

LITTORAL AND OTHER SOILS.—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 and Loss on Ignition.
O 809	Fine sandy loam ..	Nil	5.6	28.7	15.4	20.6	13.0	16.8	Nil.
O 810	Sandy loam ..	"	13.8	47.6	8.9	12.4	9.0	8.6	"
O 816	Coarse sandy soil ..	24.4	61.9	3.0	2.2	1.9	0.5	5.8	"
O 817	" ..	35.4	40.2	5.6	5.7	4.7	1.7	7.4	"
M 636	Fine sandy loam ..	Nil	3.7	23.9	24.6	16.9	10.9	17.3	"
M 651	Clay loam ..	"	1.0	2.1	22.8	27.1	30.3	17.1	"
M 652	Fine sandy loam ..	"	0.7	27.6	40.2	12.1	10.1	7.9	"
R 58	Medium sandy silt ..	3.4	24.9	14.6	14.6	10.2	2.8	29.8	"
R 60	Fine sandy silt ..	1.2	14.2	22.3	24.3	9.0	1.2	25.9	"
P1245-6	Not analysed.								
P 399	Sandy loam ..	0.4	20.0	40.5	11.6	10.0	11.1	6.0	7.0
P 400	Fine sandy silt ..	0.2	11.4	35.5	23.2	15.2	5.6	9.1	Trace.
P 401	Fine sandy loam ..	0.1	7.5	36.7	18.9	14.2	15.8	6.1	1.0
P 402	" ..	0.1	9.3	26.4	23.7	19.8	10.0	10.3	1.0
P 973	Fine sandy silt ..	Nil	2.8	44.9	24.7	7.1	4.1	17.1	Nil.
P 974	Fine sandy loam ..	"	2.7	10.3	26.0	16.7	8.7	35.1	"
P 272	Fine sandy silt ..	0.2	8.5	25.7	25.8	15.8	2.6	21.0	34.4
P 273	" ..	0.1	10.4	24.9	28.6	15.9	4.1	16.6	2.6
P 341	Not analysed.								
M 362	Silt loam ..	0.2	7.1	18.6	34.1	8.2	4.0	27.2	Nil.
O 759	Fine sandy silt ..	Nil	0.2	26.8	37.3	12.4	6.6	16.3	"
O 714	Fine sandy loam ..	"	1.7	31.7	28.9	10.5	11.8	15.4	Trace.
O 715	" ..	0.1	5.0	33.8	29.8	12.5	8.4	11.3	"
O 716	" ..	Nil	1.9	31.3	34.3	11.5	11.0	10.6	"

PUWERA AND ALBANY EXPERIMENTAL AREAS.

NOTES ON OPERATIONS, SEASON 1922-23.

T. H. PATTERSON, H.D.A., Instructor in Agriculture, Auckland.

THE issues of the *Journal* for May, 1921, and December, 1922, contained accounts of the operations at the Puwera and Albany gum-land experimental areas. For details of cultivation and cropping those interested should refer to these reports. It may be repeated that Puwera is situated some eight miles from Whangarei, while Albany is near Auckland. The same general aim has been pursued on both areas—namely, the investigation of the most suitable grass-pasture for the gum lands represented, and the selection and growing of fodder crops to keep up adequate supplies of feed chiefly for autumn and winter, when pastures are not producing sufficient feed for the stock.

PASTURES.

The area under pasture at Puwera has been increased during the year. Field 3A (4 acres) was put down in permanent pasture last autumn. Half of the field, nearest the main road, was sown on 17th April with the following mixture: Perennial rye-grass (Poverty Bay), 8 lb.; Italian rye-grass, 3 lb.; cocksfoot, 12 lb.; crested dogstail, 2 lb.; paspalum, 6 lb.; white clover, 2 lb.; cow-grass (colonial), 3 lb.; chicory, $\frac{1}{2}$ lb.; total, 36 $\frac{1}{2}$ lb. per acre. The remainder of the field was sown on 30th April with the same mixture, except that the cocksfoot was cut out and the paspalum increased to 8 lb.