariff rates for fresh tomatoes and tomatoes-whole or in pieces remained unchanged while tomato paste tariff rates decreased from 23 percent. Further tariff reductions may occur in the future, however, there is no schedule for their reduction at the present time.

HS Code	Description	2004		Effective Rate
		Tariff	VAT	
070200	Tomatoes, Fresh or Chilled	13.0% *	13.0%	27.7%
20021010	Tomatoes, Prepared or Preserved, Whole or In Pieces in airtight containers	19.0%	17.0%	39.2%
20021090	Tomatoes, Prepared or Preserved, Whole or In Pieces, other	25.0%	17.0%	46.3%
20029010	Tomatoes, Prepared or Preserved, Paste	20.0%	17.0%	40.4%
20029090	Tomatoes, Prepared or Preserved, Other	19.2%	17.0%	39.5%

Source: China Customs

\* Brunei, Indonesia, Malaysia, Singapore, and Vietnam = 5% Tariff, and Thailand = 0% Tariff through ASEAN Early Harvest Program

### Domestic Marketing Efforts

#### Tomato Paste Marketing

For industrial bulk distribution, China's largest tomato processing company offers standard 220-liter (55-gallon) conical barrels and 1000-liter (300 gallon) Wooden Ton-Box, each containing a Sholle aseptic bag. Tomato paste is also available in "bag in a box" and plastic pouch packages for foodservice customers. The company's tomato paste is to standard and custom Brix levels, in hot or cold break styles, under their own label or under contract and private label.

Aseptic tomato paste is from the liquid obtained from mature whole red tomatoes and produced in accordance with good commercial practices. Certified Organic (BCS Oko-Garantie GmbH), Kosher (Federation of Synagogues) and HACCP or ISO 9002 certification is available, as well. Other processors carry similar certification and production methods.

#### Canned Tomato Products Marketing

The company offers a complete line of canned tomato products for foodservice customers; including, tomato paste, tomato sauce, pizza sauce, spaghetti and Marinara sauces, BBQ sauce, salsa, ketchup, peeled whole tomatoes, chopped diced tomatoes in tin cans (70g, 198g, 400g, 425g, 850g, 1kg, 3kg, and 4.5kg), "bag in a box," plastic pouches, and industrial pails and drums. The company packaging capacity for 425g and 850g cans is 192 and 95 cans per minute.

Paste, sauces, and other tomato products are from fresh, handpicked, red, ripe tomatoes grown in their own fields. Their sauces convey consistent color and dynamic appeal that customers demand. Products are available under the companies' brand or under customers own private label. Canned new products are available beginning in August or early September.



**Natural Tomato Fiber Marketing**

The company added natural tomato fiber to their product line. Natural tomato fiber is from whole, ripe red or reddish tomatoes. It is manufactured "cold-break" using a proprietary microwave technology. Natural tomato fiber is a thickening agent used in tomato paste, sauces, and dressings. It, also, found use in fruit sauces, condiments, and fruit drinks. The company reports it is an excellent source of dietary fiber and useful for nutritional foods.

**Natural Lycopene Marketing**

In addition, the company offers natural lycopene in 3%, 6%, 7% and 15% concentrations or to custom-made specifications. Lycopene is not synthetic, but rather made from a complicated process of extracting natural lycopene and removing solvents from the extract. Natural lycopene is useful in food products, health foods, and dietary supplement industries as an anti-oxidant, or for other "functional" foods.

