Major Newspapers in the Asia-Pacific Region

MAJOR NEWSPAPERS IN THE ASIA-PACIFIC REGION

Hong Kong Oriental Daily News Apple Daily The Sun Tin Tin Daily News Sing Pao Daily	Circulation (1000) 600 407 182 170 160
China Sichuan Ribao Renmin Ribao Gongren Ribao Xin Min Wan Bao Yangcheng Wanbao Yangchen Evening News Group	8000 3000 2500 1800 1700
Taiwan Liberty Times China Times United Daily News Min Sheng Pao United Evening News	1200 1200 1200 600 500
Japan Yomiuri Shimbun Asahi Shimbun Mainichi Shimbun Nihon Keizai Shimbun Chunichi Shimbun	15000 13000 6000 5000 5000
Korea Chosun Ilbo Donga Ilbo Joongang Ilbo Hankook Ilbo Kyunghang Sinmun	2400 2200 2100 1800 1200
Malaysia Berita Harian Utusan Malaysia Sin Chew Jit Poh Star Nanyang Siang Pau	270 250 240 210 180
Indonesia Bintang Citra Bobo Aneka Ria Aku Anak Saleh	475 263 255 150 140
Philippines Abante People's Journal Remate Philippine Daily Inquirer Philippine Star	400 380 300 260 250
Thailand Thai Rath Daily News	1000 750
Singapore Straits Times Lian He Zao Bao	395 200

Customer Structure for Newsprint

CUSTOMER STRUCTURE FOR NEWSPRINT

The publishing industry for newspapers and magazines is dominated by local companies, even in countries with no restrictions on foreign investments. In less developed economies, newsprint is also used for the printing of magazines.

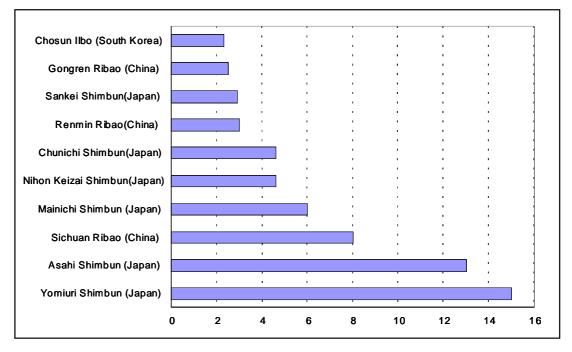
In Asia, the biggest newsprint market currently is in Japan, while the Chinese and Indian publishing markets are growing steadily. The market in Japan is the second largest in the world after the USA and, as in the US market, the Japanese market is facing tough competition from other media.

The strongest growth countries are China and India mainly due to the large population. The rapid economic growth, particularly in China, is a bonus for the publishing industry. South Korea and Taiwan are other countries with both considerable current market size and potential for further growth.

Other Asian countries can be categorised into two:

- those with reasonable market penetration, yet room to improve and strong growth underpinned by stable economic and political situation, such as Thailand and Malaysia;
- those whose market penetration is low and who have potential for rapid growth but with uncertainties due to unstable political situation, such as Indonesia and the Philippines.

Australia and New Zealand are relatively small but mature markets with limited growth.



Top 10 Daily Newspaper Titles In Asia-Pacific

Customer Structure for Printing and Writing Paper

CUSTOMER STRUCTURE FOR PRINTING AND WRITING PAPER

The printing industry is still rather fragmented with domestic players dominating different markets. However, huge Japanese printing houses have been expanding their operations in the region.

Hong Kong and Singapore are major printing centres in Asia, specialising in high quality commercial printing. Besides local publications, regional and international magazines are printed in both countries.

