

**Survey and Statistical Data on Food Processing Machinery
(2003)**

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Japan Food Machinery Manufacturers' Association

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Survey and Statistics on Food Processing Machinery (2003)

1. Report on the General State of Food Processing Machinery in 2003

(1) Major characteristics in 2003

In 2003, the Japanese economy started under harsh conditions caused by 1) destabilizing international developments and environments, such as the Iraq war, which occurred in the beginning of the year, and outbreaks of SARS, a new type of viral respiratory illness, 2) persistent deflation, and 3) the severe employment situation. From the spring of the same year, however, the economic climate has been showing signs of a gradual upturn, as in the recovery of capital investment made mainly by leading enterprises.

Looking overseas, the Asian economy continued to register high economic growth rates, shored up by the strong Chinese economy (GDP growth rate in 2003 of 9.1%), while the US economy recorded a high growth rate of 7.2% in the second quarter. Thus, exports performed well due to the recovery of overseas demand.

Under these circumstances, the food industry, a major customer of food processing machinery, exerted further efforts to regain consumer confidence over the security and safety of food products, based on the amendments to the Japanese Agricultural Standards Law and the Food Sanitation Law. The industry vigorously tackled this issue by exerting greater efforts than ever before. In addition to diversified consumer needs, the industry encountered extremely stringent conditions, including intensifying price competition in the midst of the lingering and progressive deflationary economy.

Against this background, the total volume of annual sales of food processing machinery in 2003 declined 4.7% from the previous year to 438.051 billion yen. This was affected by sluggish equipment investment in the entire food industry, falling product prices due to the deflationary pressure, the slump in consumer spending, etc., despite the introduction of the HACCP system, and demand based on the strong social requirements for safety- and sanitation-compliant machinery and equipment.

(2) Trends in sales in 2003

The trends in the sales of food processing machinery by type of machinery in 2003 were as follows:

Firstly, the value of sales fell below that of the preceding year for the following items:

beverage products machinery (20.381 billion yen, down 20.2%), milk and dairy products machinery (49.269 billion yen, down 17.0%), flour milling machinery (9.245 billion yen, down 12.5%), marine processing machinery (20.123 billion yen, down 5.2%), noodle making machinery (13.441 billion yen, down 4.6%), other food processing machinery (185.352 billion yen, down 3.2%), and rice and barley polishing machinery (11.026 billion yen, down 1.3%).

The value of sales of the above items remained sluggish for the following conceivable reasons:

- Beverage products machinery: decreased sales volume, and profitability declined due to intensified competition, in the soft drinks and carbonated water markets; and saturated demand for equipment investment to deal with safety and sanitation in the beverage products industry.
- Milk and dairy products machinery: delivery prices that fell due to intensified competition, and other factors, although equipment investment by the milk and dairy products machinery industry was maintained at the level of a year earlier due to the steady production of lactic acid bacteria-related fermentation products, which based on the health consciousness of consumers.
- Flour milling machinery: cautious equipment investment by the flour milling industry, declining exports, and other factors, despite the volume of flour production that exceeded the level of a year earlier.
- Marine processing machinery: less aggressive equipment investment, declining exports, and other factors in the marine processing industry, which were a result of the falling production volume of processed marine products.
- Noodle making machinery: equipment investment held back by the noodle making industry, although exports remained buoyant.
- Other food processing machinery: equipment investment held back by the food service industry, etc., due to the impact from slackening exports, decreased profitability under the deflationary environment, and so on.
- Rice and barley polishing machinery: lowered selling prices due to intensified competition, the slump in exports, and so on, although the volume of sales continued to increase from the previous year.

On the other hand, the item that exceeded the value of sales for the previous year was bakery and confectionery machinery (94.731 billion yen, up 3.0%). The reason that sales of this item remained favorable seems to be the excellent export performance and renewed demand in the bakery and confectionery industry.

In addition, both brewery machinery (18.771 billion yen) and meat processing machinery (15.712 billion yen) were strong, but remained unchanged. As for brewery machinery, equipment investment in the distilled spirits industry was robust, but renewed demand in the refined sake industry and the soy sauce and fermented soybean paste industry were still on a downward trend. Meat processing machinery was affected by slackening exports, while equipment investment in the meat processing industry experienced a trend towards recovery in the first half of the year, but demand was sluggish in the second half of the year.

