

2016

STATISTICS OF

RECOVERED PAPER

IN JAPAN



PAPER RECYCLING PROMOTION CENTER

Index

State of recovered paper (2016) -----	1
General situation of paper & paperboard production and shipment (2016) -----	1
Trends in paper & paperboard production -----	2
Trends in consumption of recovered paper & wood pulp -----	2
Trends in recovered paper recovery rate & utilization rate -----	3
Trends in exports & imports of paper and paperboard -----	3
Trends in exports & imports of recovered paper -----	3
Trends in recovered paper recovery rate -----	4
Trends in consumption of recovered paper classified by grades -----	5
Trends in consumption of recovered paper classified by grades for paper and paperboard -----	6
Trends in supply & demand of recovered paper (2016) -----	7
Trends in consumption of recovered paper for papermaking (2016) -----	8
Trends in utilization rate & consumption of fiber stocks for paper and paperboard -----	9
Trends in production of paper & paperboard -----	10
Trends in shipment of paper & paperboard -----	11
Consumption rate index per ton of fiber for paper production -----	12
Exports of recovered paper classified by countries (2016) -----	13
Imports of recovered paper classified by countries (2016) -----	16
Trends in exports of paper & paperboard -----	18
Trends in imports of paper & paperboard -----	19
Recovered paper generation / distribution route (2016) -----	20
Roles of recovered paper recycling by agents -----	21
Estimation of recovery rate by grades (2016) -----	22
Estimation rate of recovered paper consumption for paper production (2016) -----	23
Use of recovered paper (2016) -----	24
Trends of quantity and composition ratio of products used recovered paper in the field except paper manufacture -----	25
The list of Japanese standard qualities of recovered paper -----	26
Trends in price of recovered papers -----	28

Data source of:

1. Monthly Report of Paper, Pulp, Plastics Products and Rubber Products Statistics
Research and Statistics Department, METI
2. Japan Export of Pulp and Paper by Commodity and Country
Ministry of Finance
3. Japan Import of Pulp and Paper by Commodity and Country
Ministry of Finance

(This statistics booklet is made of recycled paper.)

Table 1 State of recovered paper (2016)

(METRIC TON,%)

Grades	Supply	Consumption		
		Ratio for the year before %	Consumption	Ratio for the year before %
Total	16,976,664	99.6	17,031,430	100.3
Hard white shavings, white card	65,119	98.4	65,274	101.4
White woody shavings, white manila	50,997	99.1	51,717	101.1
Fine paper printed (incl. coated paper)	1,825,904	98.8	1,817,539	98.2
Kraft browns	45,882	96.2	47,156	99.6
Quires woody paper printed	97,530	88.2	99,884	90.9
Old newspaper	3,771,839	95.4	3,801,864	96.4
Old magazines	1,934,163	100.1	1,939,744	100.5
Old corrugated containers	8,811,692	101.8	8,829,868	102.5
Box board cuttings	373,538	99.6	378,384	102.2

Table 2 General situation of paper & paperboard production and shipment (2016)

(METRIC TON,%)

Grades	Production	Shipment		
		Ratio for the Year before %	Shipment	Ratio for the Year before %
Total	26,274,937	100.2	26,301,928	100.7
Paper total	14,705,665	99.2	14,726,053	99.5
Newsprint	2,905,765	97.4	2,910,042	97.2
Printing and communication paper	8,308,816	99.1	8,311,762	99.5
Wrapping paper	877,241	98.4	887,803	101.4
Sanitary paper	1,807,252	102.4	1,806,617	102.2
Miscellaneous paper	806,591	100.3	809,829	100.8
Paperboard total	11,569,272	101.5	11,575,875	102.2
Liner and corrugating medium	9,363,547	101.9	9,364,160	102.6
White paperboard	1,435,433	100.8	1,435,740	101.4
Patent coated paperboard	140,877	96.5	143,194	99.0
Building board	198,436	98.0	200,010	99.7
Other paperboard	430,979	98.1	432,771	99.1

Fig.1 Trends in paper & paperboard production

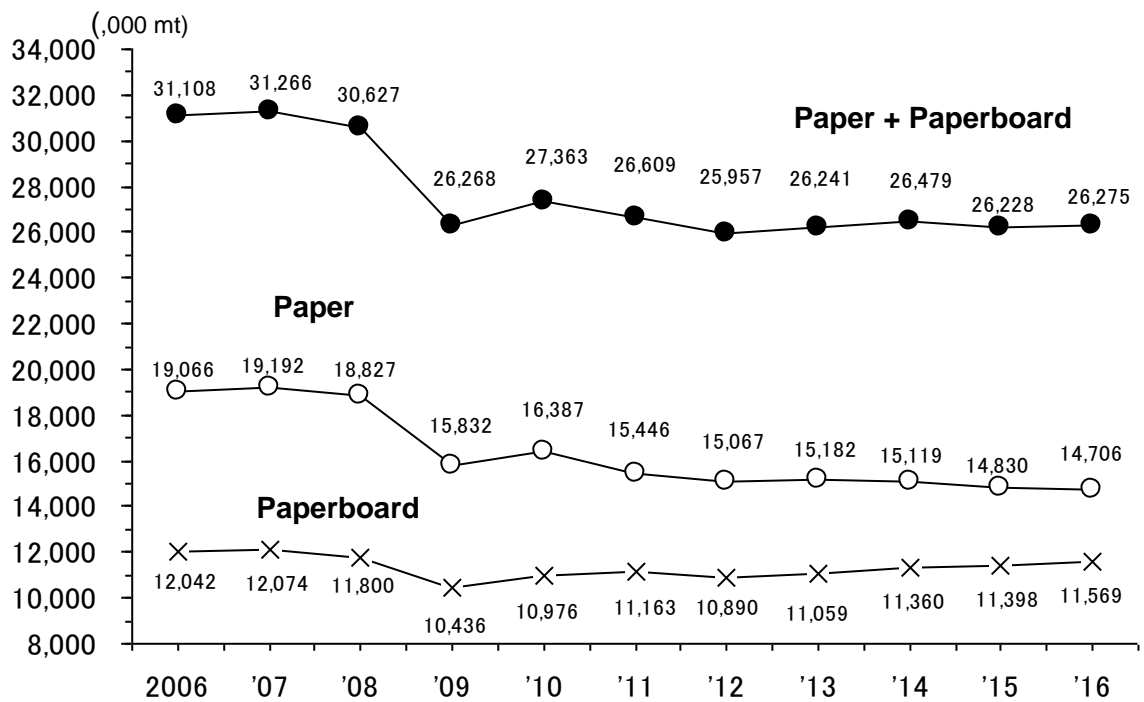


Fig.2 Trends in consumption of recovered paper & wood pulp

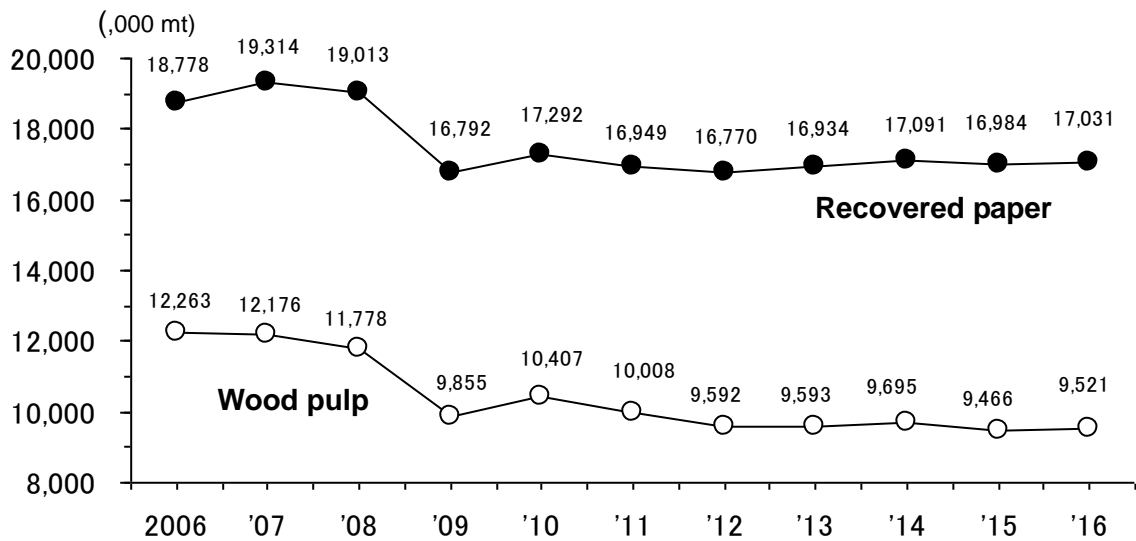


Fig.3 Trends in recovered paper recovery rate & utilization rate

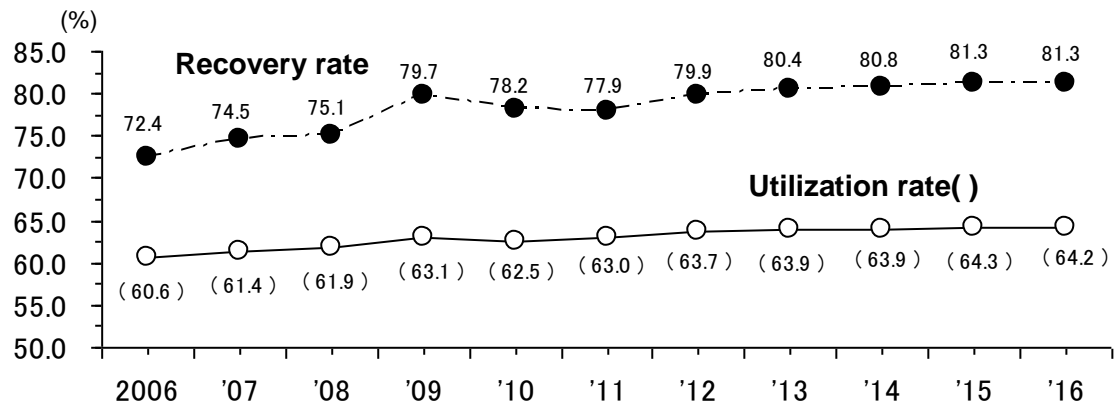


Fig.4 Trends in exports & imports of paper and paperboard

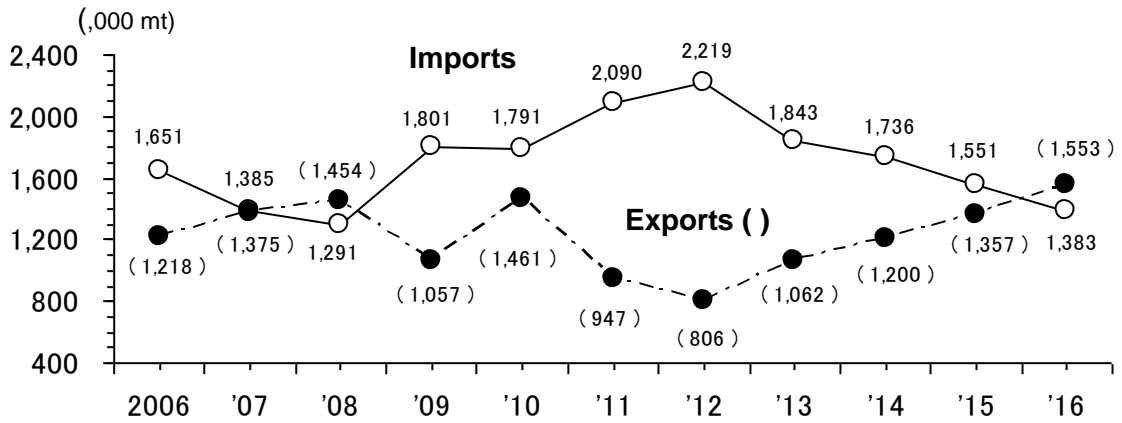


Fig.5 Trends in exports & imports of recovered paper

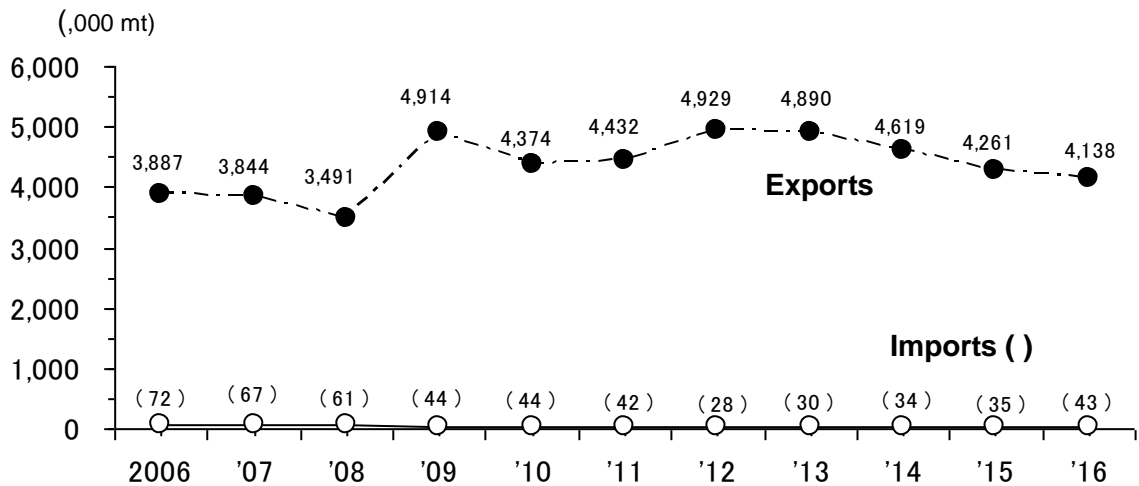


Table 3 Trends in recovered paper recovery rate

(METRIC TON, %)

