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Scrap paper exports down heavily in 2020

By Ken McEntee

U.S. scrap paper exports last year decreased by 13 percent, or almost 2.5 million short tons compared to 2019, according to trade data from the U.S. Commerce Department, Bureau of the Census.

While shipments of old corrugated containers (OCC) saw the heaviest decrease in terms of tonnage - more than 1.1 million tons - pulp subs took the heaviest hit in terms of percentage, dropping by 41 percent. Pulp subs and mixed paper each saw a 21 percent drop in dollar value of the tonnage shipped - the largest of any grade category.

While tonnage declined last year, the average FAS price of the shipments was up \$9 per ton - or 6 percent - compared to 2019, to \$155.13 per short ton. The average OCC price during the year was up \$10 per ton, to \$142.03 per ton, while pulp subs saw the largest gain - 35 percent, or \$62 per ton, to an average of \$240.60 per ton.

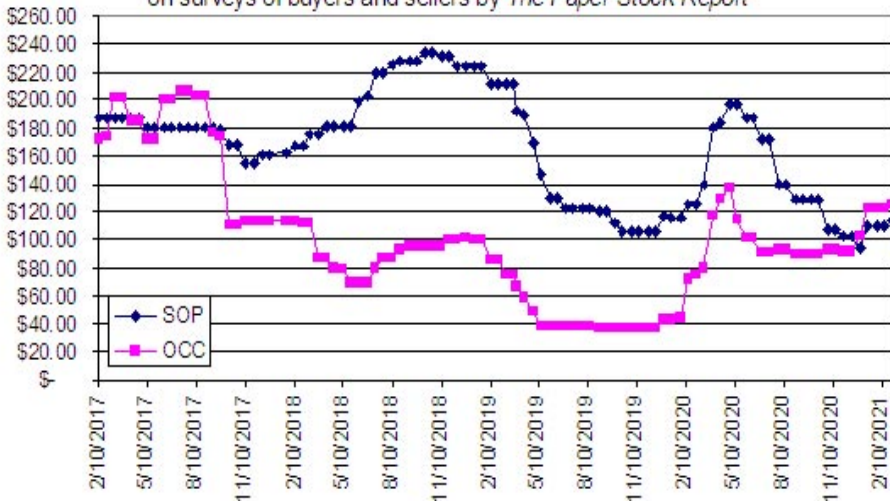
China down 1.1 million tons

Exports to China, which were banned by the Chinese government after the end of 2020, dropped 18 percent - or almost 1.1 million tons - during 2020, to a total of 4.8 million tons. That contrasted with an annual high of almost 15 million tons in

(See Exports, page 3)

OCC, SOP Prices

U.S. average national mill buying price, \$ per ton, FOB sellers dock, based on surveys of buyers and sellers by *The Paper Stock Report*



PCA to convert Mississippi mill to virgin linerboard

Packaging Corp. of America said it has discontinued production of uncoated freesheet (UFS) grades on the No. 3 paper machine at its Jackson, Ala. mill and will begin preparing for the permanent conversion of the machine to linerboard.

As previously disclosed, PCA said, in order to meet strong packaging demand and maintain appropriate inventory levels, the machine temporarily began producing linerboard in the fourth quarter of 2020 and continued producing linerboard in the first quarter of 2021. The mill will now begin preparations to permanently convert the 365,000 ton-per-year No. 3

UFS paper machine to a 700,000 ton-per-year high-performance, virgin Kraft linerboard machine, in a phased approach, over the next 36 months.

PCA said the machine will run at its current containerboard production rate for

(See PCA, page 8)

Highlights

- Current recovered paper prices
- Republic Paperboard now makes coated gysum liner

Recovered Scrap Paper Prices: Dealer/Processor Prices

These prices reflect the estimated value of recovered scrap paper accepted by or sold to paper stock dealers and/or recycling centers unless otherwise indicated. Prices are listed in dollars per short ton for loose (not baled) material in small quantities, unless otherwise noted. Negative values indicate a charge to accept the materials. Estimated prices are based on surveys of buyers and sellers and are not binding. Prices for grades marked "at generator's dock" indicate the estimated value for material picked up by a dealer from the place where material is generated. Prices for grades marked "at dealer's scale" indicate the estimated value of material brought to the dealer's plant or recycling center.

