

TABLE 20.—LABORATORY NEWSPRINT PAPERS FROM NEW ZEALAND WOODS: INSIGNIS-PINE PAPERS.

Machine- run No.	Cook and Grinder- run Nos.	Furnish.		Strength of Water-leaf Paper.*†					Colour Analysis.				Interpretation of Colour Analysis.							
		Pulp.	Kind.	Natural or Coloured.	Weight per Ream.	Thickness. In.	Bursting per lb. per Ream.	Tearing.		Folding. Inch.	Dirt- particles per Square Inch.	Red.	Green.	Blue.	White.	Primary Hue.		Secondary Hue.		
								Per Ream.	Grm.							Per Cent.	Tint.	Lumi- nosity.	Tint.	Lumi- nosity.
1	..	Commercial newsprint (P661) from fast machine	..	..	33.0	0.0033	0.30	40	1.22	1	2	74	67	62	62	62	Yellow	9.0	Orange	0.3
2	...	Commercial newsprint (P661) from slow machine	..	..	..	..	..	..	..	..	4	76	69	64	64	64	Orange	5.8	Yellow	0.5
3	9	U.S. Government Printing Office standard	..	..	32.0	..	0.31	..	..	..	..	70	63	60	60	60	Yellow	5.4	Orange	0.3
4	9	Commercial groundwood	..	Natural	33.0	0.0036	0.34	30	0.90	11	3	71	62	52	52	52	Orange	5.8	Yellow	5.0
5	8	Commercial sulphite	..	Coloured	35.00	0.0031	0.38	29	0.82	20	5	59	57	53	53	53	Yellow	2.9	Orange	1.4
6	3266-I	Commercial groundwood	..	Natural	32.0	0.0030	0.33	21	0.65	5	5	79	70	63	63	63	Orange	5.8	Yellow	1.4
7	3266-I	Commercial sulphite	..	Coloured	32.0	0.0031	0.35	20	0.64	6	3	71	67	64	64	64	Orange	2.6	Yellow	0.9
8	3266-I	Insignis-pine groundwood	..	Natural	33.0	0.0032	0.52	30	0.90	30	42	66	56	48	48	48	Orange	6.4	Yellow	2.7
9	3265-I	Insignis-pine sulphite	..	Coloured	31.0	0.0030	0.41	22	0.70	15	27	52	50	52	50	50	Magenta	0.6	None	..
10	3265-I	Insignis-pine groundwood	..	Coloured	35.0	0.0037	0.39	24	0.69	6	54	57	55	51	51	51	Yellow	2.7	Orange	1.3
11	3265-I	Insignis-pine sulphite	..	Coloured	33.0	0.0030	0.40	25	0.76	13	41	59	56	54	54	54	Orange	1.9	Yellow	0.5
12	13	Insignis-pine groundwood	..	Natural	32.0	0.0037	0.42	19	0.59	9	6	70	61	55	55	55	Red ..	1.1	None	..
13	13	Commercial sulphite	..	Coloured	31.0	0.0033	0.34	19	0.62	6	4	63	57	52	52	52	Orange	3.8	Yellow	1.8
14	3265-I	Insignis-pine groundwood	..	Natural	31.0	0.0034	0.35	18	0.59	6	3	71	66	60	60	60	Orange	3.2	Yellow	3.2
14A	3265-I	Insignis-pine sulphite	..	Coloured	..	..	..	..	..	..	4	67	63	61	61	61	Orange	2.6	None	..
14B	3266-I	Insignis-pine sulphite	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
37A†	16	Same as 14A except more dye added in stock-chest	..	Coloured	32.0	0.0037	0.35	21	0.64	10	2	59	58	58	58	58	Red ..	0.2	None	..
37B†	3281-I	Insignis-pine groundwood	..	Coloured	28.0	0.0030	0.29	14	0.51	5	2	66	61	57	57	57	Orange	3.2	Yellow	1.4
38†	37A	Insignis-pine sulphite	..	..	45.0	0.0052	0.40	22	0.49	2	2	56	56	55	55	55	Yellow	0.9	None	..
39†	3281-I	Insignis-pine groundwood	..	Coloured	36.0	0.0037	0.33	16	0.33	4	3	60	59	59	59	59	Red ..	0.2	None	..
	3281-I	Insignis-pine sulphite	..	Coloured	32.0	0.0030	0.33	15	0.46	5	2	61	61	57	57	57	Yellow	3.6	None	..

* All strength tests were made at 65 per cent. relative humidity and 72° F.

† All papers were run water-leaf except 37A, 37B, 38, and 39.