APPENDIX I.

ANALYTICAL DATA FOR REPRESENTATIVE PROFILES

SYMBOLS USED: S, sand; FS, fine sand; CS, coarse sand; LS, loamy sand; ClS, clayey sand; FSL, fine sandy loam; L, loam; CL, clay loam; SCL, sandy clay loam; FSCL, fine sandy clay loam; SiCL, silty clay loam; FSC, fine sandy clay; SiC, silty clay; LC, light clay; MC, medium clay; HC, heavy clay; E.C., electrical conductivity; *, gravel mainly calcium carbonate. A blank space indicates that the analysis has not been done. A dash indicates that only a trace or none of the constituent is present.

All analyses are based on the oven-dry weight of soil.

Depth	Field Texture	pH	Moisture 15 atmosphere %	Gravel	Particle Size: Coarse Sand	Particle Size: Fine Sand	Particle Size: Silt	Particle Size: Clay	Loss on Acid Treatment	Loss on Ignition	Calcium Carbonate (CO_3 x 1·67)	Soluble Salts (E.C. mho/cm x 330)	Sodium Chloride (Cl x 1·64)	Nitrogen	Organic Carbon	Exchangeable Metal Cations (m.e. % — milliequivalents per 100 g of soil; % — percentage of total metal cations): Ca m.e.%	Ca %	Mg m.e.%	Mg %	K m.e.%	K %	Na m.e.%	Na %	Total m.e.%	Sample No.
in.			%	%	%	%	%	%	%	%	%	%	%	%	%	m.e.%	%	m.e.%	%	m.e.%	%	m.e.%	%	m.e.%	
CONGUPNA CLAY: PROFILE 1—MAP 20																									
0–4	LC	6·8	17·7	—	2	21	22	51		5·2	—	0·03	0·01												19077
4–15	HC	7·2	21·2	—	1	10	18	68		5·1	—	0·07	0·04												19078
15–22	HC	8·5		—	1	10	21	66		4·6	0·1	0·12	0·05												19079
22–29	MC	8·7		—	1	14	24	58	1·7	3·8	0·1	0·15	0·07												19081
29–42	MC	9·2		—	1	11	26	58	3·1	4·5	1·0	0·31	0·31												19080
CONGUPNA CLAY LOAM: PROFILE 47—MAP 36																									
0–3	CL	6·6		—	12	40	16	29	1·2	5·2		0·02	0·01	0·10	1·42	5·3	42	5·6	45	0·8	6	0·9	7	12·6	4235
3–13	HC	7·4		—	7	23	12	57	1·4	6·6		0·06	0·04	0·07	0·61	10·5	40	11·2	42	1·3	5	3·5	13	26·5	4236
13–22	HC	8·3		—	6	21	12	59	1·7	6·3	0·1	0·19	0·13												4237
22–33	HC	8·7		—	6	24	15	53	1·9	5·0	0·3	0·29	0·17			8·9	32	12·2	44	1·1	4	5·7	20	27·9	4238
37–60	LC	8·6		—	9	36	14	40	1·1	3·6	0·1	0·23	0·16												4239
CONGUPNA CLAY LOAM: PROFILE 10—MAP 2																									
0–4	LC	6·6		—	4	24	26	43	1·1	5·6		0·02	0·01	0·11	1·06	6·9	45	6·8	44	1·2	8	0·4	3	15·3	11297
4–15	HC	7·5		—	2	15	15	68	1·3	6·3		0·03	0·02			12·1	45	11·8	44	1·2	4	1·9	7	26·9	11298
15–23	HC	8·1		—	1	15	20	64	1·6	5·8	—	0·11	0·06												11299
23–33	MC	8·7		—	2	16	23	58	1·6	5·4	1·0	0·21	0·10			7·5	33	12·1	52	0·7	3	2·8	12	23·1	11300
33–54	MC	8·6		—	2	20	25	52	1·7	4·2	0·4	0·21	0·10												11301
54–72	MC	8·4		—	2	23	21	51	1·9	4·7		0·21	0·10												11302
COOMBOONA LOAM: PROFILE 14—MAP 13																									
0–2	CL	5·3		—	1	25	36	35	1·3	9·0		0·03	0·01	0·27	2·95	3·0	36	4·0	48	0·9	11	0·4	5	8·3	18826
2–6	SiCL	5·4		—	1	25	34	40	1·1	5·0		0·01	0·01	0·08	0·70										18827
6–10	SiCL	5·5		—	1	27	30	42	0·9	4·3		0·01	0·01												18828
10–17	LC	5·6		—	—	27	33	40	0·9	4·4		0·02	0·02			1·3	15	6·4	72	0·4	4	0·8	9	8·9	18829
17–26	MC	6·2		—	—	22	35	42	1·1	4·6		0·09	0·07												18830
29–38	MC	7·8		—	—	12	31	55	1·5	5·0		0·18	0·14			3·4	21	9·7	58	0·5	3	3·0	18	16·6	18831
38–68	MC	8·2		—	—	25	24	50	1·3	4·6		0·18	0·13												18832
COOMBOONA CLAY: PROFILE 13—MAP 12																									
0–4	LC	5·7		—	2	44	28	28	1·0	4·7		0·02	0·02	0·10	0·10										18811
4–8	LC	5·4		—	1	33	20	46	0·9	4·6		0·16	0·13												18812
8–16	MC	6·9		—	1	33	23	43	0·9	4·4		0·02	0·01												18813
16–24	MC	7·1		—	1	31	20	48	0·9	4·2		0·12	0·08												18814
24–32	LC	7·3		—	1	30	23	46	1·0	4·5		0·18	0·12												18815
32–51	FSCL	6·9		—	—	53	13	34	0·6	3·6		0·06	0·03												18816
DUNBULB LOAM: PROFILE 19—MAP 4																									
0–6	CL	6·4	10·8	6	16	38	16	30	0·9	5·9		0·01	—	0·11	1·51	6·5	60	3·2	30	0·9	8	0·2	2	10·8	6084
6–16	MC	7·6	22·1	1	—	20	20	60	0·3	7·9		0·02	0·01	0·07	0·37	10·3	51	7·8	38	1·4	7	0·9	4	20·4	6085
16–34	MC	8·4	23·0	—	3	15	8	74		7·6		0·04	0·01												6086
34–46	MC	8·7	23·6	3*	4	17	9	70	1·3	7·2		0·06	0·01			9·5	37	11·2	43	1·9	7	3·4	13	26·0	6087
46–63	LC	8·9	24·0	2*	3	22	8	66	0·1	7·0		0·06	0·01												6088

