

TABLE 21.—LABORATORY NEWSPRINT PAPERS FROM NEW ZEALAND WOODS: PAPERS FROM TAWA, INSIGNIS PINE, RIMU, AND EUROPEAN LARCH.

Machine- run No.	Furnish.				Beating-conditions.				Strength Data.					Colour.													
	Tawa Ground- wood.	Tawa Sulphite.	Cook No.	Insignis- pine Sulphite.	Cook No.	Clay.	Time in Rod Mill.	Weight.	Time in Beater.	Weight. lb.	Min.	Not beaten	lb.	Weight per Ream.	Thickness. In.	Pts./lb./ rm.	Bursting. rm.	Tearing. rm.	Tensile. Grm./lb./ rm.	Folding.	Strength.	Red.	Green.	Blue.	White.		
15	Per Cent. 30	Per Cent. 70	3, 271	Per Cent. ..	..	Per Cent. 5	10	10	..	..	..	..	..	70.8	0.0084	0.21	0.48	2, 523	Double Folds. 2.3	1.36	..	..	..	..	..	..	
16	30	70	3, 271	..	..	5	10	10	..	..	..	..	..	71.7	0.0073	0.35	0.75	3, 740	3.0	2.17	67	63	59	59	59		
17	25	65	3, 271	15	3, 272-I	5	10	10	..	..	..	..	..	50.0	0.0045	0.39	0.85	4, 025	10.0	1.24	..	..	..	..	..		
18	40	30	3, 270	30	3, 272-I	5	6	8	..	..	..	..	..	39.5	0.0036	0.21	0.65	2, 044	5.0	1.10	70	67	62	62	62		
19	30	40	3, 270	30	3, 272-I	2	8	10	..	..	..	..	..	34.0	0.0036	0.27	0.76	2, 415	3.0	0.84	..	..	..	..	..		
20	40	40	3, 270	20	3, 269-I	..	7	9	..	..	..	..	..	30.0	0.0030	0.24	0.71	2, 425	1.5	0.95	67	63	63	63	63		
21	46	46	3, 273	8	3, 269-I	..	15	15	..	..	..	..	..	36.0	0.0035	0.23	0.55	2, 355	1.5	1.11	59	59	59	59	59		
22	40	45	3, 273	15	3, 269-I	..	13	11	..	..	..	..	..	33.0	0.0033	0.28	0.65	2, 790	3.0	1.19	57	59	59	57	57		
23	30	55	3, 273	15	3, 269-I	..	8	8	..	..	..	..	..	32.0	0.0030	0.26	0.66	2, 630	2.5	1.12	..	..	..	..	..		
24	30	55	3, 274	15	3, 269-I	..	17	14	..	..	..	..	..	35.0	0.0033	0.28	0.60	2, 750	3.0	1.53	..	..	..	..	..		
25	30	55	3, 274	15	3, 275-I	..	13	20	15	..	..	..	..	32.0	0.0032	0.31	0.77	2, 850	4.0	2.30	..	..	..	..	..		
26	30	55	3, 274	15	3, 275-I	..	..	..	30	10	..	..	..	35.0	0.0037	0.28	0.89	3, 135	3.5	1.35	..	..	..	..	..		
27	30	55	3, 274	15	3, 275-I	..	..	..	40	15	..	..	..	31.0	0.0030	0.34	1.04	3, 560	5.0	1.58	58	60	58	58	58		
28	35	50	3, 276	15	3, 275-I	..	20	25	20	..	..	..	..	36.0	0.0035	0.29	0.67	3, 170	6.0	1.68	62	57	56	57	57		
29	35	50.7	3, 277	14.3	3, 277-I	..	20	20	20	..	..	..	..	30.0	0.0030	0.23	0.63	2, 473	2.4	1.39	..	..	..	..	..		
30	50	23	3, 277	27	3, 277-75-I	..	..	..	30	20	..	..	..	28.0	0.0029	0.13	0.78	2, 270	1.5	1.17	..	..	..	..	..		
31	30	55	3, 279	Bleached larch sulphite	3, 278-I	..	5	10	20	..	..	..	..	34.0	0.0031	0.20	0.92	2, 308	1.6	1.31	72	67	61	61	61		
32	30	70	3, 279	..	..	..	5	10	20	..	..	..	..	40.0	0.0036	0.22	0.60	2, 638	2.6	1.61	66	62	62	62	62		
33	35	50	3, 279	15	3, 280-I	..	6	8	30	..	..	..	..	36.0	0.0032	0.21	0.54	2, 308	1.7	1.36	65	61	58	58	58		
34	Wet broke from first press of commercial machine. Commercial paper from same machine.*														36.0	0.0034	0.32	0.72	3, 471	6.5	1.32	68	60	59	59	59	59
35	20	80	2, 247	..	..	..	60	25	15	..	..	..	..	64.0	0.0087	0.24	0.55	2, 827	1.0	1.17	..	..	..	..	..		
36	100	100	2, 247	..	..	..	30	25	60	..	..	..	..	55.0	0.0064	0.44	0.83	4, 480	5.7	1.74	..	..	..	..	..		
40	100	100	2, 248	..	..	..	150	25	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..		
41	30	55	2, 247	Bleached Larch	3, 278-I	5	60	25	60	..	..	..	..	34.0	0.0034	0.28	0.59	3, 040	2.5	1.68	64	58	55	55	55		
42	35	50	3, 282	15	3, 275-I	..	..	..	80	30	..	..	..	41.0	0.0034	0.39	0.75	3, 743	9.1	2.00	..	..	..	..	..		
43	30	55	3, 282	Bleached Rimu	3, 280-I	..	5	8	20	15	..	..	..	41.0	0.0038	0.25	0.60	2, 849	2.5	1.35	..	..	..	..	..		
8	..	90	3, 268	Insignis Pine	3, 265	..	..	..	..	..	..	..	..	39.0	0.0033	0.32	0.85	..	5.0	..	64	60	55	55	55		
9	..	90	3, 268	10	3, 265	..	..	..	..	..	..	..	..	36.0	0.0031	0.40	1.28	..	15.0	..	75	78	76	76	75		

* This material supplied through courtesy of Consolidated Water-power and Paper Co., Wisconsin Rapids, Wisconsin, from their No. 1 machine.