

## Situation

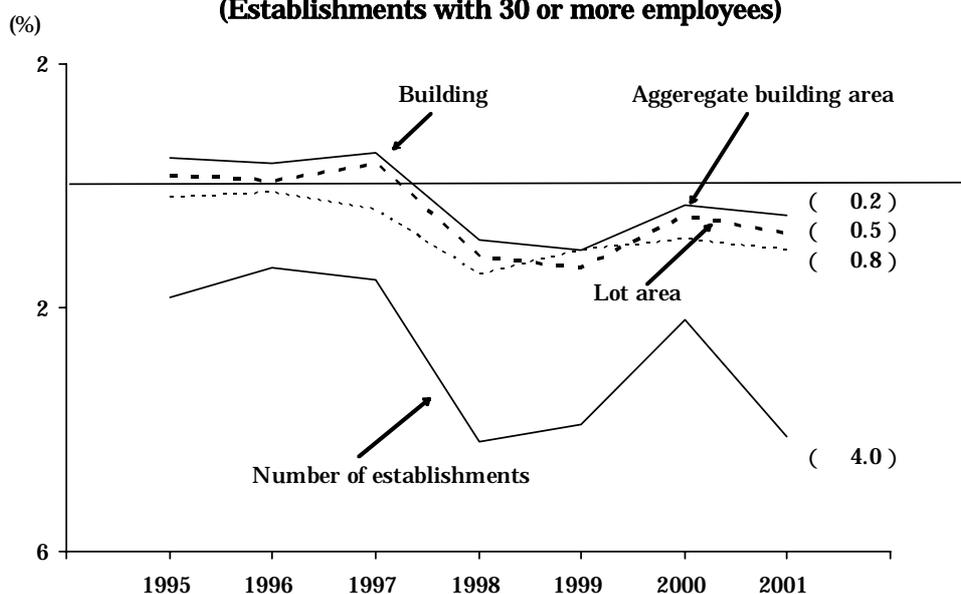
### I. Industrial Sites

The number of manufacturing establishments with 30 or more employees (herein after referred to as the “number of establishments”) in 2001 decreased by 4.0% to 49,396, the tenth consecutive yearly decline (Table 1, Figure 1).

Lot area of establishments was 1.44259 billion m<sup>2</sup> (down 0.8% compared to the previous year), building area was 383.51 million m<sup>2</sup> (down 0.5% id.), and total building area was 513.98 million m<sup>2</sup> (down 0.2% id.). In addition, the lot area per establishment was 29.223 m<sup>2</sup> for manufacturing industries, up 3.4% from the previous year.

Furthermore, the average value of shipment per 1,000 m<sup>2</sup> of total building area in manufacturing industries decreased to 480.10 million yen (down 4.2% id.).

**Figure 1 Year-to-year change in major items of industrial sites  
(Establishments with 30 or more employees)**



Note: The figures in brackets indicate a year-to-year comparison (%)

**Table 1 Transition in major items of industrial sites  
(Establishments with 30 or more employees)**

Year	Number of establishments		Lot area		Building area		Aggregate building area		Value of shipment of manufactured products per 1,000 m <sup>2</sup> aggregate building area	
	Y/Y (%)	Y/Y (%)	Y/Y (%)	Y/Y (%)	Y/Y (%)	Y/Y (%)	Y/Y (%)	Y/Y (%)	(10 thousand yen)	Y/Y (%)
1995	56,749	1.6	1,478,266	0.1	385,845	0.5	508,595	0.8	50,799	1.4
1996	56,106	1.1	1,480,905	0.2	387,520	0.4	511,980	0.7	51,852	2.1
1997	55,386	1.3	1,479,934	0.1	390,114	0.7	516,554	0.9	53,293	2.8
1998	54,518	4.1	1,474,839	1.2	390,442	0.9	518,648	0.6	49,896	6.4
1999	52,469	3.8	1,462,761	0.8	386,057	1.1	514,749	0.8	48,286	3.2
2000	51,434	2.0	1,453,612	0.6	385,355	0.2	514,995	0.0	50,098	3.8
2001	49,364	4.0	1,442,586	0.8	383,510	0.5	513,982	0.2	48,010	4.2

Note: Year-to-year comparisons for 1998 were adjusted based on a time series of the acquisition of establishments being conducted.

# 1. Situation by industry

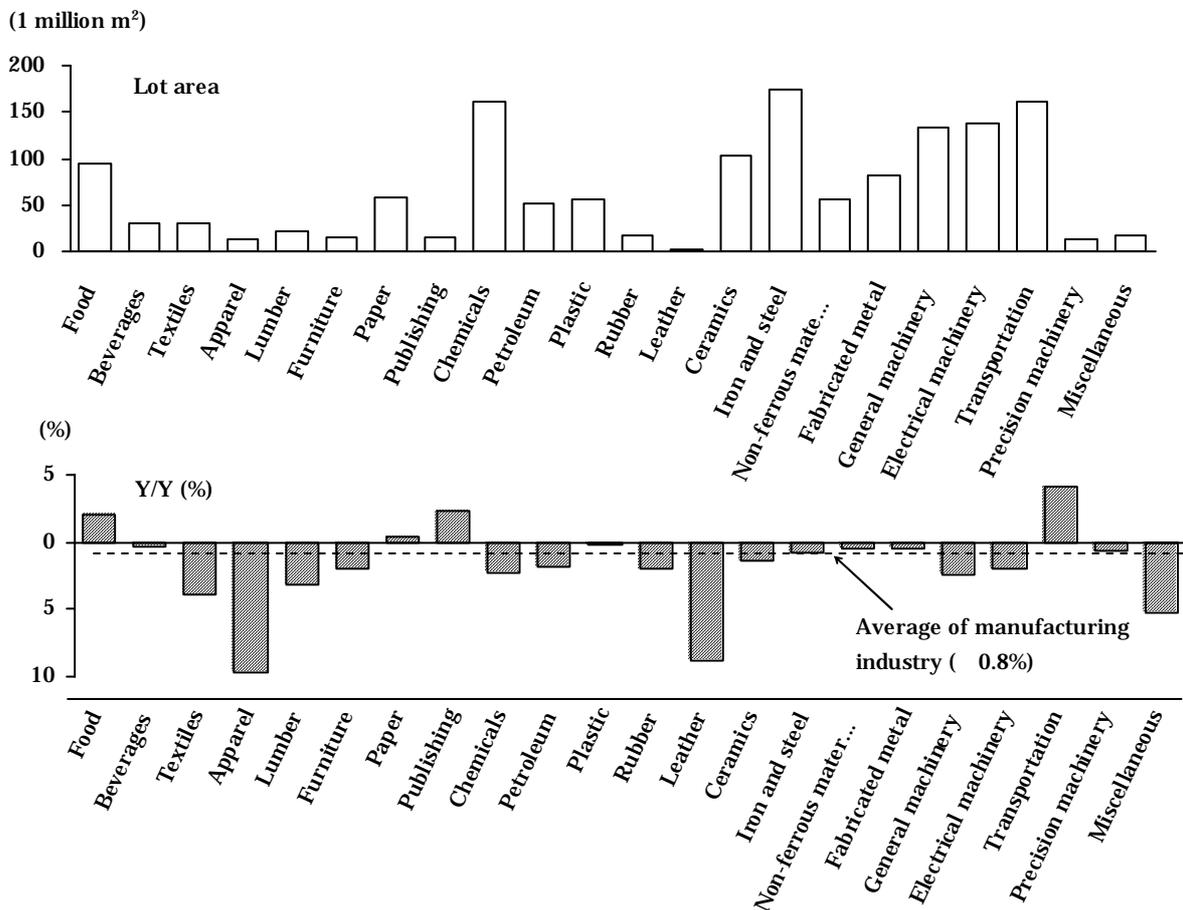
## (1) Lot area

(i) Lot area of establishments decreased by 0.8% compared to the previous year, falling to 1.4259 billion m<sup>2</sup>, the fifth consecutive yearly decline (Table 1).

By industry, the lot area was large in industries including iron and steel (175.01 m<sup>2</sup>, composition ratio 12.1%), chemicals (162.35 m<sup>2</sup>, 11.3% id.), transportation (162.08 m<sup>2</sup>, 11.2% id.), electrical machinery (136.71 m<sup>2</sup>, 9.5% id.), general machinery (133.11 m<sup>2</sup>, 9.2% id.), ceramics, stone and clay products (124.3 m<sup>2</sup>, 7.1% id.), and food (95.43 million m<sup>2</sup>, 6.6% id.) (Table 2, Figure 2).

Compared to the previous year, lot area decreased in 18 industries, including apparel and other finished products (down 9.8% compared to the previous year), leather tanning, leather products and fur skins (down 8.9% id.), and miscellaneous manufacturing products (down 5.2% id.), whereas it increased in 4 industries, including transportation equipment (up 4.1% id.), and publishing, printing and related products (up 2.3% id.).

**Figure 2 Lot area by industry**  
(Establishments with 30 or more employees)



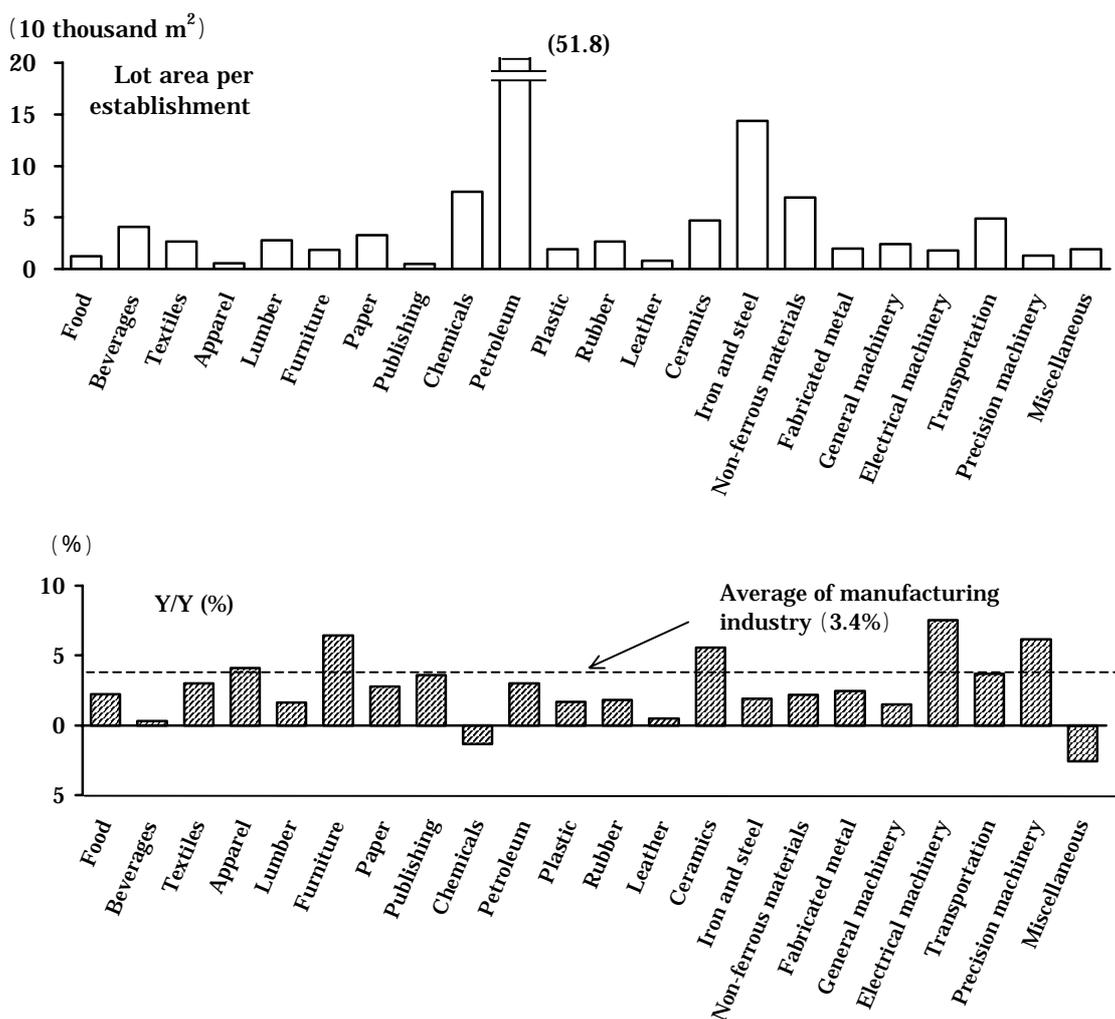
Note: The general machinery industry includes the ordnance and accessories industry.

(ii) The average lot area per establishment was 29,223 m<sup>2</sup>, up 3.4% compared to the previous year (Table 2).

By industry in decreasing order, it was especially large in petroleum and coal products (518.356 m<sup>2</sup>), followed by iron and steel (146.327 m<sup>2</sup>), chemicals (74.232 m<sup>2</sup>), and non-ferrous metals (70.719 m<sup>2</sup>) (Table 2, Figure 3).

In the year-to-year comparison, there was an increase in 20 industries, including electrical machinery (up 7.6% compared to the previous year), furniture and fixtures (up 6.4% id.), and precision instruments and machinery (up 6.2% id.), whereas, there was a decrease in 2 industries, namely, miscellaneous manufacturing products (down 2.6% id.), and chemicals (down 1.3% id.).

**Figure 3 Lot area per establishment by industry  
(Establishments with 30 or more employees)**



Note: The general machinery industry includes the ordnance and accessories industry.