Main Printing Companies in Japan:

Toppan Printing Dai Nippon Kyodo Printing Tosho Printing (belongs to Toppan) Takeda Printing Koyosha Nissha Printing NTT Printec (telephone directories)

Main Printing Companies in Singapore:

Singapore Press Holdings (newspaper) Tien Wah Press Times Printers (magazines) Toppan Printing (books, magazines) Kim Hup Lee Craft Print Printwell (brochures etc)

Main Printing Companies in Korea:

Dong-A Publishing (magazines) Samhwa Printing (catalogues, magazines) Chongan Ilbo (newspapers) Chosan Ilbo (newspapers) Shin-Woo Printing Hyundai Publishing and Printing Ke Mong Sa Publishing

Main Printing Companies in Indonesia:

PT Gramedia (belongs to Kompass Group) Toppan Printing Jawa Pos (newspapers) Balai Pustaka (owned by Government, prints mostly school books etc.) Dian Rakyat

Main Printing Companies in Malaysia:

Tien Wah Press Times Publishing (magazines) Star Publications SNP Offset (SNP Corporation) Ling Wah Press Utusan Printcorp (Utusan Melayu) Unilon Packaging (packaging printer)

Main Printing Companies in the Philippines:

Printwell Brown Madonna Press (catalogues, magazines, books, yellow pages) Manila Bulletin Publishing Capitol Publishing House

Main Printing Companies in Thailand:

Allied Printers Eastern Printing Plc Siam Printing and Packaging (belongs to Toppan) Comform (magazines) Than Set Sakij Thai Watana Panich Press Udom Suksa (telephone directories)

Main Printing Companies in Taiwan:

Nan I Book Enterprise Choice Comminications United Daily News Liberty China Times

Printing Company/Country	Printing activities	Types of paper consumed	Web-offset printing machines	
Times Printeres Pte Ltd, Singapore	Regional business and other commercial magazines and telephone directory printing	LWC, coated and uncoated woodfree, SC paper and newsprint	6 Hantscho Mark and 1 Heidelberg-Harris (4 to 5 colours). There are also 4 sheet-fed and 4 digital printing.	
Times Offset (M) Sdn Bhd, Malaysia	Commercial and in-flight magazines and books	LWC, coated and uncoated woodfree	2 Hantscho Mark (4 colours)	
Choice Communications Corp., Taiwan	Magazines, books, brochures and advertisement leaflets and printed cartonboards	LWC, coated and uncoated woodfree newsprint and duplex board	2 Mitsubishi (4 and 5 colours)	
Dai Nippon Printing Co. (HK) Ltd, Hong Kong	Magazines and books	LWC, coated woodfree and newsprint	4 Mitsubishi and 1 Hantscho. There are also 16 sheet-fed.	
Shanghai Zhonghua Printing Co. Ltd, China			Presently there are 7 sheet-fed printing machines (4 to 5 colours). 2 Heidelberg web-offset (with 8 colours) will be installed with start-up by late 1999.	
Toppan Printing Co. (HK) Ltd	Printing Co. (HK) Ltd Magazines, books, calendars, hjournals, postcards		5 Mitsubishi and 2 Toshiba (4 colours). There are also 4 sheet-fed.	
Times-Ringier (HK) Ltd, Hong Kong			4 HSWO (3 Hantscho Mark, 4 to 5 colours)	
Paramount Printing Co. Ltd, Hong Kong	Books and magazines	LWC, coated and uncoated woodfree	3 Mitsubishi (5 colours) and 16 other sheet-fed	
Art Printing Works (M) Sdn Bhd, Malaysia	Business and other commercial magazines and books	LWC, MWC and coated woodfree	2 Millers, 1 Komori and 1 Heidelberg Speedmaster (4 colours)	
China Color Printing Co. Inc., Taiwan	Magazines, books, calendars, brochures and direct mails	LWC, coated and uncoated woodfree, newsprint	1 Solna C-96-HC (4 colours) and 10 other sheet-fed	
Liaoning Times Xinhua Printers (Ltd), Shenyang, China	School textbooks and other educational materials	LWC, coated and uncoated woodfree	1 Heidelberg-Harris (4 colours)	

Customer Structure for Cartonboard

CUSTOMER STRUCTURE FOR CARTONBOARD

<u>Japan</u>

Food and beverage packaging accounts for 40% of Japan's cartonboard consumption, while non-food packaging accounts for 37% and graphical applications for 23% of the market.

The Japanese folding carton industry consists of over 600 companies with around 710 plants. However, Toppan Printing and Dai Nippon are the dominant players in the market. Other major players include Jujo Central, Furubayashi Shiko,Asahi Insatsu Shiki,Kyodo Printing and Sasatoku Printing.