Grade	N.Y.	NewEng BOS	SEast ATL	PITTS/ CLEV	MWest CHIC	SWest Tex	L.A.	NWest SEAT
Mixed paper, at generator's dock:	-30/5	-30/5	-35/5	-35/5	-35/5	-35/5	-30/10	-20/10
Mixed office paper, generator's dock:	0/30	0/30	0/35	0/25	0/25	0/35	0/35	0/35
White ledger, at generator's dock:	25/70	25/70	30/65	35/65	35/65	35/60	20/55	35/80
Old newspaper, delivered to dealer:	-10/20	-10/20	0/20	0/20	0/20	0/30	0/20	0/20
Old corrugated containers, delivered to dealer:	10/45	10/45	10/40	10/35	10/35	10/40	15/55	15/60
Old corrugated containers, supermarket-sized bales	20/75	20/75	20/75	20/70	20/70	25/75	40/70	20/70
Old magazines, delivered to dealer:	0/50	0/50	0/40	0/40	0/40	0/50	0/50	0/45

Recovered Scrap Paper Prices: Mill Buying Prices

These figures are average prices paid by paper and board mills for the grades listed. Prices are listed in dollars per short ton, baled, FOB seller's dock (exclusive of freight), packed to PS-2017 specifications. Numbers in parenthesis are PS-2018 grade definition numbers.

Post-consumer grades:	Northeast	Southeast	Midwest	Southwest	LA	Northwest	Natl Avg	Last Issue	Last Month	Last Year
Mixed paper (54)	30/65	30/65	30/65	35/65	N/A	30/60	39.58	37.92	37.92	6.25
Sorted residential papers & news (56)	75/100	80/100	80/100	80/100	70/100	70/100	87.92	87.92	87.92	45.42
Sorted clean news (58)	110/135	115/135	110/130	115/135	100/140	100/130	120.42	120.42	120.42	86.67
Old corrugated containers (OCC) (11)	95/140	90/130	90/130	90/135	100/130	100/130	113.33	109.17	109.17	74.58
Sorted office paper (37)	110/145	110/135	110/140	110/140	110/140	110/140	125.00	123.33	123.33	125.00
White ledger, post-consumer (40)	195/220	200/215	195/210	200/220	180/200	195/230	205.00	205.00	205.00	225.00
Old magazines (10)	70/100	70/100	80/100	80/100	80/100	80/100	88.33	79.17	79.17	70.83
Industrial / Commercial grades	Northeast	Southeast	Midwest	Southwest	LA	Northwest	Natl Avg	Last Issue	Last Month	Last Year
Boxboard cuttings (4)	60/75	65/80	60/75	65/85	65/85	60/80	71.25	63.75	63.75	44.17
New double lined Kraft cuts (DLK) (13)	140/160	130/150	130/160	135/160	130/150	135/160	145.83	144.17	144.17	102.08
White news blanks (24)	210/260	230/260	220/250	230/260	200/230	200/240	232.50	232.50	232.50	200.00
Coated soft white shavings (28)	310/340	310/340	310/340	310/340	310/340	310/340	325.00	325.00	325.00	310.00
Hard white shavings (30)	360/390	340/380	345/390	345/385	350/395	350/395	368.75	365.42	365.42	380.00
White ledger, pre-consumer (41)	185/210	190/205	185/200	190/210	170/190	185/220	205.00	205.00	205.00	225.00
Coated Book Stock (43)	110/145	110/135	110/140	110/135	110/130	110/140	122.92	116.67	116.67	110.42
Coated groundwood sections (44)	80/115	80/115	70/110	80/115	90/110	80/100	95.42	95.42	95.42	76.25
Unprinted bleached sulfate (SBS) (47)	350/380	350/380	350/380	350/380	350/380	350/380	365.00	357.50	357.50	345.00
Weighted average national price							111.61	107.89	107.89	81.13

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Market

Exports

From page 1

2015. During 2015, the U.S. shipped 8 million tons of OCC alone to China - a number that decreased to 3.5 million tons last year.

Exports to India, the next largest market, were down 28 percent, or 920,000 tons in 2020, for a total of almost 2.4 million tons. As China placed restrictions, and eventually a complete ban on imported scrap paper, India was frequently mentioned as a market that would pick up some of the displaced tonnage.

The largest growth was in exports to Malaysia. Shipments to that market improved by about 183,000 tons, or 92 percent, for a total of about 383,000 tons. Shipments to Singapore were up by about 109,000 tons, from about 2,300 tons, a gain of 4,579 percent. Vietnam was another significant growth market, pulling in almost 1.4 million tons, a gain of about 169,000 tons, or 14 percent, compared to 2019.

OCC exports

During its peak years, China typically accounted for around half of all U.S. OCC exports. In 2020, it made up about 36 percent, while the next two largest markets - Vietnam and India - made up about 25 percent.

OCC exports to China last year - which were restricted to double-sorted No. 12 OCC - totaled about 3.5 million tons, an 18 percent decline, or about 787,000 tons. Vietnam imported about 1.3 million tons - a 17 percent gain - for an improvement of about 185,000 tons. OCC exports to India were down 29 percent, or about 429,000 tons, for a total of just more than 1 million tons.

