TABLE 3. MECHANICAL ANALYSES.

Laboratory No.	Description of Soil. (Classification of United States Department of Agriculture, modified.)	Analysis of "Fine Earth" passing 2 mm. Sieve.								Stones and Gravel.	Remarks.
		Fine Gravel.	Coarse Sand.	Fine Sand.	Silt.	Fine Silt.	Clay.	Moisture.	Loss on Ignition.		
						Mamaku: Rimu-Tawa Soils.					
S 173	Sandy silt	1·4	28·9	24·7	17·7	7·6	2·8	2·4	13·7	2·1	No. 4 paddock, cultivated flat, Demonstration Farm.
174	„	2·1	27·8	23·2	16·9	6·3	3·6	3·8	15·3	4·0	Unmanured 200-acre paddock, Demonstration Farm. Pasture.
178	„	1·8	27·8	23·3	16·1	7·8	2·3	7·6	11·9	5·3	No. 12 (spent iron oxide) paddock, Demonstration Farm. Pasture.
180	„	1·1	27·7	22·1	16·9	7·5	3·1	3·1	16·9	1·7	No. 11 (guano) paddock, Demonstration Farm. Pasture.
181	„	1·3	30·5	27·4	18·7	8·6	2·3	1·6	9·7	4·5	From rimu-tawa forest, Demonstration Farm.
182	„	1·1	30·6	26·0	17·7	8·5	1·2	3·1	11·5	3·5	From rimu-tawa forest, scenic reserve.
183	„	1·5	31·4	27·5	18·3	9·0	1·9	1·5	8·9	3·8	From windmill paddock, Demonstration Farm. Pasture.
192	Sandy loam	1·0	17·7	16·2	11·9	9·6	7·0	9·5	26·4	Trace	From rimu-tawa forest, end of Steele's tramway, near bridge. Rhyolitic soil.
S 59	„	1·2	14·7	12·4	15·5	11·3	1·8	34·0	9·5	..	From No. 9 (pig) paddock, rhyolitic mound, Demonstration Farm. Pasture.
C 825/9A	Sandy silt	1·2	27·7	22·1	19·7	8·9	2·9	3·8	12·9	..	From Martin's demonstration experiment paddock, Mamaku. Pasture.
R 986, 989 S 179	Subsoil (sandy silt) ..	0·8	28·8	26·7	13·4	5·3	3·2	5·4	15·2	..	Composite sample of subsoils from railway cutting, spent-oxide paddock, and scenic reserve, Mamaku.
						Mamaku: "Birch" and related Soils.					
S 336	Sandy loam	1·4	14·4	17·3	17·5	6·5	3·6	25·3	14·0	4·0	Birch forest, National Timber Company's cutting.
338	„	..	..	..	..	..	..	..	..	9·5	Rimu-tawa, adjoining S 336.
184	„	1·3	12·9	16·3	15·0	11·1	2·3	31·3	9·6	6·5	Birch forest, Gamman's cutting.
H 511/513 515/517	„	2·2	16·1	19·0	16·3	8·1	3·1	22·6	11·4	..	Composite Oturoa top soils
512/514 516/518	Sandy silt	0·5	16·8	23·4	16·4	6·5	1·4	23·3	10·0	..	Composite Oturoa subsoils
S 335	Sandy silt approaching a sandy loam	1·6	19·4	21·3	18·0	6·5	2·2	14·8	13·3	4·4	Oturoa Road (near school).
338	Sandy silt	8·2	21·7	19·3	16·2	6·7	1·8	12·9	12·5	9·5	Rimu-tawa, adjoining S 336.
340	„	1·6	28·5	21·0	18·4	9·5	1·4	10·9	8·7	6·6	Birch ridge, back of Ngongotaha, 850 ft. (Not typical birch country.)