<u>China</u>

Driven by high economic growth, strong export oriented industries and rising affluence in China, the Chinese paper based packaging industry has enjoyed rapid development and growth. Production of folding cartons is about two billion square metres with several major producers in Guangdong area.

Hong Kong

There are hundreds of cartonboard converters in the territory. The largest converters are San Heng / Hong Hing, New Island, Starlite, Chung Tai Printing Holdings, Top Asia, Canyield Printing Company and Climax.

<u>Taiwan</u>

The major converters in Taiwan are San Ho Paper & Carton, Hou Shou Paper Box, Dah Shang Enterprise, Shia Feng Paper Container, Keyman Far-East Enterprise, Mei Yuan Paper Prod and Long Hsiang Printing.

<u>Korea</u>

The major converters in Korea are A-Star Corporation, LG Mart, Dae Young Packaging, Shin An Packaging, Dai Sei Packing, Lotte.

Main Packaging Printers in Beijing/North China

Company	Remarks
Shandong Tobacco Industry Printing	
Beijing Packaging Decoration	
Beijing Shuangyan Label Color Printing House	
Beijing No 3 Label Printing House	
Beijing Light Industry Printing House	
Beijing Yayi Color Printing	
Tianjin Art Printing House	UWF, WLC, FBB and ivory board
Beijing Yihua Packaging & Decoration Printing	
Beijing Qinglian Packaging Printing	
Beijing Color Printing House	
Beijing Label Printing House	
Qingdao Printing	WLC, FBB, CWF

Main Packaging Printers in Shanghai/East China

Company	Remarks
Shanghai Embossing Color Print General Company	Board,CWF
Shanghai No 8 Renmin Printing House	Board, SBS, CWF,CIS
Shanghai Zidan Printing Co Ltd	Duplex, ivory board, CWF, UWFDuplex,
Shanghai No 10 Renmin Printing House	ivory board, CWF, UWF
Shanghai Luode Cigarette Printing	lvory/SBS
Shanghai Cigarette Printing House	lvory/SBS
Zhejiang Ideal Packaging Group Co	Ivory board
Suzhou General Printing Factory	Ivory board
Shanghai Jielong-Pudong Color Printing Company	Ivory board
Jiangyin Liantong, Shanghai	Ivory board
Shanghai No 11 Renmin Printing House	
Shanghai No 7 Renmin Printing House	
APP Ningbo Asia Paper Converting	

Main Packaging Printers in Central and South-West China

Company	Province	Remarks
Kunming Color Printing	Yunnan	Mainly ivory board
Wuhan Chengcheng Culture (form. Changyin)	Hubei	Duplex, ivory board, CWF
Yuxi Huanqiu Color Printing	Yunnan	Mostly ivory board
Jiuxing Printing	Sichuan	Cartonboard
Wuniu Printing	Sichuan	Cartonboard
Jinye Printing	Hunan	Duplex, ivory, CWF
Jinmangguo Printing	Hunan	Duplex, ivory board
Chongqing Huacai	Chongqing	Cartonboard
Yunnan Qiaotong	Yunnan	Cartonboard

Main Packaging Printers in Guangdong/South China

Company	Paper Consumption t/a	Remarks
Hong Shing, Guangdong	Up to 150,000	Head office in HKG
Tai Lien, Guangdong	120,000	
Lee Fong Ascot, Guangdong	36,000-80,000	CWF, UWF. Head office in HKG
Hung Hing, Guangdong	60,000-80,000	Duplex. Head office in HKG. n.a.
Zhong Rong Paper Printing, Guangdong	10,000	
Shenzhen Jianian Industrial, Guangdong	8,000	Duplex/ivory
Jiuxing Printing & Packaging, Guangdong		
Guangxia, Fujian	8,000	Duplex/ivory
Foshan Color Printing, Guangdong	7,000	Duplex/ivory
Liansheng (Xiamen) Color Printing, Fujian	7,000	Duplex/ivory
Xiamen Huayang Color Printing, Fujian	7,000	Duplex board
Zhong Yi Printing, Guangdong		
Xiamen Hengxing, Fujian	7,000	Duplex
Xiamen Tunderly Color Printing, Fujian	6,000	n.a.
Humen Color Printing, Guangdong	5,000	Duplex, CWF
Chung Tai Printing	5,000	Duplex/ivory board
Ming Pao, Guangdong	n.a.	Ivory board

Customer Structure for Corrugating Materials

CUSTOMER STRUCTURE FOR CORRUGATING MATERIALS

<u>Japan</u>

The main corrugated materials end-uses in Japan are processed foods (36%), fruit/vegetables (14%), consumer goods (13%), and electrical and machinery appliances (11%).