Exports to major markets Indonesia and Thailand also were down sharply in 2020, while shipments to Malaysia, Singapore and Mexico saw substantial increases. Laos, which never imported a ton of OCC from the U.S. before 2019, became the 16th largest market in the world last year, pulling in about 35,000 tons, up 245

U.S. Recovered Paper Exports
2020 vs. 2019

Short Tons	2019	2020	
OCC	10,756,054	9,617,314	-11%
Deinking	1,168,967	1,168,919	0%
Pulp Subs	1,176,971	689,877	-41%
ONP	774,957	638,105	-18%
Groundwood	1,702,246	1,599,651	-6%
Mixed	2,678,355	2,108,215	-21%
Total	18,257,549	15,822,081	-13%
Value			
OCC	\$1,420,189,364	\$1,365,972,478	-4%
Deinking	\$ 255,034,053	\$ 247,745,898	-3%
Pulp Subs	\$ 209,791,302	\$ 165,982,076	-21%
ONP	\$ 102,727,235	\$ 88,829,330	-14%
Groundwood	\$ 320,060,107	\$ 294,935,926	-8%
Mixed	\$ 368,356,358	\$ 290,967,950	-21%
Total	\$2,676,158,419	\$2,454,433,658	-8%
\$ per ton			
OCC	\$ 132.04	\$ 142.03	8%
Deinking	\$ 218.17	\$ 211.94	-3%
Pulp Subs	\$ 178.25	\$ 240.60	35%
ONP	\$ 132.56	\$ 139.21	5%
Groundwood	\$ 188.02	\$ 184.38	-2%
Mixed	\$ 137.53	\$ 138.02	0%
All grades	\$ 146.58	\$ 155.13	6%

Source: U.S. Commerce Dept./The Paper Stock Report

percent compared to 2019. Meanwhile, OCC exports to Saudi Arabia plummeted 81 percent last year, from about 79,000 tons in 2019 to about 15,000 tons, representing one of the largest year-to-year declines for OCC. Another was a 96 percent drop in shipments to Guatemala, from about 33,000 tons in 2019 to about 1,300 tons.

Chemical deinking grades

Mexico, the dominant market for U.S. deinking grade exports, increased its buying by 16 percent relative to 2019. Mexico mills imported more than 750,000 tons of deinking grade fiber, a gain of more than 101,000 tons.

That improvement nearly offset reduced buying from Canada and India.

Deinking grade exports to Canada dropped 23 percent, or about 23,000 tons, to almost 79,000 tons, while shipments to India were down 60 percent, or almost

84,000 tons, to a total of almost 57,000 tons.

South Korea was the third largest market for deinking grades, with a heavy 273 percent gain from about 18,000 tons in 2019 to more than 67,000 tons in 2020.

Deinking grade shipments to Indonesia, a reasonably significant market in 2019, were down 71 percent, or almost 12,000 tons, to a total of less than 5,000 tons in 2020.

Overall, exports of deinking grades in 2020 fell a scant 47 tons below the total for 2019, a statistical dead heat.

Pulp subs

All major markets for pulp substitutes saw significant reductions in U.S. imports in 2020 relative to 2019. Overall, exports of pulp subs were down 41 percent, or nearly a half million tons in 2020.

(See Exports, page 4)