Year	Shipment			Imports of paper & paperboard B	Exports of paper & paperboard C	The Balance A+B-C=D	Imports of recovered paper E	Exports of recovered paper F	Recovered paper supply G	Deinked market pulp G'	Recovery G+G'-E+F=H	Recovery rate H / D(%)
	Paper	Paperboard	Total A									
1960	2,836,389	1,617,921	4,454,310	1,087	168,812	4,286,585	27,208	1,432	1,492,224		1,466,448	34.2
1965	4,216,211	3,105,801	7,322,012	16,638	230,197	7,108,453	76,328	1,104	2,799,958		2,724,734	38.3
1970	7,003,897	5,664,687	12,668,584	99,527	507,789	12,260,322	109,848	5,517	4,836,852		4,732,521	38.6
1975	7,853,157	6,031,966	13,885,123	106,628	653,128	13,338,623	120,865	39,360	5,209,577	33,925	5,161,997	38.7
1980	10,190,586	7,465,215	17,655,801	493,292	655,894	17,493,199	223,655	19,772	8,187,132	95,216	8,078,465	46.2
1985	11,736,473	8,632,570	20,369,043	701,258	868,920	20,201,381	300,162	17,660	10,325,984	107,303	10,150,785	50.2
1990	16,391,232	11,703,448	28,094,680	1,034,757	903,510	28,225,927	634,254	21,858	14,474,269	159,598	14,021,471	49.7
1995	17,457,108	12,201,806	29,658,914	1,274,747	912,051	30,021,610	478,723	41,519	15,769,597	142,378	15,474,771	51.5
1996	17,662,669	12,226,522	29,889,191	1,584,952	718,205	30,755,938	430,658	21,167	16,015,278	160,960	15,766,747	51.3
1997	18,166,815	12,634,852	30,801,667	1,363,121	974,941	31,189,847	361,830	311,768	16,428,620	165,108	16,543,666	53.0
1998	17,828,067	12,040,633	29,868,700	1,231,767	1,117,389	29,983,078	294,054	561,149	16,129,668	168,243	16,565,006	55.2
1999	18,551,600	12,317,303	30,868,903	1,168,816	1,415,004	30,622,715	300,321	288,459	16,893,838	178,589	17,060,565	55.7
2000	18,991,058	12,729,981	31,721,039	1,469,864	1,432,410	31,758,493	278,084	372,182	18,065,898	172,119	18,332,115	57.7
2001	18,388,774	12,389,807	30,778,581	1,583,069	1,289,712	31,071,938	213,628	1,466,182	17,680,393	189,214	19,122,161	61.5
2002	18,524,697	12,181,986	30,706,683	1,517,486	1,577,728	30,646,441	143,621	1,897,116	18,079,468	213,189	20,046,152	65.4
2003	18,325,529	12,100,448	30,425,977	1,829,880	1,326,277	30,929,580	117,680	1,970,607	18,387,288	202,398	20,442,613	66.1
2004	18,769,844	12,085,458	30,855,302	1,960,862	1,439,018	31,377,146	80,548	2,835,392	18,553,381	198,769	21,506,994	68.5
2005	18,812,510	12,056,384	30,868,894	1,753,714	1,240,119	31,382,489	77,445	3,710,482	18,505,253	181,456	22,319,746	71.1
2006	19,049,649	12,058,945	31,108,594	1,650,790	1,218,383	31,541,001	71,722	3,886,905	18,818,833	191,313	22,825,329	72.4
2007	19,268,247	12,045,997	31,314,244	1,374,672	1,385,119	31,303,797	66,537	3,843,931	19,381,046	166,201	23,324,641	74.5
2008	18,678,924	11,787,351	30,466,275	1,290,700	1,453,764	30,303,211	61,480	3,490,786	19,154,236	168,705	22,752,247	75.1
2009	15,993,253	10,456,771	26,450,024	1,801,284	1,057,181	27,194,127	43,958	4,914,123	16,643,548	150,206	21,663,919	79.7
2010	16,448,738	10,973,037	27,421,775	1,791,429	1,461,328	27,751,876	43,870	4,373,578	17,235,399	149,924	21,715,031	78.2
2011	15,408,071	11,112,329	26,520,400	2,089,917	947,374	27,662,943	42,190	4,432,132	17,011,765	150,871	21,552,578	77.9
2012	14,956,949	10,860,730	25,817,679	2,218,735	806,165	27,230,249	27,600	4,929,315	16,720,687	129,220	21,751,622	79.9
2013	15,311,931	11,109,651	26,421,582	1,843,203	1,061,915	27,202,870	30,076	4,889,715	16,875,289	129,338	21,864,266	80.4
2014	15,075,103	11,305,589	26,380,692	1,736,471	1,200,412	26,916,751	34,143	4,618,628	17,040,027	124,996	21,749,508	80.8
2015	14,796,513	11,323,326	26,119,839	1,551,086	1,357,351	26,313,574	34,909	4,261,372	17,039,996	134,481	21,400,940	81.3
2016	14,726,053	11,575,875	26,301,928	1,383,002	1,553,253	26,131,677	43,419	4,137,944	16,976,664	162,100	21,233,289	81.3

Note : Recovered paper used to product the denied market pulp was calculated as yield 80%. (G')

Table 4 Trends in consumption of recovered paper classified by grades

(METRIC TON, %)

Year	Item	Total	Hard white shavings, white cards	White woody shavings, white manila	Fine paper printed	Kraft browns	Quires woody paper printed	Old newspaper	Old magazines	Old corrugated containers	Box board cuttings
2009	Consumption	16,791,964	74,809	52,959	1,912,080	67,746	167,984	4,463,912	2,326,835	7,341,009	384,630
	Proportion	100.0	0.4	0.3	11.4	0.4	1.0	26.6	13.9	43.7	2.3
	Ratio of the year before	88.3	91.2	89.3	85.6	85.3	109.4	90.2	90.9	86.6	91.9
	Contribute ratio/Growth of consumption	-100.0	-0.3	-0.3	-14.5	-0.5	0.7	-21.8	-10.4	-51.2	-1.5
2010	Consumption	17,292,214	72,538	54,812	1,973,810	63,125	150,826	4,385,974	2,297,633	7,903,282	390,214
	Proportion	100.0	0.4	0.3	11.4	0.4	0.9	25.4	13.3	45.7	2.3
	Ratio of the year before	103.0	97.0	103.5	103.2	93.2	89.8	98.3	98.7	107.7	101.5
	Contribute ratio/Growth of consumption	100.0	-0.5	0.4	12.3	-0.9	-3.4	-15.6	-5.8	112.4	1.1
2011	Consumption	16,949,049	70,453	55,448	1,978,131	60,182	139,383	3,972,727	2,234,475	8,052,116	386,134
	Proportion	100.0	0.4	0.3	11.7	0.4	0.8	23.4	13.2	47.5	2.3
	Ratio of the year before	98.0	97.1	101.2	100.2	95.3	92.4	90.6	97.3	101.9	99.0
	Contribute ratio/Growth of consumption	-100.0	-0.6	0.2	1.3	-0.9	-3.3	-120.4	-18.4	43.4	-1.2
2012	Consumption	16,770,075	63,819	53,943	1,970,269	51,971	128,684	4,085,778	2,170,359	7,867,308	377,944
	Proportion	100.0	0.4	0.3	11.7	0.3	0.8	24.4	12.9	46.9	2.3
	Ratio of the year before	98.9	90.6	97.3	99.6	86.4	92.3	102.8	97.1	97.7	97.9
	Contribute ratio/Growth of consumption	-100.0	-3.7	-0.8	-4.4	-4.6	-6.0	63.2	-35.8	-103.3	-4.6
2013	Consumption	16,933,920	65,581	52,492	1,913,784	47,222	126,121	4,132,063	2,134,611	8,082,621	379,425
	Proportion	100.0	0.4	0.3	11.3	0.3	0.7	24.4	12.6	47.7	2.2
	Ratio of the year before	101.0	102.8	97.3	97.1	90.9	98.0	101.1	98.4	102.7	100.4
	Contribute ratio/Growth of consumption	100.0	1.1	-0.9	-34.5	-2.9	-1.6	28.2	-21.8	131.4	0.9
2014	Consumption	17,091,464	66,016	52,757	1,901,619	47,182	122,681	4,070,987	1,993,727	8,448,767	387,728
	Proportion	100.0	0.4	0.3	11.1	0.3	0.7	23.8	11.7	49.4	2.3
	Ratio of the year before	100.9	100.7	100.5	99.4	99.9	97.3	98.5	93.4	104.5	102.2
	Contribute ratio/Growth of consumption	100.0	0.3	0.2	-7.7	0.0	-2.2	-38.8	-89.4	232.4	5.3
2015	Consumption	16,984,077	64,370	51,162	1,851,549	47,366	109,906	3,942,072	1,929,985	8,617,438	370,229
	Proportion	100.0	0.4	0.3	10.9	0.3	0.6	23.2	11.4	50.7	2.2
	Ratio of the year before	99.4	97.5	97.0	97.4	100.4	89.6	96.8	96.8	102.0	95.5
	Contribute ratio/Growth of consumption	-100.0	-1.5	-1.5	-46.6	0.2	-11.9	-120.0	-59.4	157.1	-16.3
2016	Consumption	17,031,430	65,274	51,717	1,817,539	47,156	99,884	3,801,864	1,939,744	8,829,868	378,384
	Proportion	100.0	0.4	0.3	10.7	0.3	0.6	22.3	11.4	51.8	2.2
	Ratio of the year before	100.3	101.4	101.1	98.2	99.6	90.9	96.4	100.5	102.5	102.2
	Contribute ratio/Growth of consumption	100.0	1.9	1.2	-71.8	-0.4	-21.2	-296.1	20.6	448.6	17.2

Note : -: decrease

Table 5 Trends in consumption of recovered paper classified by grades for paper and paperboard

(METRIC TON, %)

For	Year	Item	Total	Hard white shavings, white cards	White woody shavings, white manila	Fine paper printed	Kraft browns	Quires woody paper printed	Old newspaper	Old magazines	Old corrugated containers	Box board cuttings	
P a p e r	2013	Consumption	6,039,007	12,527	2,450	1,617,095	8,233	113,033	3,871,707	406,861	3,135	3,966	
		Ratio	For paper total	100.0	0.2	0.0	26.8	0.1	1.9	64.1	6.7	0.1	0.1
			For consumption	35.7	19.1	4.7	84.5	17.4	89.6	93.7	19.1	0.0	1.0
		Ratio of the year before	100.0	93.4	83.2	96.9	97.5	98.1	101.4	101.0	101.3	119.6	
	Contribute ratio/ Growth of consumption	100.0	-39.0	-22.0	-2,262.3	-9.2	-94.5	2,314.4	182.0	1.7	28.9		
	2014	Consumption	5,930,345	13,673	1,780	1,611,046	8,379	108,802	3,812,035	368,562	2,146	3,922	
		Ratio	For paper total	100.0	0.2	0.0	27.2	0.1	1.8	64.3	6.2	0.0	0.1
			For consumption	34.7	20.7	3.4	84.7	17.8	88.7	93.6	18.5	0.0	1.0
		Ratio of the year before	98.2	109.1	72.7	99.6	101.8	96.3	98.5	90.6	68.5	98.9	
	Contribute ratio/ Growth of consumption	-100.0	1.1	-0.6	-5.6	0.1	-3.9	-54.9	-35.2	-0.9	-0.0		
	2015	Consumption	5,747,843	12,880	1,978	1,571,434	8,083	95,930	3,700,861	349,159	1,456	6,062	
		Ratio	For paper total	100.0	0.2	0.0	27.3	0.1	1.7	64.4	6.1	0.0	0.1
			For consumption	33.8	20.0	3.9	84.9	17.1	87.3	93.9	18.1	0.0	1.6
		Ratio of the year before	96.9	94.2	111.1	97.5	96.5	88.2	97.1	94.7	67.8	154.6	
	Contribute ratio/ Growth of consumption	-100.0	-0.4	0.1	-21.7	-0.2	-7.1	-60.9	-10.6	-0.4	1.2		
	2016	Consumption	5,530,661	12,480	1,862	1,531,809	8,471	85,302	3,549,966	333,448	1,872	5,451	
		Ratio	For paper total	100.0	0.2	0.0	27.7	0.2	1.5	64.2	6.0	0.0	0.1
			For consumption	32.5	19.1	3.6	84.3	18.0	85.4	93.4	17.2	0.0	1.4
		Ratio of the year before	96.2	96.9	94.1	97.5	104.8	88.9	95.9	95.5	128.6	89.9	
	Contribute ratio/ Growth of consumption	-100.0	-0.2	-0.1	-18.2	0.2	-4.9	-69.5	-7.2	0.2	-0.3		
P a p e r b o a r d	2013	Consumption	10,894,913	53,054	50,042	296,689	38,989	13,088	260,356	1,727,750	8,079,486	375,459	
		Ratio	For paperboard total	100.0	0.5	0.5	2.7	0.4	0.1	2.4	15.9	74.2	3.4
			For consumption	64.3	80.9	95.3	15.5	82.6	10.4	6.3	80.9	100.0	99.0
		Ratio of the year before	101.5	105.2	98.1	98.2	89.6	96.8	97.8	97.7	102.7	100.2	
	Contribute ratio/ Growth of consumption	100.0	1.6	-0.6	-3.4	-2.8	-0.3	-3.7	-24.7	133.2	0.5		
	2014	Consumption	11,161,119	52,343	50,977	290,573	38,803	13,879	258,952	1,625,165	8,446,621	383,806	
		Ratio	For paperboard total	100.0	0.5	0.5	2.6	0.3	0.1	2.3	14.6	75.7	3.4
			For consumption	65.3	79.3	96.6	15.3	82.2	11.3	6.4	81.5	100.0	99.0
		Ratio of the year before	102.4	98.7	101.9	97.9	99.5	106.0	99.5	94.1	104.5	102.2	
	Contribute ratio/ Growth of consumption	100.0	-0.3	0.4	-2.3	-0.1	0.3	-0.5	-38.5	137.9	3.1		
	2015	Consumption	11,236,234	51,490	49,184	280,115	39,283	13,976	241,211	1,580,826	8,615,982	364,167	
		Ratio	For paperboard total	100.0	0.5	0.4	2.5	0.3	0.1	2.1	14.1	76.7	3.2
			For consumption	66.2	80.0	96.1	15.1	82.9	12.7	6.1	81.9	100.0	98.4
		Ratio of the year before	100.7	98.4	96.5	96.4	101.2	100.7	93.1	97.3	102.0	94.9	
	Contribute ratio/ Growth of consumption	100.0	-1.1	-2.4	-13.9	0.6	0.1	-23.6	-59.0	225.5	-26.1		
	2016	Consumption	11,500,769	52,794	49,855	285,730	38,685	14,582	251,898	1,606,296	8,827,996	372,933	
		Ratio	For paperboard total	100.0	0.5	0.4	2.5	0.3	0.1	2.2	14.0	76.8	3.2
			For consumption	67.5	80.9	96.4	15.7	82.0	14.6	6.6	82.8	100.0	98.6
		Ratio of the year before	102.4	102.5	101.4	102.0	98.5	104.3	104.4	101.6	102.5	102.4	
	Contribute ratio/ Growth of consumption	100.0	0.5	0.3	2.1	-0.2	0.2	4.0	9.6	80.1	3.3		