The main corrugators are Rengo, Oji, Tomoku and Nippon Paperboard Industries.

China

There are a large number of corrugators in China, including several high capacity ones. The main corrugators are APP Goldhai, Shengtai, Xinshengda, Hop Fung, Huali, YFY Guangzhou, Lee & Man, Good Luck, Chengdu East Gate, Ideal Group, Luk Ka, Tianjin No1 Carton, Hua Li, Shanghai Stone Millenium, Guangzhou Dong Fang, Rengo Shanghai, Guangzhou Paper Box and Huaya. <u>South Korea</u>

The main corrugators are Bupyeong Corrugated, Dae Young Packing, Dongju, Dongyang, Hanwoo Packing, Jeil Industrial, Keunpung Industrial Company, Korea Export Packaging, Kwangshin Fibre, Sambo Fibre, Tailim and Wong Chang.

<u>Taiwan</u>

The Taiwan corrugated industry is dominated by corrugating plants from Cheng Loong, Yuen Foong Yu and Long Chen and Ban Yu, which consume as much as 60% to 70% of total consumption of corrugating materials.

Yuen Foong Yu has 4 corrugators – (Yuen Foong Yu and Pin Kang). Cheng Loong has 5 corrugated plants. The market share of Cheng Loong's corrugated carton in the domestic Taiwan market is 20%. Long Chen Paper, the third largest integrated paper-mill, has 3 corrugators (Pao Lung). Ban Yu paper mill has 1 corrugator (Yu Kang).

<u>Australia</u>

The main corrugators are Visy and Amcor.

Thailand

The main corrugators are Siam Kraft, Hiang Seng and Thai Packaging Industries.

<u>Singapore</u>

The corrugators are AMB Packaging, Central Package, Tat Seng Packaging, Sime Rengo, Union Container, United Paper Industries, Atlas Paper Products, Cheng Heng, Federal, Elite, Paper Box Industries, PB Packaging System and Seng Huat.

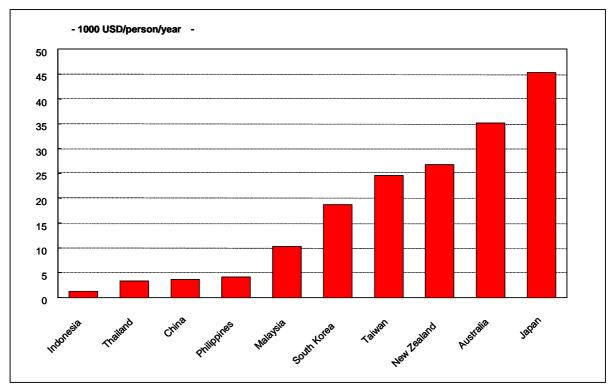
Hong Kong

Practically all Hong Kong corrugators have moved their operations to Mainland China.