APPENDIX I.—*continued*

ANALYTICAL DATA FOR REPRESENTATIVE PROFILES—*continued.*

Depth	Field Texture	pH	Moisture 15 atmosphere %	Gravel	Particle Size: Coarse Sand	Particle Size: Fine Sand	Particle Size: Silt	Particle Size: Clay	Loss on Acid Treatment	Loss on Ignition	Calcium Carbonate (CO_3 x 1·67)	Soluble Salts (E.C. mho/cm x 330)	Sodium Chloride (Cl x 1·64)	Nitrogen	Organic Carbon	Exchangeable Metal Cations (m.e. % — milliequivalents per 100 g of soil; % — percentage of total metal cations): Ca m.e.%	Ca %	Mg m.e.%	Mg %	K m.e.%	K %	Na m.e.%	Na %	Total m.e.%	Sample No.
in.			%	%	%	%	%	%	%	%	%	%	%	%	%										
DUNBULB LOAM: PROFILE 18—MAP 5																									
0–6	L	6·6	7·5	8	18	40	18	22	1·9	4·2		0·01	0·01												6090
6–8	SCL	6·7	6·7	5	19	41	18	22		3·8		0·01	0·01												6091
8–15	HC	7·0	15·7	5	13	26	11	49	0·5	5·2		0·02	0·01												6092
15–25	HC	7·9	17·7	5	11	23	11	55	0·8	5·4		0·05	0·03												6093
25–34	MC	8·4	22·7	4	10	24	11	55		5·2		0·08	0·05												6094
34–51	MC	8·6	19·9	3*	8	21	12	59	0·6	5·4		0·09	0·08												6095
51–63	MC	8·7		8*	12	27	12	48		4·7		0·10	0·08												6096
63–75	MC	8·4		6*	10	24	14	50		5·4		0·10	0·07												6097
EAST SHEPPARTON FINE SANDY LOAM: PROFILE 26—MAP 16																									
0–5	FSL	6·3	3·8	—	3	66	20	10	0·2	0·9		0·01	0·01												6098
7–17	LC	6·5	12·7	—	1	35	22	39	0·3	4·1		0·01	—												6100
17–22	CL	6·9		—	1	41	23	35		5·1		0·02	0·01												6101
22–29	FSCL	7·4		—	1	59	18	21	0·6	3·1		0·03	0·02												6102
29–39	FSL	8·4		—	1	77	9	13		2·3		0·05	0·03												6103
39–57	FSL	9·1		2*	3	74	11	12		3·0		0·08	0·04												6104
57–84	FS	9·0		1*	4	82	6	8		0·8		0·04	0·02												6105
EAST SHEPPARTON FINE SANDY LOAM: PROFILE 3—MAP 10																									
0–4	L	6·3		—	2	54	25	17	0·8	5·2		0·05	0·03	0·15	1·78	3·7	49	2·6	34	0·9	12	0·4	5	7·6	17324
4–7	L	6·5		—	2	48	27	23	0·8	4·1		0·15	0·11	0·09	1·06										17325
7–15	MC	6·5		—	1	29	21	48	1·4	5·9		0·46	0·33			3·3	22	8·4	57	0·5	3	2·6	18	14·8	17326
15–20	LC	8·8		—	—	29	26	42	3·4	5·6	1·6	0·50	0·33												17327
20–26	Cl	9·1		8*	—	38	28	33	2·6	4·6	1·6	0·39	0·25												17328
26–36	FSCL	9·1		—	—	54	22	23	0·5	3·4	0·3	0·32	0·20			1·9	17	6·3	56	0·5	4	2·6	23	11·3	17329
36–56	FSCL	9·4		—	—	57	20	23	0·3	3·2	0·2	0·27	0·16												17330
70–84	FSL	9·5		—	1	64	16	19	0·6	2·5		0·09	0·05												17331
ERWEN LOAM: PROFILE 30—MAP 30																									
0–4	L	6·7		—	13	39	20	24	1·0	4·6		0·02	0·01	0·11	1·52	5·5	49	3·8	34	1·0	9	0·9	8	11·2	27019
4–17	MC	8·1		—	6	18	9	66	3·0	5·9		0·06	0·02	0·08	0·53	4·7	20	12·8	55	1·8	8	3·9	17	23·2	27020
17–23	MC	8·7		—	5	18	10	66	1·9	5·8	0·2	0·21	0·07												27021
23–37	MC	9·0		13	4	18	12	57	9·6	8·5	7·1	0·29	0·09			5·9	20	15·2	52	1·9	7	6·0	21	29·0	27022
37–47	MC	9·1		30	5	22	12	51	10·5	8·6	7·7	0·29	0·10												27023
ERWEN LOAM, SHALLOW PHASE: PROFILE 31—MAP 30																									
0–3	L	6·2		51	10	52	17	20	0·8	7·0		0·02	—												27025
3–5	FSCL	6·5		14	11	50	16	23	0·5	4·0		0·01	0·01												27026
5–13	MC	7·2			6	26	11	55	2·9	5·6		0·02	—												27027
13–23	MC	8·6			3	18	19	48	14·8	10·2	8·4	0·06	0·01												27028
GOULBURN LOAM: PROFILE 7—MAP 1																									
0–4	L	7·5	10·9	—	6	37	29	27	1·1	4·8		0·02	0·02												11303
4–20	HC	8·7	29·7	—	1	17	18	63	1·3	5·1		0·09	0·05												11304
20–29	MC	8·8	18·9	—	1	16	24	58	2·1	5·4	—	0·22	0·12												11305
29–38	MC	8.9	18·6	—	2	17	29	51	1·4	4·3	0·2	0·23	0·12												11306
38–48	MC	8·6	17·4	—	3	21	28	48	1·0	3·9	—	0·20	0·11												11307
54–72	LC	8·5		—	2	26	16	54	2·3	4·2		0·21	0·13												11308

Goulburn Loam: Profile 39—Map 29

0–1	L	5·7		—	9	33	25	28	2·6	7·5		0·06	0·02												20313
1–4	CL	5·8		6	5	38	30	28	0·3	4·6		0·03	0·01												20314
4–13	LC	6·4		—	3	27	21	49	1·4	4·8		0·04	0·02												20315
13–27	MC	8·3		—	1	15	19	63	1·8	5·4	—	0·12	0·09												20316
27–36	MC	8·9		—	2	23	22	51	3·5	4·6	0·5	0·11	0·11												20317
41–57	MC	9·1		4	3	19	18	59	2·7	5·6	0·9	0·23	0·15												20318