**Table 2 Number of establishments and lot area by industry  
(Establishments with 30 or more employees)**

Industry	Number of establishments				Lot area				Lot area per establishment		
	2000	2001		2000 (1,000 m <sup>2</sup> )	2001		2000 (m <sup>2</sup> )	2001		Y/Y (%)	
		Y/Y (%)	Composition ratio (%)		Y/Y (%)	Composition ratio (%)		(m <sup>2</sup> )	(m <sup>2</sup> )		
Total	51,434	49,364	4.0	100.0	1,453,612	1,442,586	0.8	100.0	28,262	29,223	3.4
12 Food	7,388	7,370	0.2	14.9	93,591	95,432	2.0	6.6	12,668	12,949	2.2
13 Beverages, tobacco and feed	716	712	0.6	1.4	29,347	29,266	0.3	2.0	40,987	41,104	0.3
14 Textile mill products	1,165	1,087	6.7	2.2	31,250	30,029	3.9	2.1	26,824	27,626	3.0
15 Apparel and other finished products made from fabrics and similar materials	2,776	2,406	13.3	4.9	14,889	13,434	9.8	0.9	5,363	5,584	4.1
16 Lumber and wood products	764	728	4.7	1.5	21,199	20,530	3.2	1.4	27,748	28,200	1.6
17 Furniture and fixtures	817	753	7.8	1.5	15,060	14,773	1.9	1.0	18,433	19,619	6.4
18 Pulp, paper and paper products	1,736	1,696	2.3	3.4	56,965	57,188	0.4	4.0	32,814	33,719	2.8
19 Publishing, printing and related products	2,925	2,889	1.2	5.9	14,620	14,957	2.3	1.0	4,998	5,177	3.6
20 Chemical products	2,207	2,187	0.9	4.4	166,052	162,346	2.2	11.3	75,239	74,232	1.3
21 Petroleum and coal products	106	101	4.7	0.2	53,346	52,354	1.9	3.6	503,265	518,356	3.0
22 Plastic products	2,995	2,938	1.9	6.0	55,840	55,691	0.3	3.9	18,644	18,956	1.7
23 Rubber products	673	648	3.7	1.3	17,825	17,474	2.0	1.2	26,485	26,966	1.8
24 Leather tanning, leather products and fur skins	226	205	9.3	0.4	1,759	1,603	8.9	0.1	7,784	7,821	0.5
25 Ceramics, stone and clay products	2,211	2,065	6.6	4.2	103,893	102,430	1.4	7.1	46,989	49,603	5.6
26 Iron and steel	1,229	1,196	2.7	2.4	176,440	175,008	0.8	12.1	143,564	146,327	1.9
27 Non-ferrous metals and products	799	778	2.6	1.6	55,293	55,020	0.5	3.8	69,203	70,719	2.2
28 Fabricated metal products	4,242	4,120	2.9	8.3	83,155	82,743	0.5	5.7	19,603	20,083	2.5
29 General machinery (ordnance included)	5,677	5,455	3.9	11.1	136,511	133,108	2.5	9.2	24,046	24,401	1.5
30 Electrical machinery, equipment and supplies	7,641	6,968	8.8	14.1	139,392	136,714	1.9	9.5	18,243	19,620	7.6
31 Transportation equipment	3,180	3,192	0.4	6.5	155,719	162,075	4.1	11.2	48,968	50,775	3.7
32 Precision instruments and machinery	1,007	942	6.5	1.9	13,036	12,946	0.7	0.9	12,946	13,743	6.2
34 Miscellaneous manufacturing products	954	928	2.7	1.9	18,429	17,465	5.2	1.2	19,318	18,820	2.6

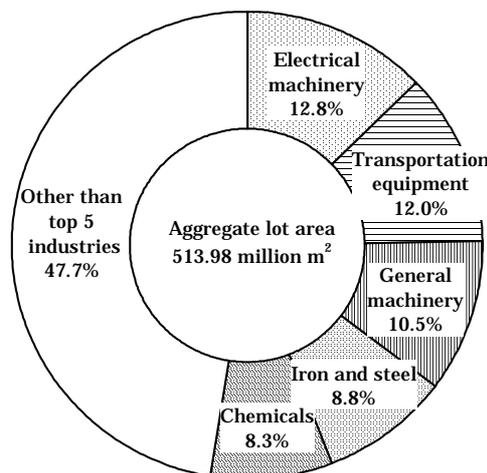
**(2) Total building area**

(i) Total building area was 513.98 million m<sup>2</sup>, a 0.2% decrease compared to the previous year (Table 1).

By industry, total building area was large in processing and assembly industries and process industries, including electrical machinery (65.56 million m<sup>2</sup>, composition ratio 12.8%), transportation equipment (61.84 million m<sup>2</sup>, 12.0% id.), general machinery (54.05 million m<sup>2</sup>, 10.5% id.), iron and steel (45.35 million m<sup>2</sup>, 8.8% id.), and chemicals (42.59 million m<sup>2</sup>, 8.3% id.) (Table 3, Figure 4).

In comparison with the previous year, there was a decrease in 14 industries, including apparel and other finished products (down 9.0% compared to the previous year), leather tanning, leather products and fur skins (down 7.8% id.), petroleum and coal products (down 6.3% id.), and textile mill products (down 3.8% id.), whereas there was an increase in 8 industries, including precision instruments and machinery (up 2.5% id.), plastic products (up 1.6% id.), transportation equipment (up 1.4% id.), and food (up 1.0% id.).

**Figure 4 Composition ratio of total building area by industry  
(Establishments with 30 or more employees)**

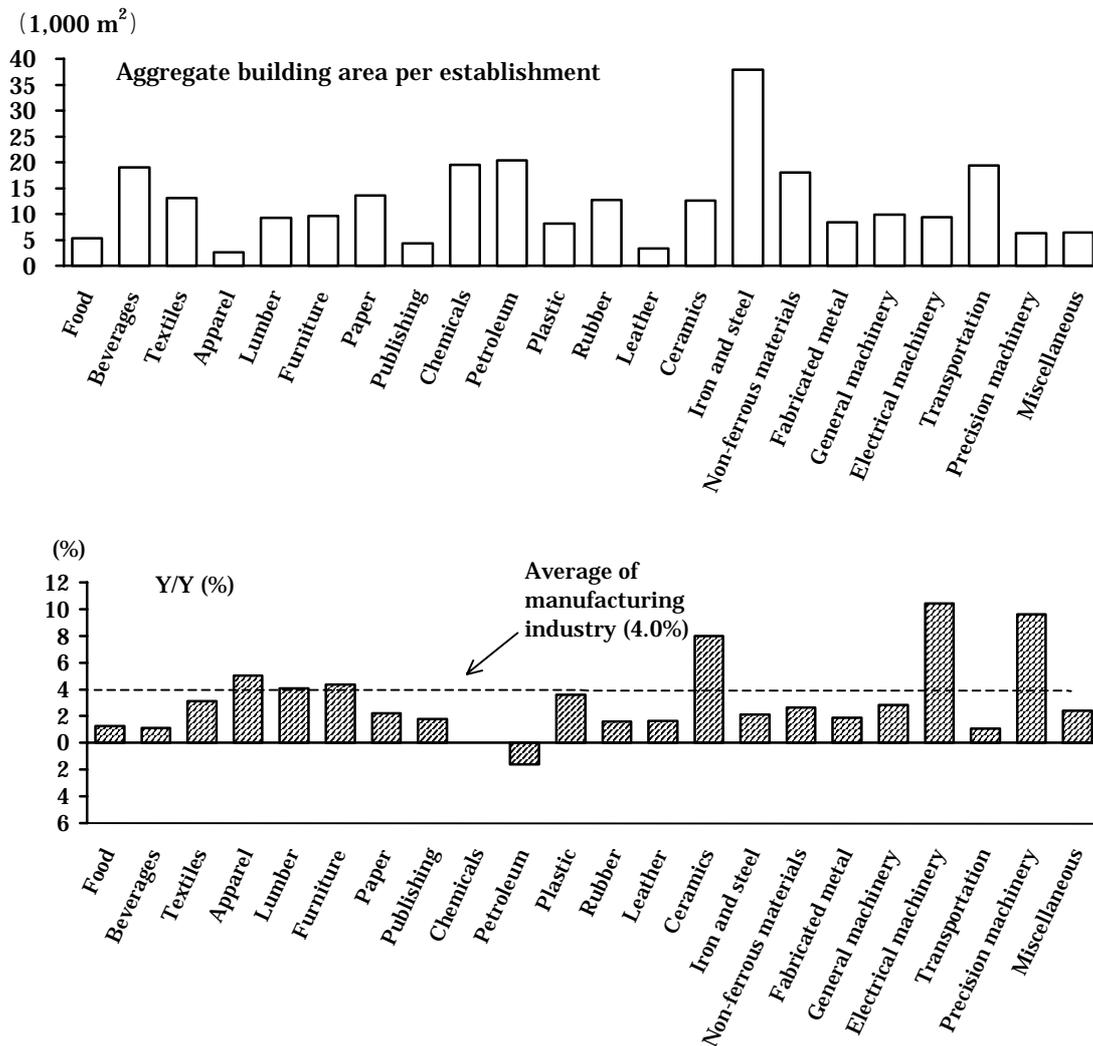


(ii) The average aggregate building area per establishment in manufacturing industries was 10,412 m<sup>2</sup>, an increase of 4.0% in comparison with the previous year (Table 3).

On an industry basis, the largest was iron and steel (37,914 m<sup>2</sup>), followed by petroleum and coal products (20,393 m<sup>2</sup>), chemicals (19,474 m<sup>2</sup>), and transportation equipment (19,374 m<sup>2</sup>) (Table 3, Figure 5).

In comparison with the previous year, there was an increase in 21 industries, including electrical machinery (up 10.4% compared to the previous year), precision instruments and machinery (up 9.6% id.), ceramics, stone and clay products (up 8.0% id.), apparel and other finished products (up 5.0% id.), and furniture and fixtures (up 4.4% id.), whereas it decreased in petroleum and coal products (down 1.6% id.).

**Figure 5 Aggregate building area per establishment by industry  
(Establishments with 30 or more employees)**



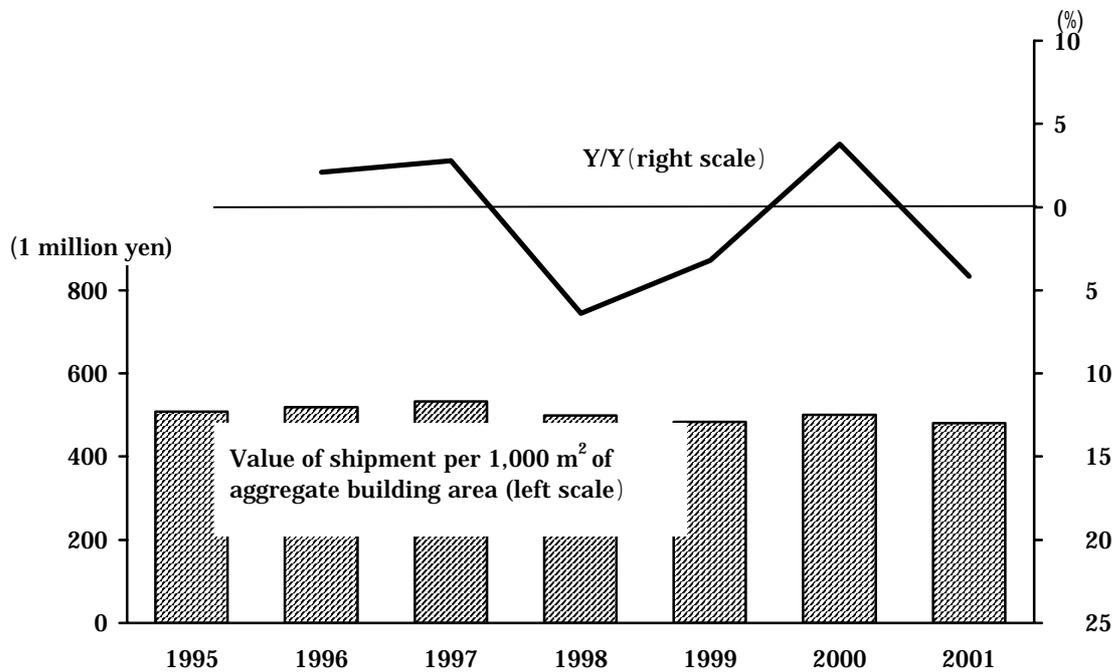
Note: The general machinery industry includes the ordnance and accessories industry.

(iii) The average value of shipment per total building area of 1,000 m<sup>2</sup> in the manufacturing industries was 480.10 million yen, down 4.2% compared to the previous year (Table 3, Figure 6).

By industry, the value of shipment per total building area was remarkably high in petroleum and coal products (4.43908 billion yen), followed by publishing, printing and related products (781.47 million yen), electrical machinery (762.99 million yen), beverages, tobacco and feed (722.89 million yen), transportation equipment (763.5 million yen), and precision instruments and machinery (588.86 million yen).

In comparison with the previous year, there was a decrease in 18 industries, including electrical machinery (down 12.6% compared to the previous year), plastic products (down 5.9% id.), ceramics, stone and clay products (down 5.9% id.), general machinery (down 5.8% id.), lumber and wood products (down 5.7% id.), and apparel and other finished products (down 5.6% id.), whereas there was an increase in 4 industries, including petroleum and coal products (up 8.8% id.), and leather tanning, leather products and fur skins (up 1.1% id.).