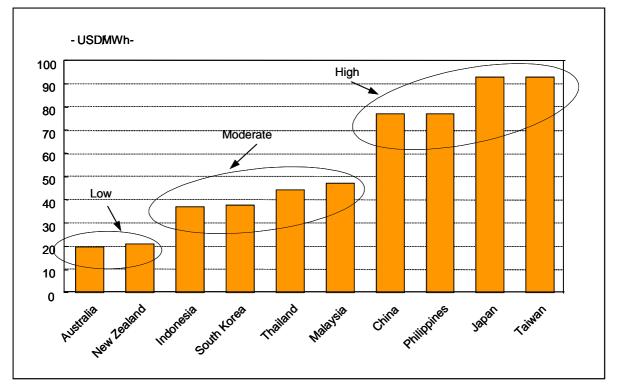
Cost Comparisons

COST COMPARISONS

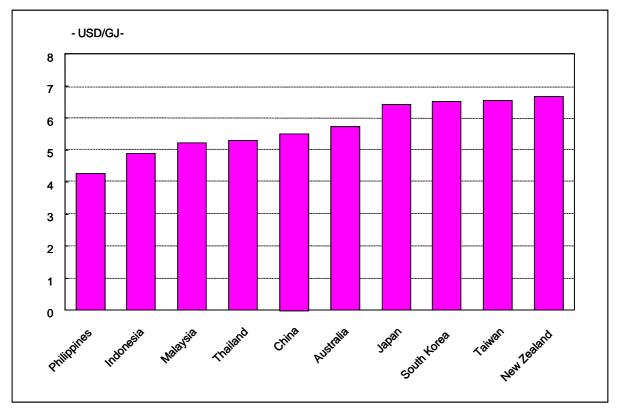
Personnel Costs 2001



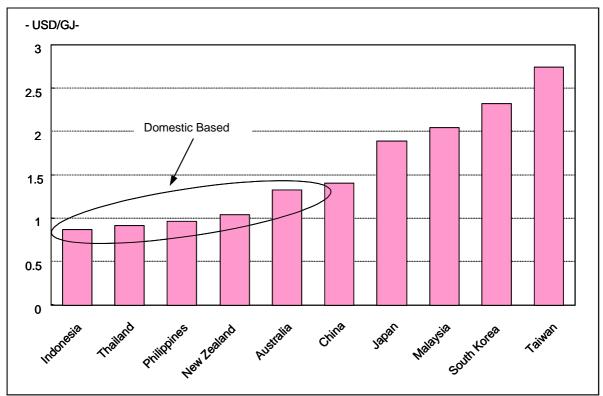
Purchased Power Costs 2001



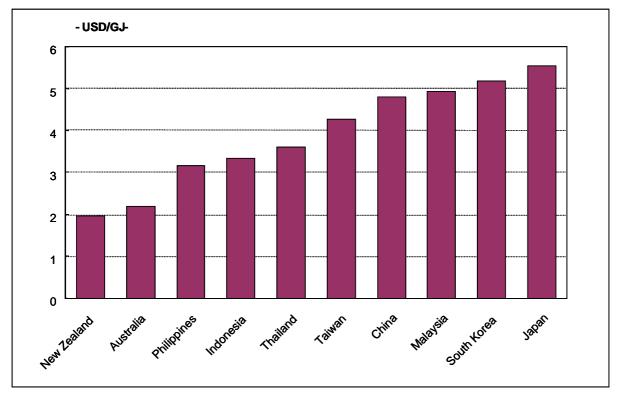
Fuel Oil Costs 2001



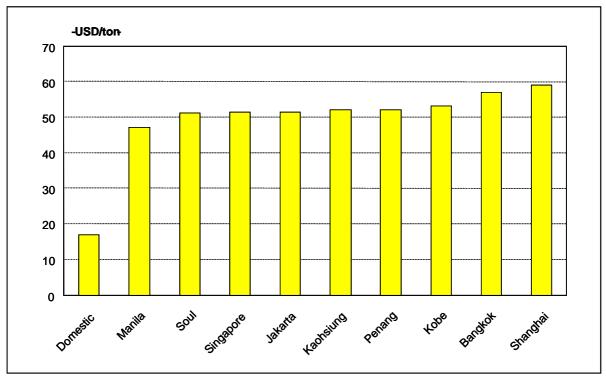
Coal Costs 2001



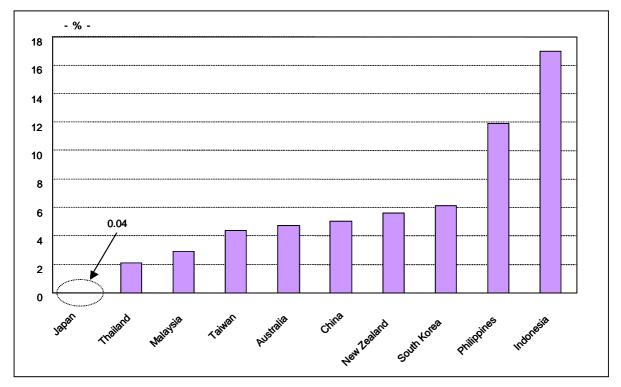
Natural Gas Costs 2001



Delivery Costs (from Sydney) 2001



12 Month Interest Rate



Australian Producers and Mill Locations

AUSTRALIAN PRODUCERS AND MILL LOCATIONS

The manufactures of pulp and paper in Australia, mill locations and main process lines are summarised below:

