

### **3. Listing of Soil Properties by Property for Soil Types and Groups of Irrigation Districts**

**Table 2.1 Particle size distribution of Horizon A of soil types - MV District**

Soil Group	Soil Type	No. of Sampling Points	Avg. Depth of Horizon A (mm)	Particle Size Distribution***																				
				Clay (%)						Silt (%)						Sand (%)								
				Mean	Std.	Min.	Max.	Percentile			Mean	Std.	Min.	Max.	Percentile			Mean	Std.	Min.	Max.	Percentile		
								25	50	75					25	50	75					25	50	75
1S*	Sandmount sand	4		1.1	0.5	0.3	1.5	0.7	1.2	1.4	7.9	3.4	5.8	13.0	6.0	6.4	9.8	91.1	3.7	85.6	93.9	89.0	92.3	93.2
	Sandmount sand phase	4		2.0	0.2	1.8	2.2	1.8	2.0	2.2	21.1	1.8	19.7	23.7	20.0	20.5	22.2	76.9	1.7	74.4	78.2	75.9	77.5	77.9
	Group average	8		1.5	0.6	0.3	2.2	1.2	1.6	2.0	14.5	7.5	5.8	23.7	6.4	16.4	20.5	84.0	8.0	74.4	93.9	77.5	81.9	92.4
1D*	Cobram sandy loam & Ss	2	260	26.9		26.8	26.9				28.2		28.0	28.3				45.0		44.8	45.2			
	Group average**	70	196	12.3	8.5	3.1	44.1	7.4	10.0	12.2	37.8	7.9	19.5	54.0	32.3	38.5	43.6	49.9	10.9	21.3	76.6	43.5	48.6	56.9
2	Waaia loam	10	151	14.5	5.8	7.3	26.4	10.6	13.2	19.4	31.9	5.5	23.8	39.6	27.3	31.9	36.6	53.6	7.3	43.9	68.9	49.1	51.3	57.9
	Waaia loam phase	4	175	9.3	1.9	6.9	11.4	8.1	9.5	10.5	23.5	2.9	19.5	26.2	21.5	24.2	25.6	67.2	4.4	64.1	73.6	64.6	65.4	69.7
	Cobram loam	12	192	18.1	9.2	4.8	38.6	11.0	17.8	23.5	32.1	6.5	24.7	48.2	27.5	31.1	35.0	49.8	11.5	32.1	70.1	43.4	48.5	57.8
	Moira loam friable phase	10	205	17.2	7.2	9.6	32.0	11.5	14.6	22.1	31.0	3.3	26.2	36.4	27.7	31.3	32.9	51.7	6.3	40.3	61.8	47.4	52.2	56.4
	Group average	36	182	15.9	7.5	4.8	38.6	10.7	13.4	20.6	30.8	5.6	19.5	48.2	26.2	31.0	35.0	53.3	9.7	32.1	73.6	47.5	52.6	60.7
3	Moira loam	2	210	11.1		7.2	15.0				30.8		27.6	34.1				58.1		57.4	58.7			
	Naring loam	8	160	21.1	6.6	13.9	32.3	15.9	19.5	25.9	31.2	5.2	24.7	38.4	25.7	33.0	34.6	47.7	6.8	41.2	61.3	43.0	45.9	50.7
	Group average	10	170	19.1	7.4	7.2	32.3	14.0	18.2	22.9	31.1	4.8	24.7	38.4	26.6	33.0	34.1	49.8	7.4	41.2	61.3	43.0	47.4	57.4
5	Ulupna clay	2	140	43.8		33.7	53.8				33.9		27.6	40.1				22.4		18.5	26.2			
	Group average**	16	176	32.5	13.3	16.2	62.7	23.1	29.9	35.6	30.6	4.9	22.9	40.3	27.0	30.2	32.5	36.9	12.3	10.9	56.6	26.8	39.6	46.5
6	Muckatah clay loam	6	217	31.0	7.3	21.3	41.5	25.6	31.0	35.8	39.5	8.7	27.4	50.9	31.8	40.6	45.8	29.4	6.6	21.0	39.4	23.4	30.2	32.4
	Boosey loam friable phase	4	168	19.4	3.9	16.1	24.0	16.2	18.8	22.6	33.8	1.7	32.5	36.3	32.7	33.2	34.9	46.8	3.5	43.1	51.4	44.2	46.4	49.4
	Boosey loam	2	185	24.9		17.7	32.2				37.4		36.7	38.1				37.7		31.1	44.3			
	Group average	12	195	26.1	8.2	16.1	41.5	19.5	24.8	32.7	37.3	6.5	27.4	50.9	32.7	36.5	40.6	36.6	9.9	21.0	51.4	30.3	35.9	44.8

Note: S\* Sandy soils, D\* Duplex soils; \*\* Group average of soils of three irrigation districts; Std. = Standard deviation; Min. = Minimum; Max. = Maximum; \*\*\* Particle size limit: clay < 2 µm, silt 2-50 µm, sand 50-2000 µm.

