APPENDIX I.—*continued.*

ANALYTICAL DATA FOR REPRESENTATIVE PROFILES—*continued.*

Depth	Field Texture	pH	Moisture 15 Atmosphere	Gravel ($CaCO_3$)	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 320)	Sodium Chloride (Cl x 1·64)	Nitrogen	Organic Carbon	Exchangeable Cations (m.e.%—milliequivalents per 100 g of soil; %—percentage of cation exchange capacity): H m.e.%	H %	Ca m.e.%	Ca %	Mg m.e.%	Mg %	K m.e.%	K %	Na m.e.%	Na %	Cations Exchange Capacity	Sample No.
in.			%	%	%	%	%	%	%	%	%	%	%	%	%	m.e.%	%	m.e.%	%	m.e.%	%	m.e.%	%	m.e.%	%	m.e.%	
Restdown Clay "Gilgai Puff": Profile 20—Map 12																											
0–3	HC	8·4		—	3	22	10	61	3·7	8·0	1·1	0·07	0·02	0·12	1·10												17837
3–11	HC	8·3		—	2	18	10	68	2·6	7·2		0·05	0·02														17838
11–25	HC	9·4		3	2	19	9	61	8·8	8·6	6·1	0·10	0·02	0·05	0·32												17839
25–44	HC	9·8		5	1	20	12	57	10·4	8·0	7·3	0·18	0·05														17840
44–60	HC	9·7		—	1	27	16	51	4·8	5·5	2·6	0·26	0·09														17841
60–78	HC	9·5		—	2	30	16	47	5·1	5·5		0·32	0·13														17842
Restdown Clay "Gilgai Shelf": Profile 21—Map 12																											
0–2	CL	7·0	10·5	—	8	44	17	29	0·7	5·2		0·03	0·01	0·12	1·30	5·9	34	4·5	26	5·0	28	1·1	6	1·1	6	17·6	17843
2–11	HC	8·3	21·4	—	3	20	10	66	1·8	7·3		0·13	0·07			—	0	7·7	28	13·3	48	1·4	5	5·4	19	27·8	17844
15–32	HC	9·0		—	2	19	12	55	12·5	10·0	9·5	0·51	0·22														17845
Rochester Clay "Gilgai Puff": Profile 9—Map 5																											
0–3	MC	7·4	18·6	—	5	25	19	47	2·1	7·8		0·04	0·02	0·20	2·10	4·6	21	17·2	56	6·3	19	2·3	10	0·5	2	30·9	20680
3–21	HC	8·9	16·5	—	4	22	17	53	3·9	6·0	1·3	0·05	0·02	0·06	0·36	—	0	17·6	64	7·9	28	0·7	3	1·3	5	27·5	20681
21–45	HC	9·3		—	3	22	17	54	3·6		1·6	0·10	0·03			—	0	12·8	42	12·5	41	0·8	3	4·1	14	30·2	20682
45–65	HC	9·2		—	2	20	19	56	4·1	5·6		0·19	0·08														20683
Rochester Clay "Gilgai Shelf": Profile 10—Map 5																											
0–6	HC	7·3	18·8	—	5	27	18	48	1·6	7·0		0·02	0·01	0·15	1·49	5·6	19	15·7	53	6·2	21	1·6	5	0·4	2	29·5	20684