Newly listed compa Product class:	any, split off from Amcor in 2000 Printing and writing paper Packaging paper (from virgin fibre)		
Integration:	Owns paper merchants/distributors		
Mills:	Pulp mills (incl. waste paper) Capacities in 1000s tonnes/annum	Paper machines	Main auxiliaries
Maryvale (Victoria)	4 pulp mills Unbleached softwood kraft – 160,000 Bleached hardwood kraft – 140,000 Unbleached semi-chemical – 100,000 Waste paper	5 machines: Packaging – 60,000 Packaging – 28,000 Packaging – 240,000 Printing & Writing – 100,000 Printing & Writing – 160,000	2 x woodyards Boilers Effluent treatment Sheeting facilities Ream wrapping lines
Burnie (Tasmania)	Nil – Purchased pulp	2 machines: Printing & Writing – 70,000 Printing & Writing – 43,000	
Wesley Vale (Tasmania)	Softwood semi-chemical – 36,000 Softwood mechanical – 5,000	Printing & Writing	Coater (Coats Wesley Vale and Burnie mill product) Boilers Effluent Treatment
Shoalhaven (NSW)	Cotton linters pulp mill Deinked pulp mill	3 machines: Printing & Writing – 37,000 Printing & Writing – 14,000 Printing & Writing – 13,000	Boilers Effluent treatment Sheeting facilities
ncor Fibre Pa	ackaging		
Division of Amcor I Product class:	Limited Packaging – waste paper based Small amount of deinked pulp		
Integration:	Operates waste paper collection systems Operates corrugated box manufacturing plants Operates carton manufactured plants Operates sack making plants Operates paper/board plants		
Mills:	Pulp mills (incl. waste paper) Capacities in 1000s tonnes/annum	Paper machines	Main auxiliaries
Fairfield (Victoria)	Waste paper plant 1 deinked pulp mill – 60,000	1 machine: Packaging – 120,000	Boiler Effluent treatment
Botany (NSW)	2 waste paper plants	2 machines: Packaging – 115,000 Packaging – 110,000	Boiler Effluent treatment
Spearwood	Waste paper plant	1 machine: Packaging – 50,000	Boiler Effluent treatment
(WA)			