**Table 2.2 Particle size distribution of Horizon A of soil types - GV District**

Soil Group	Soil Type	No. of Sampling Points	Avg. Depth of Horizon A (mm)	Particle Size Distribution***																				
				Clay (%)						Silt (%)						Sand (%)								
				Mean	Std.	Min.	Max.	Percentile			Mean	Std.	Min.	Max.	Percentile			Mean	Std.	Min.	Max.	Percentile		
								25	50	75					25	50	75					25	50	75
1D*	East Shepparton fine sandy loam	14	196	21.2	13.3	3.5	44.1	10.6	17.2	33.1	37.4	8.6	23.6	49.9	26.4	39.9	44.1	41.4	13.2	21.3	73.0	32.4	39.8	48.8
	Group average**	70	196	12.3	8.5	3.1	44.1	7.4	10.0	12.2	37.8	7.9	19.5	54.0	32.3	38.5	43.6	49.9	10.9	21.3	76.6	43.5	48.6	56.9
2	Katamatite loam	4	220	11.7	2.0	10.2	14.6	10.4	10.9	12.9	28.9	3.6	26.1	34.0	26.5	27.7	31.3	59.5	3.2	55.3	63.0	57.3	59.8	61.6
	Shepparton fine sandy loam	54	176	12.9	4.6	4.4	25.6	9.5	11.9	16.2	37.9	7.3	21.0	63.4	33.4	35.3	42.3	49.2	10.3	23.2	74.7	45.3	50.6	57.0
	Group average	58	186	12.8	4.4	4.4	25.6	9.6	11.7	15.5	37.3	7.5	21.0	63.4	33.2	35.2	41.3	49.9	10.3	23.2	74.7	45.4	51.5	57.3
3	Lemnos loam friable phase	8	179	19.9	5.8	14.3	32.3	15.9	18.3	22.2	40.8	7.3	28.0	48.7	36.2	40.8	47.7	39.3	7.7	29.8	49.5	31.2	40.9	45.5
	Lemnos loam semi friable phase	4	203	9.1	1.9	7.6	11.9	8.0	8.5	10.2	33.6	1.2	31.8	34.4	32.9	34.2	34.4	57.2	2.4	54.1	59.7	55.6	57.5	58.9
	Lemnos loam	38	166	18.0	8.3	7.4	41.7	11.6	16.2	21.9	36.4	9.0	23.6	65.0	30.3	35.9	40.9	45.6	12.5	16.7	65.1	43.0	47.2	53.6
	Goulburn loam friable phase	4	195	17.1	4.3	12.0	21.0	13.6	17.7	20.6	31.1	2.9	28.2	33.7	28.6	31.2	33.5	51.9	7.1	45.7	59.8	45.9	51.0	57.8
	Group average	54	173	17.6	7.8	7.4	41.7	11.9	16.2	21.2	36.5	8.3	23.6	65.0	30.5	35.3	40.9	46.0	11.8	16.7	65.1	42.1	46.9	55.1
4	Goulburn loam	20	187	17.7	9.6	4.2	36.5	9.0	16.9	24.1	38.6	5.7	29.0	49.2	33.9	39.1	42.3	43.7	8.2	31.3	57.7	35.3	46.0	50.2
	Goulburn clay loam	4	283	13.6	2.1	11.5	16.3	12.0	13.4	15.3	40.3	0.8	39.3	41.3	39.7	40.3	40.9	46.0	2.9	42.5	49.1	43.8	46.3	48.3
	Group average	24	203	17.0	8.9	4.2	36.6	10.9	15.6	23.4	38.9	5.3	29.0	49.2	35.9	39.9	42.0	44.1	7.6	31.3	57.7	38.0	46.0	49.2
5	Congupna clay loam	6	195	23.0	6.7	16.2	33.0	16.9	21.5	29.1	36.7	3.4	32.2	39.4	34.2	37.7	39.2	37.6	7.2	29.9	46.4	32.0	37.1	43.2
	Group average**	16	176	32.5	13.3	16.2	62.7	23.1	29.9	35.6	30.6	4.9	22.9	40.3	27.0	30.2	32.5	36.9	12.3	10.9	56.6	26.8	39.6	46.5
6	Congupna clay	4	207	25.7	9.0	17.4	38.0	19.1	23.7	32.2	32.9	4.3	27.2	40.3	31.7	31.9	34.4	44.1	10.2	26.7	56.6	38.9	46.7	48.7
	Group average**	22	190	29.1	13.7	16.1	70.8	21.0	24.8	33.0	34.6	6.9	21.5	50.9	31.9	33.2	38.9	36.3	12.6	7.6	56.5	30.2	39.7	45.3

Note: D\* Duplex soils; \*\* Group average of soils of the three irrigation districts; Std. = Standard deviation; Min. = Minimum; Max. = Maximum; \*\*\* Particle size limit: clay < 2 µm, silt 2-50 µm, sand 50-2000 µm.