**Production, Supply, Demand and Price Tables****Fresh Tomato Production**

Distinction between fresh and processed acreage based on growth in Xinjiang province tomato production over the past several years

<b>PSD Table</b>						
<b>Country</b>	<b>China, Peoples Republic of</b>					
<b>Commodity</b>	<b>Fresh Tomatoes</b>				(HA)(MT)	
	2001	Revised	2002	Estimate	2003	Forecast
	USDA Official [Old]	Post Estimate [New]	USDA Official [Old]	Post Estimate [New]	USDA Official [Old]	Post Estimate [New]
<b>Market Year Begin</b>		07/2001		07/2002		07/2003
Plnt For Fresh Consump	0	645000	0	727900	0	744500
Plnt For Processing	0	40000	0	45100	0	56800
TOTAL Area Planted	0	685000	0	773000	0	801300
Harv. For Fresh Cons.	0	0	0	0	0	0
Harv. For Processing	0	0	0	0	0	0
TOTAL Area Harvested	0	0	0	0	0	0
Fresh Sale Production	0	25510000	0	29137000	0	29320000
Processing Production	0	2000000	0	2925000	0	3775000
TOTAL Production	0	27510000	0	32062000	0	33095000
TOTAL SUPPLY	0	27510000	0	32062000	0	33095000

**Nationwide Average Fresh Tomato Export Prices US\$/KG**

<b>Commodity</b>	Fresh Tomatoes		
Prices in	US \$ at Export	per uom	US\$/KG
Year	2003	2004	% Change
Jan	0.21	0.2	-5%
Feb	0.19	0.21	11%
Mar	0.2	0.22	10%
Apr	0.19	0.2	5%
May	0.21	0.2	-5%
Jun	0.21	0.16	-24%
Jul	0.21	0.15	-29%
Aug	0.17		-100%
Sep	0.16		-100%
Oct	0.18		-100%
Nov	0.22		-100%
Dec	0.25		-100%
Date of Quote	9/15/2004	MM/DD/YYYY	

## Fresh Tomato Imports by Country

<b>Import Trade Matrix</b>			
<b>Country</b>	China, Peoples Republic of		
<b>Commodity</b>	Fresh Tomatoes		
Time Period	MY July- June	Units:	MT Gross Weight
Imports for:	2002		<b>2003</b>
U.S.	0	U.S.	0
Others		Others	
North Korea	50	North Korea	0
Singapore	2	Singapore	0
Total for Others	52		0
Others not Listed	0		0
Grand Total	52		0

## Fresh Tomato Exports by Country

<b>Export Trade Matrix</b>			
<b>Country</b>	China, Peoples Republic of		
<b>Commodity</b>	Fresh Tomatoes		
Time Period	MY July- June	Units:	MT Gross Weight
Exports for:	2002		<b>2003</b>
U.S.	0	U.S.	0
Others		Others	
Hong Kong	14393	Hong Kong	34405
Russia	24815	Russia	31307
Vietnam	24	Vietnam	5856
Malaysia	378	Malaysia	368
Macau	449	Macau	343
Mongolia	0	Mongolia	237
UAE	60	UAE	68
Canada	0	Canada	43
Romania	0	Romania	25
Singapore	581	Singapore	0
Total for Others	40700		72652
Others not Listed	80		62
Grand Total	40780		72714

**Tomato Paste Production**

Trade number calculations used a conversion of 1 kilo gross weight equals .85 net weight  
 Production number calculations use industry standard of 6.5 MT fresh tomatoes equal 1 MT finished tomato paste product

<b>PSD Table</b>							
<b>Country</b>	<b>China, Peoples Republic of</b>						
<b>Commodity</b>	<b>Tomato Paste,28-30% TSS Basis</b> (MT)(MT, Net Weight)						
	2001	Revised	2002	Estimate	2003	Forecast	UOM
	USDA Official [Old]	Post Estimate [New]	USDA Official [Old]	Post Estimate [New]	USDA Official [Old]	Post Estimate [New]	
<b>Market Year Begin</b>	07/2001		07/2002		07/2003		MM/YYYY
Deliv. To Processors	0	2000000	0	2925000	0	3775000	(MT)
Beginning Stocks	0		0	0	0	0	(MT, Net Weight)
Production	0	307500	0	450000	0	581000	(MT, Net Weight)
Imports	0	2440	0	1045	0	755	(MT, Net Weight)
TOTAL SUPPLY	0	309940	0	451045	0	581755	(MT, Net Weight)
Exports	0	239297	0	322310	0	371348	(MT, Net Weight)
Domestic Consumption	0	70643	0	128735	0	210407	(MT, Net Weight)
Ending Stocks	0		0		0		(MT, Net Weight)
TOTAL DISTRIBUTION	0	309940	0	451045	0	581755	(MT, Net Weight)