**Figure 6 Transition in the value of shipment per total building area of 1,000 m<sup>2</sup> (Establishments with 30 or more employees)**



**Table 3 Number of establishments and lot area by industry  
(Establishments with 30 or more employees)**

Industry	Number of establishments				Building area			
	2000	2001	Y/Y (%)	Composition ratio (%)	2000  (1,000 m <sup>2</sup> )	2001  (1,000 m <sup>2</sup> )	Y/Y (%)	Composition ratio (%)
Total	51,434	49,364	4.0	100.0	385,355	383,510	0.5	100.0
12 Food	7,388	7,370	0.2	14.9	27,329	27,480	0.6	7.2
13 Beverages, tobacco and feed	716	712	0.6	1.4	9,576	9,600	0.3	2.5
14 Textile mill products	1,165	1,087	6.7	2.2	12,331	11,787	4.4	3.1
15 Apparel and other finished products made from fabrics and similar materials	2,776	2,406	13.3	4.9	4,857	4,430	8.8	1.2
16 Lumber and wood products	764	728	4.7	1.5	6,099	6,004	1.5	1.6
17 Furniture and fixtures	817	753	7.8	1.5	5,430	5,247	3.4	1.4
18 Pulp, paper and paper products	1,736	1,696	2.3	3.4	17,239	17,211	0.2	4.5
19 Publishing, printing and related products	2,925	2,889	1.2	5.9	5,957	6,022	1.1	1.6
20 Chemical products	2,207	2,187	0.9	4.4	28,336	27,944	1.4	7.3
21 Petroleum and coal products	106	101	4.7	0.2	1,674	1,574	6.0	0.4
22 Plastic products	2,995	2,938	1.9	6.0	18,016	18,133	0.6	4.7
23 Rubber products	673	648	3.7	1.3	6,557	6,457	1.5	1.7
24 Leather tanning, leather products and fur skins	226	205	9.3	0.4	525	473	9.9	0.1
25 Ceramics, stone and clay products	2,211	2,065	6.6	4.2	20,791	20,928	0.7	5.5
26 Iron and steel	1,229	1,196	2.7	2.4	40,199	40,033	0.4	10.4
27 Non-ferrous metals and products	799	778	2.6	1.6	11,953	11,913	0.3	3.1
28 Fabricated metal products	4,242	4,120	2.9	8.3	28,514	28,283	0.8	7.4
29 General machinery (ordnance included)	5,677	5,455	3.9	11.1	42,565	41,820	1.8	10.9
30 Electrical machinery, equipment and supplies	7,641	6,968	8.8	14.1	40,098	40,122	0.1	10.5
31 Transportation equipment	3,180	3,192	0.4	6.5	49,272	50,029	1.5	13.0
32 Precision instruments and machinery	1,007	942	6.5	1.9	3,721	3,801	2.2	1.0
34 Miscellaneous manufacturing products	954	928	2.7	1.9	4,318	4,219	2.3	1.1

Industry	Aggregate building area							Value of shipment of manufactured products per 1,000 m <sup>2</sup> aggregate building area		
	2000  (1,000 m <sup>2</sup> )	2001  (1,000 m <sup>2</sup> )	Y/Y (%)	Composition ratio (%)	2000  (m <sup>2</sup> )	2001  (m <sup>2</sup> )	Y/Y (%)	2000  (10 thousand yen)	2001  (10 thousand yen)	Y/Y (%)
Total	514,995	513,982	0.2	100.0	10,013	10,412	4.0	50,098	48,010	4.2
12 Food	38,689	39,087	1.0	7.6	5,237	5,304	1.3	49,222	48,472	1.5
13 Beverages, tobacco and feed	13,443	13,519	0.6	2.6	18,775	18,987	1.1	72,547	72,289	0.4
14 Textile mill products	14,833	14,262	3.8	2.8	12,732	13,120	3.1	13,499	12,808	5.1
15 Apparel and other finished products made from fabrics and similar materials	6,851	6,237	9.0	1.2	2,468	2,592	5.0	27,788	26,220	5.6
16 Lumber and wood products	6,799	6,742	0.8	1.3	8,899	9,262	4.1	22,431	21,146	5.7
17 Furniture and fixtures	7,503	7,217	3.8	1.4	9,184	9,585	4.4	20,970	20,426	2.6
18 Pulp, paper and paper products	23,073	23,041	0.1	4.5	13,291	13,585	2.2	28,810	27,689	3.9
19 Publishing, printing and related products	12,514	12,578	0.5	2.4	4,278	4,354	1.8	79,127	78,147	1.2
20 Chemical products	42,978	42,589	0.9	8.3	19,474	19,474	0.0	51,640	51,037	1.2
21 Petroleum and coal products	2,197	2,060	6.3	0.4	20,730	20,393	1.6	407,833	443,908	8.8
22 Plastic products	23,821	24,213	1.6	4.7	7,953	8,241	3.6	33,560	31,563	5.9
23 Rubber products	8,385	8,201	2.2	1.6	12,459	12,656	1.6	31,680	30,160	4.8
24 Leather tanning, leather products and fur skins	742	684	7.8	0.1	3,284	3,337	1.6	37,683	38,108	1.1
25 Ceramics, stone and clay products	25,874	26,094	0.8	5.1	11,703	12,636	8.0	20,681	19,455	5.9
26 Iron and steel	45,639	45,345	0.6	8.8	37,135	37,914	2.1	23,420	22,164	5.4
27 Non-ferrous metals and products	14,019	14,009	0.1	2.7	17,546	18,006	2.6	39,964	37,818	5.4
28 Fabricated metal products	35,115	34,751	1.0	6.8	8,278	8,435	1.9	28,267	27,486	2.8
29 General machinery (ordnance included)	54,693	54,053	1.2	10.5	9,634	9,909	2.9	46,513	43,823	5.8
30 Electrical machinery, equipment and supplies	65,094	65,562	0.7	12.8	8,519	9,409	10.4	87,298	76,299	12.6
31 Transportation equipment	60,962	61,841	1.4	12.0	19,170	19,374	1.1	70,315	70,635	0.5
32 Precision instruments and machinery	5,739	5,885	2.5	1.1	5,699	6,247	9.6	61,071	58,886	3.6
34 Miscellaneous manufacturing products	6,033	6,011	0.4	1.2	6,324	6,477	2.4	55,741	56,320	1.0

## 2. Situation by size of employees

When observing by size of employees in 2001, establishments with 199 employees or less accounted for nearly 90%. Those with 50 to 99 employees, those with 100 to 199 employees and those with 1,000 or more employees were close to 20% in both lot area and building area. And those with other scales amounted to approximately 10% (Table 4).

In addition, with respect to lot area, total building area per establishment, and shipment value per total building area of 1,000 m<sup>2</sup>, in either case, the value of shipment became larger as the number of employees became larger.

Compared with the previous year, the lot area per establishment increased in establishments with 300 to 499 employees and those with 1,000 or more employees, and the total building area per establishment increased in those establishments with 1,000 or more employees. The value of shipment per total building area of 1,000 m<sup>2</sup> decreased compared to the previous year in all classes.

**Table 4 Number of establishments, lot area, building and total building area  
by size of employees  
(Establishments with 30 or more employees)**

Size of employees	Number of establishments				Lot area				Lot area per establishment		
	2000	2001		Composition ratio (%)	2000 (1,000 m <sup>2</sup> )	2001		Composition ratio (%)	2000 (m <sup>2</sup> )	2001	
		Y/Y (%)	Y/Y (%)			Y/Y (%)	Y/Y (%)				
Total	51,434	49,364	? 4.0	100.0	1,453,612	1,442,586	? 0.8	100.0	28,262	29,223	3.4
30 ~ 49 persons	19,179	18,127	? 5.5	36.7	158,889	154,245	? 2.9	10.7	8,285	8,509	2.7
50 ~ 99	17,818	17,054	? 4.3	34.5	253,716	248,527	? 2.0	17.2	14,239	14,573	2.3
100 ~ 199	8,518	8,326	? 2.3	16.9	252,225	258,147	? 2.3	17.9	29,611	31,005	4.7
200 ~ 299	2,531	2,481	? 2.0	5.0	156,342	155,865	? 0.3	10.8	61,771	62,823	1.7
300 ~ 499	1,778	1,779	0.1	3.6	178,836	178,292	? 0.3	12.4	100,583	100,220	? 0.4
500 ~ 999	1,081	1,075	? 0.6	2.2	175,450	175,255	? 0.1	12.1	162,304	163,028	0.4
over 1000	529	522	? 1.3	1.1	278,154	272,256	? 2.1	18.9	525,811	521,563	? 0.8

Size of employees	Building area				Aggregate building area				Aggregate building area per establishment		
	2000 (1,000 m <sup>2</sup> )	2001		Composition ratio (%)	2000 (1,000 m <sup>2</sup> )	2001		Composition ratio (%)	2000 (m <sup>2</sup> )	2001	
		(1,000 m <sup>2</sup> )	Y/Y (%)			Y/Y (%)	Y/Y (%)				
Total	385,355	383,510	? 0.5	100.0	514,995	513,982	? 0.2	100.0	10,013	10,412	4.0
30 ~ 49 persons	45,679	44,246	? 3.1	11.5	57,466	55,751	? 3.0	10.8	2,996	3,076	2.6
50 ~ 99	72,719	72,221	? 0.7	18.8	92,460	92,061	? 0.4	17.9	5,189	5,398	4.0
100 ~ 199	69,273	70,624	1.9	18.4	90,924	92,917	2.2	18.1	10,674	11,160	4.5
200 ~ 299	39,094	39,244	0.4	10.2	52,621	52,788	0.3	10.3	20,791	21,277	2.3
300 ~ 499	40,486	39,977	? 1.3	10.4	55,734	55,811	0.1	10.9	31,347	31,372	0.1
500 ~ 999	44,616	44,936	0.7	11.7	62,909	63,608	1.1	12.4	58,195	59,171	1.7
over 1000	73,487	72,262	? 1.7	18.8	102,881	101,044	? 1.8	19.7	194,482	193,571	? 0.5

Size of employees	Value of shipment of manufactured products per 1,000 m <sup>2</sup> aggregate building area		
	2000	2001	
	(10 thousand yen)	(10 thousand yen)	Y/Y (%)
Total	50,098	48,010	? 4.2
30 ~ 49 persons	28,207	27,639	? 2.0
50 ~ 99	34,791	33,607	? 3.4
100 ~ 199	40,891	39,290	? 3.9
200 ~ 299	48,631	45,580	? 6.3
300 ~ 499	62,340	59,582	? 4.4
500 ~ 999	61,238	58,193	? 5.0
over 1000	71,524	68,861	? 3.7

## II. Industrial Water

The daily volume of industrial water (hereinafter referred to as the “volume of water”) in 2001 was 190.55 million m<sup>3</sup> (down 2.3% compared to the previous year), of which the volume of fresh water was 147.98 million m<sup>3</sup> (down 2.6% id., composition ratio 77.7%), and seawater was 42.57 million m<sup>3</sup> (down 1.0% id., composition ratio 22.3%) (Table 5).

The recycled rate of fresh water (percentage of recycling to total volume of fresh water) was 78.6% in the manufacturing industries in total, the same as that of 2000 (Table 5, Figure 7).

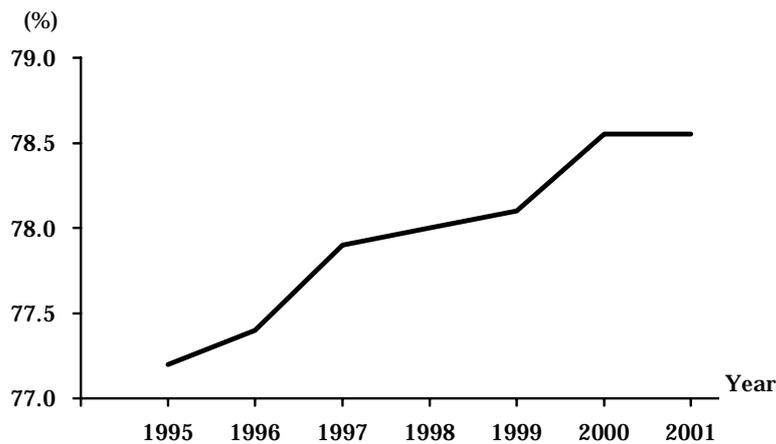
**Table 5 Transition in volume of industrial water and volume of fresh water,  
by water resource and usage  
(Establishments with 30 or more employees)**

Year	Number of establishments		Volume of water									
			Total		Total fresh water					Recycling of fresh water		Total seawater
	(1,000m <sup>3</sup> /day)	Y/Y (%)	(1,000m <sup>3</sup> /day)	Y/Y (%)	(1,000m <sup>3</sup> /day)	Y/Y (%)	Composition ratio (%)	(%)	Y/Y (points)	(1,000m <sup>3</sup> /day)	Y/Y (%)	Composition ratio (%)
1995	56,284	1.8	189,644	1.0	148,146	0.3	78.1	77.2	0.3	41,499	3.4	21.9
1996	55,533	1.3	190,369	0.4	148,943	0.5	78.2	77.4	0.2	41,426	0.2	21.8
1997	55,386	0.3	195,060	2.5	152,124	2.1	78.0	77.9	0.5	42,936	3.6	22.0
1998	54,518	4.1	193,803	0.7	151,166	0.7	78.0	78.0	0.1	42,636	0.7	22.0
1999	52,469	3.8	192,244	0.8	150,277	0.6	78.2	78.1	0.1	41,967	1.6	21.8
2000	51,434	2.0	194,952	1.4	151,965	1.1	77.9	78.6	0.5	42,988	9.6	22.1
2001	49,364	4.0	190,547	2.3	147,978	2.6	77.7	78.6	0.0	42,569	1.0	22.3

Year	Volume of fresh water by resource									
	Public waterworks				Well water		Other fresh water		Recycled water	
	Industrial waterworks		Waterworks		(1,000m <sup>3</sup> /day)	Y/Y (%)	(1,000m <sup>3</sup> /day)	Y/Y (%)	(1,000m <sup>3</sup> /day)	Y/Y (%)
	(1,000m <sup>3</sup> /day)	Y/Y (%)	(1,000m <sup>3</sup> /day)	Y/Y (%)						
1995	12,414	1.4	2,450	1.4	9,654	2.9	9,324	2.7	114,304	0.7
1996	12,647	1.9	2,459	0.4	9,416	2.5	9,174	1.6	115,247	0.8
1997	12,981	2.6	2,412	1.9	9,253	1.7	9,031	1.6	118,447	2.8
1998	12,953	0.3	2,315	5.8	8,967	3.8	9,090	0.7	117,842	0.5
1999	12,751	1.6	2,371	2.4	8,677	3.2	9,057	0.4	117,421	0.4
2000	12,833	0.6	2,234	5.7	8,537	1.6	8,987	0.8	119,373	1.7
2001	12,652	1.4	2,105	5.8	8,252	3.3	8,732	2.8	116,238	2.6

Year	Volume of water by usage									
	Boiler feed water		Raw material water		Product processing and washing water		Cooling and temperature-cooling water		Other fresh water	
	(1,000m <sup>3</sup> /day)	Y/Y (%)	(1,000m <sup>3</sup> /day)	Y/Y (%)	(1,000m <sup>3</sup> /day)	Y/Y (%)	(1,000m <sup>3</sup> /day)	Y/Y (%)	(1,000m <sup>3</sup> /day)	Y/Y (%)
1995	1,868	0.8	587	8.1	25,501	1.1	113,073	0.7	7,117	0.0
1996	1,881	0.7	579	1.4	25,387	0.4	115,969	2.6	5,127	28.0
1997	1,902	1.1	588	1.5	25,633	1.0	118,813	2.5	5,188	1.2
1998	1,869	2.1	526	12.1	25,580	0.5	118,002	0.7	5,190	0.4
1999	1,860	0.5	542	3.1	25,315	1.0	117,618	0.3	4,941	4.8
2000	1,857	0.2	544	0.4	25,409	0.4	119,239	1.4	4,915	0.5
2001	1,791	3.6	547	0.5	24,836	2.3	115,961	2.7	4,843	1.5