U.S. Recovered Paper Exports 2020 vs. 2019 - By grade and destination

OCC	Year 2019	Year 2020	Difference	Change					
Norway					Norway	0	204	204	
China	4,282,674	3,495,940	-786,734	-18%	South Africa	781	161	-620	-79%
Vietnam	1,117,540	1,302,819	185,280	17%	Honduras	0	139	139	
India	1,483,829	1,054,653	-429,176	-29%	Bolivia	0	124	124	
Taiwan	793,368	824,252	30,884	4%	Belarus	0	83	83	
South Korea	604,492	550,498	-53,994	-9%	Ireland	21	83	62	295%
Canada	363,341	408,804	45,463	13%	Christmas Is	0	74	74	
Mexico	239,712	383,400	143,688	60%	Oman	146	74	-73	-50%
Malaysia	101,886	345,970	244,083	240%	Costa Rica	1,134	47	-1,087	-96%
Indonesia	667,468	335,335	-332,133	-50%	France	0	19	19	
Thailand	375,887	297,334	-78,552	-21%	Anguilla	803	0	-803	-100%
Singapore	2,372	110,436	108,064	4557%	Greece	23	0	-23	-100%
Burma	101,440	66,250	-35,190	-35%	Kenya	341	0	-341	-100%
Netherlands	35,279	55,684	20,405	58%	Latvia	307	0	-307	-100%
Ecuador	39,485	49,840	10,355	26%	Morocco	50	0	-50	-100%
Germany	38,280	44,145	5,865	15%	Qatar	78	0	-78	-100%
Laos	10,002	34,459	24,456	245%	Sri Lanka	949	0	-949	-100%
Japan	53,090	31,450	-21,640	-41%	Sweden	376	0	-376	-100%
Spain	28,218	28,896	678	2%	Switzerland	146	0	-146	-100%
Italy	54,779	27,603	-27,176	-50%	Tanzania	117	0	-117	-100%
Colombia	49,822	27,504	-22,318	-45%	Uruguay	22	0	-22	-100%
Chile	10,236	19,191	8,955	87%	TOTAL	10,756,054	9,617,314	-1,138,740	-11%
Turkey	9,567	18,018	8,451	88%	Deinking	Year 2019	Year 2020	Difference	Change
Saudi Arabia	79,308	14,918	-64,390	-81%	Mexico	649,914	751,281	101,367	16%
Pakistan	26,264	14,616	-11,648	-44%	Canada	101,762	78,865	-22,898	-23%
El Salvador	3,724	10,077	6,354	171%	South Korea	18,075	67,476	49,401	273%
Argentina	29,686	9,777	-19,909	-67%	India	140,317	56,692	-83,625	-60%
Brazil	12,551	8,665	-3,886	-31%	Colombia	46,676	46,519	-157	0%
Hong Kong	2,679	8,586	5,907	221%	Netherlands	29,348	36,438	7,090	24%
Philippines	13,499	6,456	-7,043	-52%	Italy	62,689	34,615	-28,074	-45%
United Kingdom	16,024	4,749	-11,275	-70%	China	2,477	12,439	9,962	402%
Paraguay	224	4,510	4,286	1910%	Guatemala	2,114	10,883	8,769	415%
Peru	14,033	3,384	-10,649	-76%	El Salvador	13,091	8,125	-4,967	-38%
Bangladesh	8,072	2,428	-5,644	-70%	Turkey	1,756	7,833	6,078	346%
United Arab Em	14,070	2,253	-11,817	-84%	Chile	10,567	7,707	-2,860	-27%
Trin & Tobago	8,295	1,953	-6,343	-76%	Peru	1,610	7,442	5,831	362%
Egypt	11,546	1,390	-10,155	-88%	Spain	1,874	7,314	5,440	290%
Ghana	0	1,366	1,366		Vietnam	4,238	5,023	784	19%
Dominican Rep	4,006	1,307	-2,699	-67%	Indonesia	16,822	4,901	-11,922	-71%
Guatemala	32,542	1,284	-31,259	-96%	Taiwan	4,378	3,424	-954	-22%
Austria	0	1,155	1,155		Japan	2,658	3,340	682	26%
Belgium	2,922	1,102	-1,819	-62%	Ecuador	2,982	2,892	-90	-3%
Finland	210	735	525	250%	Germany	980	2,829	1,849	189%
Russia	1,772	571	-1,201	-68%	United Arab Em	6,837	2,159	-4,677	-68%
Australia	2,830	502	-2,329	-82%	Thailand	8,779	1,767	-7,013	-80%
Djibouti	0	493	493		Ghana	94	1,756	1,662	1778%
Lebanon	0	295	295		Pakistan	3,165	1,272	-1,893	-60%
Nigeria	2,838	292	-2,547	-90%	United Kingdom	733	1,079	347	47%
New Zealand	0	272	272		Belgium	7,260	815	-6,445	-89%
Denmark	266	261	-6	-2%	Argentina	281	737	457	163%
Venezuela	429	221	-208	-48%	Dominican Rep	1,051	642	-408	-39%
Panama	206	216	10	5%					