Goulburn Clay Loam: Profile 16—Map 6

0–6	CL	6·9	9·5	—	10	39	24	26	0·9	3·9		0·02	0·02	0·08	1·08	6·1	55	3·5	31	1·1	10	0·5	4	11·2	11323
6–20	MC	8·1	15·3	—	8	29	18	45	1·3	3·9		0·04	0·02			7·2	39	7·9	43	1·1	6	2·3	12	18·5	11324
20–24	MC	8·7		—	6	28	18	46	1·0	3·5	—	0·07	0·04												11325
24–33	MC	8·9	13·2	—	8	33	20	40	2·5	2·9	0·1	0·13	0·09												11326
33–41	LC	9·0		—	9	33	22	35	2·3	2·9	0·3	0·18	0·09			4·9	28	7·2	42	1·2	7	3·9	23	17·2	11327
41–50	LC	8·7		—	6	31	19	43	0·5	3·0		0·21	0·14												11328

Goulburn Clay Loam: Profile 53—Map 38

0–4	CL	6·0		—	3	42	23	28	1·2	6·0		0·09	0·05												17317
4–10	HC	7·3		—	1	15	14	69	1·6	7·1		0·04	0·02												17318
10–14	HC	7·9		—	—	12	13	74	1·5	7·0		0·04	0·03												17319
14–24	MC	8·4		—	—	14	18	68	1·5	6·5	0·1	0·07	0·03												17320
24–33	MC	9·0		—	—	13	18	68	2·2	6·2	0·4	0·11	0·03												17321
33–42	MC	8·9		14	—	14	21	63	2·3	5·9	0·7	0·17	0·07												17322

Gupna fine sandy loam: Profile 28—Map 25

0–4	FSL	6·6	5·0	—	7	49	28	15	0·9	3·0			—												11468
4–7	FSCL	7·1		—	7	48	27	18		1·2			0·01												11469
7–27	LC	7·7	14·9	—	4	30	23	43	1·1	3·9			—												11470
27–37	LC	8·2		—	7	33	20	38		2·7	—		0·01												11471
37–48	LC	8·4		—	4	38	26	31	0·7	3·0	—		0·01												11472
48–75	MC	8·5		—	1	31	20	46		4·3			0·01												11473

Gupna Loam: Profile 27—Map 16

0–4	L	6·1	6·3	—	11	39	30	17	0·8	4·5			0·01			3·9	61	1·3	21	1·0	16	0·1	2	6·3	11474
4–7	FSL	6·6		—	12	43	35	11	0·4	1·1			0·01												11475
7–25	LC	5·8	14·2	—	6	27	27	39	0·9	3·6			0·02			6·7	42	8·0	50	0·6	4	0·7	4	16·0	11476
25–32	CL	7·2		—	8	36	31	25		2·2			0·04												11477
32–43	CL	8·8		—	8	37	34	21	0·6	1·8	0·1		0·02			3·9	33	5·4	46	0·6	6	1·8	15	11·7	11478
50–68	LC	8·6		—	6	33	22	40		3·4	—		0·02												11479

Katamatite Loam: Profile 20—Map 4

0–5	L	6·4	8·7	11	19	32	21	27	1·5	4·9		0·02	0·01	0·10	1·35	5·7	62	2·1	23	1·3	14	0·1	1	9·2	6066
5–10	SCL	7·0	8·9	27	14	42	20	24		3·8		0·01	0·01	0·04	0·35										6067
10–16	LC	7·5	17·0	—	9	22	10	59	0·7			0·02	0·01												6068
16–22	MC	7·8	17·0	3	4	16	7	72		7·9		0·02	0·01			8·2	40	9·3	45	2·0	10	1·2	5	20·7	6069
22–37	MC	8·5	24·7	1	2	12	11	75	1·1		—	0·03	0·01			3·8	18	12·9	62	2·2	11	2·0	9	20·9	6070
37–54	MC	9·1	24·5	4*	5	21	11	63		6·9	1·9	0·08	0·02												6071

Koga Clay Loam: Profile 11—Map 11

1–4	CL	6·7		—	6	39	24	28	1·1	4·7			0·02												17348
4–7	HC	7·5		—	4	23	18	55	1·0	6·9			0·04												17349
7–14	HC	8·2		—	2	18	18	61	2·4	6·2			0·05												17350
14–22	HC	9·0		—	2	17	19	62	1·9	5·8			0·07												17351
22–30	HC	9·5		—	2	19	21	55	6·4	7·5			0·08												17352
44–69	HC	9·1		—	3	19	22	55	1·9	4·9			0·14												17353
69–84	MC	8·8		—	5	32	22	41	1·4	3·7			0·16												17353A