Notes : See the table 2 for consumption total. -: decrease

Table 7 Trends in consumption of recovered paper for papermaking (2016)

(METRIC TON, %)

Year, Mon.	Total			Hard white shavings, white card			White woody shavings, white manila			Fine paper printed (incl. coated paper)			Kraft paper		
	For paper	For paperboard	Total	For paper	For paperboard	Total	For paper	For paperboard	Total	For paper	For paperboard	Total	For paper	For paperboard	Total
2014 total	5,930,345	11,161,119	17,091,464	13,673	52,343	66,016	1,780	50,977	52,757	1,611,046	290,573	1,901,619	8,379	38,803	47,182
2015 total	5,747,843	11,236,234	16,984,077	12,880	51,490	64,370	1,978	49,184	51,162	1,571,434	280,115	1,851,549	8,083	39,283	47,366
Ratio of the before year	96.9	100.7	99.4	94.2	98.4	97.5	111.1	96.5	97.0	97.5	96.4	97.4	96.5	101.2	100.4
Proportion	33.8	66.2	100.0	20.0	80.0	100.0	3.9	96.1	100.0	84.9	15.1	100.0	17.1	82.9	100.0
2015 Dec.	476,284	910,988	1,387,272	1,075	3,857	4,932	147	4,329	4,476	132,158	21,480	153,638	737	3,113	3,850
2016 Jan.	458,923	856,361	1,315,284	1,144	4,198	5,342	186	3,624	3,810	121,541	21,744	143,285	655	3,053	3,708
Feb.	450,635	902,203	1,352,838	1,098	4,362	5,460	172	3,968	4,140	123,699	24,381	148,080	744	3,066	3,810
Mar.	478,556	996,946	1,475,502	931	4,658	5,589	140	4,272	4,412	133,220	23,189	156,409	716	3,472	4,188
Apr.	458,397	969,564	1,427,961	1,053	4,334	5,387	174	3,952	4,126	127,666	23,273	150,939	738	2,782	3,520
May	477,451	895,725	1,373,176	1,037	4,362	5,399	144	4,020	4,164	124,604	23,268	147,872	715	3,283	3,998
Jun.	467,791	981,455	1,449,246	964	4,495	5,459	158	4,093	4,251	126,755	24,384	151,139	737	3,618	4,355
Jul.	438,152	1,015,362	1,453,514	1,079	4,600	5,679	135	4,162	4,297	123,104	24,116	147,220	663	3,424	4,087
Aug.	473,808	898,629	1,372,437	1,039	3,848	4,887	165	4,114	4,279	128,630	22,269	150,899	649	2,886	3,535
Sep.	460,734	1,002,394	1,463,128	1,056	4,584	5,640	190	4,569	4,759	131,342	26,328	157,670	751	2,953	3,704
Oct.	472,833	1,054,262	1,527,095	1,145	4,797	5,942	132	4,760	4,892	132,029	25,911	157,940	673	3,375	4,048
Nov.	427,658	991,548	1,419,206	896	4,527	5,423	140	4,364	4,504	129,058	25,692	154,750	775	3,585	4,360
Dec.	465,723	936,320	1,402,043	1,038	4,029	5,067	126	3,957	4,083	130,161	21,175	151,336	655	3,188	3,843
2016 total	5,530,661	11,500,769	17,031,430	12,480	52,794	65,274	1,862	49,855	51,717	1,531,809	285,730	1,817,539	8,471	38,685	47,156
Ratio of the before year	96.2	102.4	100.3	96.9	102.5	101.4	94.1	101.4	101.1	97.5	102.0	98.2	104.8	98.5	99.6
Proportion	32.5	67.5	100.0	19.1	80.9	100.0	3.6	96.4	100.0	84.3	15.7	100.0	18.0	82.0	100.0

Year, Mon.	Quires woody paper printed			Old newspaper			Old magazines			Old corrugated containers			Box board cuttings		
	For paper	For paperboard	Total	For paper	For paperboard	Total	For paper	For paperboard	Total	For paper	For paperboard	Total	For paper	For paperboard	Total
2014 total	108,802	13,879	122,681	3,812,035	258,952	4,070,987	368,562	1,625,165	1,993,727	2,146	8,446,621	8,448,767	3,922	383,806	387,728
2015 total	95,930	13,976	109,906	3,700,861	241,211	3,942,072	349,159	1,580,826	1,929,985	1,456	8,615,982	8,617,438	6,062	364,167	370,229
Ratio of the before year	88.2	100.7	89.6	97.1	93.1	96.8	94.7	97.3	96.8	67.8	102.0	102.0	154.6	94.9	95.5
Proportion	87.3	12.7	100.0	93.9	6.1	100.0	18.1	81.9	100.0	0.0	100.0	100.0	1.6	98.4	100.0
2015 Dec.	6,407	1,144	7,551	305,870	19,637	325,507	29,432	127,231	156,663	121	700,588	700,709	337	29,609	29,946
2016 Jan.	7,141	1,173	8,314	297,944	18,629	316,573	29,802	116,478	146,280	96	658,624	658,720	414	28,838	29,252
Feb.	6,729	1,231	7,960	288,129	20,906	309,035	29,515	125,966	155,481	117	686,415	686,532	432	31,908	32,340
Mar.	7,157	1,310	8,467	305,818	22,485	328,303	29,908	145,041	174,949	170	758,998	759,168	496	33,521	34,017
Apr.	8,840	1,301	10,141	290,515	20,730	311,245	28,578	138,735	167,313	183	743,777	743,960	650	30,680	31,330
May	6,482	1,192	7,674	313,121	19,508	332,629	30,625	132,350	162,975	154	679,775	679,929	569	27,967	28,536
Jun.	7,481	1,265	8,746	302,764	22,000	324,764	28,436	141,967	170,403	153	747,632	747,785	343	32,001	32,344
Jul.	5,286	1,110	6,396	280,189	21,617	301,806	27,130	137,122	164,252	110	785,900	786,010	456	33,311	33,767
Aug.	7,841	1,128	8,969	306,816	18,837	325,653	28,131	120,835	148,966	118	699,020	699,138	419	25,692	26,111
Sep.	7,436	1,315	8,751	293,728	22,093	315,821	25,584	138,779	164,363	207	769,268	769,475	440	32,505	32,945
Oct.	7,664	1,269	8,933	302,520	23,117	325,637	28,003	146,875	174,878	176	811,440	811,616	491	32,718	33,209
Nov.	6,918	1,217	8,135	265,534	21,777	287,311	23,728	138,583	162,311	219	758,936	759,155	390	32,867	33,257
Dec.	6,327	1,071	7,398	302,888	20,199	323,087	24,008	123,565	147,573	169	728,211	728,380	351	30,925	31,276
2016 total	85,302	14,582	99,884	3,549,966	251,898	3,801,864	333,448	1,606,296	1,939,744	1,872	8,827,996	8,829,868	5,451	372,933	378,384
Ratio of the before year	88.9	104.3	90.9	95.9	104.4	96.4	95.5	101.6	100.5	128.6	102.5	102.5	89.9	102.4	102.2
Proportion	85.4	14.6	100.0	93.4	6.6	100.0	17.2	82.8	100.0	0.0	100.0	100.0	1.4	98.6	100.0

Table 8 Trends in utilization rate & consumption of fiber stocks for paper and paperboard

(METRIC TON,%)

Year	For Stocks	Total	Paper			Paperboard							
			Proportion	Ratio of the year before	Proportion	Ratio of the year before	Proportion	Ratio of the year before					
2008	Wood pulp	11,777,567	100.0	38.0	96.7	10,878,355	92.4	59.4	97.1	899,212	7.6	7.1	92.5
	Market Pulp(DIP)	132,508	100.0	0.4	100.4	117,688	88.8	0.6	101.3	14,820	11.2	0.1	93.8
	Recovered paper	19,012,907	100.0	61.4	98.4	7,307,439	38.4	39.9	98.7	11,705,468	61.6	92.7	98.3
	Other stocks	31,455	100.0	0.1	107.3	21,128	67.2	0.1	114.4	10,327	32.8	0.1	95.3
	Total	30,954,437	100.0	100.0	97.8	18,324,610	59.2	100.0	97.8	12,629,827	40.8	100.0	97.9
2009	Wood pulp	9,855,407	100.0	36.8	83.7	9,059,086	91.9	57.7	83.3	796,321	8.1	7.2	88.6
	Market Pulp(DIP)	123,158	100.0	0.5	92.9	110,294	89.6	0.7	93.7	12,864	10.4	0.1	86.8
	Recovered paper	16,791,964	100.0	62.7	88.3	6,501,116	38.7	41.4	89.0	10,290,848	61.3	92.6	87.9
	Other stocks	26,605	100.0	0.1	84.6	18,608	69.9	0.1	88.1	7,997	30.1	0.1	77.4
	Total	26,797,134	100.0	100.0	86.6	15,689,104	58.5	100.0	85.6	11,108,030	41.5	100.0	88.0
2010	Wood pulp	10,407,274	100.0	37.4	105.6	9,568,876	91.9	59.4	105.6	838,398	8.1	7.1	105.3
	Market Pulp(DIP)	119,667	100.0	0.4	97.2	110,294	89.1	0.7	96.6	13,080	10.9	0.1	101.7
	Recovered paper	17,292,214	100.0	62.1	103.0	6,412,367	37.1	39.8	98.6	10,879,847	62.9	92.7	105.7
	Other stocks	31,079	100.0	0.1	116.8	22,680	73.0	0.1	121.9	8,399	27.0	0.1	105.0
	Total	27,850,234	100.0	100.0	103.9	16,110,510	57.8	100.0	102.7	11,739,724	42.2	100.0	105.7
2011	Wood pulp	10,007,844	100.0	36.9	96.2	9,163,177	91.6	60.3	95.8	844,667	8.4	7.1	100.7
	Market Pulp(DIP)	118,160	100.0	0.4	98.7	106,223	89.9	0.7	99.7	11,937	10.1	0.1	91.3
	Recovered paper	16,949,049	100.0	62.5	98.0	5,915,577	34.9	38.9	92.3	11,033,472	65.1	92.7	101.4
	Other stocks	30,678	100.0	0.1	98.7	20,913	68.2	0.1	92.2	9,765	31.8	0.1	116.3
	Total	27,105,731	100.0	100.0	97.3	15,205,890	56.1	100.0	94.4	11,899,841	43.9	100.0	101.4
2012	Wood pulp	9,592,332	100.0	36.2	95.8	8,785,456	91.6	58.8	95.9	806,876	8.4	7.0	95.5
	Market Pulp(DIP)	106,048	100.0	0.4	89.7	97,366	91.8	0.7	91.7	8,682	8.2	0.1	72.7
	Recovered paper	16,770,075	100.0	63.3	98.9	6,036,751	36.0	40.4	102.0	10,733,324	64.0	92.9	97.3
	Other stocks	32,713	100.0	0.1	106.6	22,985	70.3	0.2	109.9	9,728	29.7	0.1	99.6
	Total	26,501,168	100.0	100.0	97.8	14,942,558	56.4	100.0	98.3	11,558,610	43.6	100.0	97.1
2013	Wood pulp	9,593,050	100.0	36.0	100.0	8,817,850	91.9	58.9	100.4	775,200	8.1	6.6	96.1
	Market Pulp(DIP)	103,750	100.0	0.4	97.8	96,599	93.1	0.6	99.2	7,151	6.9	0.1	82.4
	Recovered paper	16,933,920	100.0	63.5	101.0	6,039,007	35.7	40.3	100.0	10,894,913	64.3	93.2	101.5
	Other stocks	30,758	100.0	0.1	94.0	21,823	71.0	0.1	94.9	8,935	29.0	0.1	91.8
	Total	26,661,478	100.0	100.0	100.6	14,975,279	56.2	100.0	100.2	11,686,199	43.8	100.0	101.1
2014	Wood pulp	9,694,802	100.0	36.0	101.1	8,890,906	91.7	59.5	100.8	803,896	8.3	6.7	103.7
	Market Pulp(DIP)	100,324	100.0	0.4	96.7	94,716	94.4	0.6	98.1	5,608	5.6	0.0	78.4
	Recovered paper	17,091,464	100.0	63.5	100.9	5,930,345	34.7	39.7	98.2	11,161,119	65.3	93.2	102.4
	Other stocks	31,500	100.0	0.1	102.4	22,668	72.0	0.2	103.9	8,832	28.0	0.1	98.8
	Total	26,918,090	100.0	100.0	101.0	14,938,635	55.5	100.0	99.8	11,979,455	44.5	100.0	102.5
2015	Wood pulp	9,466,078	100.0	35.6	97.6	8,694,768	91.9	59.7	97.8	771,310	8.1	6.4	95.9
	Market Pulp(DIP)	107,700	100.0	0.4	107.4	101,865	94.6	0.7	107.5	5,835	5.4	0.0	104.0
	Recovered paper	16,984,077	100.0	63.9	99.4	5,747,843	33.8	39.5	96.9	11,236,234	66.2	93.5	100.7
	Other stocks	31,270	100.0	0.1	99.3	22,783	72.9	0.2	100.5	8,487	27.1	0.1	96.1
	Total	26,589,125	100.0	100.0	98.8	14,567,259	54.8	100.0	97.5	12,021,866	45.2	100.0	100.4
2016	Wood pulp	9,520,888	100.0	35.6	100.6	8,764,419	92.1	60.7	100.8	756,469	7.9	6.2	98.1
	Market Pulp(DIP)	128,316	100.0	0.5	119.1	122,812	95.7	0.9	120.6	5,504	4.3	0.0	94.3
	Recovered paper	17,031,430	100.0	63.8	100.3	5,530,661	32.5	38.3	96.2	11,500,769	67.5	93.7	102.4
	Other stocks	30,999	100.0	0.1	99.1	22,631	73.0	0.2	99.3	8,368	27.0	0.1	98.6
	Total	26,711,633	100.0	100.0	100.5	14,440,523	54.1	100.0	99.1	12,271,110	45.9	100.0	102.1