**Table 2.3 Particle size distribution of Horizon A of soil types - RO District**

Soil Group	Soil Type	No. of Sampling Points	Avg. Depth of Horizon A (mm)	Particle Size Distribution***																				
				Clay (%)						Silt (%)						Sand (%)								
				Mean	Std.	Min.	Max.	Percentile			Mean	Std.	Min.	Max.	Percentile			Mean	Std.	Min.	Max.	Percentile		
								25	50	75					25	50	75					25	50	75
1D*	Nanneella fine sandy loam	54	186	9.5	3.7	3.1	22.1	6.9	8.9	11.2	38.2	7.7	19.5	54.0	32.7	38.5	43.4	52.3	9.2	35.0	76.6	46.2	51.6	60.5
	Group average**	70	196	12.3	8.5	3.1	44.1	7.4	10.0	12.2	37.8	7.9	19.5	54.0	32.3	38.5	43.6	49.9	10.9	21.3	76.6	43.5	48.6	56.9
2	Timmering loam	18	191	12.3	5.9	4.4	28.5	8.5	11.3	13.4	36.0	7.0	26.8	51.6	29.3	35.3	38.0	51.8	10.6	25.6	66.9	45.5	53.7	59.1
	Group average**	112	185	13.7	6.0	4.3	38.6	9.7	11.9	16.5	35.0	7.4	19.5	63.4	30.7	34.2	37.5	51.3	10.2	23.2	74.7	46.4	53.3	57.5
3	Wanalta loam	22	162	25.5	9.9	9.1	46.2	17.4	22.6	33.7	35.6	9.3	17.2	53.4	27.9	36.4	42.5	38.9	11.1	18.5	57.4	30.9	38.0	46.5
	Group average**	86	170	19.8	8.9	7.2	46.2	14.0	17.5	23.1	35.6	8.3	17.2	65.0	30.2	34.9	39.9	44.6	11.7	16.7	65.1	37.3	46.0	53.8
4	Wana loam	2	120	45.1		42.3	47.9				34.7		33.3	36.2				20.2		18.8	21.5			
	Koyuga clay loam	4	135	20.9	5.8	13.4	27.4	16.7	21.3	25.0	39.4	5.0	34.2	45.3	35.4	39.0	43.3	39.8	3.2	36.0	43.2	37.3	39.9	42.2
	Koga clay loam	4	173	29.6	11.8	21.7	47.0	22.4	24.9	36.9	41.3	11.0	28.5	54.5	32.9	41.1	49.6	29.1	17.0	8.3	44.7	15.4	31.7	42.8
	Group average	10	147	29.2	12.1	13.4	47.9	21.7	24.9	42.4	39.2	7.5	28.5	54.5	34.2	37.0	44.8	31.6	12.7	8.3	44.7	21.5	37.3	41.3
5	Rochester clay	2	160	45.8		41.4	50.2				24.7		22.9	26.4				29.6		26.9	32.2			
	Alta clay loam	6	162	33.9	14.4	23.6	62.7	26.0	29.9	31.1	29.3	3.2	25.0	34.1	26.5	29.7	30.4	36.9	13.1	10.9	46.5	39.3	39.9	44.8
	Group average	8	161	36.8	13.6	23.6	62.7	27.8	30.6	45.8	28.1	3.5	22.9	34.1	25.7	28.1	30.2	35.1	11.7	10.9	46.5	29.6	39.6	42.4
6	Wallenjoe clay	2	120	65.0		59.1	70.8				26.1		21.5	30.6				9.0		7.6	10.3			
	Carag clay	4	205	23.6	4.3	19.6	29.5	20.6	22.7	26.6	28.8	4.7	23.9	32.9	24.7	29.2	32.8	47.6	6.0	43.4	56.5	44.2	45.3	51.0
	Group average	6	177	37.4	21.9	19.6	70.8	21.7	26.6	59.1	27.9	4.9	21.5	32.9	23.9	28.0	32.8	34.7	20.5	7.6	56.5	10.3	44.2	45.5

Note: D\* Duplex soils; \*\* Group average of soils of the three irrigation districts; Std. = Standard deviation; Min. = Minimum; Max. = Maximum; \*\*\* Particle size limit: clay < 2 µm, silt 2-50 µm, sand 50-2000 µm.

**Table 3.1 Particle size distribution of Horizon B1 of soil types - MV District**

Soil Group	Soil Type	No. of Sampling Points	Particle Size Distribution***																				
			Clay (%)						Silt (%)						Sand (%)								
			Mean	Std.	Min.	Max.	Percentile			Mean	Std.	Min.	Max.	Percentile			Mean	Std.	Min.	Max.	Percentile		
							25	50	75					25	50	75					25	50	75
1S*	Sandmount sand	4	2.6	2.5	1.2	6.4	1.2	1.5	4.1	8.4	7.3	2.8	18.9	3.5	6.1	13.3	88.9	9.7	74.7	96.0	82.6	92.5	95.2
	Sandmount sand phase	4	5.7	1.9	3.0	7.3	4.5	6.2	6.8	20.1	2.5	17.6	23.0	18.1	19.9	22.2	74.2	2.0	71.4	76.0	72.7	74.7	75.7
	Group average	8	4.2	2.6	1.2	7.3	1.5	4.5	6.4	14.3	8.0	2.8	23.0	6.1	18.1	20.1	81.6	10.2	71.4	96.0	74.4	75.7	92.5
1D*	Cobram sandy loam & Ss	2	16.3		12.6	19.9				31.4		24.7	38.0				52.4		42.1	62.7			
	Group average**	70	29.7	8.9	11.5	52.3	24.3	29.4	35.5	41.5	10.1	18.0	57.2	36.6	44.4	48.8	28.8	11.7	9.4	62.7	20.8	26.3	36.1
2	Waaia loam	10	40.4	14.2	3.3	53.6	39.7	43.9	47.6	25.4	6.5	14.0	32.4	20.6	27.5	29.8	34.2	17.5	20.2	81.3	26.4	27.7	36.4
	Waaia loam phase	4	47.7	3.8	42.0	50.4	45.3	49.1	50.1	28.5	3.4	25.7	33.3	26.1	27.5	30.9	23.8	1.8	21.1	24.9	22.8	24.6	24.8
	Cobram loam	12	36.3	11.3	14.8	50.4	26.9	37.4	47.0	25.0	5.6	15.4	34.0	21.2	25.3	27.6	38.7	9.0	24.6	51.4	29.6	41.0	44.0
	Moirra loam friable phase	10	46.5	9.4	31.2	58.3	37.5	49.4	52.3	23.3	4.1	18.0	30.0	20.3	22.6	25.6	30.2	6.3	22.3	41.4	25.8	29.9	32.5
	Group average	36	41.5	11.7	3.3	58.3	34.1	45.1	49.4	25.0	5.3	14.0	34.0	21.3	25.8	28.8	33.5	11.7	20.2	81.3	25.4	29.9	40.1
3	Moirra loam	2	32.5		22.0	43.0				25.7		20.4	30.9				41.8		36.6	47.1			
	Naring loam	8	34.6	19.1	16.9	66.4	18.0	31.1	47.7	27.8	7.5	15.3	37.6	22.5	28.5	33.7	37.6	12.8	18.3	51.4	27.2	40.0	48.4
	Group average	10	34.2	17.6	16.9	66.5	18.7	32.5	44.4	27.4	7.1	15.3	37.6	21.9	28.5	31.8	38.5	11.7	18.3	51.4	32.6	40.8	47.1
5	Ulupna clay	2	49.1		26.8	71.3				31.1		20.2	41.9				19.9		8.5	31.2			
	Group average**	16	55.1	12.4	26.8	71.3	46.0	59.1	63.4	25.0	8.0	13.9	41.9	17.8	24.2	30.7	19.8	7.4	8.5	31.2	14.2	19.8	26.8
6	Muckatah clay loam	6	43.8	12.0	33.9	60.9	35.5	37.8	57.0	32.3	10.4	18.8	45.1	22.9	32.3	42.7	23.8	7.6	16.2	33.4	17.3	21.8	32.7
	Boosey loam friable phase	4	42.5	15.1	21.3	57.0	33.1	45.9	52.0	28.5	4.4	24.5	33.6	24.8	27.9	32.2	29.0	12.0	18.0	45.2	20.1	26.5	37.9
	Boosey loam	2	51.8		51.3	52.3				28.9		28.3	29.5				19.3		18.2	20.5			
	Group average	12	44.7	11.8	21.3	60.9	35.5	45.9	54.6	30.5	7.6	18.8	45.1	24.8	30.1	33.2	24.8	8.8	16.2	45.2	18.1	21.4	31.7