**Figure 7 Transition in recycled rate of fresh water  
(Establishments with 30 or more employees)**



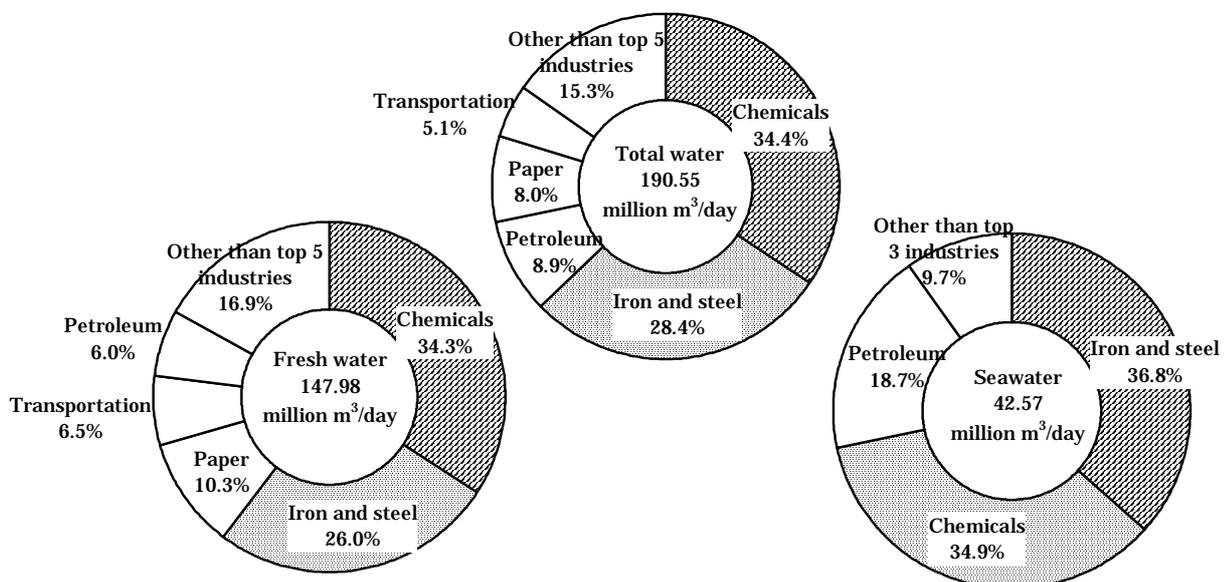
## 1. Situation by industry

### (1) Total volume of water

(i) The water volume of the top industries, i.e. chemicals (65.53 million m<sup>3</sup>, composition ratio 34.4%) and iron and steel (54.12 million m<sup>3</sup>, 28.4% id.), accounted for more than 60% of the total for all industries. This was followed by petroleum and coal products (16.89 million m<sup>3</sup>, 8.9% id.), pulp, paper and paper products (15.30 million m<sup>3</sup>, 8.0% id.), and transportation equipment (9.65 million m<sup>3</sup>, 5.1% id.). These five industries accounted for 85% of the total volume of water (Table 6, Figure 8).

The largest volume of fresh water was in the chemical industry (50.70 million m<sup>3</sup>, composition ratio within fresh water of 34.3%), followed by iron and steel (38.48 million m<sup>3</sup>, 26.0% id.), pulp, paper and paper products (15.26 million m<sup>3</sup>, 10.3% id.), transportation equipment (9.59 million m<sup>3</sup>, 6.5% id.), and petroleum and coal products (8.93 million m<sup>3</sup>, 6.0% id.). The volume of industrial seawater used by the top three industries, was iron and steel (15.65 million m<sup>3</sup>, composition ratio within seawater 36.8%), chemicals (14.84 million m<sup>3</sup>, 34.9% id.), and petroleum and coal products (7.96 million m<sup>3</sup>, 18.7% id.), accounting for approximately 90% of the total.

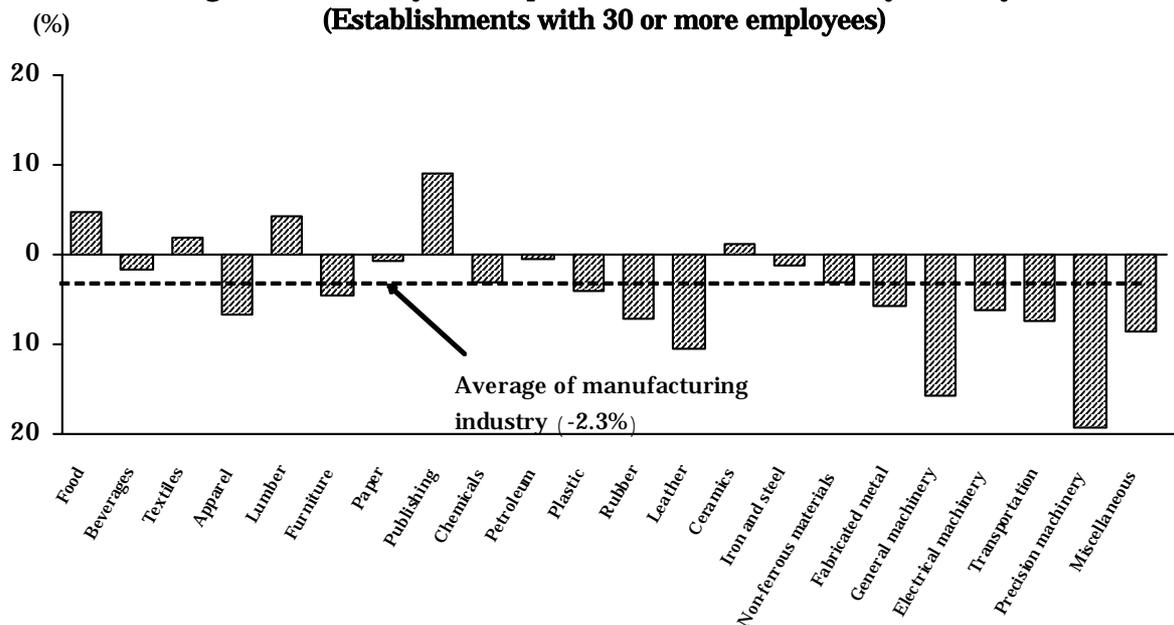
**Figure 8 Composition ratio of volume of industrial water by industry  
(Establishments with 30 or more employees)**



In the year-to-year comparison, the volume decreased in 17 industries, including precision instruments and machinery (down 19.3% compared to the previous year), general machinery (down 15.8% id.), leather tanning, leather products and fur skins (down 10.4% id.), miscellaneous manufacturing products (down 8.7% id.), transportation equipment (down 7.3% id.), rubber products (down 7.2% id.), and apparel and other finished products (down 6.7% id.). Conversely, the volume increased in 5 industries, including publishing, printing and related products (up 9.0% id.), food (up 4.8% id.), and lumber and wood products (up 4.4% id.) (Table 6, Figure 9).

In addition, there was a decreased in the year-to-year comparison of water volume of the top five industries as follows: chemicals, down 3.1% id.; iron and steel, down 1.2% id.; petroleum and coal products, down 0.4% id.; pulp, paper and paper products, down 0.8% id.; transportation equipment, down 7.3% id.

**Figure 9 Year-to-year comparison of volume of water by industry (Establishments with 30 or more employees)**



Note: The general machinery industry includes the ordance and accessories industry.

(ii) The volume of fresh water, which accounts for almost 80% of industrial water was 147.98 million m<sup>3</sup>, down 2.6% compared to the previous year (Table 6).

The volume of water with regard to the top five ranking industries has decreased as follows: chemicals, down 2.9% id.; iron and steel, down 1.3% id.; pulp, paper and paper products, down 0.8% id.; transportation equipment, down 7.4% id.; petroleum and coal products, down 2.9% id.

In addition, when observing the volume of fresh water per establishment by industry, petroleum and coal products scored remarkably high at 88,383 m<sup>3</sup> followed by iron and steel (32,170 m<sup>3</sup>) and chemicals (23,181 m<sup>3</sup>).

**Table 6 Volume of industrial water by industry  
(Establishments with 30 or more employees)**

Industry	Number of establishments				Total volume of water				Volume of water per establishment		
	2000	2001		2000	2001		2000	2001			
		Y/Y (%)	Composition ratio (%)		Y/Y (%)	Composition ratio (%)		(m <sup>3</sup> /day)	(m <sup>3</sup> /day)	Y/Y (%)	
Total	51,434	49,364	4.0	100.0	194,952	190,547	2.3	100.0	3,790	3,860	1.8
12 Food	7,388	7,370	0.2	14.9	5,059	5,301	4.8	2.8	685	719	5.0
13 Beverages, tobacco and feed	716	712	0.6	1.4	1,111	1,093	1.6	0.6	1,552	1,535	1.1
14 Textile mill products	1,165	1,087	6.7	2.2	1,642	1,675	2.0	0.9	1,410	1,541	9.3
15 Apparel and other finished products made from fabrics and similar materials	2,776	2,406	13.3	4.9	92	86	6.7	0.0	33	36	7.6
16 Lumber and wood products	764	728	4.7	1.5	52	54	4.4	0.0	68	74	9.5
17 Furniture and fixtures	817	753	7.8	1.5	144	138	4.5	0.1	177	183	3.6
18 Pulp, paper and paper products	1,736	1,696	2.3	3.4	15,415	15,295	0.8	8.0	8,879	9,018	1.6
19 Publishing, printing and related products	2,925	2,889	1.2	5.9	233	254	9.0	0.1	80	88	10.4
20 Chemical products	2,207	2,187	0.9	4.4	67,617	65,532	3.1	34.4	30,637	29,964	2.2
21 Petroleum and coal products	106	101	4.7	0.2	16,953	16,888	0.4	8.9	159,936	167,212	4.5
22 Plastic products	2,995	2,938	1.9	6.0	2,636	2,530	4.0	1.3	880	861	2.1
23 Rubber products	673	648	3.7	1.3	1,023	949	7.2	0.5	1,520	1,465	3.6
24 Leather tanning, leather products and fur skins	226	205	9.3	0.4	14	12	10.4	0.0	62	61	1.3
25 Ceramics, stone and clay products	2,211	2,065	6.6	4.2	4,791	4,843	1.1	2.5	2,167	2,345	8.2
26 Iron and steel	1,229	1,196	2.7	2.4	54,770	54,121	1.2	28.4	44,565	45,252	1.5
27 Non-ferrous metals and products	799	778	2.6	1.6	4,063	3,935	3.2	2.1	5,085	5,057	0.5
28 Fabricated metal products	4,242	4,120	2.9	8.3	1,014	957	5.6	0.5	239	232	2.8
29 General machinery (ordnance included)	5,677	5,455	3.9	11.1	1,739	1,464	15.8	0.8	306	268	12.3
30 Electrical machinery, equipment and supplies	7,641	6,968	8.8	14.1	5,735	5,386	6.1	2.8	751	773	3.0
31 Transportation equipment	3,180	3,192	0.4	6.5	10,407	9,648	7.3	5.1	3,273	3,022	7.6
32 Precision instruments and machinery	1,007	942	6.5	1.9	172	139	19.3	0.1	171	148	13.7
34 Miscellaneous manufacturing products	954	928	2.7	1.9	270	247	8.7	0.1	283	266	6.1

Industry	Fresh water				Volume of fresh water per establishment			Seawater			
	2000	2001		2000	2001		2000	2001			
		(1,000m <sup>3</sup> /day)	(1,000m <sup>3</sup> /day)		Y/Y (%)	Composition ratio (%)		(m <sup>3</sup> /day)	(m <sup>3</sup> /day)	Composition ratio (%)	Y/Y (%)
Total	151,965	147,978	2.6	100.0	2,955	2,998	1.5	42,988	42,569	1.0	100.0
12 Food	3,929	4,224	7.5	2.9	532	573	7.8	1,131	1,077	4.8	2.5
13 Beverages, tobacco and feed	1,093	1,082	0.9	0.7	1,526	1,520	0.4	18	11	42.0	0.0
14 Textile mill products	1,641	1,672	1.9	1.1	1,409	1,538	9.2	1	3	173.4	0.0
15 Apparel and other finished products made from fabrics and similar materials	92	86	6.7	0.1	33	36	7.6	-	-	-	-
16 Lumber and wood products	52	54	4.4	0.0	68	74	9.5	-	-	-	-
17 Furniture and fixtures	144	138	4.5	0.1	177	183	3.6	-	-	-	-
18 Pulp, paper and paper products	15,386	15,261	0.8	10.3	8,863	8,998	1.5	29	34	18.0	0.1
19 Publishing, printing and related products	233	254	9.0	0.2	80	88	10.4	-	-	-	-
20 Chemical products	52,186	50,696	2.9	34.3	23,646	23,181	2.0	15,430	14,836	3.9	34.9
21 Petroleum and coal products	9,194	8,927	2.9	6.0	86,737	88,383	1.9	7,759	7,962	2.6	18.7
22 Plastic products	2,635	2,530	4.0	1.7	880	861	2.1	0	0	0.0	0.0
23 Rubber products	1,023	949	7.2	0.6	1,520	1,465	3.6	-	-	-	-
24 Leather tanning, leather products and fur skins	14	12	10.4	0.0	62	61	1.3	-	-	-	-
25 Ceramics, stone and clay products	3,511	3,458	1.5	2.3	1,588	1,675	5.5	1,280	1,384	8.2	3.3
26 Iron and steel	38,971	38,475	1.3	26.0	31,710	32,170	1.5	15,799	15,646	1.0	36.8
27 Non-ferrous metals and products	2,760	2,563	7.2	1.7	3,454	3,294	4.6	1,303	1,372	5.3	3.2
28 Fabricated metal products	1,014	957	5.6	0.6	239	232	2.8	-	-	-	-
29 General machinery (ordnance included)	1,643	1,366	16.9	0.9	289	250	13.5	95	99	3.4	0.2
30 Electrical machinery, equipment and supplies	5,647	5,298	6.2	3.6	739	760	2.9	88	88	0.0	0.2
31 Transportation equipment	10,353	9,590	7.4	6.5	3,256	3,004	7.7	54	58	5.8	0.1
32 Precision instruments and machinery	172	139	19.3	0.1	171	148	13.7	-	-	-	-
34 Miscellaneous manufacturing products	270	247	8.7	0.2	283	266	6.1	-	-	-	-

**(2) Volume of fresh water by water resource**

With regard to the volume of fresh water by water resource, recycled water (116.24 million m<sup>3</sup>, composition ratio 78.6%) accounted for almost 80%, followed by industrial water (12.65 million m<sup>3</sup>, 8.5% id.), other fresh water (8.73 million m<sup>3</sup>, 5.9% id.), well water (8.25 million m<sup>3</sup>, 5.6%), and waterworks (2.11 million m<sup>3</sup>, 1.4% id.) (Table 5, Figure 10).