Table 9 Trends in production of paper & paperboard

(METRIC TON, %)

Year \ Grades	2011		2012		2013		2014		2015		2016	
	Production	Ratio of the year before	Production	Ratio of the year before	Production	Ratio of the year before	Production	Ratio of the year before	Production	Ratio of the year before	Production	Ratio of the year before
Newsprint	3,210,695	95.9	3,253,556	101.3	3,218,530	98.9	3,133,715	97.4	2,984,681	95.2	2,905,765	97.4
Printing and communication paper	8,765,241	91.8	8,419,795	96.1	8,576,456	101.9	8,491,333	99.0	8,384,386	98.7	8,308,816	99.1
Wrapping paper	900,630	99.6	871,372	96.8	879,771	101.0	905,397	102.9	891,164	98.4	877,241	98.4
Sanitary paper	1,779,807	99.3	1,766,850	99.3	1,746,965	98.9	1,767,104	101.2	1,765,656	99.9	1,807,252	102.4
Miscellaneous paper	789,642	99.4	755,592	95.7	759,727	100.5	820,829	108.0	803,843	97.9	806,591	100.3
Paper total	15,446,015	94.3	15,067,165	97.5	15,181,449	100.8	15,118,378	99.6	14,829,730	98.1	14,705,665	99.2
Liner and corrugating medium	8,811,061	101.9	8,637,378	98.0	8,805,424	101.9	9,095,665	103.3	9,186,608	101.0	9,363,547	101.9
White paperboard	1,542,198	101.6	1,470,276	95.3	1,449,215	98.6	1,444,780	99.7	1,423,975	98.6	1,435,433	100.8
Patent coated paperboard	154,236	99.1	144,032	93.4	147,550	102.4	148,169	100.4	145,956	98.5	140,877	96.5
Building board	202,070	107.5	206,379	102.1	213,622	103.5	214,246	100.3	202,582	94.6	198,436	98.0
Other paperboard	453,706	96.9	431,662	95.1	443,352	102.7	457,282	103.1	439,215	96.0	430,979	98.1
Paperboard total	11,163,271	101.7	10,889,727	97.5	11,059,163	101.6	11,360,142	102.7	11,398,336	100.3	11,569,272	101.5
Total	26,609,286	97.2	25,956,892	97.5	26,240,612	101.1	26,478,520	100.9	26,228,066	99.1	26,274,937	100.2

Year \ Grades	2011		2012		2013		2014		2015		2016	
	Production	Ratio of the year before	Production	Ratio of the year before	Production	Ratio of the year before	Production	Ratio of the year before	Production	Ratio of the year before	Production	Ratio of the year before
Business form paper	262,615	95.8	253,657	96.6	242,496	95.6	250,686	103.4	232,366	92.7	235,197	101.2
Plain paper copier	801,702	96.5	786,084	98.1	753,359	95.8	808,168	107.3	815,602	100.9	830,990	101.9
Total	1,064,317	96.3	1,039,741	97.7	995,855	95.8	1,058,854	106.3	1,047,968	99.0	1,066,187	101.7

Table 10 Trends in shipment of paper & paperboard

(METRIC TON, %)

Year \ Grades	2011		2012		2013		2014		2015		2016	
	Shipment	Ratio of the year before	Shipment	Ratio of the year before	Shipment	Ratio of the year before	Shipment	Ratio of the year before	Shipment	Ratio of the year before	Shipment	Ratio of the year before
Newsprint	3,192,399	95.0	3,264,154	102.2	3,208,210	98.3	3,141,770	97.9	2,995,229	95.3	2,910,042	97.2
Printing and communication paper	8,760,160	91.3	8,310,527	94.9	8,711,507	104.8	8,442,618	96.9	8,355,355	99.0	8,311,762	99.5
Wrapping paper	894,287	98.6	857,710	95.9	880,756	102.7	911,248	103.5	875,300	96.1	887,803	101.4
Sanitary paper	1,779,008	99.3	1,769,201	99.4	1,752,385	99.0	1,765,434	100.7	1,767,307	100.1	1,806,617	102.2
Miscellaneous paper	782,217	97.9	755,357	96.6	759,073	100.5	814,033	107.2	803,322	98.7	809,829	100.8
Paper total	15,408,071	93.7	14,956,949	97.1	15,311,931	102.4	15,075,103	98.5	14,796,513	98.2	14,726,053	99.5
Liner and corrugating medium	8,764,764	101.4	8,617,099	98.3	8,855,807	102.8	9,049,695	102.2	9,124,805	100.8	9,364,160	102.6
White paperboard	1,533,410	101.0	1,462,569	95.4	1,450,435	99.2	1,445,662	99.7	1,416,472	98.0	1,435,740	101.4
Patent coated paperboard	155,310	99.9	142,770	91.9	145,061	101.6	146,097	100.7	144,672	99.0	143,194	99.0
Building board	203,937	109.1	206,837	101.4	213,086	103.0	213,065	100.0	200,551	94.1	200,010	99.7
Other paperboard	454,908	97.9	431,455	94.8	445,262	103.2	451,070	101.3	436,826	96.8	432,771	99.1
Paperboard total	11,112,329	101.3	10,860,730	97.7	11,109,651	102.3	11,305,589	101.8	11,323,326	100.2	11,575,875	102.2
Total	26,520,400	96.7	25,817,679	97.4	26,421,582	102.3	26,380,692	99.8	26,119,839	99.0	26,301,928	100.7

Year \ Grades	2011		2012		2013		2014		2015		2016	
	Shipment	Ratio of the year before	Shipment	Ratio of the year before	Shipment	Ratio of the year before	Shipment	Ratio of the year before	Shipment	Ratio of the year before	Shipment	Ratio of the year before
Business form paper	262,585	94.4	248,885	94.8	246,805	99.2	246,930	100.1	230,257	93.2	237,326	103.1
Plain paper copier	807,852	96.8	769,439	95.2	766,362	99.6	807,285	105.3	805,500	99.8	823,844	102.3
Total	1,070,437	96.2	1,018,324	95.1	1,013,167	99.5	1,054,215	104.1	1,035,757	98.2	1,061,170	102.5

Table 11 Consumption rate index per ton of fiber for paper production

(METRIC TON, %)

Year	Item For	Consumption of	Paper & Paperboard	Consumotion
		fiber stock (A)	production (B)	rate index (A)/(B)
2004	Paper	17,948,930 (102.2)	18,788,241 (102.1)	0.9553
	Paperboard	13,007,905 (100.1)	12,103,373 (100.4)	1.0747
	Total	30,956,835 (101.3)	30,891,614 (101.4)	1.0021
2005	Paper	18,163,689 (101.2)	18,901,072 (100.6)	0.9610
	Paperboard	12,893,043 (99.1)	12,051,254 (99.6)	1.0699
	Total	31,056,732 (100.3)	30,952,326 (100.2)	1.0034
2006	Paper	18,337,089 (101.0)	19,065,678 (100.9)	0.9618
	Paperboard	12,887,922 (100.0)	12,041,940 (99.9)	1.0703
	Total	31,225,011 (100.5)	31,107,618 (100.5)	1.0038
2007	Paper	18,744,092 (102.2)	19,192,208 (100.7)	0.9767
	Paperboard	12,906,761 (100.1)	12,073,546 (100.3)	1.0690
	Total	31,650,853 (101.4)	31,265,754 (100.5)	1.0123
2008	Paper	18,324,610 (97.8)	18,827,707 (98.1)	0.9733
	Paperboard	12,629,827 (97.9)	11,799,748 (97.7)	1.0703
	Total	30,954,437 (97.8)	30,627,455 (98.0)	1.0107
2009	Paper	15,689,104 (85.6)	15,831,919 (84.1)	0.9910
	Paperboard	11,108,030 (88.0)	10,436,033 (88.4)	1.0644
	Total	26,797,134 (86.6)	26,267,952 (85.8)	1.0201
2010	Paper	16,110,510 (102.7)	16,386,761 (103.5)	0.9831
	Paperboard	11,739,724 (105.7)	10,976,567 (105.2)	1.0695
	Total	27,850,234 (103.9)	27,363,328 (104.2)	1.0178
2011	Paper	15,205,890 (94.4)	15,446,015 (94.3)	0.9845
	Paperboard	11,899,841 (101.4)	11,163,271 (101.7)	1.0660
	Total	27,105,731 (97.3)	26,609,286 (97.2)	1.0187
2012	Paper	14,942,558 (98.3)	15,067,165 (97.5)	0.9917
	Paperboard	11,558,610 (97.1)	10,889,727 (97.5)	1.0614
	Total	26,501,168 (97.8)	25,956,892 (97.5)	1.0210
2013	Paper	14,975,279 (100.2)	15,181,449 (100.8)	0.9864
	Paperboard	11,686,199 (101.1)	11,059,163 (101.6)	1.0567
	Total	26,661,478 (100.6)	26,240,612 (101.1)	1.0160
2014	Paper	14,938,635 (99.8)	15,118,378 (99.6)	0.9881
	Paperboard	11,979,455 (102.5)	11,360,142 (102.7)	1.0545
	Total	26,918,090 (101.0)	26,478,520 (100.9)	1.0166
2015	Paper	14,567,259 (97.5)	14,829,730 (98.1)	0.9823
	Paperboard	12,021,866 (100.4)	11,398,336 (100.3)	1.0547
	Total	26,589,125 (98.8)	26,228,066 (99.1)	1.0138
2016	Paper	14,440,523 (99.1)	14,705,665 (99.2)	0.9820
	Paperboard	12,271,110 (102.1)	11,569,272 (101.5)	1.0607
	Total	26,711,633 (100.5)	26,274,937 (100.2)	1.0166

Note : () : Ratio of the year before

Table 12 Exports of recovered paper classified by countries (2016)

Export No.1

(METRIC TON, FOB 1,000yen, %)

Grades	Unbleached Kraft paper or paperboard of corrugated paper or paperboard																	
Countries	China		Thailand		Taiwan		Vietnam		Malaysia		Korea		Indonesia		India		Total	
Year, Mon.	Qty.	Val.	Qty.	Val.	Qty.	Val.	Qty.	Val.	Qty.	Val.	Qty.	Val.	Qty.	Val.	Qty.	Val.	Qty.	Val.
2015 total	1,144,313	23,738,962	288,170	6,049,231	209,345	4,184,310	218,419	4,495,871	9,511	204,884	16,347	319,122	6,359	133,540	1,561	27,336	1,894,845	39,170,114
Ratio of the year before	94.9	104.9	93.4	105.3	65.5	70.6	84.7	93.2	317.2	377.2	91.0	98.5	16.8	17.5	165.0	186.7	87.9	97.1
Proportion	26.9	26.2	6.8	6.7	4.9	4.6	5.1	5.0	0.2	0.2	0.4	0.4	0.1	0.1	0.0	0.0	44.5	43.3
2016 Jan.	84,930	1,678,765	28,126	545,612	19,920	372,709	14,864	285,546	3,225	63,532	982	22,927					152,047	2,969,091
Feb.	82,077	1,544,223	13,248	242,195	15,212	268,585	22,356	406,435	1,054	20,670	267	8,527			45	457	134,259	2,491,092
Mar.	93,553	1,649,146	13,372	229,204	17,111	286,807	21,870	379,816			619	12,142			221	3,531	146,746	2,560,646
Apr.	92,828	1,634,865	17,214	296,025	13,296	229,588	29,252	507,983	2,146	39,368	611	12,131	92	1,178	127	1,892	155,566	2,723,030
May	96,785	1,675,542	20,674	351,512	15,779	263,731	28,819	493,306	3,261	58,654	910	16,596	304	6,076	88	1,121	166,620	2,866,538
Jun.	95,893	1,676,881	23,965	411,180	9,896	163,221	19,996	336,224	1,250	22,367	903	15,061			156	2,181	152,059	2,627,115
Jul.	90,098	1,560,959	25,993	443,906	12,436	205,249	24,486	408,929	3,947	68,263	787	13,243			22	352	157,769	2,700,901
Aug.	105,318	1,938,739	16,263	291,771	27,165	492,373	13,904	245,165	2,023	37,305	650	11,507			118	1,853	165,441	3,018,713
Sep.	80,526	1,501,946	27,348	504,396	21,238	394,099	7,769	134,486	1,039	17,926	932	17,456					138,852	2,570,309
Oct.	77,803	1,468,897	23,113	430,055	24,461	440,445	9,995	185,198	1,645	29,486	844	14,495			156	2,061	138,017	2,570,637
Nov.	83,803	1,702,034	18,548	365,624	25,614	493,823	7,976	157,566	1,294	22,865	688	12,959	205	3,958	136	1,905	138,264	2,760,734
Dec.	104,959	2,369,893	16,284	363,626	20,464	454,161	6,371	142,055	1,337	26,792	1,333	31,388	950	24,123	67	1,158	151,765	3,413,196
2016 total	1,088,573	20,401,890	244,148	4,475,106	222,592	4,064,791	207,658	3,682,709	22,221	407,228	9,526	188,432	1,551	35,335	1,136	16,511	1,797,405	33,272,002
Ratio of the year before	95.1	85.9	84.7	74.0	106.3	97.1	95.1	81.9	233.6	198.8	58.3	59.0	24.4	26.5	72.8	60.4	94.9	84.9
Proportion	26.3	25.6	5.9	5.6	5.4	5.1	5.0	4.6	0.5	0.5	0.2	0.2	0.0	0.0	0.0	0.0	43.4	41.7