(3) Trends in exports in 2003

The total value of exports of food processing machinery in 2003 was, according to the Customs Statistics of the Ministry of Finance, 17.983 billion yen, up 21.6% from the previous year due to strong exports to the Asian region (a major export destination for food processing machinery) and to the North American and Western European regions.

By type of machinery, the value of exports increased from the previous year for the following items: beverage products machinery (3.692 billion yen, 21.5 times),*¹ noodle making machinery (2.947 billion yen, up 36.9%), and bakery and confectionery machinery (3.563 billion yen, up 11.7%).

However, the value of exports fell below that of the previous year for the following items: rice and barley polishing machinery (227 million yen, down 44.6%), meat processing machinery (390 million yen, down 34.8%), brewery machinery (54 million yen, down 24.5%), flour processing machinery (257 million yen, down 23.8%), marine processing machinery (991 million yen, down 20.6%), and other food processing machinery (5.862 billion yen, down 11.4%).*²

By region, the value of exports to the Asian region accounted for 69.0% of the total, amounting to 12.415 billion yen, up 30.4% from the preceding year. The value of exports for the North American region was 2.948 billion yen, up 15.0% from the previous year; and for the Western European region, 1.604 billion yen, up 2.9%.

By country, the value of exports in descending order was: China, first, at 4.429 billion yen, up 23.5% from a year earlier; the United States, second, 2.838 billion yen, up 22.6%; South Korea, third, 2.285 billion yen, up 15.5%; Taiwan, fourth, 1.565 billion yen, up 101.3%; and Thailand, fifth, 1.247 billion yen, up 5.2%.

*¹, *² Figures have been upwardly revised due to the addition of items to the “beverage products machinery” and “other food processing machinery,” based on partial revisions to the Statistical Classification of Commodities Exported from Japan, Japan Trade Statistics.

(4) Trends in imports in 2003

The total value of imports of food processing machinery in 2003 was, according to the Customs Statistics of the Ministry of Finance, 18.377 billion yen, up 89.1% from a year earlier.

By type of machinery, the value of imports listed in descending order is as follows:

The import value for beverage products machinery was 7.751 billion yen, 22.9 times the previous year’s results;*³ bakery and confectionery machinery, 4.202 billion yen, up 31.6% from the previous year; meat processing machinery, 2.770 billion yen, up 10.1%; other food processing machinery, 2.743 billion yen, down 6.2%;*⁴ milk and dairy products machinery, 564 million yen, down 21.3%; flour processing machinery, 279 million yen;*⁵ and brewery machinery, 67 million yen, up 146.3%.

By region, the value of imports from the Western European region was 14.206 billion yen, up 104.1% from the previous year, accounting for a high 77.3% of the total imports; the North American region, 2.528 billion yen, up 48.1%, accounting for 13.8%; and the Asian region, 1.138 billion yen, up 39.9%.

By country, the value of imports listed in descending order are as follows: The value of imports from Germany was ranked first at 5.527 billion yen, up 106.7% from the previous year; Italy, second, 3.540 billion yen, up 162.7%; the United States, third, 2.414 billion yen, up 50.1%; Denmark, fourth, 1.343 billion yen, up 171.2%; and Switzerland, fifth, 1.164 billion yen, up 81.6%.

*³, *⁴, *⁵ Figures have been upwardly revised due to the addition of items to “flour processing machinery,” “beverage products machinery,” and “other food processing machinery,” based on partial amendments to the Statistical Classification of Commodities Imported into Japan, Japan Trade Statistics.

2. Changes in the Value of Domestic Sales of Food Processing Machinery (1996 to 2003)

Units: millions of yen, Change over the year: (%)