Note: S\* Sandy soils, D\* Duplex soils; \*\* Group average of soils of the three irrigation districts; Std. = Standard deviation; Min. = Minimum; Max. = Maximum; \*\*\* Particle size limit: clay < 2 µm, silt 2-50 µm, sand 50-2000 µm.

**Table 3.2 Particle size distribution of Horizon B1 of soil types - GV District**

Soil Group	Soil Type	No. of Sampling Points	Particle Size Distribution***																				
			Clay (%)						Silt (%)						Sand (%)								
			Mean	Std.	Min.	Max.	Percentile			Mean	Std.	Min.	Max.	Percentile			Mean	Std.	Min.	Max.	Percentile		
							25	50	75					25	50	75					25	50	75
1D*	East Shepparton fine sandy loam	14	28.5	7.9	15.8	46.4	25.3	28.1	33.0	39.4	7.6	27.3	49.8	33.3	37.4	48.1	32.1	7.7	21.5	47.4	26.1	30.8	37.3
	Group average**	70	29.7	8.9	11.5	52.3	24.3	29.4	35.5	41.5	10.1	18.0	57.2	36.6	44.4	48.8	28.8	11.7	9.4	62.7	20.8	26.3	36.1
2	Ketamatite loam	4	20.9	11.3	11.6	37.3	13.8	17.4	28.0	28.1	1.8	26.0	30.0	26.8	28.2	29.5	51.0	9.7	36.7	58.4	45.2	54.4	56.7
	Shepparton fine sandy loam	54	37.6	11.2	11.5	57.7	31.0	39.6	44.9	36.4	7.0	10.1	48.6	32.9	36.3	41.6	26.1	9.1	10.3	49.8	20.2	24.7	31.2
	Group average	58	36.4	11.9	11.5	57.7	28.3	38.4	44.8	35.8	7.1	10.1	48.6	31.8	35.5	41.5	27.8	11.0	10.3	58.4	20.2	25.5	33.6
3	Lemnos loam friable phase	8	46.6	9.9	31.9	60.1	38.7	47.4	54.5	32.1	6.6	23.0	42.9	26.3	33.0	36.1	21.3	5.7	14.6	31.7	17.0	19.6	25.3
	Lemnos loam semi friable phase	4	45.3	3.5	40.9	49.4	42.8	45.4	47.8	25.9	3.7	23.0	31.4	23.8	24.6	28.0	28.8	2.7	26.0	32.2	26.8	28.5	30.8
	Lemnos loam	37	42.6	13.9	14.5	70.4	32.4	43.6	51.3	29.4	7.3	15.4	44.7	24.6	29.9	34.4	28.0	11.6	4.2	63.5	20.4	26.3	35.7
	Goulburn loam friable phase	4	54.1	4.8	48.2	59.8	50.9	54.3	57.3	20.7	3.9	17.5	26.0	17.8	19.7	23.7	25.1	5.2	19.1	30.5	20.9	25.5	29.3
	Group average	53	44.3	12.6	14.5	70.4	38.7	44.9	52.6	28.9	7.2	15.4	44.7	24.2	27.9	34.3	26.9	10.3	4.2	63.5	19.8	26.0	31.8
4	Goulburn loam	20	33.0	13.1	6.5	50.5	26.3	35.6	40.6	37.2	6.1	29.1	53.4	33.3	35.7	39.4	29.8	11.0	17.0	57.7	21.3	25.3	36.4
	Goulburn clay loam	4	30.7	4.1	27.3	36.5	27.8	29.4	33.5	37.9	3.4	33.6	41.5	35.2	38.2	40.5	31.5	5.8	24.1	38.1	27.6	31.9	35.3
	Group average	24	32.6	12.0	6.6	50.5	27.5	34.5	40.4	37.3	5.7	29.1	53.4	33.9	36.3	39.5	30.1	10.2	17.0	57.7	22.8	27.8	36.4
5	Congupna clay loam	6	47.0	7.8	39.3	58.8	41.4	44.5	53.6	30.5	4.3	23.1	36.2	29.6	31.0	31.8	22.6	7.8	11.6	30.3	14.8	24.6	29.4
	Group average**	16	55.1	12.4	26.8	71.3	46.0	59.1	63.4	25.0	8.0	13.9	41.9	17.8	24.2	30.7	19.8	7.4	8.5	31.2	14.2	19.8	26.8
6	Congupna clay	4	35.0	3.6	32.0	40.2	32.9	33.9	37.1	36.2	2.4	32.7	38.3	34.8	37.0	37.6	28.8	4.4	22.8	33.6	25.9	29.3	31.6
	Group average**	22	46.9	12.3	21.3	63.7	35.5	49.1	57.0	29.3	8.3	15.2	45.1	23.3	30.1	34.2	23.8	8.8	7.3	45.2	18.5	22.6	29.5