Lemnos Loam: Profile 5—Map 10

0–5	CL	6·8		—	3	33	27	33	1·3	7·3		0·02	0·01												17338
5–14	HC	8·6		—	1	13	16	69	2·3	7·3		0·07	0·02												17339
14–18	HC	9·0		—	—	11	16	69	5·1	8·2	4·0	0·08	0·01												17340
18–27	HC	9·4		—	—	11	18	61	10·3	9·7	8·6	0·10	0·02												17341
50–58	MC	9·3		—	1	14	34	50	1·3	5·0	0·11	0·12	0·04												17342

APPENDIX I.—*continued*

ANALYTICAL DATA FOR REPRESENTATIVE PROFILES—*continued.*

Depth	Field Texture	pH	Moisture 15 atmosphere %	Gravel	Particle Size: Coarse Sand	Particle Size: Fine Sand	Particle Size: Silt	Particle Size: Clay	Loss on Acid Treatment	Loss on Ignition	Calcium Carbonate (CO_2 x 1·67)	Soluble Salts (E.C. mho/cm x 330)	Sodium Chloride (Cl x 1·64)	Nitrogen	Organic Carbon	Exchangeable Metal Cations (m.e. % — milliequivalents per 100 g of soil; % — percentage of total metal cations): Ca m.e.%	Ca %	Mg m.e.%	Mg %	K m.e.%	K %	Na m.e.%	Na %	Total m.e.%	Sample No.
in.			%	%	%	%	%	%	%	%	%	%	%	%	%	m.e.%	%	m.e.%	%	m.e.%	%	m.e.%	%	m.e.%	
LEMNOS LOAM: PROFILE 8—MAP 2																									
0–4	L	6·4	9·8	—	2	34	38	23	1·3	3·3		0·02	0·01	0·16	1·92	6·0	57	3·1	30	1·1	11	0·2	2	10·4	11290
5–16	MC	8·2	10·9	—	1	22	28	48	0·9	4·8		0·02	0·02			8·7	45	8·7	45	0·8	4	1·0	6	19·2	11291
16–21	MC	8·8	17·6	—	2	16	28	52	2·2	5·0	0·1	0·07	0·04												11292
21–31	LC	9·0	16·2	—	1	16	34	47	2·0	5·0	0·8	0·18	0·10												11293
31–40	LC	8·5	17·1	—	2	18	34	43	1·9	4·4	0·9	0·30	0·20			5·2	26	9·4	47	1·1	6	4·1	21	19·8	11294
40–56	LC	8·5		—	2	23	21	52	2·3	4·9		0·36	0·25												11295
LEMNOS LOAM: PROFILE 38—MAP 29																									
0–6	L	6·5	8·2	—	2	34	38	23	0·5	3·6		0·01	0·01	0·10	1·10										20327
6–22	HC	8·1	19·5	—	1	13	21	64	2·9	6·3	—	0·05	0·02	0·07	0·41										20328
25–33	MC	9·1		6*	—	16	35	48	1·3	5·2	0·9	0·08	0·03												20329
33–44	LC	9·2		—	1	25	33	40	1·0	4·0	0·3	0·11	0·07												20330
54–60	MC	9·1		—	2	15	17	64		5·9		0·16	0·07												20331
78–90	MC	9·3		—	1	17	21	59		6·3		0·15	0·05												20332
LEMNOS LOAM: PROFILE 44—MAP 35																									
0–3	L	6·2	8·5	—	5	36	35	23	0·6	6·1		0·01	0·01	0·16	2·32	3·4	49	2·3	33	1·0	15	0·2	3	6·9	4249
3–6	FSCL	6·7		—	5	39	31	24	0·5	3·4		0·01	0·01												4250
6–19	MC	7·1	15·0	—	—	22	29	48	0·5	4·8		0·05	0·04	0·06	0·39	4·3	30	7·3	51	0·9	7	1·7	12	14·2	4251
19–25	MC	8·4		—	—	22	29	46	2·6	4·7	0·2	0·14	0·10												4252
25–42	CL	9·4	13·2	5*	1	32	34	31	2·4	4·5	0·6	0·09	0·04			4·4	27	9·3	57	0·9	5	1·8	11	16·4	4253
42–57	LC	9·5	14·7	1*	1	24	39	36	1·5	4·2	0·6	0·06	0·02												4254
57–78	CL	9·4		—	1	34	34	32	1·0	3·5		0·04	0·02												4255
LEMNOS LOAM: PROFILE 49—MAP 37																									
0–4	CL	6·1	11·9	—	1	22	41	33	0·7	5·5		0·01	0·01	0·13	1·30										23408
4–7	LC	6·4		—	1	23	39	37	0·4	4·5		0·02	0·01												23409
7–15	HC	6·5	19·1	—	1	10	24	64	0·7	6·5		0·02	0·01												23410
15–21	HC	6·3		—	1	9	20	70	0·8	7·4		0·03	0·01												23411
21–36	MC	8·0		—	1	13	28	58	1·1	5·8	0·3	0·07	0·02												23412
36–72	LC	8·7		—	1	18	39	42	1·0	4·6	—	0·08	0·05												23413
SANDMOUNT SAND: PROFILE 2—MAP 10																									
0–7	LS	6·5		—	60	26	4	10	0·3	2·5		0·01	0·01												17332
7–15	S	7·1		—	60	26	3	11	0·5	1·5		0·01	—												17333
15–26	S	7·2		—	60	26	3	12	0·3	1·4		0·01	—												17334
26–40	S	7·6		—	59	24	4	13	0·4	1·4		0·01	—												17335
40–49	ClS	8·1		—	60	18	3	19	0·5	1·9		0·01	—												17336
60–84	ClS	8·1		—	58	24	4	15	0·4	1·1		0·01	—												17337
SANDMOUNT SAND: PROFILE 22—MAP 17																									
0–6	S	6·3	2·7	—	27	59	6	7		1·8		0·01	—	0·05	0·38										6078
6–22	S	6·9		—	22	67	4	7		1.0		0·01	0·01												6079
22–25	ClS	7·3		—	17	56	7	19		2·0		0·01	—												6080
25–37	S	7·3		—	19	68	6	7		1·2		0·01	0·01												6081
40–57	FSCL	7·3		—	4	50	22	23		2·7		0·01	—												6082
57–84	FSL	7·3		—	1	62	19	18		2·6		0·01	—												6083