**Nationwide Tomato Paste Average Export Prices US\$/KG**

<b>Prices Table</b>			
<b>Country</b>	China, Peoples Republic of		
<b>Commodity</b>	Tomato Paste,28-30% TSS Basis		
Prices in	US\$ at Export	per uom	US\$/KG
Year	2003	2004	% Change
Jan	0.52	0.53	2%
Feb	0.51	0.53	4%
Mar	0.52	0.54	4%
Apr	0.51	0.53	4%
May	0.51	0.52	2%
Jun	0.5	0.55	10%
Jul	0.5	0.54	8%
Aug	0.54		-100%
Sep	0.49		-100%
Oct	0.5		-100%
Nov	0.51		-100%
Dec	0.52		-100%
Date of Quote	9/15/2004	MM/DD/YYYY	

## Tomato Paste Imports By Country Gross Weight

<b>Import Trade Matrix</b>			
<b>Country</b>	China, Peoples Republic of		
<b>Commodity</b>	Tomato Paste,28-30% TSS Basis		
Time Period	MY July-June	Units:	MT Gross Weight
Imports for:	2002		2003
U.S.	615	U.S.	789
Others		Others	
Thailand	0	Thailand	35
Malaysia	385	Malaysia	21
South Korea	13	South Korea	21
Italy	19	Italy	19
Philippines	169	Philippines	0
Total for Others	586		96
Others not Listed	28		2
Grand Total	1229		887

## Tomato Paste Exports By Country Gross Weight

<b>Export Trade Matrix</b>			
<b>Country</b>	China, Peoples Republic of		
<b>Commodity</b>	Tomato Paste,28-30% TSS Basis		
Time Period	MY July-June	Units:	MT Gross Weight
Exports for:	2002		2003
U.S.	3639	U.S.	1021
Others		Others	
Italy	157771	Italy	149005
Russia	42485	Russia	45647
Japan	27039	Japan	28615
United Kingdom	5353	United Kingdom	18273
Yemen	11682	Yemen	12045
South Korea	11342	South Korea	11647
UAE	11434	UAE	11591
Germany	8410	Germany	11091
Ghana	636	Ghana	11002
Kazakhstan	8823	Kazakhstan	9718
Total for Others	284975		308634
Others not Listed	90573		127225
Grand Total	379187		436880