Note: D\* Duplex soils; \*\* Group average of soils of the three irrigation districts; Std. = Standard deviation; Min. = Minimum; Max. = Maximum; \*\*\* Particle size limit: clay < 2 µm, silt 2-50 µm, sand 50-2000 µm.

**Table 3.3 Particle size distribution of Horizon B1 of soil types - RO District**

Soil Group	Soil Type	No. of Sampling Points	Particle Size Distribution***																				
			Clay (%)							Silt (%)							Sand (%)						
			Mean	Std.	Min.	Max.	Percentile			Mean	Std.	Min.	Max.	Percentile			Mean	Std.	Min.	Max.	Percentile		
							25	50	75					25	50	75					25	50	75
1D*	Nanneella fine sandy loam	54	30.5	9.0	11.5	52.3	24.6	31.0	35.9	42.5	10.5	18.0	57.2	38.9	44.9	49.3	27.1	11.5	9.4	59.8	19.4	24.6	32.3
	Group average**	70	29.7	8.9	11.5	52.3	24.3	29.4	35.5	41.5	10.1	18.0	57.2	36.6	44.4	48.8	28.8	11.7	9.4	62.7	20.8	26.3	36.1
2	Timmering loam	18	40.6	14.6	8.2	61.5	34.3	43.4	50.5	31.6	6.9	17.0	43.4	26.7	34.2	36.3	27.8	15.8	7.1	61.2	15.9	21.5	38.3
	Group average**	112	38.7	12.4	3.3	61.5	32.2	41.5	48.0	31.7	8.1	10.1	48.6	26.3	32.4	36.9	29.6	12.3	7.1	81.3	21.9	26.7	36.5
3	Wanalta loam	22	41.1	15.5	17.7	60.1	22.6	47.9	53.7	35.7	15.2	12.0	73.3	23.7	32.8	47.3	23.2	10.2	7.9	46.6	15.2	22.7	30.8
	Group average**	85	42.3	14.2	14.5	70.4	31.9	44.7	52.9	30.5	10.3	12.0	73.3	23.6	29.9	35.0	27.3	11.2	4.2	63.5	18.5	26.0	33.8
4	Wana loam	2	59.1		58.1	60.1				28.5		26.4	30.6				12.4		11.3	13.5			
	Koyuga clay loam	4	51.9	4.1	47.5	57.3	49.1	51.5	54.7	29.2	5.7	24.2	37.3	25.6	27.5	32.7	18.9	2.9	15.2	22.2	16.8	19.1	21.0
	Koga clay loam	4	39.7	12.8	23.1	54.0	31.0	40.9	48.5	40.1	9.8	33.2	54.5	34.2	36.3	46.0	20.2	8.3	8.5	28.0	15.2	22.1	25.2
	Group average	10	48.5	11.2	23.1	60.1	43.1	51.5	57.3	33.4	8.7	24.2	54.5	27.0	31.9	37.3	18.1	5.9	8.5	28.0	13.5	19.1	22.2
5	Rochester clay	2	59.5		56.8	62.3				16.7		16.3	17.2				23.7		20.5	26.9			
	Alta clay loam	6	63.8	3.0	59.5	67.3	61.8	63.6	67.0	20.4	4.6	13.9	24.9	17.3	20.9	24.4	15.8	3.8	11.0	20.9	12.6	15.7	19.2
	Group average	8	62.7	3.5	56.8	67.3	60.6	62.7	65.6	19.5	4.3	13.9	24.9	16.7	17.6	24.2	17.8	5.2	11.0	26.9	13.7	17.9	20.7
6	Wallenjoey clay	2	61.0		58.3	63.7				31.6		28.8	34.4				7.4		7.3	7.5			
	Carag clay	4	58.4	3.7	54.2	62.1	55.3	58.7	61.5	17.8	1.7	15.2	18.8	16.8	18.5	18.8	23.8	4.5	19.5	28.3	19.9	23.7	27.6
	Group average	6	59.3	3.6	54.2	63.7	56.5	59.6	62.2	22.4	7.5	15.2	34.4	18.3	18.8	28.8	18.3	9.2	7.3	28.3	7.5	19.9	27.0

Note: D\* Duplex soils; \*\* Group average of soils of the three irrigation districts; Std. = Standard deviation; Min. = Minimum; Max. = Maximum; \*\*\* Particle size limit: clay < 2 µm, silt 2-50 µm, sand 50-2000 µm.