Sandmount Sand, Shallow Phase: Profile 37—Map 29

0–6	S	6·7	2·9	—	34	51	8	7		1·8		0·01	—	0·06	0·42	1·4	48	0·6	20	0·9	31	0·03	1	2·9	20320
10–17	S	6·5	2·4	—	43	41	9	7		1·1		0·02	—												20322
17–22	LS	6·8		—	49	31	6	14		1·7		0·01	—			2·4	63	1·0	26	0·4	10	0·03	1	3·8	20323
22–36	SCL	6·7		—	40	28	7	23		2·2		0·01	—			2·5	53	1·7	36	0·5	10	0·04	1	4·7	20324
36–46	CIS	6·0		—	41	33	6	19		2·3		0·01	—												20325
59–88	LS	8·1		—	32	51	6	11		1·7		0·01	—												20326

Shepparton Fine Sandy Loam: Profile 43—Map 35

0–5	FSL	6·4		—	5	63	20	9	0·5	3·7		0·02	—	0·13	1·55										4241
5–8	FSL	6·9		—	6	62	21	10	0·2	1·3		0·01	0·01	0·04	0·25										4242
8–19	MC	6·8		—	2	33	17	48	0·7	5·1		0·05	0·02	0·04	0·28										4243
19–24	LC	9·2		—	1	41	23	34	1·8	4·2	0·7	0·10	0·03												4244
24–56	FSCL	9·3		1*	1	55	19	24	1·0	3·0	0·5	0·06	0·03												4245
56–75	LC	9·1		4*	3	26	30	39	2·1	4·8	0·7	0·06	0·02												4248

Shepparton Fine Sandy Loam: Profile 9—Map 2

0–5	FSL	7·0	6·6	—	3	46	31	20	0·4	3·9		0·01	0·01	0·09	1·07	5·1	57	2·2	24	1·6	18	0·1	1	9·0	11337
7–16	MC	8·6	14·9	—	—	29	14	56	1·0	4·3		0·02	0·02			7·4	43	7·2	41	1·5	9	1·2	7	17·3	11339
16–23	LC	9·2	14·5	—	1	27	31	40	1·0	3·8	0·2	0·05	0·03												11340
23–29	CL	9·4	11·3	—	1	39	28	30	2·3	3·4	1·4	0·10	0·04												11341
29–37	FSCL	9·6	9·4	—	1	55	22	20	2·0	3·2	1·8	0·11	0·04			2·9	33	3·2	36	0·7	8	2·0	23	8·8	11342
37–50	FSL	9·4		—	1	59	20	17	1·6	1·7		0·15	0·07												11343
50–78	LC	8·2		—	1	20	29	48	1·6	3·8		0·37	0·20												11344

