

TABLE IV.—RELATIONSHIPS OF THE SOIL TYPES TO WATER.

Laboratory No.	Farmer.	Depth of Sampling.	Percentage of Moisture at Sticky Point.	Apparent Density.	Maximum Water-holding Capacity.	Pore Space.	Specific Gravity.	Index of Texture.	Moisture Equivalent Bouyoucos.	Hygroscopic Moisture at 50 per Cent. Humidity.
LEVELS SERIES.										
<i>Stony Silt Loams. Type 14 (grading to 16).</i>										
		Inches.								
1185	Scott ..	0-6	..	..	..	..	..	..	32.4	..
983	Kelman ..	0-6	25.7	1.13	51.5	54.7	2.38	15.4	26.7	2.2
985	Foley ..	0-6	29.9	..	..	..	..	21.7	31.0	..
843	Burns ..	0-6	..	..	..	..	..	..	28.4	..
1167	T. W. Brosnan ..	0-6	..	..	..	..	..	..	32.4	..
<i>24 in. - 36 in. plus Silt Loam. Type 10.</i>										
1171	Mehrtens ..	0-6	..	..	..	..	..	..	34.0	..
1169	Cargo ..	0-6	..	..	..	..	..	..	34.8	..
993	Daly ..	0-6	..	..	..	..	..	..	29.1	..
1181	Walsh ..	0-6	..	..	..	..	..	..	31.0	..
<i>18 in. - 24 in. Silt Loam, occasionally slightly Stony. Type 12.</i>										
987A	Foley ..	0-3	30.4	0.99	59.0	58.1	2.29	23.9	31.8	2.8
987B	" ..	6-12	25.3	1.15	47.6	54.3	2.38	18.6	29.2	2.0
1179	T. M. Brosnan ..	0-6	..	..	..	..	..	..	35.7	..
<i>12 in. - 18 in. Moderately Stony Silt Loam. Type 13.</i>										
991	Orbell ..	0-6	26.1	..	..	..	..	16.6	29.7	..
1177	Oliver ..	0-6	..	..	..	..	..	..	30.2	..
999	Jackson ..	0-6	..	..	..	..	..	..	27.9	..
KERETA SERIES.										
<i>Meadow Soils.</i>										
1003	Donald ..	0-6	..	..	..	..	..	..	33.5	..
1449	Aitken ..	0-6	..	..	..	..	..	..	38.9	..
AROWHENUA SERIES.										
<i>24 in. and over, Sands, Sandy Silts, and Sandy Loams. Type 2.</i>										
989	Gaffney ..	0-6	20.8	1.33	39.1	48.9	2.48	6.5	21.5	1.3
1165	Kane ..	0-6	..	..	..	..	..	..	26.5	..
<i>24 in. - 26 in. plus Silt Loam. Type 1.</i>										
997A	Hall ..	0-6	34.4	0.99	68.6	61.6	2.45	29.6	36.0	2.5
997B	" ..	6-12	30.3	..	..	..	..	25.0	..	..
1183	Smith ..	0-6	..	..	..	..	..	..	35.0	..
841	Robins ..	0-6	..	..	..	..	..	..	34.0	..
995	McCully ..	0-6	35.0	0.94	70.7	..	..	29.5	35.5	2.5
1175	Taylor ..	0-6	..	..	..	..	..	..	34.1	..
SEADOWN SERIES.										
<i>Meadow Soils.</i>										
1447	Springs ..	..	..	..	..	..	..	..	46.0	..
1445	O'Connor ..	..	..	..	..	..	..	..	41.4	..
1173	Brosnan ..	..	..	..	..	..	..	..	53.6	..
WASHDYKE SERIES.										
<i>Saline Soils.</i>										
1001	Hall ..	..	..	..	..	..	..	..	35.5	..
1005	Colombs Road ..	..	..	..	..	..	..	..	79.0	..

NOTE.—Moisture at sticky point determined by the method of Keen and Coutts. (*Jour. Agr. Sci.*, 1928, 18, 740-765.)

Index of texture = moisture at sticky point — $\frac{\text{Percentage of sand.}}{5}$ (Hardy: *Jour. Agr. Sci.*, 1928, 18, 252-256.)

Apparent density, water-holding capacity, pore space, and specific gravity determined by Keen-Raczkowski method, Coutts modification. (*Jour. Agr. Sci.*, 1930, 20, 407-13.)