Table 4.1 Soil depth, bulk density and organic matter content of Horizon A of soil types - MV District

Soil Group	Soil Type	Depth of Horizon A (mm)							Bulk Density (g/cm <sup>3</sup> )							Organic Matter (%)									
		Sampling Points	Mean	Std.	Min.	Max.	Percentile			Sampling Points	Mean	Std.	Min.	Max.	Percentile			Sampling Points	Mean	Std.	Min.	Max.	Percentile		
							25	50	75						25	50	75						25	50	75
1S*	Sandmount sand	0							4	1.59	0.07	1.52	1.66	1.53	1.58	1.64	4	1.4	0.1	1.3	1.6	1.4	1.4	1.5	
	Sandmount sand phase	0							4	1.71	0.05	1.67	1.79	1.67	1.70	1.75	4	2.1	0.3	1.8	2.5	1.9	2.0	2.3	
	Group average	0							8	1.65	0.09	1.55	1.79	1.58	1.67	1.70	8	1.8	0.4	1.3	2.5	1.4	1.7	2.0	
1D*	Cobram sandy loam & Ss	2	260		200	320			2	1.63		1.58	1.69				2	3.6		3.3	3.8				
	Group average**	30	196	42	140	320	170	185	230	70	1.5	0.2	1.0	1.8	1.4	1.5	1.6	57	6.6	2.8	1.6	12.0	4.0	7.2	8.5
2	Waaia loam	10	151	27	130	200	130	140	160	10	1.57	0.13	1.26	1.74	1.53	1.59	1.61	4	3.9	0.8	2.7	4.6	3.5	4.2	4.4
	Waaia loam phase	4	175	21	150	200	160	175	190	4	1.33	0.05	1.26	1.37	1.30	1.35	1.37	4	6.2	0.7	5.7	7.2	5.8	5.9	6.6
	Cobram loam	12	192	24	150	220	170	200	210	12	1.58	0.12	1.31	1.75	1.54	1.58	1.65	6	4.0	0.9	2.9	5.1	3.1	4.0	4.6
	Moirra loam friable phase	10	205	37	150	280	190	200	230	10	1.65	0.08	1.49	1.76	1.61	1.66	1.71	7	4.7	1.0	3.1	5.9	3.8	5.0	5.3
	Group average	36	182	35	130	280	150	185	205	36	1.57	0.14	1.26	1.76	1.51	1.59	1.67	21	4.6	1.2	2.7	7.2	3.4	4.6	5.4
3	Moirra loam	2	210		190	230				2	1.64		1.55	1.73				1	2.9						
	Naring loam	8	160	19	130	180	145	165	175	8	1.68	0.07	1.57	1.77	1.64	1.67	1.73	4	4.1	0.2	3.8	4.2	3.9	4.1	4.2
	Group average	10	170	28	130	230	150	170	180	10	1.67	0.07	1.55	1.77	1.62	1.67	1.73	5	3.8	0.5	2.9	4.2	3.6	4.0	4.2
5	Ulupna clay	2	140		130	150				2	1.56		1.47	1.65				1	4.0						
	Group average**	16	176	29	130	230	155	170	200	16	1.43	0.10	1.29	1.65	1.37	1.41	1.51	12	5.1	1.6	2.5	8.0	4.1	5.3	6.1
6	Muckatah clay loam	6	217	16	200	240	200	215	230	6	1.54	0.09	1.38	1.64	1.54	1.55	1.57	3	1.7	0.4	1.4	2.1			
	Boosey loam friable phase	4	168	25	140	200	150	165	185	4	1.64	0.08	1.53	1.72	1.59	1.66	1.70	4	4.4	1.5	3.1	6.5	3.5	3.9	5.3
	Boosey loam	2	185		180	190				2	1.63		1.61	1.65				1	3.8						
	Group average	12	195	29	140	240	175	200	215	12	1.59	0.09	1.38	1.72	1.54	1.59	1.65	8	3.3	1.7	1.4	6.5	1.9	3.5	3.9

Note: S\* Sandy soils, D\* Duplex soils; \*\* Group average of soils of the three irrigation districts; Std. = Standard deviation; Min. = Minimum; Max. = Maximum.