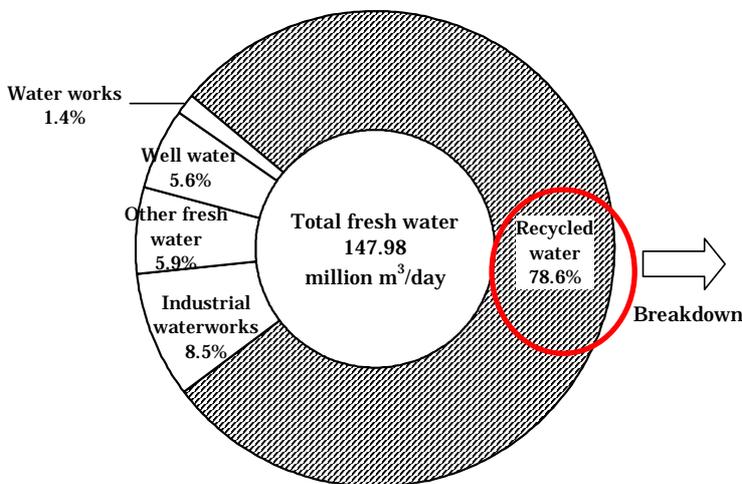
In the year-to-year comparison, the water volume for waterworks (down 5.8% compared to the previous year), well water (down 3.3% id.), other fresh water (down 2.8% id.), recycled water (down 2.6% id.), and industrial water (down 1.4% id.) have decreased.

By industry:

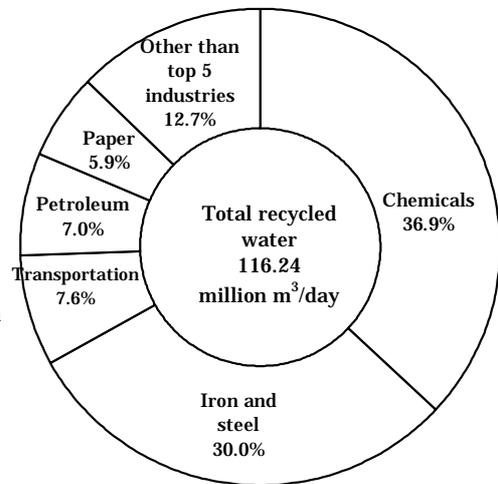
- (i) The largest volume of recycled water was seen in chemicals (42.85 million m<sup>3</sup>, composition ratio 36.9%), and iron and steel (34.86 million m<sup>3</sup>, 30.0% id.), followed by transportation (8.84 million m<sup>3</sup>, 7.6% id.), petroleum and coal products (8.09 million m<sup>3</sup>, 7.0% id.), and pulp, paper and paper products (6.89 million m<sup>3</sup>, 5.9% id.). Altogether, the volume of the top five industries mentioned above accounted for nearly 90% of the total.
- (ii) Water from industrial waterworks recorded the largest volume in chemicals (4.32 million m<sup>3</sup>, composition ratio 34.1%), iron and steel (2.83 million m<sup>3</sup>, 22.4% id.), and pulp, paper and paper products (2.32 million m<sup>3</sup>, 18.3% id.). Altogether, the top three industries mentioned above accounted for more than 70% of the total.
- (iii) The largest volume of other fresh water was observed in pulp, paper and paper products (4.84 million m<sup>3</sup>, composition ratio 55.4%), and chemicals (1.93 million m<sup>3</sup>, 22.1% id.). Altogether, the volume of the two industries mentioned above accounted for nearly 80% of the total.
- (iv) The largest volume of well water was observed in chemicals (1.41 million m<sup>3</sup>, composition ratio 17.1%), food (1.27 million m<sup>3</sup>, 15.4% id.), pulp, paper and paper products (1.18 million m<sup>3</sup>, 14.2% id.), and textile mill products (940 thousand m<sup>3</sup>, 11.4% id.). Altogether, the top 4 industries mentioned above accounted for nearly 60% of the total.
- (v) The largest volume of water from waterworks was observed in food (450 thousand m<sup>3</sup>, composition ratio 21.2%), electrical machinery (340 thousand m<sup>3</sup>, 16.2% id.), chemicals (190 thousand m<sup>3</sup>, 9.0% id.), transportation equipment (150 thousand m<sup>3</sup>, 7.3% id.), and general machinery (140 thousand m<sup>3</sup>, 6.8% id.). Altogether, the top 5 industries mentioned above accounted for nearly 60% of the total.

**Figure 10 Composition ratio of fresh water volume by water resource and recycled water by industry (Establishments with 30 or more employees)**

**(a) Composition ratio of fresh water volume by water resource**



**(b) Composition ratio of recycled water by industry**



**Table 7 Volume of fresh water by industry and by water source  
(Establishments with 30 or more employees)**

(Unit: 1,000 m<sup>3</sup>/day)

Industry	Public waterworks								Well water			
	Industrial waterworks				Waterworks							
	2000	2001			2000	2001			2000	2001		
		Y/Y (%)	Composition ratio (%)			Y/Y (%)	Composition ratio (%)			Y/Y (%)	Composition ratio (%)	
<b>Total</b>	<b>12,833</b>	<b>12,652</b>	<b>1.4</b>	<b>100.0</b>	<b>2,234</b>	<b>2,105</b>	<b>5.8</b>	<b>100.0</b>	<b>8,537</b>	<b>8,252</b>	<b>3.3</b>	<b>100.0</b>
12 Food	359	368	2.4	2.9	439	446	1.5	21.2	1,224	1,274	4.0	15.4
13 Beverages, tobacco and feed	203	220	8.4	1.7	147	125	15.2	5.9	424	436	2.9	5.3
14 Textile mill products	245	228	7.1	1.8	40	38	3.2	1.8	956	937	2.0	11.4
15 Apparel and other finished products made from fabrics and similar materials	5	7	28.2	0.1	26	23	10.7	1.1	49	44	9.2	0.5
16 Lumber and wood products	9	9	4.1	0.1	18	19	6.8	0.9	12	12	2.2	0.1
17 Furniture and fixtures	5	5	6.4	0.0	12	10	16.1	0.5	20	18	8.8	0.2
18 Pulp, paper and paper products	2,249	2,317	3.1	18.3	48	40	17.1	1.9	1,266	1,175	7.2	14.2
19 Publishing, printing and related products	7	7	2.8	0.1	64	55	14.0	2.6	37	37	1.6	0.4
20 Chemical products	4,413	4,315	2.2	34.1	194	190	2.1	9.0	1,522	1,411	7.3	17.1
21 Petroleum and coal products	831	794	4.4	6.3	12	11	7.5	0.5	14	14	1.7	0.2
22 Plastic products	141	119	15.5	0.9	83	74	11.0	3.5	533	520	2.6	6.3
23 Rubber products	37	35	6.7	0.3	25	22	10.5	1.1	134	133	0.8	1.6
24 Leather tanning, leather products and fur skins	1	1	26.1	0.0	3	2	5.4	0.1	8	7	15.7	0.1
25 Ceramics, stone and clay products	194	196	0.9	1.6	88	76	14.3	3.6	421	414	1.8	5.0
26 Iron and steel	2,880	2,832	1.7	22.4	107	107	0.5	5.1	180	179	0.5	2.2
27 Non-ferrous metals and products	253	256	1.4	2.0	50	47	6.7	2.2	206	195	5.2	2.4
28 Fabricated metal products	115	108	6.3	0.9	140	130	6.8	6.2	223	209	6.3	2.5
29 General machinery (ordnance included)	86	75	13.6	0.6	151	143	5.8	6.8	202	206	2.4	2.5
30 Electrical machinery, equipment and supplies	494	474	4.1	3.7	366	341	6.7	16.2	705	654	7.2	7.9
31 Transportation equipment	294	278	5.5	2.2	164	153	6.8	7.3	313	289	7.7	3.5
32 Precision instruments and machinery	5	5	3.8	0.0	38	34	9.9	1.6	62	59	3.5	0.7
34 Miscellaneous manufacturing products	6	5	14.8	0.0	19	19	4.5	0.9	27	29	6.9	0.4

Industry	Other fresh water				Recycled water			
	2000	2001			2000	2001		
		Y/Y (%)	Composition ratio (%)			Y/Y (%)	Composition ratio (%)	
<b>Total</b>	<b>8,987</b>	<b>8,732</b>	<b>2.8</b>	<b>100.0</b>	<b>119,373</b>	<b>116,238</b>	<b>2.6</b>	<b>100.0</b>
12 Food	507	498	1.8	5.7	1,399	1,639	17.2	1.4
13 Beverages, tobacco and feed	47	42	10.7	0.5	271	259	4.5	0.2
14 Textile mill products	123	174	41.8	2.0	278	295	6.0	0.3
15 Apparel and other finished products made from fabrics and similar materials	5	5	3.8	0.1	7	7	3.1	0.0
16 Lumber and wood products	6	6	3.2	0.1	6	8	21.9	0.0
17 Furniture and fixtures	0	0	34.9	0.0	106	104	2.2	0.1
18 Pulp, paper and paper products	4,812	4,840	0.6	55.4	7,012	6,890	1.7	5.9
19 Publishing, printing and related products	4	4	15.8	0.0	120	151	26.1	0.1
20 Chemical products	2,208	1,929	12.6	22.1	43,850	42,852	2.3	36.9
21 Petroleum and coal products	17	16	9.1	0.2	8,320	8,092	2.7	7.0
22 Plastic products	184	185	0.6	2.1	1,694	1,633	3.6	1.4
23 Rubber products	25	24	3.1	0.3	803	736	8.3	0.6
24 Leather tanning, leather products and fur skins	2	2	1.5	0.0	1	1	27.6	0.0
25 Ceramics, stone and clay products	202	200	1.2	2.3	2,605	2,573	1.2	2.2
26 Iron and steel	509	496	2.4	5.7	35,296	34,862	1.2	30.0
27 Non-ferrous metals and products	179	165	7.6	1.9	2,072	1,899	8.4	1.6
28 Fabricated metal products	32	26	18.5	0.3	505	484	4.0	0.4
29 General machinery (ordnance included)	33	28	14.9	0.3	1,171	914	21.9	0.8
30 Electrical machinery, equipment and supplies	56	53	5.7	0.6	4,027	3,776	6.2	3.2
31 Transportation equipment	24	32	35.7	0.4	9,558	8,838	7.5	7.6
32 Precision instruments and machinery	5	7	30.0	0.1	62	34	46.0	0.0
34 Miscellaneous manufacturing products	7	1	84.6	0.0	211	193	8.5	0.2

### (3) Volume of fresh water by usage

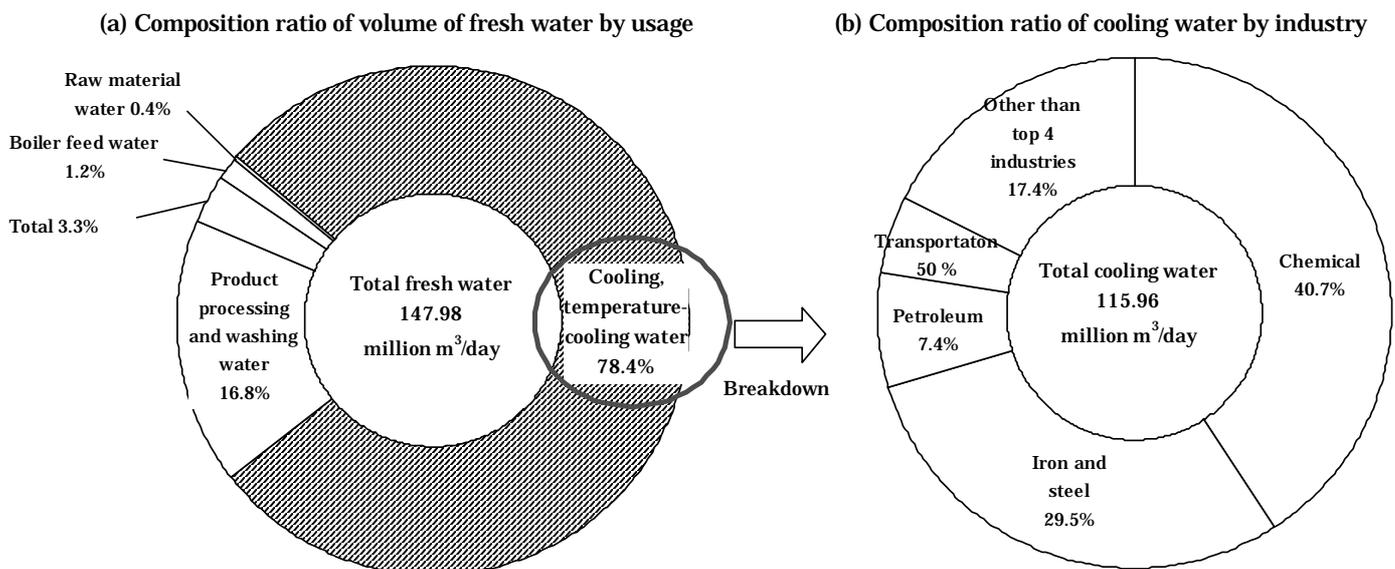
Looking at the volume of fresh water in terms of usage, the volume of cooling and temperature-cooling water (115.96 million m<sup>3</sup>, composition ratio 78.4%) accounted for nearly 80%. This was followed by products processing and washing water (24.84 million m<sup>3</sup>, 16.8% id.), and other fresh water (4.84 million m<sup>3</sup>, 3.3% id.). Boiler feed water (1.79 million m<sup>3</sup>, 1.2% id.) and raw material water (550 thousand m<sup>3</sup>, 1.4% id.) registered low scores in terms of volume of fresh water (Table 8, Figure 11).

In the year-to-year comparison, aside from raw material water (up 0.5% compared to the previous year), there was a decrease in boiler water (down 3.6% id.), cooling and temperature-cooling water (down 2.7% id.), products processing and washing water (down 2.3% id.), and other fresh water (down 1.5% id.).