Commodity \ Year	1996		1997		1998		1999		2000		2001		2002		2003	
	Amount	Change over the year	Amount	Change over the year	Amount	Change over the year	Amount	Change over the year	Amount	Change over the year	Amount	Change over the year	Amount	Change over the year	Amount	Change over the year
Rice and barley polishing machinery	29,586	91.2	25,710	86.9	18,046	70.2	12,673	70.2	12,204	96.3	12,782 (11,541)	- (94.6)	11,171	87.4	11,026	98.7
Flour milling machinery	10,558	102.2	9,523	90.2	9,973	104.7	8,590	86.1	9,516	110.8	10,930 (9,500)	- (99.8)	10,571	96.7	9,245	87.5
Noodle making machinery	23,795	137.4	18,679	78.5	14,261	76.3	11,383	79.8	11,658	102.4	13,675 (11,395)	- (97.7)	14,084	103.0	13,441	95.4
Bakery and confectionery machinery	94,919	97.8	96,628	101.8	70,923	73.4	70,352	99.2	86,135	122.4	97,830 (89,000)	- (103.3)	92,010	94.1	94,731	103.0
Fermented food and brewery machinery	17,816	96.5	23,695	133.0	29,768	125.6	22,183	74.5	23,615	106.5	23,806 (25,130)	- (106.4)	18,700	78.6	18,771	100.4
Milk and dairy products machinery	41,511	105.3	35,978	86.7	46,187	128.4	54,681	118.4	59,793	109.3	57,192 (58,782)	- (98.3)	59,346	103.8	49,269	83.0
Beverage products machinery	13,352	94.8	24,341	182.3	22,748	93.5	19,755	86.8	20,415	103.3	24,273 (21,691)	- (106.3)	25,539	105.2	20,381	79.8
Meat processing machinery	18,070	90.1	17,745	98.2	17,097	96.3	14,818	86.7	16,270	109.8	17,542 (14,720)	- (90.5)	15,697	89.5	15,712	100.1
Marine processing machinery	26,824	101.9	27,816	103.7	23,675	85.1	23,352	98.6	21,148	90.6	24,356 (20,470)	- (96.8)	21,222	87.1	20,123	94.8
Other food processing machinery	223,105	101.6	232,414	104.2	236,810	101.9	237,285	100.2	235,502	99.2	203,464 (231,385)	- (98.3)	191,525	94.1	185,352	96.8
Total	499,536	100.9	512,529	102.6	489,488	95.5	475,072	97.1	496,256	104.5	485,850 (493,614)	- (99.5)	459,865	94.7	438,051	95.3

Note: Until 2000, the amounts refer to value of production. As for 2001 both production (in parentheses) and sales are shown.

Source: Surveys conducted by The Japan Food Machinery Manufacturers' Association

3. Changes in the Value of Shipments, Exports and Imports of Food Processing Machinery (1993 to 2003)

(Units: millions of yen)

Classification Year	Shipments (1)		Exports (2)		Imports (3)		Export ratio (4)	Import dependence (%) (5)
	Amount	Change over the year (%)	Amount	Change over the year (%)	Amount	Change over the year (%)	(2)/(1)	(3)/(1)-(2)+(3)
1993	411,404	93.8	19,402	97.3	9,440	59.7	4.7	2.4
1994	397,892	96.7	18,011	92.8	9,455	100.2	4.5	2.4
1995	396,887	99.7	18,245	101.3	10,729	113.5	4.6	2.8
1996	411,123	103.6	21,775	119.3	13,528	126.1	5.3	3.4
1997	403,525	98.2	18,111	83.2	16,354	120.9	4.5	4.1
1998	367,072	91.0	11,548	63.8	13,727	83.9	3.1	3.7
1999	327,730	89.3	12,363	107.1	10,555	76.9	3.8	3.2
2000	335,767	102.5	14,864	120.2	10,360	98.2	4.4	3.1
2001	332,193	98.9	13,600	91.5	10,847	104.7	4.1	3.3
2002	-	-	14,794	108.8	9,717	89.6	-	-
2003	-	-	17,983*	121.6	18,377 *	189.1	-	-

Source: 1) For shipments, Industrial Statistics (Ministry of Economy, "Trade and Industry")

2) For exports and imports, "Customs Statistics" (Ministry of Finance)

* Figures have been upwardly due to the partial amendments to the Statistical Classification of Commodities Exported and Imported into Japan; same as followings.