**Table 4.2 Soil depth, bulk density and organic matter content of Horizon A of soil types - GV District**

Soil Group	Soil Type	Depth of Horizon A (mm)								Bulk Density (g/cm <sup>3</sup> )								Organic Matter (%)							
		Sampling Points	Mean	Std.	Min.	Max.	Percentile			Sampling Points	Mean	Std.	Min.	Max.	Percentile			Sampling Points	Mean	Std.	Min.	Max.	Percentile		
							25	50	75						25	50	75						25	50	75
1D*	East Shepparton fine sandy loam	14	196	36	150	250	170	185	240	14	1.62	0.12	1.36	1.80	1.53	1.61	1.72	11	2.7	0.7	1.6	4.0	2.2	2.7	3.3
	Group average**	30	196	42	140	320	170	185	230	70	1.5	0.2	1.0	1.8	1.4	1.5	1.6	57	6.6	2.8	1.6	12.0	4.0	7.2	8.5
2	Katamatite loam	4	220	22	200	250	205	215	235	4	1.62	0.12	1.44	1.70	1.54	1.66	1.69	4	4.3	1.9	2.5	6.8	2.9	3.9	5.6
	Shepparton fine sandy loam	14	176	25	140	220	150	175	190	54	1.53	0.12	1.01	1.76	1.49	1.53	1.57	48	5.4	1.1	2.3	7.6	4.6	5.5	6.3
	Group average	18	186	30	140	250	160	185	210	58	1.53	0.12	1.01	1.76	1.49	1.53	1.59	52	5.3	1.2	2.3	7.6	4.5	5.4	6.3
3	Lemnos loam friable phase	8	179	57	100	280	135	190	200	8	1.67	0.09	1.53	1.79	1.58	1.68	1.74	8	3.3	0.8	2.1	4.6	2.8	3.3	3.7
	Lemnos loam semi friable phase	4	203	19	190	230	190	195	215	4	1.61	0.03	1.58	1.64	1.60	1.62	1.63	4	4.1	0.6	3.6	4.8	3.6	3.9	4.5
	Lemnos loam	38	166	34	100	290	150	165	180	38	1.51	0.19	1.00	1.77	1.40	1.56	1.62	20	4.7	1.6	2.7	8.2	3.5	4.3	5.6
	Goulburn loam friable phase	4	195	17	180	220	185	190	205	4	1.75	0.06	1.68	1.81	1.71	1.76	1.80	4	2.9	0.6	2.5	3.8	2.6	2.7	3.3
	Group average	54	173	37	100	290	150	170	190	54	1.56	0.18	1.00	1.81	1.53	1.59	1.69	36	4.1	1.4	2.1	8.2	3.1	3.8	4.9
4	Goulburn loam	20	187	64	130	340	150	155	200	20	1.50	0.12	1.33	1.78	1.41	1.48	1.58	17	4.6	0.8	3.4	6.7	4.2	4.6	5.1
	Goulburn clay loam	4	283	22	260	310	265	280	300	4	1.65	0.01	1.64	1.66	1.64	1.65	1.66	4	3.3	0.7	2.5	4.2	2.8	3.3	3.8
	Group average	24	203	69	130	340	150	160	275	24	1.53	0.12	1.33	1.78	1.42	1.52	1.64	21	4.4	0.9	2.5	6.7	3.8	4.4	4.9
5	Congupna clay loam	6	207	12	200	230	200	200	210	6	1.40	0.07	1.32	1.51	1.36	1.38	1.45	5	5.0	1.7	2.5	6.7	3.8	5.5	6.4
	Group average**	16	176	29	130	230	155	170	200	16	1.43	0.10	1.29	1.65	1.37	1.41	1.50	12	5.1	1.6	2.5	8.0	4.1	5.3	6.1
6	Congupna clay	4	195	13	180	210	185	195	205	4	1.52	0.02	1.48	1.53	1.50	1.52	1.53	4	3.6	0.5	2.9	4.2	3.3	3.7	4.0
	Group average**	22	190	34	100	240	180	200	210	22	1.56	0.12	1.23	1.72	1.53	1.55	1.64	17	3.7	1.4	1.4	6.5	2.8	3.8	4.3

Note: D\* Duplex soil, \*\* Group average of soils of the three irrigation districts, Std. = Standard deviation, Min. = Minimum, Max. = Maximum.

**Table 4.3 Soil depth, bulk density and organic matter content of Horizon A of soil types - RO District**

Soil Group	Soil Type	Depth of Horizon A (mm)								Bulk Density (g/cm <sup>3</sup> )								Organic Matter (%)							
		Sampling Points	Mean	Std.	Min.	Max.	Percentile			Sampling Points	Mean	Std.	Min.	Max.	Percentile			Sampling Points	Mean	Std.	Min.	Max.	Percentile		
							25	50	75						25	50	75						25	50	75
1D*	Nanneella fine sandy loam	14	186	37	140	260	150	175	220	54	1.43	0.16	0.96	1.80	1.37	1.44	1.50	44	7.7	2.1	1.9	12.0	6.8	7.8	8.9
	Group average**	30	196	42	140	320	170	185	230	70	1.5	0.2	1.0	1.8	1.4	1.5	1.6	57	6.6	2.8	1.6	12.0	4.0	7.2	8.5
2	Timmering loam	18	191	42	130	290	160	185	210	18	1.43	0.18	1.09	1.77	1.28	1.44	1.58	11	5.0	1.8	1.9	8.4	4.0	5.3	6.1
	Group average**	72	185	36	130	290	160	185	210	112	1.53	0.15	1.01	1.77	1.46	1.55	1.62	84	5.1	1.3	1.9	8.4	4.4	5.1	6.1
3	Wanalta loam	22	162	38	100	262	140	160	180	22	1.50	0.15	1.19	1.73	1.38	1.54	1.61	16	5.0	1.7	2.5	7.4	3.6	4.8	6.4
	Group average**	86	170	36	100	290	150	170	190	86	1.55	0.17	1.00	1.81	1.48	1.59	1.68	57	4.3	1.5	2.1	8.2	3.1	4.0	5.1
4	Wana loam	2	120		120	120				2	1.40		1.34	1.45				1	5.3						
	Koyuga clay loam	4	135	17	120	160	125	130	145	4	1.64	0.10	1.51	1.74	1.57	1.66	1.72	2	3.4		3.4	3.4			
	Koga clay loam	4	173	21	150	200	160	170	185	4	1.52	0.09	1.41	1.63	1.46	1.52	1.59	2	4.0		3.4	4.6			
	Group average	10	147	28	120	200	120	140	170	10	1.55	0.13	1.34	1.74	1.45	1.53	1.63	5	4.0	0.9	3.4	5.3	3.4	3.4	4.8
5	Rochester clay	2	160		150	170				2	1.51		1.50	1.53				1	2.9						
	Alta clay loam	6	162	16	130	170	160	170	170	6	1.38	0.08	1.29	1.51	1.30	1.38	1.43	5	5.9	1.3	4.8	8.0	5.0	5.5	6.4
	Group average	8	161	15	130	170	155	170	170	8	1.42	0.09	1.29	1.53	1.34	1.41	1.51	6	5.4	1.7	2.9	8.0	4.8	5.3	5.9
6	Wallenjoe clay	2	120		100	140				2	1.42		1.23	1.61				1	2.5						
	Carag clay	4	205	25	180	240	190	200	220	4	1.58	0.16	1.36	1.72	1.45	1.61	1.70	4	4.9	0.8	4.0	5.7	4.3	5.0	5.5
	Group average	6	177	50	100	240	140	190	200	6	1.52	0.19	1.23	1.72	1.36	1.58	1.68	5	4.4	1.3	2.5	5.7	3.6	4.6	5.4