**Production Statistics**  
**Tomato Production Area and Yields 1995,1999-2003**

Tomato Production by Area (Hectare) and Volume (Thousand Metric Ton) in 1995, 1999-2003												
Province	1995		1999		2000		2001		2002		2003	
	Ha	KMT	Ha	KMT	Ha	KMT	Ha	KMT	Ha	KMT	Ha	KMT
Beijing	4,300	277	3,000	186	5,000	270			7,600	379	7,500	377
Tianjin	0	0	0	0	0	0			8,200	565	8,900	434
Hebei	28,200	2,061	70,800	4,256	72,000	4,310			74,300	4,514	77,000	4,765
Shanxi	20,800	1	25,000	560	36,000	1,310			24,800	1,182	25,700	1,032
Inner Mongolia	5,000	150	0	0	14,000	570			6,200	357	9,300	473
Liaoning	25,700	1,182	56,300	3,327	106,000	5,210			24,900	1,328	27,500	1,522
Jilin	0	0	17,100	399	0	0			13,600	335	11,900	372
Heilongjiang	41,000	253	21,000	630	23,300	770			17,100	464	15,400	464
Shanghai	2,500	88	3,000	144	3,800	162			7,100	325	6,700	290
Jiangsu	8,000	290	81,000	3,550	51,000	2,450			53,100	1,883	52,900	1,604
Zhejiang	6,000	237	8,000	330	10,000	400			13,700	444	14,200	559
Anhui	10,000	450	46,800	1,895	73,800	1,964			31,900	1,073	32,600	845
Fujian	15,000	225	34,100	694	37,700	763			13,300	364	14,800	396
Jiangxi	35,500	359	17,000	520	0	0			8,500	196	9,200	216
Shandong	63,300	3,500	107,000	6,270	123,000	6,690			104,900	5,602	91,800	5,330
Henan	44,500	1,154	104,100	2,974	112,000	3,180			86,300	3,752	98,200	3,646
Hubei	69,900	1,957	36,800	1,086	43,500	1,456			43,700	1,275	38,500	1,147
Hunan	6,700	130	9,200	242	12,500	304			18,400	366	19,200	373
Guangdong	4,100	922	98,300	1,383	103,600	578			25,400	641	27,900	700
Guangxi	49,000	1,320	42,000	1,150	42,000	1,360			35,200	958	36,300	993
Hainan	3,300	31	9,000	230	5,000	125			3,000	66	3,000	52
Chongqing	29,500	749	12,000	340	12,000	330			12,700	291	13,500	292
Sichuan	20,700	713	30,000	940	36,000	1,060			32,300	950	33,400	976
Guizhou	8,200	207	31,300	655	31,300	715			12,000	205	13,000	252
Yunnan	0	0	21,000	320	23,000	290			9,800	263	9,400	254
Tibet	0	0	0	0	0	0			0	0	0	0
Shaanxi	12,900	410	15,000	300	18,000	340			18,100	578	18,600	656
Gansu	7,000	216	16,000	510	17,000	630			11,400	495	16,500	802
Qinghai	600	21	500	32	1,000	20			400	21	600	22
Ningxia	4,300	115	5,200	170	7,200	258			4,400	170	5,400	198
Xinjiang	5,600	277	10,000	440	13,000	570			50,700	3,021	62,400	4,053
National Total	531,600	17,296	930,500	33,533	1,032,700	36,085	685,000	27,510	773,000	32,062	801,300	33,095

Source: Ministry of Agriculture Statistical Yearbooks 1995-2003

## Tomato Production Yields (MT/Ha) 1995, 1999-2003

Tomato Yields (MT/Ha) by Province in 1995, 1999-2003						
Province	1995 Yield (MT/Ha)	1999 Yield (MT/Ha)	2000 Yield (MT/Ha)	2001 Yield (MT/Ha)	2002 Yield (MT/Ha)	2003 Yield (MT/Ha)
Beijing	64	62	54	NA	50	50
Tianjin	NA	NA	NA	NA	69	49
Hebei	73	60	60	NA	61	62
Shanxi	0	22	36	NA	48	40
Inner Mongolia	30	NA	41	NA	58	51
Liaoning	46	59	49	NA	53	55
Jilin	NA	23	NA	NA	25	31
Heilongjiang	6	30	33	NA	27	30
Shanghai	35	48	43	NA	46	43
Jiangsu	36	44	48	NA	35	30
Zhejiang	39	41	40	NA	32	39
Anhui	45	40	27	NA	34	26
Fujian	15	20	20	NA	27	27
Jiangxi	10	31	NA	NA	23	23
Shandong	55	59	54	NA	53	58
Henan	26	29	28	NA	43	37
Hubei	28	30	33	NA	29	30
Hunan	19	26	24	NA	20	19
Guangdong	225	14	6	NA	25	25
Guangxi	27	27	32	NA	27	27
Hainan	9	26	25	NA	22	17
Chongqing	25	28	28	NA	23	22
Sichuan	34	31	29	NA	29	29
Guizhou	25	21	23	NA	17	19
Yunnan	NA	15	13	NA	27	27
Tibet	NA	NA	NA	NA	NA	NA
Shaanxi	32	20	19	NA	32	35
Gansu	31	32	37	NA	43	49
Qinghai	35	64	20	NA	53	37
Ningxia	27	33	36	NA	39	37
Xinjiang	49	44	44	NA	60	65
National Total	33	36	35	40	41	41