4. Changes in the Value of Exports and Imports of Food Processing Machinery by Commodity (1993 to 2003)

(1) Exports

Units: millions of yen, Change over the year: (%)

Commodity Year	Rice and barley polishing machinery		Flour milling machinery		Noodle making machinery		Bakery and confectionery machinery		Fermented food and brewery machinery		Milk and dairy products machinery		Beverage products machinery		Meat processing machinery		Marine processing machinery		Other food processing machinery		Total	
	Amount	Change over the year	Amount	Change over the year	Amount	Change over the year	Amount	Change over the year	Amount	Change over the year	Amount	Change over the year	Amount	Change over the year	Amount	Change over the year	Amount	Change over the year	Amount	Change over the year	Amount	Change over the year
1993	1,405	140.6	414	114.7	2,675	77.5	3,801	94.8	516	108.9	15	1500.0	410	147.5	698	82.3	2,722	67.7	6,745 (326)	122.7 (78.0)	19,402	97.3
1994	1,676	119.3	332	80.2	2,200	82.2	3,770	99.2	239	46.3	0	-	811	197.8	651	93.3	1,863	68.4	6,469 (516)	95.9 (158)	18,011	92.8
1995	1,286	76.7	370	111.4	2,687	122.1	5,070	134.5	201	84.1	8	-	179	22.1	749	115.1	1,746	93.7	5,948 (460)	91.9 (89.1)	18,245	101.3
1996	1,583	123.1	370	100.0	3,516	130.9	6,206	122.4	452	224.9	0.6	7.4	345	192.7	902	120.4	1,714	98.2	6,686 (393)	112.4 (85.4)	21,775	119.3
1997	1,431	90.4	464	125.4	2,680	76.2	3,557	57.3	302	66.8	0.0	-	393	113.9	1,029	114.1	1,648	96.1	6,608 (463)	98.8 (118)	18,111	83.2
1998	1,191	83.2	579	124.8	882	32.9	2,405	67.6	82	27.2	16.9	-	481	122.4	637	61.9	717	43.5	4,558 (248)	69.0 (53.6)	11,548	63.8
1999	1,084	91.1	342	59.2	1,404	159.2	2,335	97.1	10	12.3	5.3	31.4	617	128.3	967	151.7	766	106.9	4,832 (203)	106.0 (81.9)	12,363	107.1
2000	710	65.5	250	73.0	1,557	112.3	3,616	154.8	339	3334.6	1.3	24.5	572	92.7	555	57.4	729	95.2	6,514 (319)	134.8 (157)	14,864	120.2
2001	478	67.3	225	89.9	1,607	101.9	3,476	96.1	29	8.4	5.4	420.0	145	25.4	421	75.9	968	132.7	6,246 (323)	95.9 (101)	13,600	91.5
2002	409	85.4	337	150.1	2,153	134.0	3,189	91.8	71	249.2	2.1	38.8	172	118.3	599	142.2	1,249	129.0	6,614 (613)	105.9 (190)	14,794	108.8
2003	227	55.4	257	76.2	2,947	136.9	3,563	111.7	54	75.5	0	0.0	3,692	2,149	390	65.2	991	79.4	5,862 (337)	88.6 (55.0)	17,983	121.6

Note: 1) Because of rounding, row and column totals may not agree.

2) Numbers for "Other food processing machinery" include those of "Fruit and vegetables cooking machinery," which are indicated in parentheses.

Source: "Customs Statistics" (Ministry of Finance)

(2) Imports

Units: millions of yen, Change over the year: (%)

Commodity Year	Flour processing machinery		Bakery and confectionery machinery		Fermented food and brewery machinery		Milk and dairy products machinery		Beverage products machinery		Meat processing machinery		Other food processing machinery		Total	
	Amount	Change over the year	Amount	Change over the year	Amount	Change over the year	Amount	Change over the year	Amount	Change over the year	Amount	Change over the year	Amount	Change over the year	Amount	Change over the year
1993	-	-	3,452	42.3	16	9.5	764	84.5	385	119.2	2,286	59.3	2,538 (263)	105.2 (183)	9,440	59.7
1994	-	-	3,231	93.6	277	1731.3	968	126.7	399	103.6	1,912	83.6	2,667 (357)	105.1 (136)	9,455	100.2
1995	-	-	3,992	123.6	502	181.2	698	72.1	301	75.4	2,717	142.1	2,518 (407)	94.4 (114)	10,729	113.5
1996	-	-	4,683	117.3	1,930	384.5	1,112	159.3	631	209.6	3,052	112.3	2,120 (185)	84.2 (45.5)	13,528	126.1
1997	-	-	5,032	107.5	3,908	202.5	1,151	103.5	1,158	183.5	2,876	94.2	2,229 (342)	105.1 (185)	16,354	120.9
1998	-	-	3,152	62.6	2,464	63.1	1,228	106.7	800	69.1	2,291	79.7	3,792 (178)	170.1 (52.0)	13,727	83.9
1999	-	-	3,822	121.2	811	32.9	859	70.0	433	54.2	2,783	121.5	1,846 (363)	48.7 (204)	10,555	76.9
2000	-	-	3,502	91.6	349	43.1	1,143	133.0	683	157.6	2,627	94.4	2,056 (370)	111.3 (102)	10,360	98.2
2001	-	-	3,600	102.8	122	35.1	753	65.9	467	68.4	3,830	145.8	2,075 (260)	100.9 (70.2)	10,847	104.7
2002	-	-	3,194	88.7	28	22.8	716	95.1	339	72.6	2,517	65.7	2,924 (298)	140.9 (115)	9,717	89.6
2003	279	-	4,202	131.6	69	246.3	564	78.7	7,751	2,286	2,770	110.1	2,743 (245)	93.8 (82.3)	18,337	189.1