	Industrias		
Division of Visy			
Product class:	Packaging - waste paper based Packaging - building new virgin fibre pul	lp and paper mill at Tumut	
Integration:	Operates waste paper collection system Operates corrugated box manufacturing Operates carton manufacturing plants Operates sack making plants Operates paper/board plants		
Mills:			
	Pulp mills (incl waste paper) Capacities in 1000s tonnes/annum	Paper machines	Main auxiliaries
Coolaroo	2 Waste paper plants	2 machines:	Coating plant - 40,000
(Victoria)	1 deinked pulp mill	Packaging - 100,000	Boiler
· ·		Packaging - 100,000	Effluent treatment
Reservoir	Waste paper plant	1 machine:	Boiler
(Vic)		Packaging - 85,000	Effluent treatment
Smithfield	Waste paper plant	2 machines:	Boiler
(NSW)		Packaging - 90,000	Effluent treatment
()		Packaging - 100,000	
Brisbane	Waste paper plant	1 machine	
(Qld)		Packaging - 130,000	Boiler
			Effluent treatment
Tumut	Softwood kraft pulp mill - 200,000	1 machine:	Woodyard
(NSW)	Waste paper plant	Packaging - 240 000	Boilers
Under construct	ion		Effluent treatment
rske Skog	Australasia		
Norwegian com owned by Fletch	pany which has recently taken over the po ler Challenge	up and paper mills formerly	
	er Challenge		
owned by Fletch	er Challenge Newsprint	ical grades	
owned by Fletch Product class:	ner Challenge Newsprint Printing and writing - uncoated mechani Owns some plantations Australian and NZ mills closely integrate	ical grades ed from marketing perspective	
owned by Fletch Product class: Integration:	er Challenge Newsprint Printing and writing - uncoated mechani Owns some plantations	ical grades	Main auxiliaries
owned by Fletch Product class: Integration:	Newsprint Printing and writing - uncoated mechani Owns some plantations Australian and NZ mills closely integrate Pulp mills (incl waste paper)	ical grades ed from marketing perspective Paper machines	Main auxiliaries Woodyard
owned by Fletch Product class: Integration: Mills:	Newsprint Printing and writing - uncoated mechani Owns some plantations Australian and NZ mills closely integrate Pulp mills (incl waste paper) Capacities in 1000s tonnes/annum	ical grades ed from marketing perspective Paper machines	
owned by Fletch Product class: Integration: Mills: Albury	Newsprint Printing and writing - uncoated mechani Owns some plantations Australian and NZ mills closely integrate Pulp mills (incl waste paper) Capacities in 1000s tonnes/annum Softwood mechanical pulp mill - 200,000	ical grades ed from marketing perspective Paper machines 0 1 machine	Woodyard Effluent treatment Boilers
owned by Fletch Product class: Integration: Mills: Albury (NSW)	Newsprint Printing and writing - uncoated mechani Owns some plantations Australian and NZ mills closely integrate Pulp mills (incl waste paper) Capacities in 1000s tonnes/annum Softwood mechanical pulp mill - 200,000 Deinking plant - 140,000	ical grades ed from marketing perspective Paper machines 0 1 machine Newsprint - 220,000	Woodyard Effluent treatment Boilers Pulp drying and baling li
owned by Fletch Product class: Integration: Mills: Albury	Newsprint Printing and writing - uncoated mechani Owns some plantations Australian and NZ mills closely integrate Pulp mills (incl waste paper) Capacities in 1000s tonnes/annum Softwood mechanical pulp mill - 200,000	ical grades ed from marketing perspective Paper machines 0 1 machine Newsprint - 220,000	Woodyard Effluent treatment Boilers

50% owned by A 50% owned by K								
Product class:	Tissue; consumer and industrial produc	ts						
Integration:	consumer products at the mill site Also off-site converting facilities, particu	erates facilities for conversion tissue reels to nsumer products at the mill site o off-site converting facilities, particularly for posable nappies and non woven products						
Mills:								
	Pulp mills (incl waste paper) Capacities in 1000s tonnes/annum	Paper machines	Main auxiliaries					
Millicent								
	Bleached hardwood sulphite -30,000 Mechanical pulp - 25,000	4 machines: Tissue - total capacity 100,000	Woodyard Effluent treatment Boilers Converting equipment					
Tantanoola (Sth Australia)	Bleached softwood sulphite - 90,000		Common facilities with Millicent mill					
rter Holt Ha	rvey							
NZ based compa 50% owned by K	ny, majority owned by International Pap imberly Clark US	er US						
Product class:	Tissue; consumer and industrial produc	ts						
Integration:	Operates facilities for conversion tissue consumer products at the mill site Also off-site converting facilities, particu disposable nappies and non woven pro Closely integrate with the company's pu	larly for ducts						
Mills:	Pulp mills (incl waste paper) Capacities in 1000s tonnes/annum	Paper machines	Main auxiliaries					
Box Hill (Victoria)	Nil - purchased pulp	4 machines: Tissue - total capacity 90,000	Effluent treatment Boilers Converting equipment					
her Tissue I	Manufacturers							
Company/Mill	Pulp mills (incl waste paper) Capacities in 1000s tonnes/annum	Paper machines	Main auxiliaries					
Cosco Brisbane mill (Queensland)	Waste paper plant Deinking plant	2 machines: Tissue - Total capacity 22,000	Boiler					
Paper Convertin Brisbane mill (Queensland)	n g Company Waste paper plant	1 machine - 10,000	Boiler					
Austissue Perth Mill	Waste paper plant	1 machine - 10,000	Boiler					
(WA)		-						
(WA) Encore Tissue								

Australian Pulp and Paper Mill Locations



Top 3 Importing Countries by Pulp and Paper Grades and Estimated Consumption Growth to 2010