Source: Ministry of Agriculture Statistics Yearbooks 1995, 1999-2003

## Export Statistics

## Fresh Tomato Export Volume and Value 1999/00 – 2003/04

China's Exports of Fresh Tomatoes HS070200 by July - June Marketing Year in Metric Ton and US\$ Millions											
		1999/00		2000/01		2001/02		2002/03		2003/04	
		Volume	Value	Volume	Value	Volume	Value	Volume	Value	Volume	Value
0	--World--	21,729	3.040	23,982	3.499	30,627	4.955	40,780	9.072	72,714	14.402
1	Hong Kong	13,916	1.443	13,646	1.422	12,770	1.385	14,393	1.631	34,405	3.884
2	Russia	6,265	1.312	9,939	2.015	17,284	3.459	24,815	7.100	31,307	9.824
3	Vietnam	524	0.148	100	0.011	0	0.000	24	0.002	5,856	0.427
4	Malaysia	56	0.011	93	0.011	83	0.011	378	0.086	368	0.072
5	Macau	0	0.000	0	0.000	0	0.000	449	0.087	343	0.067
All Others		968	0	203	0	492	0	720	0	435	0

Source: China Customs

## Prepared/Preserved Tomato Export Volume and Value 1999/00 – 2003/04

China's Exports of HS200210 Tomatoes whole/pieces prepared/preserved by July to June Marketing Year in Metric Tons and US\$ Millions											
		1999/00		2000/01		2001/02		2002/03		2003/04	
		Volume	Value	Volume	Value	Volume	Value	Volume	Value	Volume	Value
0	--World--	1,480	0.831	5,407	2.241	1,402	0.555	2,241	0.938	4,753	2.280
1	Japan	886	0.471	2,204	1.033	1,198	0.469	1,604	0.640	1,964	0.827
2	Saudi Arabia	0	0.000	0	0.000	0	0.000	321	0.138	1,456	0.720
3	Norway	317	0.191	0	0.000	0	0.000	197	0.103	648	0.321
4	Russia	0	0.000	45	0.029	0	0.000	0	0.000	148	0.099
5	Germany	0	0.000	0	0.000	0	0.000	0	0.000	92	0.075
All Others		278	0	3,158	1	204	0	120	0	445	0

Source: China Customs

## Tomato Paste Export Volume and Value 1999/00 – 2003/04

China's Exports of HS200290 Tomato Paste by July - June Marketing Year in Volume (MT) and Value (US\$Millions)											
Rank	Country	1999/00		2000/01		2001/02		2002/03		2003/04	
		Volume	Value	Volume	Value	Volume	Value	Volume	Value	Volume	Value
0	--World--	123,119	63.351	220,403	86.968	281,526	127.784	379,188	191.570	436,880	226.181
1	Italy	31,093	12.152	72,516	25.433	72,455	29.828	157,771	78.089	149,005	74.257
2	Russia	2,789	1.134	22,414	8.724	42,345	22.023	42,485	20.566	45,647	22.682
3	Japan	22,967	14.077	23,630	12.017	25,162	12.183	27,039	13.746	28,615	14.640
4	United Kingdom	288	0.141	3,875	1.561	14,061	5.381	5,353	2.716	18,273	9.585
5	Yemen	7,700	4.401	7,446	3.547	10,471	5.713	11,682	7.010	12,045	7.434
6	Korea, South	6,833	3.680	6,591	2.657	10,743	4.282	11,342	5.334	11,647	5.778
7	UAE	2,199	1.442	4,336	1.953	9,300	4.639	11,434	6.147	11,591	6.356
8	Germany	3,325	1.482	4,446	1.587	7,280	3.258	8,410	4.334	11,091	5.684
9	Ghana	0	0.000	46	0.027	391	0.238	636	0.532	11,002	5.474
10	Kazakhstan	1,251	0.655	3,181	1.458	6,141	3.065	8,823	4.923	9,718	5.782
41	United States	4,112	2.542	6,527	2.677	7,452	3.331	3,639	1.750	1,021	0.793
All Others		40,563	22	65,396	25	75,725	34	90,573	46	127,225	68

Source: China Customs