Egypt	5,710	630	-5,080	-89%	Guatemala	4,890	183	-4,707	-96%
Saudi Arabia	5,415	571	-4,844	-89%	Bahrain	0	138	138	
Bangladesh	244	450	206	84%	Malaysia	1,569	109	-1,460	-93%
Austria	0	204	204		Germany	750	99	-651	-87%
Brazil	1,762	185	-1,577	-90%	Switzerland	0	97	97	
South Africa	1,166	113	-1,053	-90%	Thailand	5,790	81	-5,709	-99%
Honduras	0	109	109		Argentina	1,725	78	-1,647	-95%
Latvia	866	108	-758	-88%	New Zealand	0	21	21	
Tunisia	163	76	-87	-53%	Belgium	705	0	-705	-100%
Sierra Leone	0	70	70		Brazil	226	0	-226	-100%
Panama	0	55	55		Dominican Rep	98	0	-98	-100%
Kenya	157	41	-117	-74%	Egypt	134	0	-134	-100%
Malaysia	108	25	-83	-77%	Finland	62	0	-62	-100%
Uruguay	0	21	21		Iceland	187	0	-187	-100%
Br Indian O Ter	48	0	-48	-100%	Kenya	102	0	-102	-100%
Bulgaria	42	0	-42	-100%	Panama	111	0	-111	-100%
Cen African Rep	1,070	0	-1,070	-100%	Qatar	292	0	-292	-100%
Djibouti	827	0	-827	-100%	Russia	22	0	-22	-100%
Lithuania	175	0	-175	-100%	Togo	21	0	-21	-100%
Nicaragua	23	0	-23	-100%	Uruguay	1,406	0	-1,406	-100%
Philippines	8,182	0	-8,182	-100%	TOTAL	1,176,971	689,877	-487,094	-41%
Sweden	55	0	-55	-100%	ONP	Year 2019	Year 2020	Difference	Change
Switzerland	426	0	-426	-100%	South Korea	124,247	169,646	45,399	37%
TOTAL	1,168,967	1,168,919	-47	0%	Mexico	136,976	120,597	-16,379	-12%
Pulp subs	Year 2019	Year 2020	Difference	Change	Indonesia	75,957	109,357	33,399	44%
India	476,687	274,417	-202,270	-42%	China	227,102	80,538	-146,564	-65%
Mexico	296,894	134,552	-162,342	-55%	India	50,448	49,816	-633	-1%
United Arab Em	87,946	62,614	-25,332	-29%	Canada	30,346	24,785	-5,561	-18%
Canada	64,441	51,255	-13,187	-20%	Vietnam	17,101	16,536	-564	-3%
Netherlands	63,452	28,457	-34,995	-55%	Thailand	30,327	10,485	-19,842	-65%
China	33,152	26,996	-6,156	-19%	United Kingdom	12,467	10,192	-2,276	-18%
Italy	29,127	16,644	-12,483	-43%	El Salvador	1,441	9,257	7,816	542%
Saudi Arabia	292	14,565	14,274	4897%	Malaysia	38,127	8,190	-29,938	-79%
Japan	16,564	13,497	-3,067	-19%	Colombia	4,937	6,127	1,190	24%
Chile	9,895	11,101	1,207	12%	Germany	4,833	5,542	708	15%
Peru	6,150	9,799	3,649	59%	Chile	304	3,147	2,844	937%
Pakistan	2,224	9,211	6,987	314%	Taiwan	937	2,332	1,395	149%
South Korea	15,248	7,667	-7,581	-50%	Pakistan	516	1,511	996	193%
El Salvador	10,277	5,926	-4,352	-42%	United Arab Em	1,518	1,459	-59	-4%
Ecuador	1,577	4,645	3,068	194%	Spain	851	906	55	6%
Colombia	14,439	4,601	-9,837	-68%	Netherlands	983	873	-110	-11%
Spain	1,218	2,660	1,442	118%	Argentina	4,462	856	-3,606	-81%
Bangladesh	0	2,438	2,438		Italy	904	776	-129	-14%
United Kingdom	1,163	2,221	1,058	91%	Ecuador	713	724	11	2%
Indonesia	15,233	1,448	-13,785	-90%	Philippines	4,942	613	-4,330	-88%
Israel	559	832	273	49%	Guatemala	190	550	360	189%
Vietnam	3,286	811	-2,475	-75%	Peru	363	540	177	49%
Turkey	4,147	645	-3,502	-84%	Japan	191	459	267	140%
Ireland	635	627	-8	-1%	Switzerland	879	449	-430	-49%
Taiwan	1,946	396	-1,550	-80%	Australia	174	334	161	92%
Australia	282	339	57	20%	Costa Rica	119	330	211	178%
Philippines	1,615	293	-1,322	-82%	Latvia	136	293	156	115%
Czech Republic	200	217	17	8%	ONP	Year 2019	Year 2020	Difference	Change
Denmark	235	200	-35	-15%	Turkey	149	264	116	78%

