

SOILS OF OTAGO PENINSULA.—CHEMICAL ANALYSES. (Results, except \*, are percentages on soil dried at 100° C.)

Laboratory No.	Locality.	Volatile Matter.		Total Nitrogen.	1-per-cent. Citric-acid Extract, Dyer's Method; Hall's Modification ("Available" Plant-food).					Hydrochloric-acid Extract ("Total" Plant-food).				
		* At 100° C.	On Ignition.		Lime, CaO.	Magnesia, MgO.	Potash, K <sub>2</sub> O.	Phosphoric Acid, P <sub>2</sub> O <sub>5</sub>	Lime, CaO.	Magnesia, MgO.	Potash, K <sub>2</sub> O.	Phosphoric Acid, P <sub>2</sub> O <sub>5</sub> .		
L 856	Tomahawk Head	4.44	10.13	0.238	0.110	0.104	0.064	0.022	0.94	1.11	0.55	0.18		
L 857	Subsoil of 856	4.68	7.30	0.150	0.083	0.109	0.045	0.008	0.88	1.08	0.57	0.12		
L 858	Tomahawk Head	2.98	8.04	0.202	0.082	0.079	0.043	0.008	0.89	0.64	0.60	0.07		
L 859	Subsoil of 858	2.70	5.51	0.095	0.052	0.066	0.038	0.005	0.86	0.70	0.59	0.03		
L 860	Tomahawk Beach	0.18	1.06	0.025	0.115	0.022	0.033	0.061	0.81	0.24	0.13	0.14		
L 861	Subsoil of 860	0.12	0.64	0.024	0.002	0.102	0.037	0.058	0.70	0.21	0.12	0.09		
L 862	In virgin forest	7.70	25.01	0.516	0.157	0.102	0.036	0.024	0.50	0.65	0.29	0.11		
L 863	Subsoil of 862	6.90	12.69	0.210	0.056	0.057	0.036	0.011	0.29	0.72	0.25	0.10		
L 864	Sandymount	0.48	1.01	0.059	0.062	0.025	0.021	0.022	0.44	0.21	0.09	0.08		
L 865	Subsoil of 864	0.48	1.55	0.039	0.068	0.033	0.021	0.026	0.46	0.22	0.08	0.03		
L 866	Harbour Cone	3.92	12.30	0.338	0.174	0.077	0.070	0.063	0.84	0.50	0.68	0.15		
L 867	Subsoil of 866	2.86	9.63	0.167	0.080	0.051	0.055	0.019	0.72	0.52	0.70	0.06		
L 868	Harbour Cone (foot)	6.48	18.93	0.614	0.151	0.200	0.173	0.020	0.74	0.61	0.57	0.18		
L 869	Subsoil of 868	3.20	8.44	0.209	0.118	0.140	0.193	0.021	0.92	0.62	0.45	0.11		

MECHANICAL ANALYSES. (Results are percentages on air-dried soil.)

Lab. No.	Description of Soil (Classification of United States Department of Agriculture modified.)	Analysis of "Fine Earth" passing 2 mm. Sieve.							Stones and Gravel.
		Fine Gravel.	Coarse Sand.	Fine Sand.	Silt.	Fine Silt.	Clay.	Moisture on Ignition.	
L 856	Fine sandy loam	0.2	8.6	21.1	28.7	13.6	14.9	13.8	Nil.
L 857	"	Nil	9.4	21.4	28.4	10.1	20.7	11.6	"
L 858	"	"	9.8	22.4	31.4	10.3	17.4	10.8	"
L 859	"	"	5.6	24.9	29.1	10.1	23.3	8.1	"
L 860	Coarse sand	"	82.8	44.5	0.5	0.4	Nil	1.3	"
L 861	"	"	80.9	16.9	0.4	0.3	"	0.8	Trace.
L 862	Silt loam	"	2.7	9.4	23.3	21.7	30.7	30.7	"
L 863	"	"	3.9	11.9	24.3	15.8	18.7	18.7	Nil.
L 864	Coarse sand	"	84.3	11.4	1.1	0.3	Nil	2.4	Trace.
L 865	"	"	85.5	10.5	1.1	0.5	"	2.0	Nil.
L 866	Fine sandy loam	"	1.5	18.3	37.6	11.3	16.7	16.0	Trace.
L 867	"	"	0.5	24.3	31.6	12.4	18.2	12.1	Nil.
L 868	Silt loam	"	2.6	9.3	38.1	13.3	11.2	23.3	Trace.
L 869	Fine sandy loam	"	5.5	31.6	33.2	8.2	10.4	11.1	Nil.