Breakdown of fresh water in terms of usage:

- (i) The most significant volume of cooling and temperature-cooling water was observed in two industries, the chemical industry (47.24 million m<sup>3</sup>, composition ratio within cooling water 40.7%) and the iron and steel industry (34.17 million m<sup>3</sup>, 29.5% id.), together accounting for more than 70% of the total cooling water volume, followed by petroleum and coal products (8.56 million m<sup>3</sup>, 7.4% id.), and transportation equipment (5.85 million m<sup>3</sup>, 5.0% id.).
- (ii) Pulp, paper and paper products (12.02 million m<sup>3</sup>, composition ratio within product processing and washing water 48.4%) marked the largest volume of products processing and washing water, accounting for nearly half the total. This was followed by transportation equipment (3.21 million m<sup>3</sup>, 12.9% id.), iron and steel (2.95 million m<sup>3</sup>, 11.9% id.), chemicals (1.94 million m<sup>3</sup>, 7.8% id.), and food (1.28 million m<sup>3</sup>, 5.2% id.).
- (iii) The largest volume of boiler feed water was viewed in chemicals (580 thousand m<sup>3</sup>, composition ratio within boiler feed water 32.1%), followed by pulp, paper and paper products (300 thousand m<sup>3</sup>, 16.8% id.), petroleum and coal products (220 thousand m<sup>3</sup>, 12.2% id.), and food (180 thousand m<sup>3</sup>, 10.0% id.).
- (iv) The largest volume of raw material water was viewed in food (210 thousand m<sup>3</sup>, composition ratio within raw material water 37.5% id.), followed by beverages, tobacco and feed (130 thousand m<sup>3</sup>, 24.3% id.), chemicals (120 thousand m<sup>3</sup>, 22.1% id.), and ceramics, stone and clay products (90 thousand m<sup>3</sup>, 15.6% id.). The above-mentioned top four industries accounted for most of the total volume of raw material water.

**Figure 11 Composition ratio of volume of fresh water by usage and composition ratio of cooling water by industry  
(Establishments with 30 or more employees)**



**Table 8 Volume of fresh water by industry and usage  
(Establishments with 30 or more employees)**

(Unit: 1,000 m<sup>3</sup>/day)

Industry	Boiler feed water				Raw material water				Product processing and washing water			
	2000	2001			2000	2001			2000	2001		
		Y/Y (%)	Composition ratio (%)			Y/Y (%)	Composition ratio (%)			Y/Y (%)	Composition ratio (%)	
<b>Total</b>	1,857	1,791	3.6	100.0	544	547	0.5	100.0	25,409	24,836	2.3	100.0
12 Food	172	178	3.7	10.0	190	205	8.0	37.5	1,271	1,283	1.0	5.2
13 Beverages, tobacco and feed	54	52	2.3	2.9	137	133	3.4	24.3	359	360	0.2	1.4
14 Textile mill products	65	64	1.5	3.6	0	0	696.3	0.1	710	741	4.4	3.0
15 Apparel and other finished products made from fabrics and similar materials	10	9	5.7	0.5	-	-	-	0.0	24	23	5.7	0.1
16 Lumber and wood products	16	16	1.3	0.9	0	0	93.3	0.0	9	12	32.2	0.0
17 Furniture and fixtures	7	5	27.7	0.3	-	-	-	0.0	12	11	8.6	0.0
18 Pulp, paper and paper products	305	300	1.5	16.8	1	1	2.7	0.1	12,163	12,016	1.2	48.4
19 Publishing, printing and related products	6	7	3.4	0.4	0	0	-	0.0	27	28	4.3	0.1
20 Chemical products	615	575	6.5	32.1	133	121	8.8	22.1	1,861	1,936	4.0	7.8
21 Petroleum and coal products	222	218	2.0	12.2	1	0	71.5	0.1	52	43	17.6	0.2
22 Plastic products	46	36	22.1	2.0	0	0	25.5	0.1	102	104	1.8	0.4
23 Rubber products	23	22	6.2	1.2	0	0	4.9	0.0	16	20	24.2	0.1
24 Leather tanning, leather products and fur skins	1	1	11.4	0.0	-	-	-	0.0	10	9	11.6	0.0
25 Ceramics, stone and clay products	53	56	4.8	3.1	81	85	5.4	15.6	488	482	1.2	1.9
26 Iron and steel	104	102	1.7	5.7	0	0	-	0.0	3,006	2,951	1.8	11.9
27 Non-ferrous metals and products	23	22	4.2	1.2	0	0	-	0.0	193	188	2.6	0.8
28 Fabricated metal products	17	15	8.4	0.8	0	0	-	0.0	282	270	4.4	1.1
29 General machinery (ordnance included)	18	16	12.9	0.9	0	0	-	0.0	175	163	6.4	0.7
30 Electrical machinery, equipment and supplies	50	47	6.0	2.6	0	0	-	0.0	939	890	5.2	3.6
31 Transportation equipment	43	42	0.3	2.4	0	0	-	0.0	3,607	3,212	11.0	12.9
32 Precision instruments and machinery	3	3	13.8	0.2	1	1	18.7	0.1	39	40	2.3	0.2
34 Miscellaneous manufacturing products	3	3	2.2	0.2	0	0	-	0.0	63	53	15.9	0.2

Industry	Cooling and temperature-cooling water				Other fresh water			
	2000	2001			2000	2001		
		Y/Y (%)	Composition ratio (%)			Y/Y (%)	Composition ratio (%)	
<b>Total</b>	119,239	115,961	2.7	100.0	4,915	4,843	1.5	100.0
12 Food	1,984	2,219	11.8	1.9	312	339	8.7	7.0
13 Beverages, tobacco and feed	488	487	0.3	0.4	54	50	7.5	1.0
14 Textile mill products	789	789	0.1	0.7	76	76	0.7	1.6
15 Apparel and other finished products made from fabrics and similar materials	34	32	7.0	0.0	24	22	7.9	0.5
16 Lumber and wood products	15	15	0.3	0.0	11	11	3.4	0.2
17 Furniture and fixtures	113	111	2.4	0.1	12	11	5.9	0.2
18 Pulp, paper and paper products	2,456	2,464	0.3	2.1	462	480	4.0	9.9
19 Publishing, printing and related products	156	182	17.2	0.2	44	37	16.1	0.8
20 Chemical products	48,745	47,236	3.1	40.7	832	828	0.6	17.1
21 Petroleum and coal products	8,803	8,558	2.8	7.4	115	108	6.5	2.2
22 Plastic products	2,392	2,299	3.9	2.0	96	92	3.6	1.9
23 Rubber products	944	871	7.7	0.8	39	36	9.1	0.7
24 Leather tanning, leather products and fur skins	1	1	2.7	0.0	2	2	12.9	0.0
25 Ceramics, stone and clay products	2,720	2,667	1.9	2.3	169	168	0.4	3.5
26 Iron and steel	34,566	34,165	1.2	29.5	1,296	1,256	3.1	25.9
27 Non-ferrous metals and products	2,443	2,239	8.4	1.9	100	113	13.0	2.3
28 Fabricated metal products	619	582	6.0	0.5	96	90	6.3	1.9
29 General machinery (ordnance included)	1,246	962	22.8	0.8	205	224	9.4	4.6
30 Electrical machinery, equipment and supplies	4,291	3,990	7.0	3.4	366	371	1.2	7.7
31 Transportation equipment	6,145	5,847	4.8	5.0	558	488	12.5	10.1
32 Precision instruments and machinery	101	71	30.1	0.1	28	24	14.0	0.5
34 Miscellaneous manufacturing products	186	174	6.5	0.2	18	16	7.1	0.3

## 2. Situation by size of employees

When observing the situation by size of employees, the water volume 1,000 or more employees (77.66 million m<sup>3</sup>, composition ratio 40.8%) accounted for approximately 40% of the total. This was followed by water volume with 500 to 999 employees (37.12 million m<sup>3</sup>, 19.5% id.), and 300 to 499 employees (31.67 thousand m<sup>3</sup>, 16.6% id.), meaning that the water volume of establishments with 300 or more employees accounted for approximately 80% of the total (Table 9).

In the year-to-year comparison, a decrease was observed in establishments with 1,000 or more employees (down 4.5% compared to the previous year), and with 500 to 999 employees (down 1.2% id.), and an increase was observed 100 to 199 employees (up 14.3% id.), and 300 to 499 employees (up 2.2% id.)

In addition, the volume of water per establishment was observed to increase in proportion to the size of employees. In the year-to-year comparison, the volume of water per establishment decreased with 1,000 or more employees (down 3.2% compared to the previous year), and 500 to 999 employees (down 0.6% id.), and increased 300 to 499 employees (up 2.2% id.), and 100 to 199 employees (up 16.9% id.).

**Table 9 Volume of water by size of employees  
(Establishments with 30 or more employees)**

Size of employees	Number of establishments				Total volume of water				Volume of water per establishment		
	2000	2001		2000	2001		2000	2001		Y/Y (%)	
		Y/Y (%)	Composition ratio (%)		Y/Y (%)	Composition ratio (%)		(1,000m <sup>3</sup> /day)	(1,000m <sup>3</sup> /day)		(1,000m <sup>3</sup> /day)
Total	51,434	49,364	-4.0	100.0	194,952	190,547	-2.3	100.0	3,790	3,860	1.8
30 ~ 49 persons	19,179	18,127	-5.5	36.7	3,752	2,835	-24.5	1.5	196	156	-20.1
50 ~ 99	17,818	17,054	-4.3	34.5	8,499	8,337	-1.9	4.4	477	489	2.5
100 ~ 199	8,518	8,326	-2.3	16.9	15,536	17,755	14.3	9.3	1,824	2,133	16.9
200 ~ 299	2,531	2,481	-2.0	5.0	17,305	15,175	-12.3	8.0	6,837	6,116	-10.5
300 ~ 499	1,778	1,779	0.1	3.6	30,978	31,667	2.2	16.6	17,423	17,800	2.2
500 ~ 999	1,081	1,075	-0.6	2.2	37,562	37,121	-1.2	19.5	34,747	34,531	-0.6
over 1000	529	522	-1.3	1.1	81,321	77,658	-4.5	40.8	153,727	148,770	-3.2

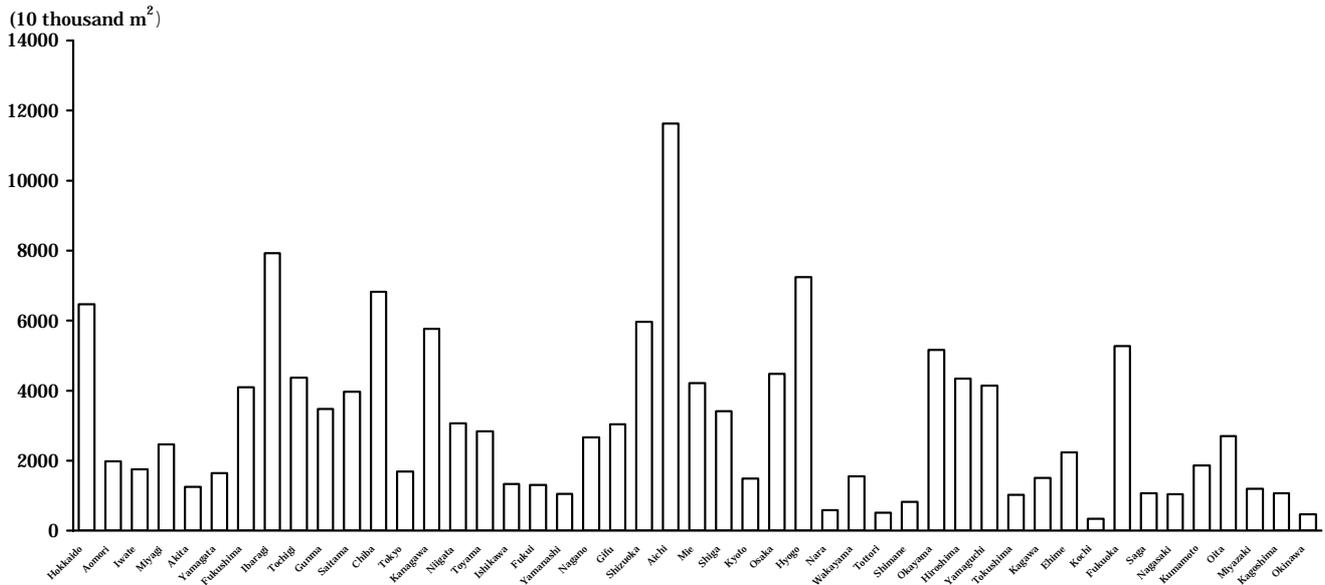
Size of employees	Fresh water				Volume of fresh water per establishment			Seawater				
	2000	2001		2000	2001		2000	2001		2000	2001	
		Y/Y (%)	Composition ratio (%)		Y/Y (%)	Composition ratio (%)		Y/Y (%)	Composition ratio (%)			
Total	151,965	147,978	-2.6	100.0	2,955	2,998	1.5	42,988	42,569	-1.0	100.0	
30 ~ 49 persons	3,026	2,704	-10.7	1.8	158	149	-5.5	726	131	-81.9	0.3	
50 ~ 99	6,464	6,630	2.6	4.5	363	389	7.2	2,035	1,707	-16.1	4.0	
100 ~ 199	12,670	14,446	14.0	9.8	1,487	1,735	16.6	2,865	3,309	15.5	7.8	
200 ~ 299	14,639	11,874	-18.9	8.0	5,784	4,786	-17.3	2,666	3,301	23.8	7.8	
300 ~ 499	22,178	23,837	7.5	16.1	12,473	13,399	7.4	8,801	7,830	-11.0	18.4	
500 ~ 999	32,096	30,586	-4.7	20.7	29,691	28,452	-4.2	5,466	6,535	19.6	15.4	
over 1000	60,892	57,901	-4.9	39.1	115,108	110,922	-3.6	20,429	19,757	-3.3	46.4	