Grades	Other paper or paperboard made mainly of bleached chemical pulp, not colored in the mass																					
Countries	China		Vietnam		Korea		Indonesia		Taiwan		South Africa		India		Philippines		Thailand		Bangladesh		Total	
Year, Mon.	Qty.	Val.	Qty.	Val.	Qty.	Val.	Qty.	Val.	Qty.	Val.	Qty.	Val.	Qty.	Val.	Qty.	Val.	Qty.	Val.	Qty.	Val.	Qty.	Val.
2015 total	56,699	1,440,123	13,167	333,648	15,014	420,963	813	26,064	773	21,036	126	3,573	618	20,246	818	29,906	1,074	31,046			89,154	2,328,274
Ratio of the year before	83.0	99.3	94.5	105.6	109.2	124.7	1,890.7	2,484.7	33.7	42.4	262.5	315.4	101.6	118.0	114.9	152.3	46.7	56.1			86.6	102.6
Proportion	1.3	1.6	0.3	0.4	0.4	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	2.6
2016 Jan.	2,403	52,520	1,188	29,045	1,173	29,375	179	5,306			356	9,866	78	2,452							5,377	128,564
Feb.	3,398	76,238	908	22,258	969	26,546	349	10,129	241	5,402	89	2,419	98	3,006							6,052	145,998
Mar.	5,846	127,375	1,058	25,727	1,052	27,641	43	1,224	66	2,078	534	14,189	39	1,175	102	3,885					8,740	203,294
Apr.	7,110	154,474	1,313	28,302	1,385	37,450	39	1,093	21	595	145	3,876	60	1,720	57	2,091					10,130	229,601
May	9,102	196,232	631	14,068	777	19,049	130	3,310	42	1,077			21	488							10,703	234,224
Jun.	6,357	138,935	1,423	30,077	1,462	35,164	86	1,102	222	4,417			38	1,096			49	1,898			9,637	212,689
Jul.	6,032	121,015	1,155	25,553	1,254	28,696	832	21,137	45	1,121	138	3,520	82	2,289					41	1,356	9,579	204,687
Aug.	6,839	141,241	2,399	51,094	1,468	32,526	327	8,334	133	2,717	290	7,313	40	1,096							11,496	244,321
Sep.	5,786	122,358	511	11,852	896	21,311	682	17,436	235	4,745	163	4,113	61	1,655							8,334	183,470
Oct.	4,964	106,656	1,699	34,662	773	18,176	402	10,687	231	4,557			58	1,532							8,127	176,270
Nov.	5,428	117,181	1,142	26,208	1,429	32,964	107	2,979	230	4,845	147	3,949	39	1,071							8,522	189,197
Dec.	5,446	138,012	1,627	39,801	1,620	40,735	108	3,236	576	13,133	43	1,268	81	2,408			90	3,703	41	1,500	9,632	243,796
2016 total	68,711	1,492,237	15,054	338,647	14,258	349,633	3,284	85,973	2,042	44,687	1,905	50,513	695	19,988	159	5,976	139	5,601	82	2,856	106,329	2,396,111
Ratio of the year before	121.2	103.6	114.3	101.5	95.0	83.1	403.9	329.9	264.2	212.4	1,511.9	1,413.7	112.5	98.7	19.4	20.0	12.9	18.0	—	—	119.3	102.9
Proportion	1.7	1.9	0.4	0.4	0.3	0.4	0.1	0.1	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	3.0

Note : As to the import data by grade in 2015, it contains data of the other countries.

Export No.2

(METRIC TON, FOB 1,000yen, %)

Grades	Old newspaper																	
	China		Korea		Thailand		Indonesia		Vietnum		Taiwan		Philippines		Hong Kong		Total	
Countries	Qty.	Val.	Qty.	Val.	Qty.	Val.	Qty.	Val.	Qty.	Val.	Qty.	Val.	Qty.	Val.	Qty.	Val.	Qty.	Val.
2015 total	187,039	4,371,166	128,795	2,884,147	20,599	519,676	26,675	637,879	20,635	496,362			751	25,607			384,520	8,935,614
Ratio of the year before	75.0	86.2	70.9	80.9	62.1	76.1	107.1	119.9	104.2	119.4			119.8	119.7			75.4	86.7
Proportion	4.4	4.8	3.0	3.2	0.5	0.6	0.6	0.7	0.5	0.5			0.0	0.0			9.0	9.9
2016 Jan.	9,225	204,345	8,285	183,244	1,752	44,383	494	11,469	299	6,969			33	1,113			20,088	451,523
Feb.	7,525	167,194	5,865	126,802	2,918	67,496	1,532	33,963	534	12,038			47	1,622			18,421	409,115
Mar.	17,248	366,434	5,062	105,238	3,717	83,847	366	8,048	400	9,620			68	2,271			26,861	575,458
Apr.	17,067	354,994	5,114	101,334	4,853	109,212	3,800	82,166	469	9,828	478	8,012	47	1,599			31,828	667,145
May	25,580	509,830	7,941	149,107	4,353	100,300	3,067	62,875	495	10,664			65	2,213			41,501	834,989
Jun.	24,840	506,652	8,426	163,860	2,768	59,566	851	18,237	619	12,158	245	5,026	61	2,125			37,810	767,624
Jul.	18,852	379,094	6,250	115,851	1,666	37,614	3,565	72,152	144	3,302			28	955			30,505	608,968
Aug.	18,717	385,927	5,357	105,404	3,549	78,091	508	10,493	216	5,017			62	2,118			28,409	587,050
Sep.	11,058	226,812	7,714	153,340	2,922	61,898	1,131	24,066	127	2,872	173	3,111	61	2,085			23,186	474,184
Oct.	13,189	272,659	9,884	201,810	2,131	46,641	2,608	52,161	91	2,046			67	2,215			27,970	577,532
Nov.	20,406	451,812	7,796	167,849	2,403	56,537	3,002	65,753	333	7,176			19	634			33,959	749,761
Dec.	25,677	622,958	10,464	250,035	4,477	113,256	3,050	75,787	655	14,677					191	4,877	44,514	1,081,590
2016 total	209,384	4,448,711	88,158	1,823,874	37,509	858,841	23,974	517,170	4,382	96,367	896	16,149	558	18,950	191	4,877	365,052	7,784,939
Ratio of the year before	111.9	101.8	68.4	63.2	182.1	165.3	89.9	81.1	21.2	19.4	—	—	74.3	74.0	—	—	94.9	87.1
Proportion	5.1	5.6	2.1	2.3	0.9	1.1	0.6	0.6	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	8.8	9.8

Grades	Other paper or paperboard made mainly of bleached mechanical pulp																			
	China		Korea		Indonesia		Vietnam		Taiwan		Thailand		Hong Kong		Philippines		Malaysia		Total	
Countries	Qty.	Val.	Qty.	Val.	Qty.	Val.	Qty.	Val.	Qty.	Val.	Qty.	Val.	Qty.	Val.	Qty.	Val.	Qty.	Val.	Qty.	Val.
2015 total	887,444	18,588,696	122,986	2,427,015	40,285	852,647	4,429	105,926	2,098	44,598	7,643	185,922					749	14,163	1,066,252	22,234,815
Ratio of the year before	103.7	114.8	76.0	82.4	215.3	225.5	83.9	97.8	42.1	49.0	194.0	229.5					—	—	101.4	112.2
Proportion	20.8	20.5	2.9	2.7	0.9	0.9	0.1	0.1	0.0	0.0	0.2	0.2					0.0	0.0	25.0	24.6
2016 Jan.	61,765	1,169,317	11,191	201,800	4,395	87,155	286	6,725	23	536	57	1,012							77,764	1,468,259
Feb.	56,569	1,096,714	7,203	134,705	3,379	67,336	595	13,423											68,075	1,318,661
Mar.	69,363	1,316,717	8,634	156,921	4,283	84,765					49	749							82,329	1,559,152
Apr.	86,073	1,645,091	12,045	224,456	5,806	115,465	478	10,774											104,402	1,995,786
May	86,437	1,602,461	8,824	161,701	5,986	118,419			42	1,276	319	6,977							101,608	1,890,834
Jun.	75,820	1,406,450	9,642	175,332	2,120	42,231	835	19,369	20	589	434	8,927							88,871	1,652,898
Jul.	58,497	1,049,951	9,789	169,072	8,246	153,479	500	10,739			389	8,114							77,421	1,391,355
Aug.	61,312	1,142,001	8,838	157,230	5,188	98,640	194	4,109			474	10,245							76,006	1,412,225
Sep.	56,313	1,057,592	8,833	156,941	7,821	147,058	133	2,866			335	6,460							73,435	1,370,917
Oct.	57,471	1,101,668	13,304	239,886	7,766	150,874	532	11,549	1,667	30,295	867	16,479							81,607	1,550,751
Nov.	52,743	1,068,154	11,981	227,156	5,097	104,073	458	9,952	528	8,641	194	3,973							71,001	1,421,949
Dec.	60,358	1,396,823	11,258	240,999	3,769	84,484	168	3,888	945	20,614	49	813							76,547	1,747,621
2016 total	782,721	15,052,939	121,542	2,246,199	63,856	1,253,979	4,179	93,394	3,225	61,951	3,167	63,749	305	5,999	47	1,714	24	484	979,066	18,780,408
Ratio of the year before	88.2	81.0	98.8	92.5	158.5	147.1	94.4	88.2	153.7	138.9	41.4	34.3	—	—	—	—	3.2	3.4	91.8	84.5
Proportion	18.9	18.9	2.9	2.8	1.5	1.6	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	23.7	23.5

Note : As to the import data by grade in 2015, it contains data of the other countries.

Grades	Other, including unsorted waste and scrap																								Total			
	China		Korea		Vietnam		Thailand		Indonesia		Taiwan		India		South Africa		Philippines		Malaysia		Myanmar		Hong Kong		Total			
Year, Mon.	Qty.	Val.	Qty.	Val.	Qty.	Val.	Qty.	Val.	Qty.	Val.	Qty.	Val.	Qty.	Val.	Qty.	Val.	Qty.	Val.	Qty.	Val.	Qty.	Val.	Qty.	Val.	Qty.	Val.		
2015 total	696,261	14,733,369	63,263	1,432,688	35,609	926,620	17,861	441,262	8,378	219,347	3,659	30,123	284	5,632			427	15,031	17	1,594					826,601	17,830,904	4,261,372	90,499,721
Ratio of the year before	106.3	117.1	98.0	113.6	96.8	112.0	79.6	93.8	71.3	85.9	54.6	33.4	65.4	58.0			736.2	799.1	—	—					103.4	114.8	92.3	102.5
Proportion	16.3	16.3	1.5	1.6	0.8	1.0	0.4	0.5	0.2	0.2	0.1	0.0	0.0	0.0			0.0	0.0	0.0	0.0					19.4	19.7	100.0	100.0
2016 Jan.	62,932	1,243,588	4,965	99,970	1,585	40,617	1,234	27,600	272	6,358	419	4,222							23	456					71,407	1,422,355	326,683	6,439,792
Feb.	65,967	1,321,618	5,159	110,050	2,978	70,575	477	9,941	173	4,091	72	424													74,849	1,517,155	301,656	5,882,021
Mar.	65,523	1,270,082	5,826	118,631	2,857	65,510	885	19,132	431	8,157	618	7,022			87	2,316									76,227	1,490,850	340,903	6,389,400
Apr.	76,805	1,486,141	7,259	143,976	3,500	78,352	448	10,032	1,894	37,298	559	5,517	60	579											90,525	1,761,895	392,451	7,377,457
May	87,337	1,661,417	5,315	103,938	2,686	57,833	979	20,268	2,476	43,465	170	1,037	46	739											99,009	1,888,697	419,441	7,715,282
Jun.	73,706	1,399,446	5,357	102,460	2,689	58,916	873	19,483	282	4,640	430	5,171													83,337	1,590,116	371,714	6,850,442
Jul.	59,985	1,103,070	5,186	97,180	4,134	83,345	695	13,408	709	12,452	458	2,675	46	762											71,213	1,312,892	346,487	6,218,803
Aug.	49,770	934,067	5,395	105,042	2,602	53,697	618	14,620	361	6,987	496	3,258													59,242	1,117,671	340,594	6,379,980
Sep.	50,254	952,763	3,880	74,348	1,506	36,789	992	21,502	1,295	25,218	326	2,076													58,253	1,112,696	302,060	5,711,576
Oct.	54,971	1,113,828	5,739	110,608	2,079	46,870	818	17,302	1,354	26,883	788	6,754	24	371											65,773	1,322,616	321,494	6,197,806
Nov.	54,693	1,094,732	7,783	158,998	2,033	43,685	827	18,901	123	3,281	631	6,215	44	725			75	3,246	49	1,839					66,258	1,331,622	318,004	6,453,263
Dec.	64,979	1,475,002	5,927	132,287	1,963	48,875	861	22,879			208	1,395								47	2,073	14	448		73,999	1,682,959	356,457	8,169,162
2016 total	766,922	15,055,754	67,791	1,357,488	30,612	685,064	9,707	215,068	9,370	178,830	5,175	45,766	220	3,176	87	2,316	75	3,246	72	2,295	47	2,073	14	448	890,092	17,551,524	4,137,944	79,784,984
Ratio of the year before	110.1	102.2	107.2	94.8	86.0	73.9	54.3	48.7	111.8	81.5	141.4	151.9	77.5	56.4	—	—	17.6	21.6	423.5	144.0	—	—	—	—	107.7	98.4	97.1	88.2
Proportion	18.5	18.9	1.6	1.7	0.7	0.9	0.2	0.3	0.2	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.5	22.0	100.0	100.0

Note : As to the import data by grade in 2015, it contains data of the other countries.