Note: 1) Because of rounding, row and column totals may not agree.

2) Numbers for "Other food processing machinery" include those of "Fruit and vegetables cooking machinery," which are indicated in parentheses.

Source: "Customs Statistics" (Ministry of Finance)

5. Changes in Actual Results of the Value of Exports and Imports of Food Processing Machinery by Region (1993 to 2003)

(1) Exports

Units: millions of yen, Composition: (%)

Year \ Region	Asia		Middle East		Western Europe		Russia & Eastern Europe		North America		Latin America		Africa		Oceania		Total	
	Amount	Composition	Amount	Composition	Amount	Composition	Amount	Composition	Amount	Composition	Amount	Composition	Amount	Composition	Amount	Composition	Amount	Composition
1993	13,209	68.1	36	0.2	1,247	6.4	1,615	8.3	2,396	12.4	351	1.8	413	2.1	135	0.7	19,402	100.0
1994	13,569	75.3	167	0.9	631	3.5	247	1.4	2,312	12.8	552	3.1	208	1.2	326	1.8	18,011	100.0
1995	14,203	77.8	37	0.2	708	3.9	505	2.8	1,977	10.8	286	1.6	322	1.8	206	1.1	18,245	100.0
1996	17,679	81.2	158	0.7	841	3.9	199	0.9	2,078	9.5	403	1.9	99	0.5	317	1.5	21,775	100.0
1997	11,626	64.2	171	0.9	1,275	7.0	83	0.5	3,283	18.1	790	4.4	193	1.1	690	3.8	18,111	100.0
1998	5,495	47.6	170	1.5	1,502	13.0	19	0.2	2,974	25.8	922	8.0	135	1.2	331	2.9	11,548	100.0
1999	6,142	49.7	78	0.6	1,968	15.9	149	1.2	3,045	24.6	553	4.5	133	1.1	295	2.4	12,363	100.0
2000	8,497	57.2	43	0.3	1,789	12.0	185	1.2	3,356	22.6	468	3.2	83	0.6	444	3.0	14,864	100.0
2001	8,871	65.2	63	0.5	1,470	10.8	126	0.9	2,543	18.7	165	1.2	126	0.9	235	1.7	13,600	100.0
2002	9,520	64.4	7.4	0.1	1,559	10.5	20	0.1	2,563	17.3	622	4.2	183	1.2	320	2.2	14,794	100.0
2003	12,415	69.0	213	1.2	1,604	8.9	157	0.9	2,948	16.4	282	1.6	58	0.3	306	1.7	17,983	100.0