Saudi Arabia	235	220	-15	-7%	Indonesia	207,671	42,070	-165,602	-80%
Belgium	107	165	58	55%	Argentina	28,279	37,551	9,272	33%
Singapore	0	119	119		Malaysia	58,232	28,678	-29,554	-51%
Panama	0	77	77		Guatemala	3,227	27,268	24,041	745%
Venezuela	0	30	30		Vietnam	44,536	23,619	-20,917	-47%
Hong Kong	34	12	-22	-65%	Brazil	1,602	22,507	20,906	1305%
Belize	190	0	-190	-100%	Netherlands	23,999	19,924	-4,074	-17%
Brazil	1,173	0	-1,173	-100%	Germany	40,442	17,962	-22,480	-56%
Dominican Rep	23	0	-23	-100%	Saudi Arabia	36,902	17,863	-19,039	-52%
Egypt	553	0	-553	-100%	Colombia	26,034	14,155	-11,879	-46%
TOTAL	774,957	638,105	-136,852	-18%	Chile	6,518	13,741	7,224	111%
					El Salvador	11,077	11,862	785	7%
Groundwood	Year 2019	Year 2020	Difference	Change	Ecuador	33,964	11,656	-22,308	-66%
China	1,267,212	1,058,291	-208,921	-16%	Belgium	24,138	9,457	-14,682	-61%
Thailand	42,633	230,465	187,833	441%	Peru	8,593	7,784	-810	-9%
Canada	129,730	77,666	-52,064	-40%	United Kingdom	3,592	6,216	2,625	73%
Taiwan	57,473	62,999	5,526	10%	Spain	4,546	5,305	759	17%
South Korea	136,118	51,809	-84,310	-62%	Japan	13,943	4,805	-9,138	-66%
United Kingdom	0	33,606	33,606		Italy	11,906	3,926	-7,981	-67%
Indonesia	1,188	28,084	26,896	2264%	United Arab Em	3,157	3,383	226	7%
Mexico	10,775	13,941	3,167	29%	Israel	4,863	3,204	-1,659	-34%
India	15,608	9,420	-6,188	-40%	Philippines	737	2,420	1,683	228%
Vietnam	2,134	8,815	6,681	313%	Costa Rica	2,995	1,636	-1,360	-45%
Netherlands	2,684	5,132	2,448	91%	Dominican Rep	1,113	1,433	320	29%
Guatemala	11,366	4,084	-7,282	-64%	Egypt	4,401	1,249	-3,153	-72%
Italy	1,228	3,684	2,456	200%	France	0	1,063	1,063	
Japan	4,517	3,012	-1,505	-33%	Hong Kong	80	719	639	796%
Chile	5,259	2,143	-3,116	-59%	Ghana	0	702	702	
Germany	264	1,948	1,684	638%	Bangladesh	1,598	683	-915	-57%
El Salvador	3,346	1,225	-2,121	-63%	Burma	0	633	633	
Pakistan	0	803	803		Singapore	0	402	402	
Colombia	1,091	750	-341	-31%	Trin & Tobago	696	337	-360	-52%
Malaysia	201	537	336	167%	Portugal	297	298	1	0%
Dominican Rep	1,355	457	-899	-66%	Turkey	8,067	288	-7,779	-96%
Belize	1,088	275	-813	-75%	Sri Lanka	23	163	140	605%
France	195	267	73	37%	Lebanon	243	138	-106	-43%
United Arab Em	0	188	188		Suriname	1,071	102	-969	-90%
Belgium	0	26	26		Panama	136	28	-109	-80%
Ecuador	1,986	22	-1,964	-99%	Albania	193	22	-171	-89%
Argentina	9	0	-9	-100%	Jamaica	0	22	22	
Costa Rica	501	0	-501	-100%	Bahamas	0	3	3	
Hong Kong	396	0	-396	-100%	Australia	898	0	-898	-100%
Peru	327	0	-327	-100%	Austria	788	0	-788	-100%
Saudi Arabia	3,564	0	-3,564	-100%	Bolivia	964	0	-964	-100%
TOTAL	1,702,246	1,599,651	-102,595	-6%	Djibouti	57	0	-57	-100%
					Greece	147	0	-147	-100%
Mixed	Year 2019	Year 2020	Difference	Change	Honduras	547	0	-547	-100%
India	1,129,112	930,358	-198,754	-18%	Nigeria	686	0	-686	-100%
Canada	265,493	276,618	11,125	4%	Russia	118	0	-118	-100%
China	75,337	148,927	73,590	98%	Tunisia	149	0	-149	-100%
Thailand	111,406	102,695	-8,711	-8%	Ukraine	99	0	-99	-100%
Mexico	127,713	99,948	-27,765	-22%	Uruguay	899	0	-899	-100%
South Korea	190,869	87,927	-102,941	-54%	Venezuela	15	0	-15	-100%
Taiwan	137,044	62,766	-74,278	-54%	TOTAL	2,678,355	2,108,215	-570,140	-21%
Pakistan	17,146	53,702	36,556	213%	ALL GRADES	18,257,549	15,822,081	-2,435,468	-13%

