

TABLE I.—MECHANICAL ANALYSES.*

Laboratory No.	Depth.	Type.	Coarse Sand.	Fine Sand.	Very Fine Sand.	Silt.	Clay.	Loss on Ignition.	Stones.	Texture.	
Pike's Point Series.											
1517	..	In. 0-3	1	0.44	38.84	18.44	24.49	20.57	5.35	..	Silt loam.
1649	..	0-6	1	1.6	11.95	12.35	38.8	27.9	7.2	..	Silt loam.
1650	..	9-15	1	1.4	13.45	12.7	35.0	30.3	7.0	..	Clay loam.
1595	..	0-6	2	0.5	39.6	16.8	17.7	14.7	7.2	..	Sandy loam.
1596	..	9-15	2	1.4	42.0	16.3	18.0	17.1	3.4	..	Fine sandy loam.
1587	..	0-6	3	2.2	26.2	18.6	23.8	18.1	6.5	..	Silt loam.
1588	..	9-15	3	3.2	25.7	21.1	24.8	18.3	4.6	..	Silt loam.
1585	..	0-6	3	1.9	22.7	20.6	26.6	24.0	7.3	..	Silt loam.
1786	..	9-15	3	1.9	25.4	22.3	25.7	22.5	4.3	..	Silt loam.
1593	..	0-6	4	0.9	24.4	16.9	16.95	22.2	13.3	..	Silt loam.
1594	..	9-15	4	1.05	34.8	24.3	22.0	11.1	3.5	..	Silt loam.
Waikakahi Series.											
1521	..	0-3	10	15.26	49.47	9.0	17.75	9.03	3.77	..	Fine sandy loam.
1583	..	0-6	5	6.6	48.0	14.4	14.3	5.9	5.3	..	Fine sand.
1584	..	9-15	5	17.5	45.1	11.8	9.7	7.0	4.0	..	Medium sand.
1585	..	0-6	6	3.5	10.65	7.8	25.2	34.5	15.5	..	Clay loam.
1586	..	9-15	6	10.0	14.5	9.0	23.6	33.2	5.9	..	Clay loam.
1591	..	0-6	7	15.8	23.6	4.95	20.8	15.95	14.75	44.5	Stony sandy loam.
1647	..	0-6	8	0.95	46.7	20.1	17.3	8.85	5.1	..	Fine sandy loam.
Waitaki Series.											
1519	..	0-3	12	8.64	24.73	14.38	29.71	22.33	12.05	35	Stony silt loam.
1589	..	0-6	12	12.1	27.8	10.55	19.75	16.7	11.85	55.9	Stony sandy loam.
1645	..	0-6	12	7.5	13.35	12.1	27.4	28.3	3.2	47.2	Stony silt loam.

* NOTE.—Results are percentages on an ignited basis and calculated to moisture-free soil.

TABLE II.—CHEMICAL ANALYSES.*

Laboratory No.	Depth.	Type.	Available P ₂ O ₅ .	Available K ₂ O.	pH.	N.	Moisture at Sticky Point.
Pike's Point Series.							
1517	In. 0-3	1	Per Cent. 0.048	Per Cent. 0.021	6.2	Per Cent. 0.27	Per Cent. 26.1
1649	0-6	1	0.031	0.013	5.8	..	25.7
1650	9-15	1	0.014	0.007	6.0	..	24.6
1595	0-6	2	0.061	0.017	5.5	..	23.6
1596	9-15	2	0.034	0.006	6.6	..	19.4
1587	0-6	3	0.049	0.017	5.4	0.20	22.9
1819							
1588							
1820	9-15	3	0.037	0.008	6.1	0.13	21.6
1821	0-6	3	0.046	0.020	5.4	..	26.2
1822	9-15	3	0.040	0.010	5.7	..	25.4
1785	0-6	3	0.026	0.016	5.6	..	25.1
1786	9-15	3	0.017	0.007	5.9	..	20.1
1593	0-6	3	0.075	0.026	5.7	..	31.3
1594	9-15	4	0.054	0.011	5.8	..	22.0
Waikakahi Series.							
1583	0-6	5	0.052	0.032	5.7	0.21	..
1584	9-15	5	0.050	0.013	6.1	0.10	18.7
1585	0-6	6	0.045	0.012	6.7	0.52	32.6
1586	9-15	6	0.047	0.006	7.6	..	23.3
1591	0-6	7	0.059	0.034	4.9	..	28.1
1647	0-6	8	0.034	0.010	6.0	..	23.1
1521	0-3	10	0.039	0.040	6.5	0.16	21.2
Waitaki Series.							
1519	0-3	12	0.020	0.038	5.5	0.38	28.4
1589	0-6	12	0.023	0.031	5.2	..	27.8
1645	0-6	12	0.029	0.018	5.5	0.35	28.2

* NOTE.—Results are calculated to oven-dry soil.

TABLE III.

Series.	Type.	Laboratory No.	Depth.	Base Exchange Capacity.	Total Exchangeable Bases.	Base Saturation.
Pike's Point	..	1517	In. 0-3	m.e. per cent. 29.1	m.e. per cent. 14.27	Per cent. 49.1
Waikakahi	..	1521	0-3	24.8	6.89	29.0
Waitaki	..	1519	0-3	28.2	6.9	24.5