(2) Imports

Year \ Region	Asia		Middle East		Western Europe		Russia & Eastern Europe		North America		Latin America		Africa		Oceania		Total	
	Amount	Composition	Amount	Composition	Amount	Composition	Amount	Composition	Amount	Composition	Amount	Composition	Amount	Composition	Amount	Composition	Amount	Composition
1993	142	1.5	1	0.0	7,285	77.2	13	0.1	1,986	21.1	2	0.0	4	0.0	7	0.1	9,440	100.0
1994	190	2.0	1	0.0	7,364	77.9	21	0.2	1,630	17.2	2	0.1	9	0.1	238	2.5	9,455	100.0
1995	347	3.2	3	0.0	8,509	79.3	42	0.4	1,820	17.0	0	-	0	-	8	0.1	10,729	100.0
1996	392	2.9	0	-	10,669	78.9	138	1.0	2,115	15.6	2	0.0	0	-	213	1.6	13,528	100.0
1997	811	5.0	7	0.0	12,113	74.1	232	1.4	3,051	18.7	4	0.0	1	0.0	134	0.8	16,354	100.0
1998	653	4.8	0	-	10,749	78.3	33	0.2	2,119	15.4	8	0.1	5	0.0	160	1.2	13,727	100.0
1999	857	8.1	4	0.0	7,816	74.1	15	0.1	1,701	16.1	14	0.1	76	0.7	73	0.7	10,555	100.0
2000	697	6.7	0	-	7,630	73.7	21	0.2	1,894	18.3	26	0.3	0	-	92	0.9	10,360	100.0
2001	727	6.7	0	-	8,091	74.6	2	0.0	1,778	16.4	51	0.5	24	0.2	173	1.6	10,847	100.0
2002	813	8.4	0	-	6,960	71.6	5	0.1	1,707	17.6	17	0.2	0	-	214	2.2	9,717	100.0
2003	1,138	6.2	7	0.0	14,206	77.3	9	0.0	2,528	13.8	11	0.1	0	-	478	2.6	18,377	100.0

Note: 1) Because of rounding, row and column totals may not agree.
Source: "Customs Statistics" (Ministry of Finance)

6. Actual Results of the Value of Exports and Imports of Food Processing Machinery by Commodity and Region (2003)

(1) Exports

Units: millions of yen, Composition: (%), Change over the year: (%)

Commodity \ Region	Asia		Middle East		Western Europe		Russia & Eastern Europe		North America		Latin America		Africa		Oceania		Total		
	Amount	Change over the year	Amount	Change over the year	Amount	Change over the year	Amount	Change over the year	Amount	Change over the year	Amount	Change over the year	Amount	Change over the year	Amount	Change over the year	Amount	Change over the year	Composition
Rice and barley polishing machinery	161	65.5	-	-	1	3.1	-	-	22	53.6	40	241.4	2	3.6	1	9.4	227	55.4	1.3
Flour milling machinery	236	78.3	-	-	7	70.8	-	-	12	84.8	1	9.6	1	58.2	-	-	257	76.2	1.4
Noodle making machinery	2,431	237.7	64	5,592	58	382.5	7	-	311	62.0	69	13.6	-	-	7	13.2	2,947	136.9	16.4
Bakery and confectionery machinery	2,296	124.0	65	2,473	599	104.5	-	-	438	62.8	76	-	-	-	90	139.9	3,563	111.7	19.8
Fermented food and brewery machinery	21	29.4	-	-	33	-	-	-	-	-	-	-	-	-	-	-	54	75.5	0.3
Milk and dairy products machinery	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0
Beverage products machinery	2,573	1823.8	63	-	219	14,661	71	-	637	3,739	39	-	1	65.3	89	787.0	3,692	2149.3	20.5
Meat processing machinery	288	102.6	-	-	17	10.2	1	-	73	64.4	6	50.6	-	-	5	17.7	390	65.2	2.2
Marine processing machinery	731	127.2	-	-	35	9.7	67	2,313	108	47.5	22	60.6	21	45.2	8	868.2	991	79.4	5.5
Other food processing machinery	3,678	73.1	22	584.6	636	157.6	11	62.3	1,347	141.6	29	69.5	33	194.9	107	70.9	5,862	88.6	32.6
Total	12,415	130.4	213	2,864	1,604	102.9	157	778.9	2,948	115.0	282	45.2	58	32.0	306	95.9	17,983	121.6	100.0

(2) Imports

Units: millions of yen, Composition: (%), Change over the year: (%)