6–10	HC	8·0		—	6	25	18	50	1·8	5·9	0·9	0·03	0·01	0·07	0·61												20685
10–21	HC	8·7	17·5	—	6	24	17	50	3·5		1·0	0·05	0·01			—	0	15·2	64	7·2	30	0·8	3	0·7	3	23·9	20686
Rochester Clay "Gilgai Puff": Profile 28—Map 15																											
0–2	HC	7·6		—	2	21	18	57	2·1	7·8		0·02	0·01	0·17	1·83												20668
2–7	HC	8·5		—	2	19	15	61	2·6		0·3	0·04	0·01	0·10	0·93												20669
7–27	HC	9·1		—	1	15	15	64	5·9	7·5	3·6	0·06	0·02														20670
27–40	HC	9·5		—	1	13	16	60	8·1			0·13	0·02														20671
40–60	HC	9·5		—	1	13	17	66	4·3	6·4	1·8	0·15	0·03														20672
60–84	HC	9·6		—	1	16	18	63	3·5			0·08	0·02														20673
Timmering Loam: Profile 6—Map 4																											
0–6	FSL	6·5		—	8	52	23	15	0·6	4·3		0·02	0·01	0·10	1·40												23340
6–15	MC	8·3		—	7	34	17	40	1·4	8·2		0·04	0·02	0·07	0·58												23341
15–25	LC	9·6		3	9	32	20	36	2·7		2·1	0·13	0·03														23342
25–37	VFSC	9·5		—	4	38	24	31	1·5		0·6	0·18	0·05														23343
37–54	FSCL	9·4		—	3	44	27	24	1·1			0·16	0·05														23344
54–69	FSL	9·4		—	3	53	24	18	0·8			0·06	0·02														23345
Timmering Loam: Profile 14—Map 8																											
0–7	FSL	7·0		—	5	55	21	16	1·0	6·2		0·04	0·02	0·20	2·25												20711
8–18	MC	8·8		—	2	30	16	50	2·1			0·18	0·08	0·07	0·50												20712
18–27	LC	9·6		7	1	30	21	46	2·9	5·5	1·7	0·26	0·10														20713
27–36	FSC	9·8		—	1	45	17	35	2·3		0·7	0·16	0·05														20714
36–54	FSC	9·5		5	—	46	19	34	1·8		0·3	0·08	0·02														20715
54–84	FSCL	9·0		—	2	46	20	31	1·6			0·04	0·01														20716
Timmering Loam: Profile 30—Map 16																											
0–3	L	5·6		—	1	32	45	20	0·7	5·4		0·02	0·01	0·15	1·75												17831
3–6	L	6·1		—	1	32	46	20	0·4	3·6		0·02	0·01	0·07	0·69												17832
7–20	MC	7·3		—	—	16	33	49	1·4	6·4		0·10	0·06														17833
20–26	LC	8·6		—	—	14	41	43	1·9	5·5	0·3	0·23	0·12														17834
26–42	CL	8·7		—	—	16	44	38	1·7	5·2	0·4	0·21	0·11														17835
42–61	LC	8·2		—	2	15	39	42	1·3	5·2		0·16	0·09														17836