### III. Situation by Prefecture

#### 1. Lot area

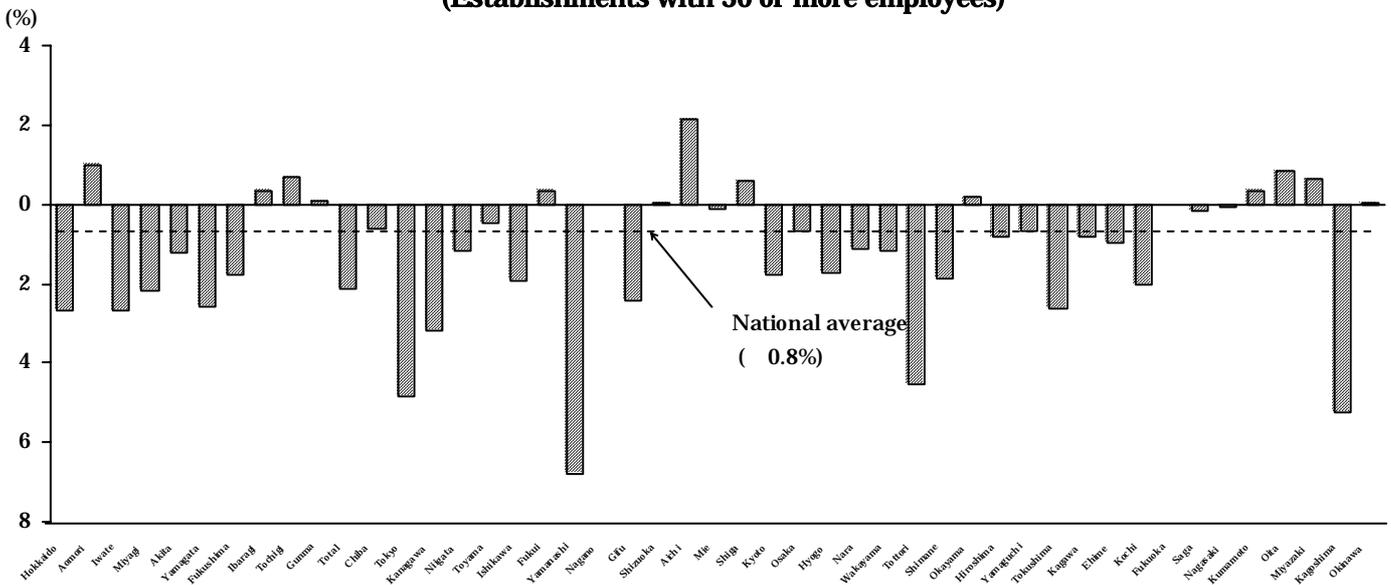
When viewing lot area by prefecture, it was largest in the following prefectures: “Aichi” (116.33 million m<sup>2</sup> , composition ratio 8.1%), “Ibaragi” (79.15 million m<sup>2</sup> , 5.5% id.), “Hyogo” (72.46 million m<sup>2</sup> , 5.0% id.), “Chiba” (68.20 million m<sup>2</sup> , 4.7% id.), “Hokkaido” (64.65 million m<sup>2</sup> , 4.5% id.), “Shizuoka” (59.65 million m<sup>2</sup> , 4.1% id.), and “Kanagawa” (57.61 million m<sup>2</sup> , 4.0% id.) (Table 10, Figure 12).

**Figure 12 Distribution of lot area by prefecture  
(Establishments with 30 or more employees)**



In the year-to-year comparison, lot area decreased in 34 prefectures, including “Yamanashi” (down 6.8% compared to the previous year), “Kagoshima” (down 5.2% id.), “Tokyo” (down 4.8% id.), “Tottori” (down 4.6% id.), and “Kanagawa” (down 3.2% id.), whereas there was an increase in 13 prefectures, including “Aichi” (up 2.1% id.), “Aomori” (up 1.0% id.), and “Oita” (up 0.8% id.) (Table 10, Figure 13).

**Figure 13 Year-to-year comparison of lot area by prefecture  
(Establishments with 30 or more employees)**



**Table 10 Lot area, building area and aggregate building area by prefecture  
(Establishments with 30 or more employees)**

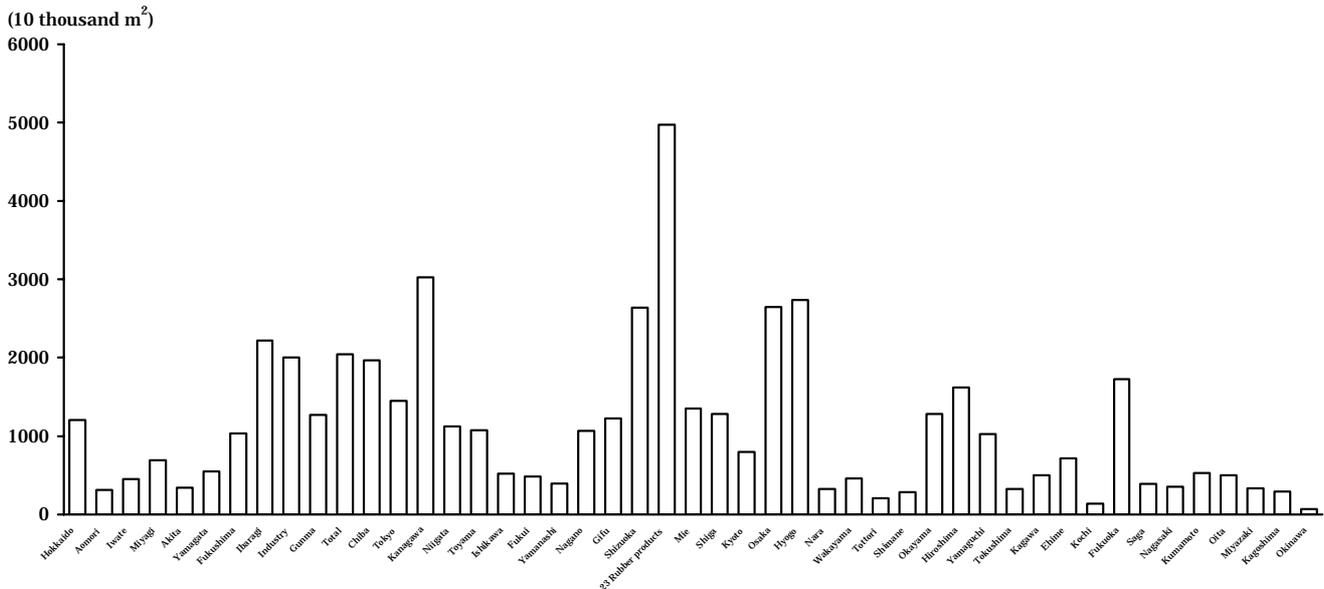
(Unit: 1,000 m<sup>2</sup>)

Prefecture	Lot area				Building area				Aggregate building area			
	2000	2001	2001		2000	2001	2001		2000	2001	2001	
			Y/Y (%)	Composition ratio (%)			Y/Y (%)	Composition ratio (%)			Y/Y (%)	Composition ratio (%)
Total	1,453,612	1,442,586	0.8	100.0	385,355	383,510	0.5	100.0	514,995	513,982	0.2	100.0
1 Hokkaido	66,424	64,646	2.7	4.5	9,489	9,442	0.5	2.5	12,104	12,050	0.4	2.3
2 Aomori	19,731	19,921	1.0	1.4	2,357	2,357	0.0	0.6	3,104	3,090	0.4	0.6
3 Iwate	17,968	17,490	2.7	1.2	3,604	3,619	0.4	0.9	4,468	4,530	1.4	0.9
4 Miyagi	25,219	24,670	2.2	1.7	5,477	5,445	0.6	1.4	6,967	6,894	1.0	1.3
5 Akita	12,667	12,511	1.2	0.9	2,880	2,837	1.5	0.7	3,433	3,383	1.4	0.7
6 Yamagata	16,834	16,401	2.6	1.1	4,387	4,244	3.3	1.1	5,694	5,502	3.4	1.1
7 Fukushima	41,592	40,853	1.8	2.8	8,215	8,264	0.6	2.2	10,177	10,318	1.4	2.0
8 Ibaragi	78,887	79,153	0.3	5.5	17,437	17,740	1.7	4.6	21,718	22,142	2.0	4.3
9 Tochigi	43,401	43,687	0.7	3.0	11,824	11,953	1.1	3.1	14,367	14,483	0.8	2.8
10 Gunma	34,710	34,739	0.1	2.4	10,041	10,092	0.5	2.6	12,592	12,711	0.9	2.5
11 Saitama	40,536	39,666	2.1	2.7	14,600	14,213	2.6	3.7	20,904	20,415	2.3	4.0
12 Chiba	68,638	68,201	0.6	4.7	15,504	15,352	1.0	4.0	19,694	19,675	0.1	3.8
13 Tokyo	17,840	16,976	4.8	1.2	7,821	7,549	3.5	2.0	14,916	14,504	2.8	2.8
14 Kanagawa	59,503	57,605	3.2	4.0	20,761	20,349	2.0	5.3	30,876	30,311	1.8	5.9
15 Niigata	31,081	30,713	1.2	2.1	8,108	8,066	0.5	2.1	11,243	11,198	0.4	2.2
16 Toyama	28,504	28,376	0.5	2.0	8,130	8,178	0.6	2.1	10,680	10,764	0.8	2.1
17 Ishikawa	13,637	13,376	1.9	0.9	3,970	3,931	1.0	1.0	5,115	5,190	1.5	1.0
18 Fukui	12,954	12,998	0.3	0.9	3,580	3,583	0.1	0.9	4,869	4,872	0.1	0.9
19 Yamanashi	11,267	10,501	6.8	0.7	2,895	2,817	2.7	0.7	4,134	3,922	5.1	0.8
20 Nagano	26,732	26,723	0.0	1.9	7,636	7,648	0.2	2.0	10,558	10,697	1.3	2.1
21 Gifu	31,142	30,388	2.4	2.1	9,684	9,531	1.6	2.5	12,387	12,281	0.9	2.4
22 Shizuoka	59,630	59,649	0.0	4.1	19,412	19,435	0.1	5.1	26,289	26,410	0.5	5.1
23 Aichi	113,913	116,333	2.1	8.1	37,614	37,366	0.7	9.7	50,168	49,760	0.8	9.7
24 Mie	42,237	42,193	0.1	2.9	10,469	10,519	0.5	2.7	13,391	13,517	0.9	2.6
25 Shiga	33,954	34,151	0.6	2.4	9,717	9,873	1.6	2.6	12,551	12,824	2.2	2.5
26 Kyoto	15,095	14,825	1.8	1.0	5,467	5,331	2.5	1.4	8,066	7,981	1.1	1.6
27 Osaka	45,134	44,837	0.7	3.1	17,366	17,115	1.4	4.5	26,718	26,492	0.8	5.2
28 Hyogo	73,719	72,462	1.7	5.0	20,512	20,279	1.1	5.3	27,595	27,386	0.8	5.3
29 Nara	5,980	5,912	1.1	0.4	2,187	2,135	2.4	0.6	3,310	3,265	1.4	0.6
30 Wakayama	15,654	15,475	1.1	1.1	3,634	3,571	1.7	0.9	4,635	4,551	1.8	0.9
31 Tottori	5,287	5,046	4.6	0.3	1,597	1,548	3.1	0.4	2,086	2,062	1.1	0.4
32 Shimane	8,314	8,157	1.9	0.6	2,260	2,248	0.5	0.6	2,836	2,841	0.2	0.6
33 Okayama	51,481	51,585	0.2	3.6	10,422	10,508	0.8	2.7	12,636	12,830	1.5	2.5
34 Hiroshima	43,798	43,443	0.8	3.0	12,708	12,812	0.8	3.3	16,038	16,236	1.2	3.2
35 Yamaguchi	41,731	41,457	0.7	2.9	8,277	8,306	0.3	2.2	10,210	10,224	0.1	2.0
36 Tokushima	10,456	10,179	2.7	0.7	2,471	2,376	3.8	0.6	3,381	3,259	3.6	0.6
37 Kagawa	15,141	15,018	0.8	1.0	4,009	4,047	1.0	1.1	4,950	4,974	0.5	1.0
38 Ehime	22,590	22,369	1.0	1.6	5,285	5,231	1.0	1.4	7,237	7,156	1.1	1.4
39 Kochi	3,423	3,353	2.0	0.2	1,078	1,050	2.5	0.3	1,420	1,390	2.1	0.3
40 Fukuoka	52,758	52,751	0.0	3.7	13,439	13,393	0.3	3.5	17,160	17,247	0.5	3.4
41 Saga	10,691	10,674	0.2	0.7	3,117	3,160	1.4	0.8	3,837	3,907	1.8	0.8
42 Nagasaki	10,413	10,408	0.0	0.7	2,661	2,707	1.7	0.7	3,395	3,515	3.6	0.7
43 Kumamoto	18,470	18,534	0.3	1.3	4,114	4,146	0.8	1.1	5,159	5,269	2.1	1.0
44 Oita	26,730	26,952	0.8	1.9	3,750	3,807	1.5	1.0	4,910	4,984	1.5	1.0
45 Miyazaki	11,835	11,909	0.6	0.8	2,575	2,578	0.1	0.7	3,346	3,339	0.2	0.6
46 Kagoshima	11,293	10,701	5.2	0.7	2,269	2,201	3.0	0.6	2,980	2,916	2.1	0.6
47 Okinawa	4,619	4,621	0.0	0.3	547	561	2.4	0.1	695	714	2.8	0.1

## 2. Total building area

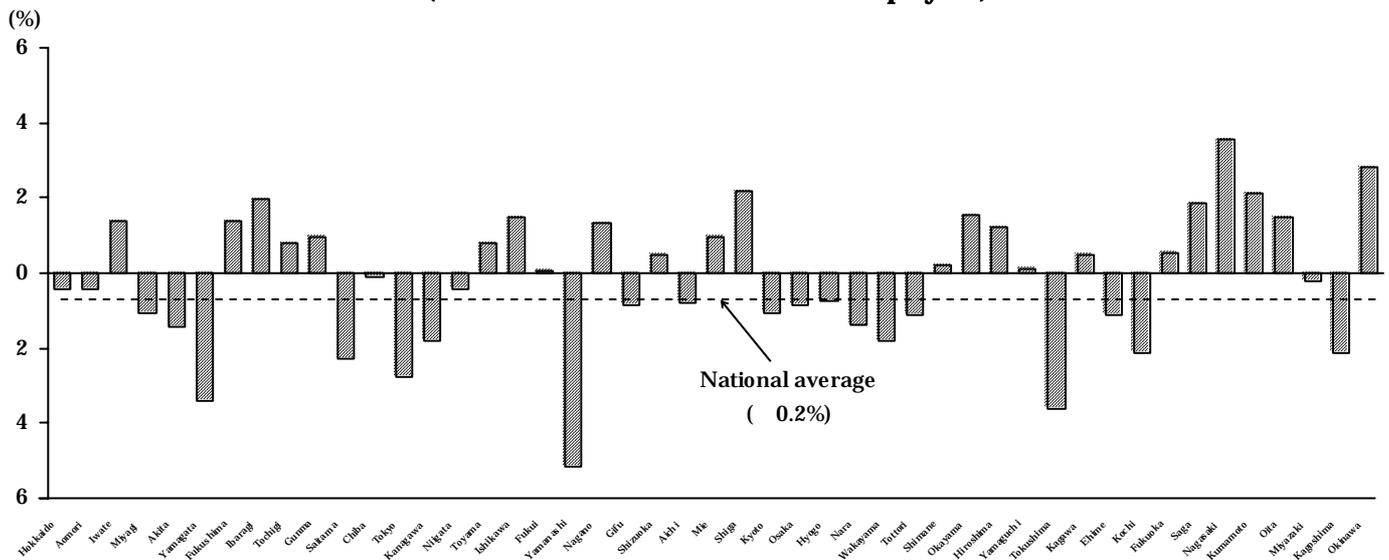
When observing the total building area by prefecture, the prefecture with the largest total building area was “Aichi” (49.76 million m<sup>2</sup>, composition ratio 9.7%) followed by “Kanagawa” (30.31 million m<sup>2</sup>, 5.9% id.), “Hyogo” (27.39 million m<sup>2</sup>, 5.3% id.), “Osaka” (26.49 million m<sup>2</sup>, 5.2% id.), “Shizuoka” (26.41 million m<sup>2</sup>, 5.1% id.), “Ibaragi” (22.14 million m<sup>2</sup>, 4.3% id.), and “Saitama” (20.42 million m<sup>2</sup>, 4.0% id.) (Table 10, Figure 14).

