

The following provisional classification has been based on the field evidence :—

(a) PODSOLS WITH A PAN, LOW IN HUMUS.

Sample No.	Horizon.	Depth.	Avail. P_2O_5 .	pH.	Clay.	Loss on Ignition.	Base-exchange Capacity.	Ex-change Bases.	Ex-change H.	Base-saturation.	Texture.
------------	----------	--------	-------------------	-----	-------	-------------------	-------------------------	------------------	--------------	------------------	----------

Fern Hill.

1499	..	A1	0-6"	0.007	6.0	22.6	10.2	19.8	11.0	8.8	55.5	Sandy loam.
1500A	..	A2	12-15"	..	..	17.5	4.0	13.4	7.6	5.8	57.0	Sandy loam.
1500B	..	B	18-20"	..	..	26.6	4.8	19.8	13.7	6.1	69.1	Silt loam.

Mangatātari.

1543	..	A1	0-6"	..	5.8	20.4	9.4	18.7	13.5	5.2	72.1	Sandy loam.
1544A	..	A2	10-14"	0.002	6.4	17.1	5.5	14.9	8.5	6.4	57.2	Sandy loam.
1544B	..	B	17-21"	0.000	6.7	17.4	4.4	13.8	9.9	3.9	71.5	Sandy loam.
1544C	..	B	27-36"	..	6.1	..	4.0	..	..	..	..	..

(b) MODERATELY PODSOLIZED SOILS.

Havelock North.

1493	..	A1	0-3"	0.011	5.9	20.2	9.9	18.5	13.1	5.4	70.4	Silt loam.
1494A	..	A2	9-12"	..	..	22.9	4.7	14.7	9.7	5.0	66.2	Silt loam.
1494B	..	B	12-16"	..	..	27.1	4.1	15.2	11.3	3.9	74.3	Silt loam.
1495	..	A	0-6"	0.009	5.6	25.0	13.6	22.5	11.4	11.0	50.9	Silt loam.
1496	..	B	9-12"	..	..	25.8	4.5	13.8	6.3	7.5	45.4	Stony silt loam.

Knight's Road.

1513	..	A	0-6"	0.005	5.8	18.8	13.2	25.4	14.3	11.1	56.2	Sandy loam.
------	----	---	------	-------	-----	------	------	------	------	------	------	-------------

Tukituki Road.

1529	..	A1	0-6"	0.006	5.6	22.7	11.4	20.7	14.6	6.1	70.5	Loam.
1530A	..	A2	7-12"	0.002	6.2	18.7	4.9	14.8	7.6	7.2	51.4	Loam.
1530B	..	B	13-19"	0.000	6.4	30.6	4.8	17.2	11.9	5.3	69.3	Loam.

Waimarama Road.

1533	..	..	0-6"	0.008	5.6	22.0	11.9	20.5	14.5	6.0	70.6	Silt loam.
1534	..	..	7-12"	0.003	6.1	20.6	5.0	16.4	8.8	7.6	53.0	Sandy loam.
1531	..	A1	0-6"	0.009	5.3	22.5	12.2	19.3	10.4	8.9	53.9	Silt loam.
1532A	..	A2	7-13"	0.002	5.2	23.8	4.5	18.1	6.1	12.0	33.7	Silt loam.
1532B	..	B	15-18"	0.001	5.3	39.1	4.4	27.1	10.3	16.8	37.9	Clay loam.

Waipukurau.

1565	..	A1	0-6"	0.005	6.4	20.5	7.5	15.9	11.5	4.4	72.3	Fine sandy loam.
1566A	..	A2	6-10"	..	5.0	19.0	3.0	14.8	4.9	9.9	32.9	Fine sandy loam.
1566B	..	B	12-16"	..	5.2	45.1	4.6	31.8	15.8	16.0	49.6	Clay.
1566C	..	C	3'+	..	5.0	37.2	4.3	34.0	17.7	16.3	52.1	Clay loam.

1565 : Available K_2O = 0.24 per cent.

(c) MILDLY PODSOLIZED SOILS.

Te Pohue.

1547A	..	A1	0-6"	..	5.4	..	16.3	19.8	8.4	11.4	42.3	..
1547B	..	A2?	6-9"	..	6.0	..	10.5	15.6	7.3	8.3	47.1	..
1548	..	B	9-12"	..	5.8	..	10.5	31.1	6.9	24.2	22.2	..

Mangarouhi Stream.

1569	..	A	0-6"	0.007	5.4	..	10.0	..	..	..	..	..
------	----	---	------	-------	-----	----	------	----	----	----	----	----

1569 : Available potash = 0.02 per cent.

(d) BROWN VOLCANIC SOILS.

Patoka.

1511	..	A	0-3"	0.01	6.0	8.0	14.7	21.8	9.7	12.1	44.4	Medium sand.
1512	..	B	10-12"	0.011	6.4	5.7	12.3	40.7	6.2	34.5	15.2	Medium sand.

Napier-Taupo Road.

1555/1557	A	0-6"	0.016	5.9	12.9	19.0	28.9	14.3	14.6	49.4	Sandy loam.
1558	B	9-12"	..	6.0	..	10.7	30.4	5.4	25.0	17.7	

Ongaonga.

1545	..	A	0-6"	0.013	..	..	14.0	..	..	..	..	..
------	----	---	------	-------	----	----	------	----	----	----	----	----

Ngaruroro Flats.

1501	..	A	0-6"	0.014	5.9	12.3	14.0	..	..	..	..	Sandy loam.
------	----	---	------	-------	-----	------	------	----	----	----	----	-------------

1555 : Available potash = 0.032 per cent.

1545 : Available potash = 0.023 per cent.

(e) IMMATURE SOILS.

Patangata.

1497	..	A	0-3"	0.01	5.8	29.1	12.1	24.6	19.5	5.1	79.1	Silt loam.
1498	..	B (C ?)	13-16"	..	..	40.2	4.5	28.5	25.1	3.4	88.1	Clay loam.

Havelock North.

1553	..	A1	0-6"	..	5.6	..	11.4	26.9	19.9	7.0	74.1	..
1554	..	A2?	8-11"	..	6.1	..	..	41.7	30.5	11.2	73.2	..