Commodity \ Region	Asia		Middle East		Western Europe		Russia & Eastern Europe		North America		Latin America		Africa		Oceania		Total		
	Amount	Change over the year	Amount	Change over the year	Amount	Change over the year	Amount	Change over the year	Amount	Change over the year	Amount	Change over the year	Amount	Change over the year	Amount	Change over the year	Amount	Change over the year	Composition
Rice and barley polishing machinery	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Flour milling machinery	49	-	-	-	225	-	-	-	5	-	-	-	-	-	-	-	279	-	1.5
Noodle making machinery	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bakery and confectionery machinery	174	153.1	-	-	3,644	135.5	-	-	327	88.5	3	17.7	-	-	53	-	4,202	131.6	22.9
Fermented food and brewery machinery	-	-	-	-	58	212.6	-	-	11	1,749	-	-	-	-	-	-	69	246.3	0.4
Milk and dairy products machinery	16	73.2	1	-	391	79.5	-	-	157	77.1	-	-	-	-	-	-	564	78.7	3.1
Beverage products machinery	228	5,805	-	-	6,135	2,041	-	-	1,377	4,221	5	-	-	-	4	437.3	7,751	2285.5	42.2
Meat processing machinery	340	93.6	-	-	2,230	118.2	5	712.3	195	73.7	-	-	-	-	-	-	2,770	110.1	15.1
Marine processing machinery	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other food processing machinery	331	106.5	6	-	1,525	97.4	3	-	455	54.5	3	404.9	-	-	420	199.3	2,743	93.8	14.9
Total	1,138	139.9	7	706.7	14,206	204.1	9	181.7	2,528	148.1	11	65.5	-	-	478	223.1	18,377	189.1	100.0

Note: 1) Because of rounding, row and column totals may not agree. 2) “-” represents numbers that cannot be compared to the previous year.
Source: Customs Statistics (Ministry of Finance)

7. Actual Results of the Value of Exports and Imports of Food Processing Machinery by Commodity and Top Five Trading Partner Countries (2003)

(1) Exports

Units: millions of yen, Composition: (%), Change over the year: (%)

Rice and barley polishing machinery				Flour milling machinery				Noodle making machinery				Bakery and confectionery machinery			
Country	Amount	Change over the year	Composition	Country	Amount	Change over the year	Composition	Country	Amount	Change over the year	Composition	Country	Amount	Change over the year	Composition
India	52	1137.7	22.9	Thailand	85	81.2	33.1	China	736	321.8	25.0	China	782	174.4	21.9
South Korea	33	124.4	14.5	South Korea	53	336.6	20.6	Indonesia	486	268.5	16.5	South Korea	765	309.3	21.5
Taiwan	26	85.3	11.5	China	50	52.1	19.5	Taiwan	359	352.6	12.2	Germany	513	122.0	14.4
Venezuela	26	466.4	11.5	India	14	217.1	5.4	Thailand	316	1108.3	10.7	US	433	66.2	12.2
Philippines	24	-	10.6	Malaysia	14	209.1	5.4	US	294	77.2	10.0	Taiwan	265	195.5	7.4
Five countries	161	50.8	70.9	Five countries	216	79.1	84.0	Five countries	2,191	171.6	74.3	Five countries	2,758	115.8	77.4
Total	227	55.4	100.0	Total	257	76.2	100.0	Total	2,947	136.9	100.0	Total	3,563	111.7	100.0

Fermented food and brewery machinery				Milk and dairy products machinery				Beverage products machinery				Meat processing machinery			
Country	Amount	Change over the year	Composition	Country	Amount	Change over the year	Composition	Country	Amount	Change over the year	Composition	Country	Amount	Change over the year	Composition
Norway	23	-	42.6					China	1,017	3383.5	27.5	South Korea	86	170.9	22.1
Taiwan	21	-	38.9					US	630	8320.1	17.1	China	85	78.6	21.8
Belgium	10	-	18.5					South Korea	488	3301.9	13.2	US	50	47.7	12.8
								Taiwan	394	741.3	10.7	Thailand	32	239.2	8.2
								Thailand	248	2460.6	6.7	Taiwan	26	51.5	6.7
Three countries	54	75.5	100.0					Five countries	2,777	2136.2	75.2	Five countries	279	62.1	71.5
Total	54	75.5	100.0	Total				Total	3,692	2149.3	100.0	Total	390	65.2	100.0

