

TABLE II.—LABORATORY SULPHITE PULPING TESTS: YIELDS AND COOKING DATA.

Cook No.	Species.	Oven-dry Weight of Wood.	Acid added.	Acid Composition.			Cook-time.	Time to 110° C.	Maximum Temperature.	Time to Maximum Temperature.	Maximum Pressure.	Yield of Pulp (Oven-dry).			Bleach based on 35 per Cent. B.P.	Remarks.
				Total SO ₂ .	Free SO ₂ .	Combined SO ₂ .						Total Pulp.	Screened Pulp.	Screenings.		
				Per Cent.	Per Cent.	Per Cent.	Hours.	Hours.	Deg. C.	Hours.	lb./sq. in.	Per Cent.	Per Cent.	Per Cent.	Per Cent.	
3256-I	Rimu ..	86.6	50	5.60	4.30	1.30	9-5	2	148	9	75	48.1	46.7	1.4	30	
3257-I	" ..	76.8	50	5.63	4.29	1.34	10-0	2	148	9	75	47.7	46.3	1.4	22	
3258-I	" ..	78.2	50	5.65	4.31	1.34	9-25	2	153	9	75	48.35	47.0	1.35	28	
3280-I	" ..	86.8	52	5.60	4.15	1.45	10-5	2	148	9	75	48.1	46.6	1.5	24-26	
3284-I	" ..	91.4	52	5.50	4.10	1.40	10-5	2	148	9	75	48.4	46.7	1.7	..	
3250-I	Insignis Pine	68.7	50	5.57	4.37	1.20	8-5	1.5	148	8.5	75	47.7	46.5	1.2	15	
3260-I	" ..	75.7	50	5.50	4.27	1.23	8-5	1.5	148	8.5	75	52.9	51.3	1.6	28	
3263-I	" ..	72.2	50	5.50	4.29	1.21	9-0	1.5	148	8.5	75	47.5	46.6	0.9	..	
3264-I	" ..	70.0	50	5.60	4.36	1.24	9-25	1.5	148	8.5	75	49.4	48.6	0.8	12	
3265-I	" ..	70.4	50	5.65	4.37	1.28	8-25	1.5	153	8.25	80	43.5	42.3	1.2	10-12	
3266-I	" ..	71.9	50	5.50	4.18	1.32	9-5	1.5	140	7-0	75	49.4	48.4	1.0	12	
3267-I	" ..	73.2	54	5.60	4.30	1.30	21-0	5-0	127	21-0	65	48.2	47.6	0.6	11-12	
3269-I	" ..	74.1	50	5.42	4.10	1.32	8-75	1.5	148	8.5	75	44.7	44.3	0.4	15	
3272-I	" ..	71.7	52	5.60	4.15	1.45	9-5 min.	1.5	148	8.5	75	46.1	45.2	0.9	12-13	
3275-I	" ..	65.2	52	5.50	4.13	1.37	9-5	1.5	148	8.5	75	49.5	48.2	1.3	10-11	
3281-I	" ..	67.6	52	5.50	4.06	1.44	9-5	1.5	148	8.5	75	51.75	50.0	1.75	20	
3283-I	" ..	62.4	52	5.65	4.25	1.40	9-20 min.	1.5	148	8.5	75	47.3	46.1	1.2	..	
3261-I	Tawa ..	82.4	50	6.00	4.70	1.30	10-0	2	148	9-0	75	49.2	48.3	0.9	12	
3262-I	" ..	80.4	50	6.00	4.78	1.22	11-0	2	148	9-0	75	47.3	46.6	0.7	10	
3268-I	" ..	82.4	50	6.10	4.82	1.28	10-5	2	148	9-0	75	48.5	47.6	0.9	10	
3270-I	" ..	81.0	52	5.95	4.53	1.42	11-0	2	148	9-0	75	47.5	46.5	1.0	10-12	
3271-I	" ..	81.0	50	5.85	4.33	1.52	6-0	1.5	140	4-0	75	52.5	49.3	3.2	25	
3273-I	" ..	82.2	50	5.75	4.23	1.52	7-0	1.5	140	5-0	75	52.5	50.0	2.5	25	
3274-I	" ..	78.7	50	5.50	4.00	1.50	7-0	1.5	140	5-0	75	52.0	48.0	4.0	25	
3276-I	" ..	79.9	52	6.00	4.69	1.31	9-0	2	148	9-0	75	49.4	48.0	1.4	16	Yield estimated due to loss of pulp from blow-pit.
3277-I	22 per cent. insignis pine, 78 per cent. tawa	80.3	52	5.90	4.56	1.34	9-0	2	148	9-0	75	49.4	48.3	1.1	16	
3279-I	Tawa ..	80.2	52	6.10	4.80	1.30	9-0	2	148	9-0	75	50.7	49.3	1.4	16	
3282-I	" ..	86.85	52	6.00	4.65	1.35	9-0	2	148	9-0	75	50.4	49.2	1.2	16	
3278-I	European larch ..	77.8	52	5.70	4.35	1.35	9-75	2	148	9-0	75	45.0	40.3	4.7	21-22	
555	Western larch ..	..	..	..	..	..	..	..	..	..	..	40.6	36.8	3.8	18	Bulletin No. 1485, U.S. Dept. Agriculture.
3130-I	White-spruce ..	80.0	45	5.50	4.30	1.20	8-5	1.5	148	8-5	75	50.2	48.2	2.0	22	Typical spruce - newsprint sulphite.
3171-I	Aspen ..	80.0	47	6.00	4.80	1.20	10-0	2	148	9-0	75	51.3	50.3	1.0	8	
3167-I	Birch ..	80.0	47	6.00	4.70	1.30	10-0	2	148	9-0	75	46.7	45.5	1.2	18	
3176-I	Maple ..	80.0	47	6.00	4.70	1.30	10-0	2	148	9-0	75	47.6	46.2	1.4	29	Unpublished data.