APPENDIX I.—*continued.*

ANALYTICAL DATA FOR REPRESENTATIVE PROFILES—*continued.*

Depth	Field Texture	pH	Moisture 15 Atmosphere	Gravel ($CaCO_3$)	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 320)	Sodium Chloride (Cl x 1·64)	Nitrogen	Organic Carbon	Exchangeable Cations (m.c.%—milliequivalents per 100 g of soil; %—percentage of cation exchange capacity): H		Ca		Mg		K		Na		Cations Exchange Capacity	Sample No.
in.			%	%	%	%	%	%	%	%	%	%	%	%	%	m.e.%	%	m.e.%	%	m.e.%	%	m.e.%	%	m.e.%	%	m.e.%	
TIMMERING LOAM: PROFILE 35—MAP 17																											
0–5	L	6·5	10·9	—	3	53	23	17	1·0	6·6		0·03	0·01	0·21	2·42	6·8	40	6·5	38	2·9	17	0·5	3	0·4	2	17·1	17853
5–7	FSCL	7.1		—	3	52	25	19	0·2	2·9		0·02	0·01														17854
7–18	MC	7·3	16·9	—	2	35	18	45	1·3	5·3		0·08	0·05			5·2	25	4·3	20	8·4	40	0·5	3	2·6	12	21·0	17856
18–30	LC	9·3		4	1	41	12	44	3·0	4·8	0·3	0·17	0·09			—	0	4·1	19	12·9	59	0·9	4	4·0	18	21·9	17856
30–36	CL–LC	9·4		—	1	44	9	43	3·0	4·8	1·4	0·13	0·05														17857
36–42	CL–LC	9.3		—	5	39	11	43	2·3	4·6		0·09	0·03														17858
WALLENJOE CLAY: PROFILE 24—MAP 12																											
0–6	HC	6·6		—	1	8	22	66	1·4	7·9		0·04	0·02	0·13	1·18												17891
6–22	HC	7·0		—	2	10	26	60	1·5	6·8		0·05	0·03														17892
22–32	HC	7·0		—	2	10	24	62	1·8	6·4		0·15	0·01														17893
32–48	HC	7·9		—	1	11	23	64	1·7	6·3		0·21	0·15														17894
WANA LOAM: PROFILE 36—MAP 17																											
0–3	L	6·0		—	1	22	43	28	1·4	7·1		0·18	0·07	0·22	2·25												17848
3–6	CL	6·4		—	1	24	47	26	0·8	4·3		0·04	0·02	0·09	0·84												17849
6–28	HC	7·7		—	1	13	30	54	1·5	6·5		0·16	0·07														17850
28–43	LC	8·3		2	1	30	20	46	2·5	5·0	0·2	0·57	0·13														17851
43–56	LC	8·6		2	—	33	21	44	1·7	4·6		0·45	0·14														17852
WANA CLAY LOAM: PROFILE 29—MAP 16																											
0–4	CL	7·1	13·1	—	5	27	33	33	1·5	6·7		0·03	0·01														3261
4–6	CL	7·9	17·1	—	6	26	34	33	1·1	5·4		0·03	0·01														3262
6–13	MC	7·8		—	3	20	26	50	1·2	5·4		0·05	0·02														3263
13–23	HC	7·7		—	1	14	22	62	1·7	6·4	—	0·16	0·06														3264
23–34	HC	7·9		—	1	9	23	65	1·9	6·4	—	0·38	0·13														3265
34–45	HC	8·1		—	2	10	23	63	2·0	5·9	0·1	0·35	0·11														3266
45–60	HC	8·6		—	2	12	20	63	3·7	6·5		0·35	0·10														3267
WANALTA LOAM: PROFILE 5—MAP 4																											
0–5	L	5·9	6·3	—	1	52	25	21	1·0	4·2		0·01	0·01	0·11	1·14	5·8	44	4·6	35	2·1	16	0·5	4	0·2	1	13·1	23347
5–19	HC	8·0	20·4	—	—	25	18	55	1·7	6·5		0·04	0·02	0·09	0·68	3·0	11	11·4	42	10·3	38	1·0	4	1·3	5	27·0	23348
19–28	MC	8·8		—	—	31	23	42	2·1		0·4	0·13	0·06														23349
28–40	LC	8·1		—	—	31	28	38	1·5		0·1	0·30	0·15			—	0	7·2	34	10·4	48	0·7	3	3·2	15	21·5	23350
45–54	LC	7·6		—	1	21	29	46	2·0			0·70	0·48														23351
54–78	MC	7·1		—	1	27	24	46	1·9			0·63	0·41														23352
WANALTA LOAM: PROFILE 15—MAP 8																											
0–4	CL	6·1		—	7	36	30	25	0·7	5·3		0·07	0·06	0·11	1·44												20717
4–14	HC	7·5		—	3	18	22	56	1·9	6·5		*	0·21	0·07	0·67												20718
14–24	HC	8·2		—	2	14	25	56	3·2	5·5	0·8	*	0·29														20719
24–39	LC	8·1		—	3	19	19	51	7·9	6·0	4·1	*	0·12														20720
39–48	LC	8·9		—	4	23	14	52	6·8			0·33	0·09														20721
WANALTA LOAM: PROFILE 37—MAP 17																											
0–6	L	6·4		—	1	50	29	17	0·8	4·4		0·01	0·01	0·10	1·21												17859
8–15	MC	8·5		—	—	29	20	50	1·7	5·9		0·04	0·03														17860
15–29	LC	9·2		1	1	35	22	41	1·6	4·7	0·2	0·08	0·04														17861
29–41	LC	9·2		—	—	12	38	49	1·9	5·4	0·2	0·13	0·08														17862
41–63	LC	9·0		—	—	33	21	45	1·6	4·8		0·16	0·10														17863