Table 13 Imports of recovered paper classified by countries (2016)

Import No.1

(METRIC TON, CIF 1,000yen, %)

Grades	Old corrugated containers										Unbleached kraft paper and paperboard							
	USA		Philippines		Netherland		Puerto Rico		Costa Rica		Total		Canada		USA		Total	
Countries	Qty.	Val.	Qty.	Val.	Qty.	Val.	Qty.	Val.	Qty.	Val.	Qty.	Val.	Qty.	Val.	Qty.	Val.	Qty.	Val.
2015 total	10,550	331,251									10,647	334,541	411	5,658	239	16,366	650	22,024
Ratio of the year before	79.8	85.6									80.5	86.4	—	—	105.3	145.7	260.0	180.7
Proportion	30.2	19.8									30.5	20.0	1.2	0.3			1.9	1.3
2016 Jan.	1,049	32,184					44	1,385			1,093	33,569			46	2,968	46	2,968
Feb.	1,275	36,857									1,275	36,857	24	357			24	357
Mar.	777	22,357	50	1,148							827	23,505	41	569			41	569
Apr.	984	28,450							22	485	984	28,450	48	631	20	956	68	1,587
May	753	22,065									775	22,550	47	626	47	2,647	94	3,273
Jun.	1,144	32,827			22	644					1,166	33,471	46	583			46	583
Jul.	835	22,636									835	22,636					0	0
Aug.	473	13,296	75	1,812							548	15,108	114	1,386	93	4,827	207	6,213
Sep.	1,097	31,706	124	3,033							1,221	34,739					0	0
Oct.	902	26,164			24	624					926	26,788	19	241			19	241
Nov.	926	27,773	46	1,038							972	28,811						
Dec.	980	31,824			51	1,508					1,031	33,332	48	669	46	2,605	94	3,274
2016 total	11,195	328,139	295	7,031	97	2,776	44	1,385	22	485	11,653	339,816	387	5,062	252	14,003	639	19,065
Ratio of the year before	106.1	99.1	—	—	—	—	—	—	—	—	109.4	101.6	94.2	89.5	—	—	98.3	86.6
Proportion	25.8	18.5	0.7	0.4	0.2	0.2	0.1	0.1	0.1	0.0	26.8	19.1	0.9	0.3	0.6	0.8	1.5	1.1

Grades	Other paper or paperboard made mainly of bleached chemical pulp,																							
	USA		Korea		Indonesia		Morocco		Singapore		Taiwan		China		France		Hong Kong		Italy		Dominican Republic		Total	
Countries	Qty.	Val.	Qty.	Val.	Qty.	Val.	Qty.	Val.	Qty.	Val.	Qty.	Val.	Qty.	Val.	Qty.	Val.	Qty.	Val.	Qty.	Val.	Qty.	Val.	Qty.	Val.
2015 total	21,357	1,200,767	236	10,312			240	10,973	119	6,115	138	4,905	354	18,446			50	2,591					22,796	1,266,420
Ratio of the year before	108.3	126.6	1072.7	1022.0			68.0	75.5	238.0	373.8	—	—	1,416.0	1,474.5			—	—					111.8	129.8
Proportion	61.2	71.7	0.7	0.6			0.7	0.7	0.3	0.4	0.4	0.3	1.0	1.1			0.1	0.2					65.3	75.6
2016 Jan.	1,264	65,483											50	2,583									1,314	68,066
Feb.	2,143	111,883																					2,143	111,883
Mar.	3,104	152,660	439	10,490			101	4,285											23	685			3,667	168,120
Apr.	1,930	93,982	35	1,673	358	17,084					22	760											2,345	113,499
May	2,312	109,757																					2,312	109,757
Jun.	1,960	92,184							45	2,049					50	2,429							2,055	96,662
Jul.	2,073	93,121															24	979					2,097	94,100
Aug.	2,427	109,992					24	913															2,451	110,905
Sep.	1,743	78,070																					1,743	78,070
Oct.	2,607	115,461																					2,652	116,994
Nov.	2,053	95,101							51	2,350	45	1,533									20	839	2,124	98,290
Dec.	2,767	138,368					48	1,934															2,815	140,302
2016 total	26,383	1,256,062	474	12,163	358	17,084	173	7,132	96	4,399	67	2,293	50	2,583	50	2,429	24	979	23	685	20	839	27,718	1,306,648
Ratio of the year before	123.5	104.6	200.8	117.9	—	—	72.1	65.0	80.7	71.9	48.6	46.7	14.1	14.0	—	—	48.0	37.8	—	—	—	—	121.6	103.2
Proportion	60.8	70.7	1.1	0.7	0.8	1.0	0.4	0.4	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	63.8	73.6

Note : As to the import data by grade in 2015, it contains data of the other countries.

Import No.2

(METRIC TON, CIF 1,000yen, %)

Grades	Old newspaper								Paper or paperboard made mainly of mechanical pulp			
	Italy		USA		Philippines		Total		USA		Total	
Countries	Qty.	Val.	Qty.	Val.	Qty.	Val.	Qty.	Val.	Qty.	Val.	Qty.	Val.
Year, Mon.	Qty.	Val.	Qty.	Val.	Qty.	Val.	Qty.	Val.	Qty.	Val.	Qty.	Val.
2015 total	2	206	113	3,247			374	11,619			0	5,188
Ratio of the year before	—	—	513.6	739.6			779.2	1,042.1			0.0	370.6
Proportion	0.0	0.0	0.3	0.2			1.1	0.7			0.0	0.3
2016 Jan.	50	1,425					50	1,425				
Feb.							0	0				
Mar.					10	698	10	698	30	556	30	556
Apr.	99	2,531					99	2,531				
May	150	3,633					150	3,633				
Jun.							0	0			0	
Jul.	148	3,430					148	3,430				
Aug.	150	3,725	42	1,672			192	5,397				
Sep.	294	7,423					294	7,423				
Oct.	94	2,362					94	2,362				
Nov.	148	3,792					148	3,792				
Dec.	250	6,730					250	6,730				
2016 total	1,383	35,051	42	1,672	10	698	1,435	37,421	30	556	30	556
Ratio of the year before	69150.0	17015.0	37.2	51.5	—	—	383.7	322.1	—	—	—	10.7
Proportion	3.2	2.0	0.1	0.1	0.0	0.0	3.3	2.1	0.1	0.0	0.1	0.0

Grades	Other, including unsorted waste and scrap														Total			
	Taiwan		China		USA		Malaysia		Australia		Netherland		Greece		Total		Qty.	Val.
Countries	Qty.	Val.	Qty.	Val.	Qty.	Val.	Qty.	Val.	Qty.	Val.	Qty.	Val.	Qty.	Val.	Qty.	Val.	Qty.	Val.
Year, Mon.	Qty.	Val.	Qty.	Val.	Qty.	Val.	Qty.	Val.	Qty.	Val.	Qty.	Val.	Qty.	Val.	Qty.	Val.	Qty.	Val.
2015 total			128	13,040	242	12,398	24	7,933							442	34,701	34,909	1,674,493
Ratio of the year before			145.5	132.5	605.0	930.8	66.7	89.7							241.5	166.6	102.2	119.8
Proportion			0.4	0.8	0.7	0.7	0.1	0.5							1.3	2.1	100.0	100.0
2016 Jan.			12	1,524											12	1,524	2,515	107,552
Feb.	296	10,106			14	539	4	1,137					19	760	333	12,542	3,775	161,639
Mar.	143	4,440	8	972											151	5,412	4,726	198,860
Apr.	132	4,112	8	976			2	528							142	5,616	3,638	151,683
May	115	3,658			43	1,365	4	984	21	762					183	6,769	3,514	145,982
Jun.	138	4,442	12	1,352			3	814							153	6,608	3,420	137,324
Jul.	137	4,043	8	895							20	562			165	5,500	3,245	125,666
Aug.	165	4,936					3	822							168	5,758	3,566	143,381
Sep.	95	2,755													95	2,755	3,353	122,987
Oct.	157	4,696	4	412			7	1,756							168	6,864	3,859	153,249
Nov.	93	2,920	30	2,064											123	4,984	3,367	135,877
Dec.	251	8,337													251	8,337	4,441	191,975
2016 total	1,722	54,445	82	8,195	57	1,904	23	6,041	21	762	20	562	19	760	1,944	72,669	43,419	1,776,175
Ratio of the year before	—	—	64.1	62.8	23.6	15.4	95.8	76.2	—	—	—	—	—	—	439.8	209.4	124.4	106.1
Proportion	4.0	3.1	0.2	0.5	0.1	0.1	0.1	0.3	0.0	0.0	0.0	0.0	0.0	0.0	4.5	4.1	100.0	100.0

Note : As to the import data by grade in 2015, it contains data of the other countries.

Table 14 Trends in exports of paper & paperboard

(Kg, FOB, 1,000yen)

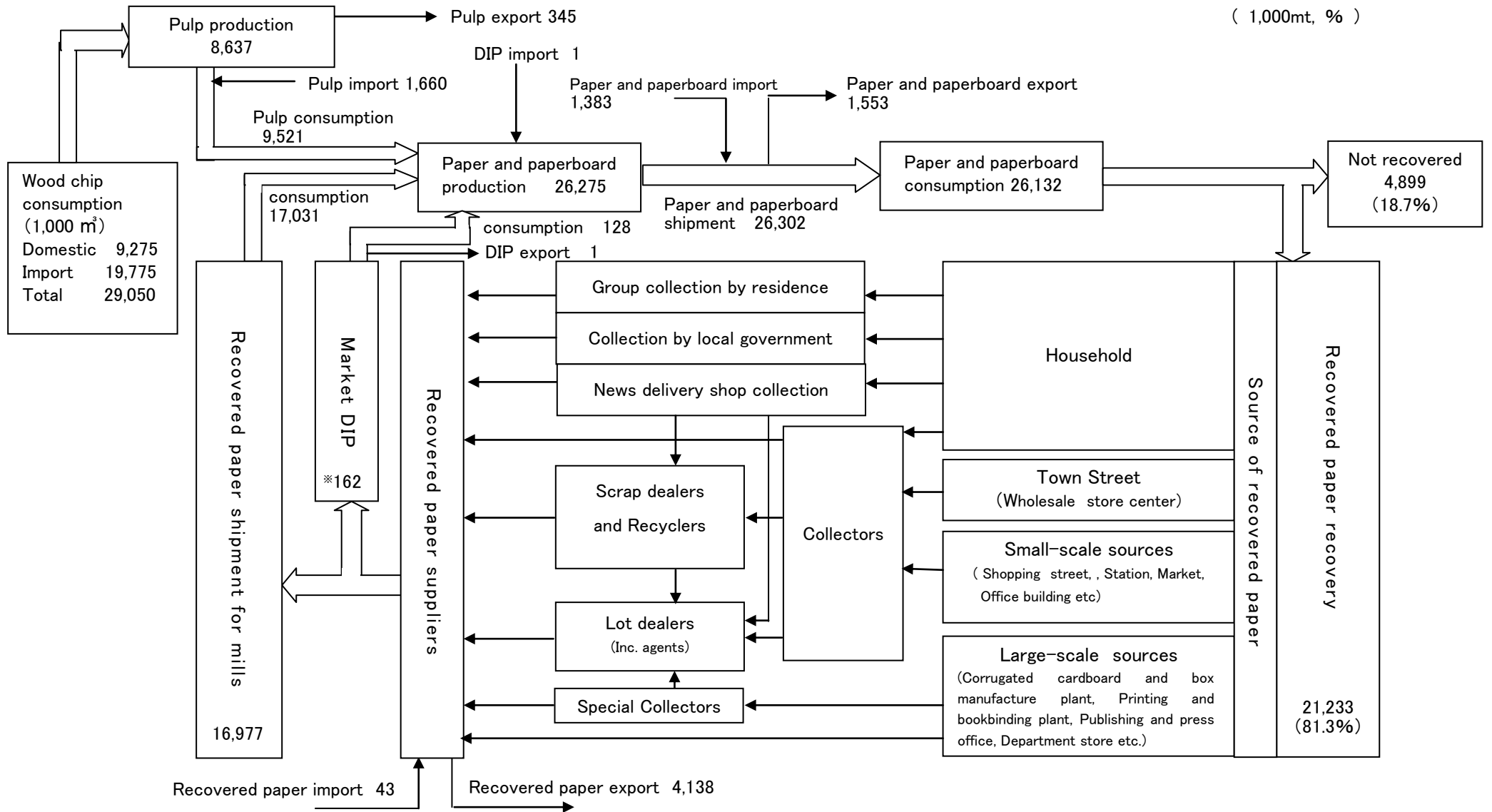
Grades	2016		2015		Ratio of the year before (%)	
	Qty.	Val.	Qty.	Val.	Qty.	Val.
Newspaper	4,902,000	219,695	5,766,000	307,337	85.0	71.5
Printing paper (fine)	182,990,807	15,930,368	136,355,980	14,074,585	134.2	113.2
Printing paper (colored)	27,382,630	3,349,275	15,056,194	2,274,323	181.9	147.3
Printing paper (thin paper)	14,544,786	1,832,630	13,561,290	1,966,353	107.3	93.2
Printing paper (other)	2,386,548	363,800	3,034,662	615,191	78.6	59.1
Other graphic purposes	25,841,149	2,688,372	36,179,667	3,791,867	71.4	70.9
Coated paper	426,079,549	34,072,808	412,757,191	39,023,846	103.2	87.3
Coated wood contained paper	144,611,994	10,084,660	123,327,726	10,512,347	117.3	95.9
Sack kraft paper	76,854,091	5,391,014	76,890,137	6,821,075	100.0	79.0
Other kraft paper	142,428,508	20,512,345	123,731,697	20,345,883	115.1	100.8
Sulphite wrapping paper	22,509	1,926	380	1,207	5923.4	159.6
Cigarette paper	1,966,356	796,914	1,014,094	498,550	193.9	159.8
Glassine paper	4,710,806	1,042,553	4,827,493	1,066,983	97.6	97.7
Tracing paper	10,626	20,216	3,655	12,587	290.7	160.6
Parchment paper, grease proof paper	790,751	286,111	508,300	198,602	155.6	144.1
Other paper	60,867,682	16,618,330	57,293,861	17,892,120	106.2	92.9
Paper Total	1,116,390,792	113,211,017	1,010,308,327	119,402,856	110.5	94.8
Kraft liner	12,752,000	644,883	9,046,000	530,981	141.0	121.5
Test liner	172,344,932	8,238,042	129,227,862	7,203,268	133.4	114.4
Corrugating medium (SCP)	41,061,000	1,346,387	33,006,000	1,353,106	124.4	99.5
Corrugating medium (other)	166,248,694	6,189,750	136,058,261	6,005,015	122.2	103.1
Coated white paperboard (CP95%)	1,708,147	221,266	3,915,612	521,911	43.6	42.4
Coated white paperboard (other)	12,930,102	1,242,361	11,876,600	1,339,072	108.9	92.8
Uncoated white paperboard (CP95%)	596,685	55,673	336,726	31,168	177.2	178.6
Uncoated white paperboard (other)	263,212	55,914	184,576	39,251	142.6	142.5
Kraft paperboard (unbleached)	3,800,664	788,701	2,929,773	894,779	129.7	88.1
Color paperboard	292,684	33,742	150,030	25,708	195.1	131.3
Other paperboards	24,864,543	4,258,702	20,311,408	3,842,396	122.4	110.8
Paperboard Total	436,862,663	23,075,421	347,042,848	21,786,655	125.9	105.9
Paper and Paperboard Total	1,553,253,455	136,286,438	1,357,351,175	141,189,511	114.4	96.5
Hand made paper and paperboard	206,712	220,095	188,990	205,354	109.4	107.2
Self-copy paper	4,262,035	720,337	3,427,410	675,087	124.4	106.7
Thermal transfer paper	189,599	158,252	67,416	126,512	281.2	125.1
Cellophane	5,827,610	3,134,416	5,197,251	3,144,863	112.1	99.7
Converted paper total	211,884,839	87,789,194	210,650,446	88,374,595	100.6	99.3
All Kind of Paper Total	1,775,624,250	228,308,732	1,576,882,688	233,715,922	112.6	97.7