Wenora Loam: Profile 54—Map 40

0–3	CL	5·8		28	4	38	28	28	1·0	8·4		0·03	0·01												27964
3–5	CL	6·4		67	5	42	29	22	1·0	4·1		0·03	0·01												27965
5–11	HC	7·8		10	2	26	16	56	1·3	5·3		0·08	0·04												27966
11–20	HC	8·4		10	1	19	13	65	1·5	5·6	—	0·17	0·10												27967
20–32	HC	8·8		5*	1	22	20	56	2·0	4·8	0·5	0·27	0·18												27968
32–51	HC	7·8		—	—	9	21	69	1·6	5·7	—	0·41	0·28												27969
51–84	SiC	5·4		16	1	14	42	42	0·5	4·9		0·20	0·20												27970

Youanmite Loam: Profile 21—Map 4

0–4	L	6·4	8·2	1	25	32	17	25	1·6	4·2		0·01	0·01			4·3	54	2·7	33	1·0	12	0·1	1	8·1	6072
4–11	MC	6·2	13·6	—	10	30	8	52		5·3		0·01	—												6073
11–21	MC	6·3	20·8	—	3	21	13	64	0·2	7·4		0·02	0·01			5·2	36	7·6	52	1·4	9	0·4	3	14·6	6074
21–31	HC	7·5	23·1	—	4	18	6	71		7·1		0·02	0·01												6075
31–44	LC	8·5	22·6	11*	3	18	10	68	3·5	7·3	1·3	0·06	0·01			10·2	41	11·7	47	2·1	9	0·7	3	24·7	6076
44–63	HC	8·5		13*	4	26	15	55	6·3	7·6	4·0	0·06	—												6077

Zeerust Fine Sandy Loam: Profile 29—Map 25

0–5	FSL	6·2	3·1	—	12	56	21	10	0·6	2·6			0·01												11461
5–10	FSL	6·6		—	12	59	21	8		2·8			—												11462
10–19	LC	6·5	14·3	—	7	37	17	39	1·0	3·8			0·01												11463
19–26	LC	7·5		—	8	39	19	34		3·1			0·01												11464
26–32	CL	8·8		—	9	44	19	27	1·3	2·9			0·01												11465
38–54	LC	8·9		—	9	41	15	33		3·4	0·3		0·01												11466
54–84	FSC	9·1		—	15	42	13	28		2·8	0·2		0·02												11467