TOP 3 IMPORTING COUNTRIES BY PULP AND PAPER GRADES AND ESTIMATED CONSUMPTION GROWTH TO 2010

BSKP					Consumption	Forecast	Growth %	
Countries	Production	Import	Export	Consumption	2005	2010	2005	2010
Japan	40	1259	9	1290	1335	1340	0.69%	0.07%
China	140	1140	0	1280	1355	1935	1.15%	7.39%
South Korea	0	470	0	470	570	650	3.93%	2.66%
ВНКР					Consumption	Forecast	Growth %	
Countries	Production	Import	Export	Consumption	2005	2010	2005	2010
China	220	1430	0	1650	2670	4200	10.10%	9.48%
Japan	350	1215	0	1565	1665	1785	1.25%	1.40%
South Korea	410	1100	0	1510	1710	2010	2.52%	3.29%
Mechanical Pulp					Consumption	Forecast	Growth %	
Countries	Production	Import	Export	Consumption	2005	2010	2005	2010
Japan	0	475	0	475	475	475	0.00%	0.00%
China	0	360	0	360	455	505	4.80%	2.11%
Indonesia	0	114	0	114	150	220	5.64%	7.96%
							-	
Recovered Paper					Consumption		Growth %	
Countries	Production	Import	Export	Consumption	2005	2010	2005	2010
China	10500	2350	0	12850	18420	23425	7.47%	4.92%
Korea	4620	1607	7	6220	7090	8330	2.65%	3.28%
Indonesia	980	1906	6	2880	3520	4730	4.10%	6.09%
Newsprint					Consumption	Forecast	Growth %	
Countries	Production	Import	Export	Consumption	2005	2010	2005	2010
Japan	3226	613	139	3700	4040	4190	1.77%	0.73%
Taiwan	103	421	4	520	620	700	3.58%	2.46%
Hong Kong	0	394	14	380	420	460	2.02%	1.84%
Printing and Writing					Consumption	Forecast	Growth %	
Countries	Production	Import	Export	Consumption	2005	2010	2005	2010
China	10235	1303	1508	10030	14890	19180	8.22%	5.19%
Australia	575	690	75	1190	1370	1530	2.86%	2.23%
Hong Kong	0	620	175	445	530	590	3.56%	2.17%
Cartonboard					Consumption	Forecast	Growth %	
Countries	Production	Import	Export	Consumption	2005	2010	2005	2010
China	3200	1155	5	4350	5750	7700	5.74%	6.01%
Japan	2150	380	170	2360	2600	2780	1.96%	1.35%
Hong Kong	90	850	540	400	465	520	3.06%	2.26%
Corrugating Materials	Dreduction	lass a sut	Europe'		Consumption Fore		Grow	
Countries	Production	Import	Export	Consumption	2005	2010	2005	2010
China	7832	1293	25	9100	12100	14800	5.86%	4.11%
Malaysia	420	240	10	650	830	1030	5.01%	4.41%
Singapore	10	196	36	170	220	240	5.29%	1.76%

Fibre Mix Summary

WORLD AVERAGES FOR RAW MATERIAL CONSUMPTION OF DIFFERENT PAPER AND PAPERBOARD GRADES

Paper or paperboard grade	Mechanical and Semi- chemical pulp	BSKP	ВНКР	UKP	Sulphite (%)	RCP	Non-wood fibre	Pigment, additives	Total
Newsprint	51.6	6.6	1.0	0.1	2.0	36.7	0.8	1.3	100
Wood-cont. printing and writing	35.3	19.4	4.5	0	1.6	10.6	0.4	28.2	100
Woodfree printing and writing	1.2	21.3	37.2	<0.1	2.7	7.0	10.3	20.4	100
Tissue	2.9	14.2	19.3	0.5	5.0	49.2	7.5	1.4	100
Corrugated board materials	6.4	1.5	2.6	23.4	0.2	61.9	2.3	1.8	100
Cartonboards	5.2	9.8	11.5	5.8	1.1	58.3	3.9	4.3	100
Other paper and paperboard	2.3	10.7	10.5	20.5	2.8	38.7	11.3	3.8	100
TOTAL	12.6	10.7	13.0	9.7	1.8	38.4	5.2	8.7	100

Appendix 9

WASTE COLLECTION BY COUNTRIES