Table 15 Trends in imports of paper & paperboard

(Kg, CIF, 1,000yen)

Grades	2016		2015		Ratio of the year before (%)	
	Qty.	Val.	Qty.	Val.	Qty.	Val.
Newsprint (of a width exceeding 161cm)	16,701,000	1,006,329	36,558,000	2,297,826	45.7	43.8
Newsprint (other)	7,076,000	462,704	12,110,000	786,644	58.4	58.8
Printing paper (fine)	23,256,142	2,893,180	29,225,900	3,553,911	79.6	81.4
Printing paper (copy paper)	487,378,057	50,542,678	517,455,058	57,541,411	94.2	87.8
Printing paper (thin paper)	93,253	22,939	404,395	67,937	23.1	33.8
Printing paper (other)	114,225,922	9,195,969	105,803,698	8,882,785	108.0	103.5
Coated paper	124,868,461	11,118,227	161,994,659	15,135,889	77.1	73.5
Coated wood contained paper	247,024,174	19,385,539	324,605,207	27,142,099	76.1	71.4
Sack kraft paper (unbleached)	1,832,430	164,100	1,731,921	162,959	105.8	100.7
Sack kraft paper (bleached)	822,238	92,994	771,275	96,889	106.6	96.0
Other kraft paper (unbleached)	3,042,356	623,738	4,154,269	845,135	73.2	73.8
Other kraft paper (bleached)	1,118,292	140,343	1,283,879	159,657	87.1	87.9
Tracing paper	130,078	82,420	126,517	77,229	102.8	106.7
Parchment paper, grease proof paper	7,773,879	1,766,087	7,297,075	1,634,004	106.5	108.1
Other paper	24,557,146	6,863,389	22,315,224	7,256,860	110.0	94.6
Paper Total	1,059,899,428	104,360,636	1,225,837,077	125,641,235	86.5	83.1
Kraftliner (unbleached)	38,371,372	2,841,030	41,518,528	3,310,051	92.4	85.8
Kraftliner (bleached)	1,725,586	159,060	1,830,342	166,515	94.3	95.5
Test liner	154,501	8,475	2,562,420	126,930	6.0	6.7
Corrugating medium (SCP)	401,986	21,205	448,076	27,583	89.7	76.9
Corrugating medium (other)	1,669,642	92,928	9,737,345	463,543	17.1	20.0
Coated white paperboard (CP95%)	73,999,105	10,686,818	70,451,973	10,065,330	105.0	106.2
Coated white paperboard (other)	159,113,991	12,763,891	151,270,212	12,168,242	105.2	104.9
Uncoated white paperboard (CP95%)	12,231,886	1,563,590	11,894,390	1,664,749	102.8	93.9
Uncoated white paperboard (other)	9,225,016	1,264,564	7,709,925	870,450	119.7	145.3
Kraft paperboard	12,909,133	1,272,617	14,249,575	1,560,472	90.6	81.6
Other paperboards	13,300,767	1,710,249	13,576,428	1,989,035	98.0	86.0
Paperboard Total	323,102,985	32,384,427	325,249,214	32,412,900	99.3	99.9
Paper and Paperboard Total	1,383,002,413	136,745,063	1,551,086,291	158,054,135	89.2	86.5
Hand made paper and paperboard	1,125,854	1,450,015	1,174,737	1,678,139	95.8	86.4
Paper for milk carton	174,129,764	26,196,400	187,440,760	30,820,067	92.9	85.0
Other converted paper total	106,258,695	32,905,502	110,351,151	36,078,794	96.3	91.2
All Kind of Paper Total	1,664,516,726	197,296,980	1,850,052,939	226,631,135	90.0	87.1

Fig.6 Recovered paper generation / distribution route (2016)



※Market pulp /0.8yield

Table 16 Roles of recovered paper recycling by agents

Agents by channel	recovered paper item	Sellers or generator	Buyers	Function
Collectors	Old newspaper Old magazines Old corrugated containers	Home Wholesale store Station, Market Office buildings	Scrap dealers	1. They collect recovered paper from the steady points where are in the wide distribution of towns. 2. Collectors collect without money 3. Scrap dealers buy with money.
Special Collectors (Commercial waste)	Old corrugated containers Old newspaper Kraft paper waste	Super market Department store	Recovered paper suppliers	1. They have some of the fixed routes already with contract. 2. They buy with money, but in some case, receive the fee for clean up.
Special Collectors (Industrial waste)	Cutting paper waste Old corrugated containers Box board waste	Paper converter or printer	Recovered paper suppliers	1. They have some of the fixed route already with contract. 2. They collect high quality Grades.
Scrap dealers (They recover many kinds of waste)	Old newspaper Old magazines Old corrugated containers	Collectors	Recovered paper suppliers Lot dealers	1. Assort, clean up, compacting of recovered paper. 2. In some case, they have a share of the fixed point on collection system.
Lot dealers (including agents)	All kinds of recovered paper	Collectors	Recovered paper suppliers	1. Sometimes, they carry recovered paper to the paper maker by order of Recovered paper supplier.
Recovered paper suppliers	All kinds of recovered paper	Scrap dealer Lot dealers	Paper makers	1. Sorting and bailing of recovered paper. 2. They have stock as a measure of the supply and demand control function. 3. They must be registered for the paper stock section of the paper maker's mills as his trader.

Table 17 Estimation of recovery rate by grades (2016)

(METRIC TON)

Grades	Recovery	Consumption of Paper or Paperboard	2016 recovery rate (%)	2015 recovery rate (%)
Hard white shavings, white cards	} 5,144,830	} 11,332,189	} 45.4	} 45.2
White woody shavings, white manila				
Fine paper printed (incl. coated paper)				
Quires woody printed paper				
Old magazines				
Old newspaper	4,184,086	2,841,049	147.3	148.6
Kraft browns	} 10,642,687	} 9,529,471	} 111.7	} 112.9
Old corrugated containers				
Box board cuttings	1,261,686	2,428,968	51.9	49.9
Total	21,233,289	26,131,677	81.3	81.3

Notes :

1. Recovery quantity = Shipment from papermakers + Exports - Imports + Market pulp (0.8 yield and produced with recovered paper)
2. Consumption of paper or paperboard in Japan = Shipment from papermakers + Exports - Imports
3. Consumption of paper or paperboard
 - a) The 100% recovered paper of Printing and communication paper, Bleached wrapping paper, Sanitary paper, Miscellaneous paper become of Hard white shavings, white cards, White woody shavings, white manila, Fine paper printed, Miscellaneous paper, and Old magazines, and 3% of Newsprint and Manila board become of the above grades after used.
 - b) About 97% of Newsprint become of Old newspaper after used
 - c) All of Unbleached wrapping paper (Kraft paper) become of Kraft browns after used.
 - d) All of Corrugated container become Old corrugated containers after used.
 - e) All of White paperboard (except Manila board), Core board, Building board, Other paperboard and 97% of Manila board become of Box board cuttings after used.

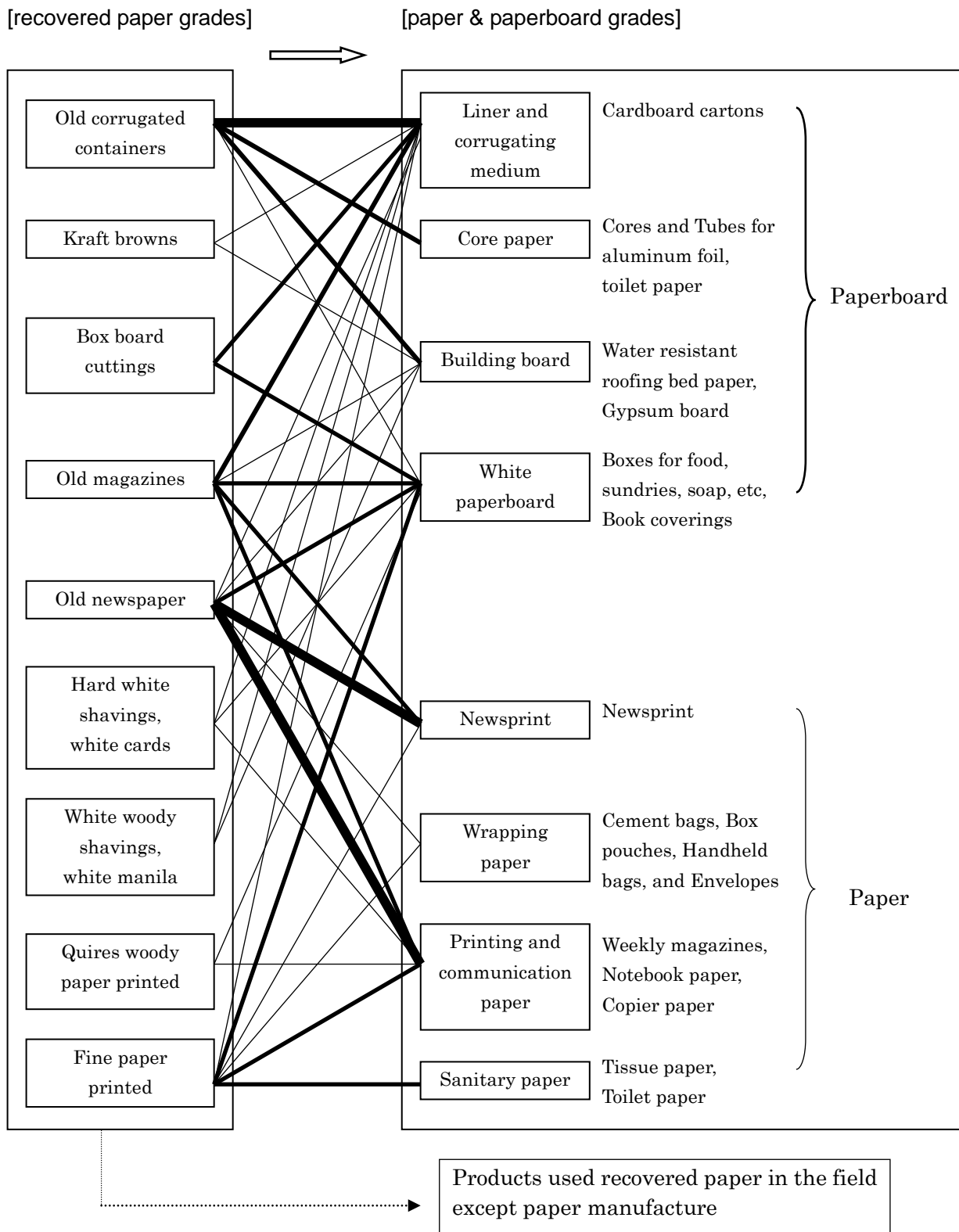
Table 18 Estimation rate of recovered paper consumption for paper production (2016)

Grades	Total	Hard white shavings, white cards	White woody shavings, white manila	Fine paper printed	Kraft browns	Quires woody paper printed	Old newspaper	Old magazines	Old corrugated containers	Box board cuttings
Newsprint	0.9628	—	—	0.0271	—	—	0.8618	0.0723	—	0.0016
Printing and communication paper	0.2065	0.0014	0.0002	0.0588	—	0.0105	0.1213	0.0141	—	0.0001
Wrapping paper	0.0751	—	—	0.0331	0.0089	—	0.0298	0.0033	—	—
Sanitary paper	0.5240	—	—	0.5235	—	0.0005	0.0000	—	—	—
Miscellaneous paper	0.0329	0.0009	—	0.0022	0.0011	—	0.0259	0.0001	0.0023	0.0005
Paper total	0.3808	0.0009	0.0001	0.1050	0.0006	0.0060	0.2450	0.0227	0.0001	0.0004
Kraft Liner	1.0409	0.0029	0.0023	0.0059	0.0036	0.0003	0.0015	0.0780	0.9270	0.0193
Test liner (Jute Liner)	1.0247	0.0026	0.0074	0.0133	0.0021	—	0.0059	0.2170	0.7466	0.0297
Recycled liner	1.0059	0.0657	0.0955	0.0075	0.0030	0.0058	0.0412	0.2157	0.5559	0.0157
Corrugating medium	1.0161	—	—	0.0001	0.0007	—	0.0009	0.0730	0.9169	0.0245
Manila paperboard	0.4640	0.0014	0.0000	0.2318	—	0.0010	0.0631	0.1648	0.0001	0.0018
White paperboard	1.0497	0.0286	0.0038	0.1356	—	0.0113	0.1691	0.6104	0.0145	0.0763
Chipboard (Colored Board)	1.1192	0.0163	0.0107	0.0129	0.0253	0.0090	0.1031	0.2851	0.1267	0.5301
Building board	1.0497	0.0052	0.0749	0.0011	—	—	0.1385	0.1149	0.6747	0.0404
Other paperboard	0.9579	0.0020	—	0.0005	0.0328	0.0028	0.0119	0.0173	0.8772	0.0134
Paperboard Total	1.0023	0.0046	0.0043	0.0250	0.0033	0.0013	0.0217	0.1408	0.7693	0.0321
Total	0.6551	0.0025	0.0020	0.0697	0.0018	0.0039	0.1464	0.0748	0.3397	0.0144