APPENDIX I —*continued.*

Depth	Field Texture	pH	Gravel	Particle Size: Coarse Sand	Fine Sand	Silt	Clay	Loss on Acid Treatment	Loss on Ignition	Calcium Carbonate (CO_3 x 1·67)	Soluble Salts (E.C. mho/cm x 330)	Sodium Chloride (Cl x 1·64)	Sample No.
in.			%	%	%	%	%	%	%	%	%	%	
TYPE A: PROFILE 40—MAP 28													
0–3	L	5·8	13	4	40	26	23	1·9	12·6		0·03	0·01	17310
3–11	CL	6·8	—	2	41	24	33	0·5	3·4		0·01	—	17311
11–20	LC	7·1	—	1	32	22	45	0·9	4·8		0·02	—	17312
20–29	MC	7·6	—	1	24	14	61	0·9	5·9		0·03	0·01	17313
29–36	MC	7·6	—	—	22	20	57	1·3	5·9	0·3	0·05	0·01	17314
39–68	LC	7·6	—	—	31	22	46	0·9	4·6	—	0·02	0·01	17315
TYPE E: PROFILE 41—MAP 33													
0–5	LS	6·3	—	50	32	10	7	0·5	2·4		0·02	0·01	18817
5–9	S	7·8	—	54	30	8	8	0·6	1·1		0·02	0·01	18818
9–15	S	7·5	10	50	32	9	9	0·3	0·9		0·01	0·01	18819
15–21	SCL	7·3	—	38	24	9	29	0·7	2·2		0·01	—	18821
21–30	LC	7·6	—	29	22	7	41	0·9	4·1		0·02	0·01	18822
30–38	MC	8·0	—	18	18	10	54	1·1	4·7		0·02	0·01	18824
41–78	MC	9·1	—	4	15	28	53	1·2	5·3		0·10	0·04	18825
TYPE G, "PUFF": PROFILE 34—MAP 30													
0–5	HC	9·3	—	6	14	9	66	4·9	7·8	1·5	0·04	0·01	27039
5–14	HC	8·7	—	3	17	11	63	6·6	8·2	2·6	0·05	0·02	27040
14–26	HC	9·3	—	3	14	9	67	7·3	5·4	3·1	0·09	0·02	27041
TYPE G, "SHELF": PROFILE 35—MAP 30													
0–2	FSCL	7·2	—	11	43	19	27	0·3	4·3		0·02	0·01	27042
2–9	MC	7·9	—	9	35	15	41	1·7	4·2		0·03	0·01	27043
9–16	HC	8·7	—	7	29	14	50	2·3	5·2		0·10	0·05	27044
19–22	MC	8·7	—	6	33	16	44	2·1	4·2	—	0·28	0·12	27045
22–32	LC	8·2	—	6	27	16	48	4·3	4·3	0·1	0·88	0·15	27046
COOMBOONA LOAM: PROFILE 42—MAP 34													
0–3	L	5·6	—	1	22	41	34	0·3	6·4		0·02	0·01	13789
3–7	CL	5·8	—	1	17	35	45	2·1	4·3		0·01	0·01	13790
7–11	LC	6·3	—	—	9	30	58	1·1			0·02	—	13791
11–19	MC	6·4	—	—	6	27	62	1·9	6·2		0·02	0·01	13792