All Grades	Year 2019	Year 2020	Difference	Change	Portugal	297	298	1	0%
China	5,887,954	4,823,130	(1,064,823)	-18%	New Zealand	-	293	293	
India	3,296,000	2,375,355	(920,645)	-28%	Nigeria	3,524	292	(3,233)	-92%
Mexico	1,461,985	1,503,720	41,735	3%	Belize	1,278	275	(1,003)	-78%
Vietnam	1,188,834	1,357,623	168,790	14%	South Africa	1,947	274	(1,673)	-86%
Taiwan	995,146	956,170	(38,976)	-4%	Venezuela	444	251	(194)	-44%
South Korea	1,089,050	935,024	(154,025)	-14%	Honduras	547	248	(299)	-55%
Canada	955,112	917,992	(37,121)	-4%	Czech Republic	200	217	17	8%
Thailand	574,822	642,828	68,006	12%	Norway	-	204	204	
Indonesia	984,339	521,193	(463,146)	-47%	Sri Lanka	972	163	(810)	-83%
Malaysia	200,123	383,508	183,385	92%	Bahrain	-	138	138	
Netherlands	155,746	146,508	(9,238)	-6%	Bolivia	964	124	(839)	-87%
Singapore	2,372	110,956	108,584	4579%	Suriname	1,071	102	(969)	-90%
Colombia	142,999	99,657	(43,342)	-30%	Belarus	-	83	83	
Italy	160,633	87,248	(73,385)	-46%	Tunisia	311	76	(235)	-76%
Pakistan	49,314	81,115	31,801	64%	Christmas Is	-	74	74	
Germany	85,549	72,525	(13,024)	-15%	Oman	146	74	(73)	-50%
United Arab Em	113,528	72,056	(41,472)	-37%	Sierra Leone	-	70	70	
Ecuador	80,706	69,779	(10,927)	-14%	Kenya	601	41	(560)	-93%
Burma	101,440	66,882	(34,558)	-34%	Albania	193	22	(171)	-89%
United Kingdom	33,978	58,062	24,085	71%	Jamaica	-	22	22	
Chile	42,777	57,030	14,253	33%	Uruguay	2,327	21	(2,306)	-99%
Japan	90,962	56,562	(34,400)	-38%	Bahamas	-	3	3	
Argentina	64,440	48,998	(15,442)	-24%	Anguilla	803	-	(803)	-100%
Saudi Arabia	125,716	48,137	(77,579)	-62%	Br Indian O Ter	48	-	(48)	-100%
El Salvador	42,956	46,472	3,516	8%	Bulgaria	42	-	(42)	-100%
Spain	36,708	45,081	8,373	23%	Cen African Rep	1,070	-	(1,070)	-100%
Guatemala	54,330	44,252	(10,078)	-19%	Greece	171	-	(171)	-100%
Laos	10,002	34,459	24,456	245%	Iceland	187	-	(187)	-100%
Brazil	17,313	31,357	14,044	81%	Lithuania	175	-	(175)	-100%
Peru	31,076	28,948	(2,129)	-7%	Morocco	50	-	(50)	-100%
Turkey	23,685	27,048	3,363	14%	Nicaragua	23	-	(23)	-100%
Belgium	35,132	11,565	(23,566)	-67%	Qatar	370	-	(370)	-100%
Philippines	28,975	9,781	(19,194)	-66%	Sweden	431	-	(431)	-100%
Hong Kong	3,189	9,317	6,128	192%	Tanzania	117	-	(117)	-100%
Bangladesh	9,914	5,998	(3,916)	-39%	Togo	21	-	(21)	-100%
Paraguay	224	4,510	4,286	1910%	Ukraine	99	-	(99)	-100%
Israel	5,422	4,036	(1,386)	-26%					
Dominican Rep	7,646	3,839	(3,807)	-50%					
Ghana	94	3,824	3,730	3989%					
Egypt	22,344	3,269	(19,075)	-85%					
Trin & Tobago	8,991	2,289	(6,702)	-75%					
Costa Rica	4,749	2,013	(2,736)	-58%					
Austria	788	1,359	571	72%					
France	195	1,349	1,154	593%					
Australia	4,183	1,175	(3,009)	-72%					
Finland	272	735	463	170%					
Ireland	656	710	54	8%					
Russia	1,912	571	(1,341)	-70%					
Switzerland	1,451	546	(905)	-62%					
Djibouti	884	493	(392)	-44%					
Denmark	502	461	(41)	-8%					
Lebanon	243	432	189	78%					
Latvia	1,309	400	(909)	-69%					
Panama	453	375	(78)	-17%					

Market

Exports

From page 7

Pulp subs exports to India, the largest market for the grade, were down 42 percent, or about 202,000 tons, to a total of almost 275,000 tons. Exports to Mexico were down 55 percent, of about 162,000 tons, to a total of about 135,000 tons. The United Arab Emirates, the third largest market for pulp subs, imported almost 63,000 tons, a 29 percent decline compared to 2019. Exports to Saudi Arabia made up more than half that decline, improving its import from 292 tons in 2019 to almost 15,000 tons last year.

Old newspapers

China, which was, for a long time the dominant market for old newspapers (ONP), dropped to the fourth position in 2020 due to a decline of almost 147,000 tons, or 65 percent, for a total of about 80,000 tons - down from 227,000 tons in 2019.

The largest market for ONP last year was South Korea, which increased its buying by 37 percent, or about 45,400 tons, to a total of about 170,000 tons. Exports to Mexico, the next largest ONP market, were down 12 percent, or about 16,000 tons, for a total of about 121,000 tons. Exports to Indonesia were up 44 percent, or about 33,400 tons, for a total of about 109,000 tons.