Notes : The recovered paper consumption for the paper or paperboard making by grade / The paper or paperboard production

Estimate by pulp & paper annual statistics ,monthly statistics of paper,print, plastic and rubber product by METI and investigation of recovered paper consumption by P.R.P.C

Fig.7 Use of recovered paper (2016)



Notes :

- Consumption 1,000 thousand metric ton/year and over
- Consumption 100 thousand metric ton/year and over
- Consumption 10 thousand metric ton/year and over

Table 19 Trends of quantity and composition ratio of products used recovered paper ¹ in the field except paper manufacture

(upper : Product mass(metric ton), lower : Composition ratio(percent))

product field \ year	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Solid fiberboard	29,025	34,630	24,776	18,770	22,200	21,809	20,398	18,618	15,846	15,304	13,618
	5.2	5.4	4.1	2.9	2.9	2.7	2.5	2.1	1.7	1.6	1.4
Animal bedding	7,452	6,568	5,580	5,550	3,760	3,610	4,160	4,030	4,312	4,240	3,640
	1.3	1.0	0.9	0.9	0.5	0.5	0.5	0.4	0.4	0.5	0.4
Cellulose insulation	14,637	14,825	16,119	14,866	14,942	14,667	11,765	12,538	12,803	12,790	11,587
	2.6	2.3	2.6	2.3	1.9	1.8	1.4	1.4	1.3	1.4	1.2
Molded pulp	53,145	52,009	47,120	43,652	41,187	42,243	38,090	37,127	37,407	37,010	35,577
	9.5	8.2	7.7	6.8	5.3	5.3	4.6	4.1	3.9	4.0	3.6
RPF ²	417,317	475,102	465,509	509,084	643,974	657,658	697,877	768,969	827,842	799,510	870,259
	74.3	74.5	76.2	79.8	82.9	82.9	84.0	85.2	86.3	86.1	87.5
Dehydrate assistant ³ Cover material ⁴	5,558	6,160	4,595	5,300	8,340	5,710	7,190	4,360	4,740	4,820	3,500
	1.0	1.0	0.8	0.8	1.1	0.7	0.9	0.5	0.5	0.5	0.4
Filler for building materials	31,500	45,000	41,300	35,900	35,400	40,100	46,000	47,700	44,900	43,600	44,100
	5.6	7.1	6.8	5.6	4.6	5.1	5.5	5.3	4.7	4.7	4.4
Others ⁵	3,006	3,832	5,620	4,806	6,873	7,819	5,548	9,198	10,999	11,564	12,371
	0.5	0.6	0.9	0.8	0.9	1.0	0.7	1.0	1.1	1.2	1.2
Product total mass	561,640	638,126	610,619	637,928	776,675	793,616	831,028	902,540	958,849	928,838	994,652
Total mass of used recovered paper	270,369	285,543	252,686	242,825	286,949	233,492	298,732	287,638	283,929	274,715	292,908
Ratio of used recovered paper ⁶	48.1	44.7	41.4	38.1	36.9	29.4	35.9	31.9	29.6	29.6	29.4

Notes : 1 : include wastepaper

2 : Refuse Paper & Plastic Fuel

3 : Assistant which dehydrates drainage and sewage

4 : Material which covers waste in landfill

5 : Packaging protection, Deodorant, Paper clay, Oil and Liquid absorb material, Highway seeding and so on

6 : (Total mass of used recovered paper / Product total mass) × 100

Table20 The list of Japanese standard qualities of recovered paper

Paper Recycling Promotion Center
 Enacted: March, 1979
 Revised: Jun. 15, 2000
 Revised: Sept. 30, 2004
 Revised: Sept. 29, 2008
 Revised: Apr. 22, 2010
 Revised: Jan. 29, 2015
 Revised: May. 26, 2016

Statistical Group	No.	Grade	Description
Hard white shavings, white card	1	White shavings	Shavings or sheets of white unprinted wood-free paper collected from bookbinders, printers, and sheet cutting facilities.
	2	Cream shavings	Shavings or sheets of cream-colored unprinted wood-free paper collected from bookbinders, printers, and sheet cutting facilities.
	3	Ruled-paper shavings	Shavings or sheets of white or cream-colored unprinted wood-free paper with red or blue ruling or register marks, collected from bookbinders, printers, and sheet cutting facilities.
White woody shavings, white manila	4	High-grade white wood-containing shavings	Shavings or sheets of white unprinted high-grade wood-containing paper collected from bookbinders, printers, and sheet cutting facilities.
	5	White wood-containing shavings	Shavings or sheets of white unprinted groundwood paper collected from bookbinders, printers, and newspaper printing plants.
Fine paper printed (incl. coated paper)	6	White ledger	White wood-free paper printed with black ink.
	7	Color ledger	White wood-free uncoated or coated paper printed in color.
	8	Wood-free shavings with partial color print	Shavings of white uncoated or coated wood-free paper, some of which is color printed, collected from bookbinders and printers.
	9	Coated white shavings	Shavings or sheets of unprinted coated paper collected from bookbinders and printers.
	10	Fliers	high-grade wood-containing white paper, etc.
	11	Polycoated milk carton stock	Washed used household polycoated beverage cartons, and shavings and sheets of industrially generated polycoated milk carton board, with no aluminum content.
	12	Sorted office paper	Paper and paper products from businesses, consisting primarily of loose black-printed or color-printed paper and copier paper.

Statistical Group	No.	Grade	Description
Quires woody paper printed	13	High-grade color-printed wood-containing shavings	Shavings of high-grade wood-containing white paper printed in various colors, collected from bookbinders and printers.
	14	Color-printed wood-containing shavings	Shavings of groundwood paper printed in various colors, collected from bookbinders and printers.
	15	High-grade wood-containing waste	Sheets of high-grade wood-containing paper, black-printed or color-printed, and groundwood paper collected from bookbinders and printers.
Old newspaper	16	Old newspaper	Old newspapers and Inserts collected from residences, businesses, public offices, etc.
Old magazines	17	Old magazines	Bound papers such as magazines, books, returned and remaindered books, user's manuals (including brochures), and booklets (pamphlet, catalogues and guidebooks, etc.) collected from residences, businesses, and public offices, etc.
Kraft browns	18	New brown kraft cuttings, unprinted brown kraft	Cuttings and sheets of unprinted brown kraft paper collected from kraft paper sack factories.
	19	Used brown kraft sacks	Used brown kraft sacks for rice, wheat, etc.
	20	Kraft lined corrugated containers	Kraft corrugated cuttings and old kraft corrugated containers (Comprised mainly of imports), Unbleached six pack beer carrier, etc.
Old corrugated containers	21	Old corrugated containers	Old corrugated containers collected from businesses, residences, etc.
	22	New Double-lined kraft corrugated cuttings	New corrugated cuttings and sheets from packaging products factories.
Box board cuttings	23	Mill wrappers	Used wrapping for paper and paperboard.
	24	White paperboard cuttings	Cuttings and die cuttings of white paperboard, chipboard, etc. collected from carton makers.
	25	Chipboard cuttings (Carton)	Old cartons from businesses, etc.
	26	Sorted residential old paper and paperboard	Paper, paperboard, and products thereof, collected from residences, exclusive of (separated from) old newspaper, old magazines, old corrugated containers and milk cartons.

Table21 Trends in price of recovered papers

(Yen/Ton , pressed)

Year, Mon.	White shavings	White wood-containing shavings *	White ledger *	Color ledger *	Old newspaper	Old magazines	Old corrugated containers
2013 Jan	33,000~39,000	22,000~38,000	17,000~18,000	13,000~14,000	14,000	12,000	13,000~14,000
Feb	33,000~39,000	22,000~38,000	17,000~18,000	13,000~14,000	14,000	12,000	13,000~14,000
Mar	33,000~39,000	22,000~38,000	17,000~18,000	13,000~14,000	14,000	12,000	13,000~14,000
Apr	33,000~39,000	22,000~38,000	17,000~18,000	13,000~14,000	14,000	12,000	13,000~14,000
May	33,000~39,000	22,000~38,000	17,000~18,000	13,000~14,000	14,000	12,000	13,000~14,000
Jun	33,000~39,000	22,000~38,000	17,000~18,000	13,000~14,000	14,000	12,000	13,000~14,000
Jul	33,000~39,000	22,000~38,000	17,000~18,000	13,000~14,000	14,000	12,000	13,000~14,000
Aug	33,000~39,000	22,000~38,000	19,000~20,000	15,000~16,000	14,000	12,000	13,000~15,000
Sep	33,000~39,000	22,000~38,000	19,000~20,000	15,000~16,000	14,000	12,000	15,000
Oct	33,000~39,000	22,000~38,000	19,000~20,000	15,000~16,000	14,000	12,000	15,000
Nov	33,000~39,000	22,000~38,000	19,000~20,000	15,000~16,000	14000~	12000~	15,000~16,000
Dec	33,000~39,000	22,000~38,000	19,000~20,000	15,000~16,000	14000~	12000~	15,000~16,000
2014 Jan	33,000~39,000	22,000~38,000	19,000~20,000	15,000~16,000	14,000~	12,000~	15,000~16,000
Feb	33,000~39,000	22,000~38,000	19,000~20,000	15,000~16,000	14,000~	12,000~	15,000~16,000
Mar	33,000~39,000	22,000~38,000	19,000~20,000	15,000~16,000	14,000~	12,000~	15,000~16,000
Apr	33,000~39,000	22,000~38,000	19,000~20,000	15,000~16,000	14,000~	12,000~	15,000~16,000
May	33,000~39,000	22,000~38,000	19,000~20,000	15,000~16,000	14,000~	12,000~	15,000~16,000
Jun	33,000~39,000	22,000~38,000	19,000~20,000	15,000~16,000	14,000~	12,000~	15,000
Jul	33,000~39,000	22,000~38,000	19,000~20,000	15,000~16,000	14,000~	12,000~	15,000
Aug	33,000~39,000	22,000~38,000	19,000~20,000	15,000~16,000	14,000~	12,000~	15,000
Sep	33,000~39,000	22,000~38,000	19,000~20,000	15,000~16,000	14,000~	12,000~	15,000
Oct	33,000~39,000	22,000~38,000	19,000~20,000	15,000~16,000	14,000~	12,000~	15,000
Nov	33,000~39,000	22,000~38,000	19,000~20,000	15,000~16,000	14,000~	12,000~	15,000
Dec	33,000~39,000	22,000~38,000	19,000~20,000	15,000~16,000	14,000~	12,000~	15,000
2015 Jan	33,000~39,000	22,000~38,000	19,000~20,000	15,000~16,000	14,000~	12,000~	15,000
Feb	33,000~39,000	22,000~38,000	19,000~20,000	15,000~16,000	14,000~	12,000~	15,000
Mar	33,000~39,000	22,000~38,000	19,000~20,000	15,000~16,000	14,000~	12,000~	15,000
Apr	33,000~39,000	22,000~38,000	19,000~20,000	15,000~16,000	14,000~	12,000~	15,000
May	33,000~39,000	22,000~38,000	19,000~20,000	15,000~16,000	14,000~	12,000~	15,000
Jun	33,000~39,000	22,000~38,000	19,000~20,000	15,000~16,000	14,000~	12,000~	15,000
Jul	33,000~39,000	22,000~38,000	19,000~20,000	15,000~16,000	14,000~	12,000~	15,000
Aug	33,000~39,000	22,000~38,000	19,000~20,000	15,000~16,000	14,000~	12,000~	15,000
Sep	33,000~39,000	22,000~38,000	19,000~20,000	15,000~16,000	14,000~	12,000~	15,000
Oct	33,000~39,000	22,000~38,000	19,000~20,000	15,000~16,000	14,000~	12,000~	15,000
Nov	33,000~39,000	22,000~38,000	19,000~20,000	15,000~16,000	14,000~	12,000~	15,000
Dec	33,000~39,000	22,000~38,000	19,000~20,000	15,000~16,000	14,000~	12,000~	15,000
2016 Jan	33,000~39,000	22,000~38,000	19,000~20,000	15,000~16,000	14,000~	12,000~	15,000
Feb	33,000~39,000	22,000~38,000	19,000~20,000	15,000~16,000	14,000~	12,000~	15,000
Mar	33,000~39,000	22,000~38,000	19,000~20,000	15,000~16,000	14,000~	12,000~	15,000
Apr	33,000~39,000	22,000~38,000	19,000~20,000	15,000~16,000	14,000~	12,000~	15,000
May	33,000~39,000	22,000~38,000	19,000~20,000	15,000~16,000	14,000~	12,000~	15,000
Jun	33,000~39,000	22,000~38,000	19,000~20,000	15,000~16,000	14,000~	12,000~	15,000
Jul	33,000~39,000	22,000~38,000	19,000~20,000	15,000~16,000	14,000~	12,000~	15,000
Aug	33,000~39,000	22,000~38,000	19,000~20,000	15,000~16,000	14,000~	12,000~	15,000
Sep	33,000~39,000	22,000~38,000	19,000~20,000	15,000~16,000	14,000~	12,000~	15,000
Oct	33,000~39,000	22,000~38,000	19,000~20,000	15,000~16,000	14,000~	12,000~	15,000
Nov	33,000~39,000	22,000~38,000	19,000~20,000	15,000~16,000	14,000~	12,000~	15,000
Dec	33,000~39,000	22,000~38,000	19,000~20,000	15,000~16,000	14,000~	12,000~	15,000

Notes : The table is showing paper maker's purchase prices in Tokyo except for the figures marked with * showing prices in Shizuoka area.

The paper maker's purchase prices are without the delivery cost for White shavings, Old newspaper, Old magazines and Old corrugated containers to mills.

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