APPENDIX I.—*continued.*

ANALYTICAL DATA FOR REPRESENTATIVE PROFILES—*continued.*

Depth	Field Texture	pH	Moisture 15 Atmosphere	Gravel ($CaCO_3$)	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 320)	Sodium Chloride (Cl x 1·64)	Nitrogen	Organic Carbon	Exchangeable Cations (m.e.%—milliequivalents per 100 g of soil; %—percentage of cation exchange capacity): H m.e.%	H %	Ca m.e.%	Ca %	Mg m.e.%	Mg %	K m.e.%	K %	Na m.e.%	Na %	Cations Exchange Capacity	Sample No.
in.			%	%	%	%	%	%	%	%	%	%	%	%	%	m.e.%	%	m.e.%	%	m.e.%	%	m.e.%	%	m.e.%	%	m.e.%	
WANALTA LOAM: PROFILE 40—MAP 18																											
0–4	L	5·7	6·9		2	38	37	20		4·6		0·02	0·01	0·12	1·39	8·6	21	3·7	25	1·5	10	0·9	6	0·2	1	14·9	17883
4–8	CL	6·6		—	2	35	38	24	0·4	3·3		0·02	0·01	0·05	0·32												17884
8–17	MC	8·0	16·6	—	1	24	23	51	0·9	5·7		0·03	0·02			4·4	19	7·7	33	8·9	38	0·6	3	1·5	7	23·1	17885
17–24	MC	8·7		—	1	26	20	53	1·2	5·7	—	0·06	0·04														17886
24–33	MC	9·0		—	1	33	20	45	1·5	5·1	0·5	0·13	0·06			—	0	8·5	37	10·7	47	0·7	3	3·0	13	22·9	17887
33–45	LC	9·0		—	2	41	15	39	2·4		0·7	0·17	0·08														17888
45–58	FSC	8·8		—	4	47	15	32	1·1	3·6		0·16	0·09														17889
58–78	MC	8·7		—	3	26	26	45	1·2	4·6		0·21	0·12														17790
YAMBUNA CLAY: PROFILE 1—MAP 3																											
0–1	CL	7·3		—	1	21	36	37	2·0	9·5		0·09	0·05	0·24	3·44												23331
1–11	HC	7·6		—	1	6	25	64	1·9			0·10	0·07	0·11	1·00												23332
11–24	HC	8·8		—	—	6	31	61	2·1	6·4	0·5	0·17	0·08														23333
24–36	MC	8·9		4	1	9	37	49	2·0		1·0	0·19	0·09														23334
YUGA CLAY: PROFILE 7—MAP 5																											
0–3	LC	6·6	11·9	—	5	39	18	35	1·2	5·6		0·03	0·02	0·08	1·10	8·4	41	3·3	16	6·2	30	0·9	4	1·8	9	20·6	20705
3–14	HC	8·3	28·5	—	1	14	10	72	1·5			0·11	0·07	0·09	0·65	—	0	8·2	26	15·3	48	1·3	4	6·8	22	31·6	20706
14–25	HC	8·7		—	1	14	11	71	2·2		0·1	0·38	0·16														20707
25–41	HC	8·5		—	1	19	15	60	3·5	8·3	0·5	*	0·18			—	0	2·3	8	14·9	54	1·2	4	9·3	34	27·7	20708
41–62	MC	8·2		—	1	21	16	56	4·8	6·1	1·6	*	0·23														20709
62–78	MC	8·5		—	2	25	15	57	2·2	5·6		0·61	0·28														20710