Marine processing machinery				Fruit and vegetables cooking machinery				Other food processing machinery				Total			
Country	Amount	Change over the year	Composition	Country	Amount	Change over the year	Composition	Country	Amount	Change over the year	Composition	Country	Amount	Change over the year	Composition
Thailand	206	75.8	20.8	China	231	77.3	68.5	China	1,330	65.3	24.1	China	4,429	123.5	24.6
China	198	116.5	20.0	South Korea	36	16.7	10.7	US	1,303	150.0	23.6	US	2,838	122.6	15.8
Malaysia	138	370.2	13.9	Thailand	16	95.6	4.7	South Korea	621	54.3	11.2	South Korea	2,285	115.5	12.7
US	89	39.3	9.0	Taiwan	9	90.7	2.7	Taiwan	449	115.1	8.1	Taiwan	1,565	201.3	8.7
India	49	279.2	4.9	Kenya	9	-	2.7	Germany	275	95.8	5.0	Thailand	1,247	105.2	6.9
Five countries	680	75.8	68.6	Five countries	301	53.7	89.3	Five countries	3,978	84.1	72.0	Five countries	12,364	125.6	68.8
Total	991	79.4	100.0	Total	337	55.0	100.0	Total	5,525	92.1	100.0	Total	17,983	121.6	100.0

Source: Customs Statistics (Ministry of Finance)

(2) Imports

Units: millions of yen, Composition: (%), Change over the year: (%)

Rice and barley polishing machinery				Flour milling machinery				Noodle making machinery				Bakery and confectionery machinery			
Country	Amount	Change over the year	Composition	Country	Amount	Change over the year	Composition	Country	Amount	Change over the year	Composition	Country	Amount	Change over the year	Composition
				Switzerland	167	-	59.9					Italy	984	160.2	23.4
				Germany	31	-	11.1					Denmark	872	501.8	20.8
				China	24	-	8.6					Germany	549	64.6	13.1
				Australia	17	-	6.1					France	443	217.1	10.5
				Thailand	11	-	3.9					US	279	82.2	6.6
Five countries				Five countries	250	-	89.6	Five countries				Five countries	3,127	123.9	74.4
Total				Total	279	-	100.0	Total				Total	4,202	131.6	100.0

Fermented food and brewery machinery				Milk and dairy products machinery				Beverage products machinery				Meat processing machinery			
Country	Amount	Change over the year	Composition	Country	Amount	Change over the year	Composition	Country	Amount	Change over the year	Composition	Country	Amount	Change over the year	Composition
France	39	-	56.5	Italy	309	96.7	54.8	Germany	3,064	3007.8	39.5	Germany	1,405	141.2	50.7
Italy	11	47.0	15.9	US	133	83.1	23.6	Italy	1,939	2241.4	25.0	South Korea	267	96.6	9.6
US	8	1241.7	11.6	Sweden	51	106.9	9.0	US	1,365	4182.9	17.6	Denmark	217	367.0	7.8
Denmark	6	-	8.7	Canada	24	54.9	4.3	Switzerland	605	1180.8	7.8	Netherlands	198	41.7	7.1
Canada	3	-	4.3	Germany	15	554.2	2.7	France	199	1562.0	2.6	US	187	72.5	6.8
Five countries	67	239.3	97.1	Five countries	532	78.7	94.3	Five countries	7,172	2234.3	92.5	Five countries	2,274	108.9	82.1
Total	69	246.3	100.0	Total	564	78.7	100.0	Total	7,751	2285.5	100.0	Total	2,770	110.1	100.0

Marine processing machinery				Fruit and vegetables cooking machinery				Other food processing machinery				Total			
Country	Amount	Change over the year	Composition	Country	Amount	Change over the year	Composition	Country	Amount	Change over the year	Composition	Country	Amount	Change over the year	Composition
				US	61	70.1	24.9	Germany	456	65.3	18.3	Germany	5,527	206.7	30.1
				UK	45	343.9	18.4	Australia	420	199.3	16.8	Italy	3,540	262.7	19.3
				Italy	44	819.1	18.0	US	377	51.5	15.1	US	2,414	150.1	13.1
				Sweden	24	572.1	9.8	Denmark	231	210.2	9.2	Denmark	1,343	271.2	7.3
				Netherlands	23	17.3	9.4	South Korea	190	147.5	7.6	Switzerland	1,164	181.6	6.3
Five countries				Five countries	197	71.4	80.4	Five countries	1,674	84.0	67.0	Five countries	13,988	192.4	76.1
Total				Total	245	82.3	100.0	Total	2,498	95.1	100.0	Total	18,377	189.1	100.0

Source: "Customs Statistics" (Ministry of Finance)