19–28	LC	6·3	—	—	6	40	54	0·8			0·02	0·01	13793
28–39	LC	6·2	—	—	7	47	46	0·1			0·02	0·01	13794
39–72	CL	6·2	—	—	41	33	25	0·2			0·02	0·01	13795
TYPE H, "PUFF": PROFILE 32—MAP 30													
0–4	MC	8·2	—	5	15	8	66	5·3	7·9	0·4	0·04	0·01	27029
4–15	MC	8·8	—	5	17	12	55	12·5	10·3	8·9	0·05	0·01	27030
24–28	MC	9·5	—	5	18	11	46	18·9	12·0	16·2	0·13	0·02	27031
TYPE H, "SHELF": PROFILE 33—MAP 30													
0–4	L	7·0	—	12	48	16	24	0·3	3·6		0·02	—	27032
4–11	MC	7·9	—	6	27	8	56	2·3	5·6		0·06	0·03	27033
11–16	MC	8·6	—	4	17	9	68	3·2	7·1	0·7	0·26	0·11	27034
16–22	MC	9·0	7	4	20	8	57	10·6	8·5	7·8	0·57	0·21	27035
24–36	MC	8·8	—	6	22	12	55	5·9	5·7	1·8	0·68	0·25	27036
48–54	MC	8·6	—	4	23	13	57	2·8	5·0	0·1	0·65	0·25	27037
TYPE Q, "YELLOW SHELF": PROFILE 23—MAP 17													
0–2	LC	5·7	—	3	30	23	42	1·0	6·9		0·05	0·02	14141
2–6	MC	6·1	—	2	24	20	55		5·3		0·03	0·02	14142
6–11	MC	6·6	—	2	15	16	67	1·3	7·4		0·04	0·02	14143
11–25	MC	7·7	—	1	17	15	67		6·4		0·09	0·06	14144
25–46	MC	8·5	—	1	16	21	61	1·5	5·6	—	0·21	0·11	14145
66–84	MC	8·8	—	1	17	24	55	2·7	5·1		0·32	0·14	14147
TYPE Q, "GREY DEPRESSION": PROFILE 24—MAP 17													
0–3	LC	5·7	—	4	26	27	42	1·0	7·7		0·02	0·01	14134
3–10	LC	5·7	—	2	28	25	45		5·0		0·01	0·01	14135
10–17	LC	6·3	—	4	29	29	36	0·8	4·8		0·02	0·01	14136
17–28	MC	7·0	—	5	29	19	47		5·0		0·02	0·02	14137
28–33	MC	8·5	—	3	25	25	46	1·4	5·0	—	0·07	0·04	14138
57–70	MC	9·1	—	1	16	23	55	5·2	6·8	3·7	0·14	0·04	14139
TYPE R: PROFILE 12—MAP 12													
0–5	CL	6·2	—	2	33	29	34	1·2	5·2		0·02	0·01	18834
5–12	LC	6·7	—	1	34	25	39	1·1	4·2		0·02	0·01	18835
12–17	LC	7·1	—	1	32	30	36	0·9	3·7		0·02	0·02	18836
17–34	LC	8·3	—	1	28	28	42	1·3	3·8		0·04	0·02	18837
34–46	MC	9·1	—	—	16	28	53	1·3	4·7		0·05	0·03	18838
46–64	MC	9·4	—	2	31	19	47	2·7	4·7		0·10	0·03	18839