**Figure 14 Total building area by prefecture  
(Establishments with 30 or more employees)**



In the year-to-year comparison, the total building area decreased in 24 prefectures, including “Yamanashi” (down 5.1% compared to the previous year), “Tokushima” (down 3.6% id.), “Yamagata” (down 3.4% id.), “Tokyo” (down 2.8% id.), and “Saitama” (down 2.3% id.), whereas there was an increase in 23 prefectures, including “Nagasaki” (up 3.6% id.), “Okinawa” (up 2.8% id.), “Shiga” (up 2.2% id.), “Kumamoto” (up 2.1% id.), and “Ibaragi” (up 2.0% id.) (Table 5, Figure 15).

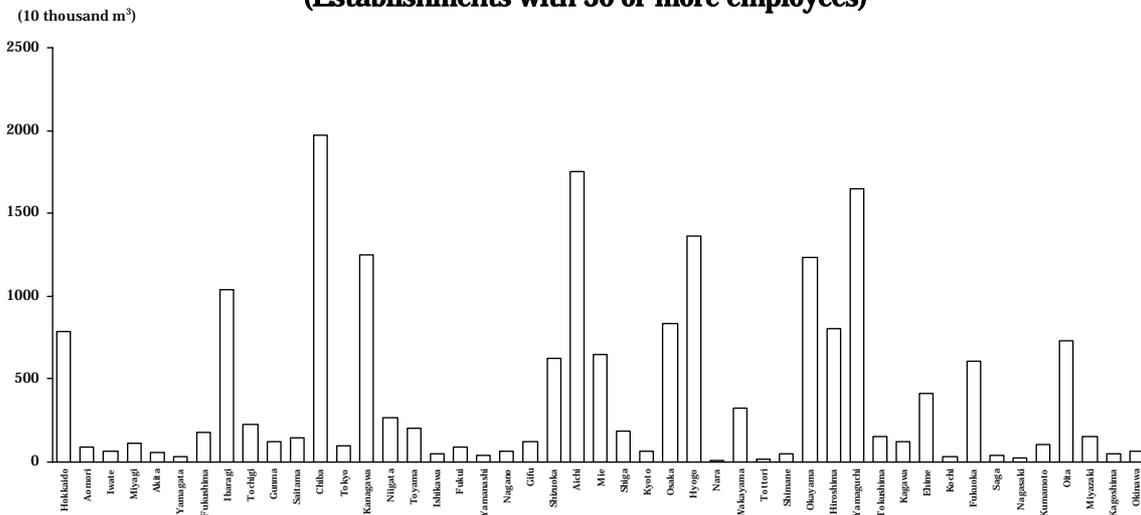
**Figure 15 Year-to-year comparison of total building area by prefecture  
(Establishments with 30 or more employees)**



### 3. Industrial water situation

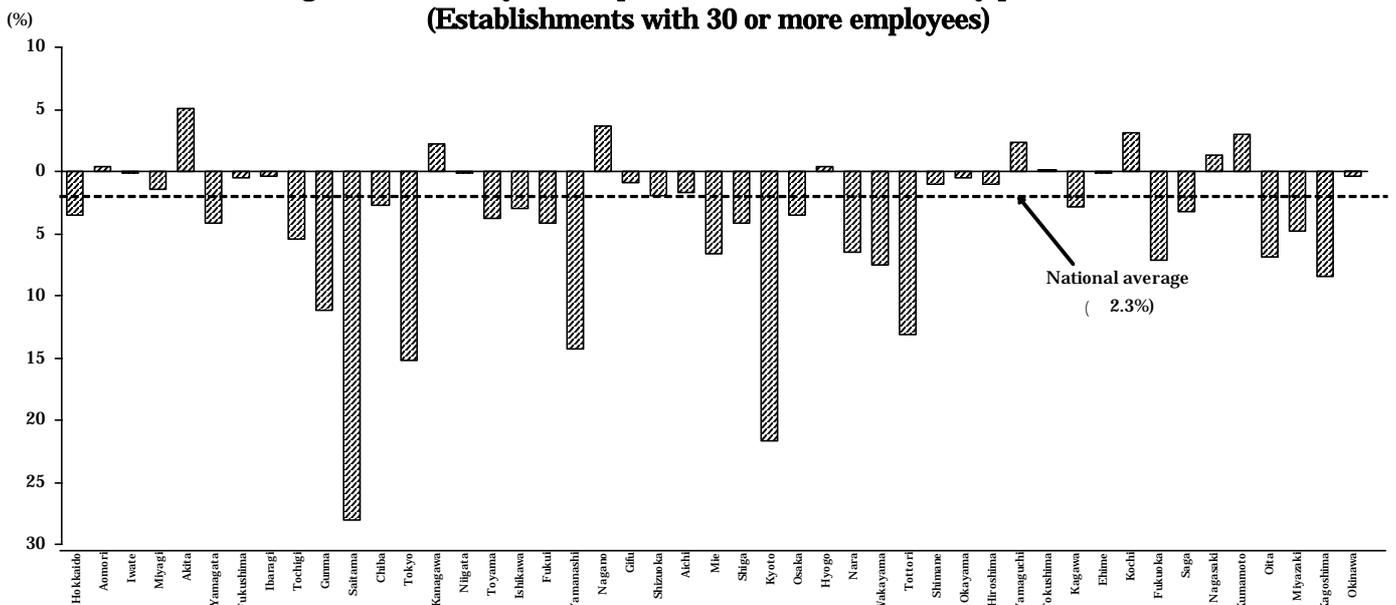
When viewing the situation of industrial water by prefecture, the largest volume of water was observed in the following prefectures: “Chiba” (19.69 million m<sup>3</sup>, composition ratio 10.3%), “Aichi” (17.52 million m<sup>3</sup>, 9.2% id.), “Yamaguchi” (16.46 million m<sup>3</sup>, 8.6% id.), “Hyogo” (13.61 million m<sup>3</sup>, 7.1% id.), “Kanagawa” (12.50 million m<sup>3</sup>, 6.6% id.), “Okayama” (12.38 million m<sup>3</sup>, 6.5% id.), and “Ibaragi” (10.43 million m<sup>3</sup>, 5.5% id.) (Table 11, Figure 16).

**Figure 16 Distribution of volume of industrial water by prefecture  
(Establishments with 30 or more employees)**



In the year-to-year comparison, the volume of industrial water decreased in 37 prefectures, including “Saitama” (down 28.1% compared to the previous year), “Kyoto” (down 21.7% id.), “Tokyo” (down 15.2% id.), “Yamanashi” (down 14.3% id.), and “Tottori” (down 13.2% id.), whereas there was an increase in 10 prefectures, including “Akita” (up 5.0% id.), “Nagano” (up 3.6% id.), “Kochi” (up 3.1% id.), “Kumamoto” (up 2.9% id.), and “Yamaguchi” (up 2.4% id.) (Table 11, Figure 17)

**Figure 17 Year-to-year comparison of volume of water by prefecture  
(Establishments with 30 or more employees)**



**Table 11 Water volume by prefecture  
(Establishments with 30 or more employees)**

(Unit: 1,000 m<sup>3</sup>/day)

Prefecture	Total volume of water											
	Fresh water				Sea water							
	2000	2001		Composition ratio (%)	2000	2001		Composition ratio (%)	2000	2001		Composition ratio (%)
	Y/Y (%)	Composition ratio (%)			Y/Y (%)	Composition ratio (%)			Y/Y (%)	Composition ratio (%)		
Total	194,952	190,547	2.3	100.0	151,965	147,978	2.6	100.0	42,988	42,569	1.0	100.0
1 Hokkaido	8,126	7,846	3.5	4.1	6,715	6,584	1.9	4.4	1,411	1,261	10.6	3.0
2 Aomori	926	930	0.4	0.5	901	905	0.4	0.6	24	24	0.1	0.1
3 Iwate	628	627	0.2	0.3	406	406	0.2	0.3	222	221	0.1	0.5
4 Miyagi	1,118	1,102	1.5	0.6	1,114	1,098	1.4	0.7	4	3	23.1	0.0
5 Akita	570	599	5.0	0.3	386	386	0.1	0.3	184	212	15.5	0.5
6 Yamagata	299	286	4.1	0.2	299	286	4.1	0.2	-	-	-	-
7 Fukushima	1,756	1,747	0.5	0.9	1,206	1,183	2.0	0.8	550	565	2.7	1.3
8 Ibaragi	10,472	10,429	0.4	5.5	8,161	8,075	1.1	5.5	2,311	2,354	1.9	5.5
9 Tochigi	2,414	2,283	5.4	1.2	2,414	2,283	5.4	1.5	-	-	-	-
10 Gunma	1,360	1,209	11.1	0.6	1,360	1,209	11.1	0.8	-	-	-	-
11 Saitama	2,013	1,447	28.1	0.8	2,013	1,447	28.1	1.0	-	-	-	-
12 Chiba	20,232	19,689	2.7	10.3	12,551	12,390	1.3	8.4	7,681	7,299	5.0	17.1
13 Tokyo	1,107	939	15.2	0.5	1,014	846	16.6	0.6	93	93	0.2	0.2
14 Kanagawa	12,240	12,504	2.2	6.6	8,824	9,077	2.9	6.1	3,416	3,428	0.3	8.1
15 Niigata	2,710	2,709	0.1	1.4	2,710	2,709	0.1	1.8	-	-	-	-
16 Toyama	2,100	2,022	3.7	1.1	2,100	2,022	3.7	1.4	-	-	-	-
17 Ishikawa	530	514	3.0	0.3	530	514	3.0	0.3	-	-	-	-
18 Fukui	903	866	4.1	0.5	903	866	4.1	0.6	-	-	-	-
19 Yamanashi	440	377	14.3	0.2	440	377	14.3	0.3	-	-	-	-
20 Nagano	599	620	3.6	0.3	599	620	3.6	0.4	-	-	-	-
21 Gifu	1,234	1,223	0.9	0.6	1,234	1,223	0.9	0.8	-	-	-	-
22 Shizuoka	6,335	6,215	1.9	3.3	6,247	6,136	1.8	4.1	88	79	10.2	0.2
23 Aichi	17,819	17,523	1.7	9.2	14,599	14,201	2.7	9.6	3,220	3,322	3.2	7.8
24 Mie	6,995	6,530	6.7	3.4	6,005	5,560	7.4	3.8	990	969	2.1	2.3
25 Shiga	1,918	1,839	4.1	1.0	1,918	1,839	4.1	1.2	-	-	-	-
26 Kyoto	820	642	21.7	0.3	820	642	21.7	0.4	-	-	-	-
27 Osaka	8,680	8,374	3.5	4.4	8,169	7,875	3.6	5.3	510	499	2.3	1.2
28 Hyogo	13,549	13,608	0.4	7.1	8,900	8,966	0.7	6.1	4,649	4,641	0.2	10.9
29 Nara	78	73	6.5	0.0	78	73	6.5	0.0	-	-	-	-
30 Wakayama	3,494	3,229	7.6	1.7	2,487	2,287	8.1	1.5	1,007	943	6.4	2.2
31 Tottori	204	177	13.2	0.1	204	177	13.2	0.1	0	0	0.0	0.0
32 Shimane	532	526	1.1	0.3	529	524	1.1	0.4	2	2	0.0	0.0
33 Okayama	12,447	12,378	0.6	6.5	10,108	10,095	0.1	6.8	2,340	2,283	2.4	5.4
34 Hiroshima	8,143	8,062	1.0	4.2	6,892	6,829	0.9	4.6	1,252	1,233	1.5	2.9
35 Yamaguchi	16,082	16,462	2.4	8.6	9,249	9,112	1.5	6.2	6,833	7,350	7.6	17.3
36 Tokushima	1,520	1,523	0.2	0.8	1,420	1,423	0.2	1.0	100	100	0.1	0.2
37 Kagawa	1,253	1,217	2.8	0.6	708	655	7.5	0.4	545	563	3.2	1.3
38 Ehime	4,157	4,154	0.1	2.2	3,280	3,298	0.5	2.2	877	856	2.4	2.0
39 Kochi	279	288	3.1	0.2	194	202	4.3	0.1	86	86	0.5	0.2
40 Fukuoka	6,593	6,121	7.2	3.2	5,112	4,812	5.9	3.3	1,480	1,309	11.5	3.1
41 Saga	382	369	3.3	0.2	381	369	3.3	0.2	1	1	8.9	0.0
42 Nagasaki	235	239	1.3	0.1	84	76	10.2	0.1	151	163	7.8	0.4
43 Kumamoto	1,042	1,073	2.9	0.6	1,042	1,072	2.9	0.7	1	1	0.3	0.0
44 Oita	7,821	7,282	6.9	3.8	5,071	4,768	6.0	3.2	2,750	2,515	8.6	5.9
45 Miyazaki	1,625	1,548	4.7	0.8	1,591	1,515	4.8	1.0	34	33	2.0	0.1
46 Kagoshima	488	447	8.5	0.2	455	423	7.0	0.3	33	24	28.1	0.1
47 Okinawa	682	679	0.4	0.4	541	543	0.3	0.4	141	136	3.3	0.3