Overall, U.S. exports of old newspapers were down 18 percent in 2020, to about 638,000 tons.

Groundwood

Despite a 16 percent reduction in imports of U.S. groundwood grades other than ONP, China remained the dominant market for the category last year. Of a total of about 1.6 million tons, more than 1 million tons went to China. That, however, marked a drop of 16 percent, or about 208,000 tons compared to 2019. Thailand became the second largest market for groundwood in 2020, surpassing Canada, Taiwan and South Korea. Exports to Thailand were up 441 percent, or about

188,000 tons, to a total of about 231,000 tons.

Exports to Canada dropped by 40 percent, or about 52,000 tons, to a total of about 78,000 tons, while exports to South Korea dropped by 62 percent, or about 84,000 tons, to a total of about 52,000 tons.

Exports to Taiwan improved by 10 percent, to about 63,000 tons.

Overall, groundwood grade exports were down 6 percent compared to 2019.

Mixed paper

Despite an 18 percent reduction in mixed paper exports to India, that nation remained by far the largest market for the grade last year. Mixed paper exports to India were down by almost 200,000 tons, to a total of about 930,000 tons. Canada was the next largest market, at about 277,000 tons, a gain of 4 percent.

Despite a ban on mixed paper imports, China found a way to bring in about 149,000 tons of the grade, almost double its take in 2019.

Mixed paper exports to sizeable markets Indonesia and South Korea were down significantly in 2020. Exports to South Korea were down by more than half, from about 191,000 tons in 2019 to about 88,000 tons in 2020. Exports to Indonesia were down from about 208,000 tons in 2019 to 42,000 tons in 2020 - an 80 percent reduction.

Overall, mixed paper exports were down 21 percent, or more than a half million tons, last year, to a total of about 2.1 million tons.

Capacity

PCA

From page 1

the next 12 to 15 months until the scheduled first phase outage is taken in the second quarter of 2022.

After the first phase outage, the converted machine is expected to operate at an initial production rate of about 75 percent of capacity. The second phase outage is planned for mid-2023, with the machine reaching its run-rate capacity of 2,000

tons-per-day by the end of 2023.

The key items in the scope of the conversion include installation of an old corrugated container (OCC) plant, various pulp mill modifications, paper machine modifications to the forming and press sections, headbox and dryer section of the machine and winder upgrades.

The capital cost of the conversion is expected to be about \$440 million.

The mill's No. 1 paper machine will continue to produce UFS products.

"The phased conversion over the next few years of the No. 3 paper machine at our Jackson mill will provide much needed internal linerboard supply," said Mark Kowlzan, president and CEO. "This gives us a runway for maintaining an optimal integration level and enables us to further optimize and enhance our current mill capacity and box plant operations. We were able to refine our previous studies and assumptions in order to more accurately define the process changes, in a phased approach, to fully utilize the potential of the mill to produce excellent quality, lightweight, high-performance linerboard at its optimal cost. This approach allows us to effectively enhance the mill's profitability and viability by managing the exacerbated decline in demand for UFS products while addressing the Company's integrated containerboard supply needs. This project provides a great opportunity for PCA and the Jackson mill.

Republic Paperboard now makes coated gypsum liner

Republic Paperboard, of Lawton, Okla., now produces coated gypsum linerboard for the first time following the installation of a new DF Coat curtain coated system from the Voith Group.

Voith also supplied Republic with a stock preparation upgrade, new dryer cans, new reel and a new coater kitchen as part of a rebuild. The upgrades were part of the company's goal to produce coated gypsum linerboard. The system allows Republic to apply a coating without the



Republic Paperboard's new product, pigment coated gypsum board, produced using the new curtain coater system, which was built by Voith. (Photo: Voith)

need to use expensive white fiber to get the needed color and finish.

"The opportunity to expand our business and produce coated gypsum linerboard more efficiently is a big win for Republic," said Ray Howard, president. "By partnering with Voith for the development of this new process, we secured the expertise we needed to make it happen."

Coated gypsum linerboard is appealing to the construction industry since it can

be very costly to get the right color and finish onto wallboard, Republic said.

Also part of the rebuild package was a winder rebuild. Further, a special bypass section was supplied that allowed the mill to produce uncoated sheet.

Republic's gypsum liner is made from 100 percent recycled fibers, including old cardboard containers, old newspapers, unprinted newsprint and lightly printed folded forms.



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shipper perspective - prepare for permanently higher contract rates on the Transpacific, but also that the current levels right now might have overshoot the mark."

ADDRESS SERVICE REQUESTED

ken@paperstockreport.com
paperstockreport.com
Ph. 440-238-6603 Fx. 440-238-6712
Strongsville, OH 44149
9815 Hazelwood Avenue
McEntee Media Corporation

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