Note: D\* Duplex soil, \*\* Group average of soils of the three irrigation districts, Std. = Standard deviation, Min. = Minimum, Max. = Maximum.

Table 5.1 Bulk density and organic matter content of Horizon B1 of soil types - MV District

Soil Group	Soil Type	Bulk Density (g/cm <sup>3</sup> )								Organic Matter (%)							
		Sampling Points	Mean	Std.	Min.	Max.	Percentile			Sampling Points	Mean	Std.	Min.	Max.	Percentile		
							25	50	75						25	50	75
1S*	Sandmount sand	4	1.65	0.10	1.54	1.74	1.56	1.66	1.74	4	1.2	0.2	1.0	1.5	1.0	1.1	1.4
	Sandmount sand phase	4	1.83	0.07	1.73	1.88	1.79	1.85	1.86	4	1.0	0.5	0.6	1.7	0.7	0.8	1.3
	Group average	8	1.74	0.12	1.54	1.88	1.66	1.74	1.85	8	1.1	0.4	0.6	1.7	0.8	1.0	1.4
1D*	Cobram sandy loam & Ss	2	1.71		1.67	1.74				2	2.6		2.1	3.1			
	Group average**	70	1.68	0.08	1.46	1.93	1.63	1.68	1.73	57	2.5	0.6	0.9	3.8	2.1	2.5	2.8
2	Waaia loam	10	1.60	0.07	1.49	1.69	1.56	1.58	1.67	4	2.6	0.7	1.9	3.4	2.0	2.5	3.2
	Waaia loam phase	4	1.64	0.04	1.60	1.70	1.61	1.63	1.67	4	2.9	0.7	2.3	3.8	2.4	2.7	3.4
	Cobram loam	12	1.69	0.10	1.55	1.84	1.62	1.66	1.77	6	2.0	0.4	1.4	2.5	1.9	2.0	2.1
	Moirra loam friable phase	10	1.59	0.07	1.44	1.66	1.57	1.61	1.63	7	2.6	0.3	2.3	3.1	2.4	2.5	2.7
	Group average	36	1.63	0.09	1.44	1.84	1.58	1.62	1.68	21	2.5	0.6	1.4	3.8	2.1	2.5	2.8
3	Moirra loam	2	1.73		1.62	1.84				1	1.4						
	Naring loam	8	1.66	0.13	1.42	1.84	1.59	1.68	1.74	4	2.2	0.8	1.1	2.9	1.6	2.3	2.7
	Group average	10	1.67	0.13	1.42	1.84	1.62	1.68	1.74	5	2.0	0.7	1.1	2.9	1.3	2.1	2.6
5	Ulupna clay	2	1.55		1.42	1.69				1	1.7						
	Group average**	16	1.51	0.09	1.41	1.69	1.44	1.47	1.59	12	1.9	0.4	1.3	2.5	1.7	1.8	2.2
6	Muckatah clay loam	6	1.63	0.08	1.52	1.71	1.57	1.63	1.71	3	1.2		1.1	1.3			
	Boosey loam friable phase	4	1.68	0.13	1.55	1.86	1.60	1.65	1.75	4	1.6	0.6	0.7	2.1	1.2	1.8	2.0
	Boosey loam	2	1.52		1.47	1.57				1	1.7						
	Group average	12	1.63	0.10	1.47	1.86	1.56	1.62	1.68	8	1.5	0.5	0.7	2.1	1.2	1.5	1.8

Note: S\* Sandy soils, D\* Duplex soils; \*\* Group average of soils of the three irrigation districts; Std. = Standard deviation; Min. = Minimum; Max. = Maximum.

**Table 5.2 Bulk density and organic matter content of Horizon B1 of soil types - GV District**

Soil Group	Soil Type	Bulk Density (g/cm <sup>3</sup> )								Organic Matter (%)							
		Sampling Points	Mean	Std.	Min.	Max.	Percentile			Sampling Points	Mean	Std.	Min.	Max.	Percentile		
							25	50	75						25	50	75
1D*	East Shepparton fine sandy loam	14	1.70	0.09	1.53	1.83	1.65	1.72	1.76	11	2.0	0.8	0.9	3.8	1.6	1.9	2.1
	Group average**	70	1.68	0.08	1.46	1.93	1.63	1.68	1.73	57	2.5	0.6	0.9	3.8	2.1	2.5	2.8
2	Katamatite loam	4	1.84	0.14	1.64	1.95	1.74	1.89	1.94	4	1.4	0.3	1.1	1.7	1.2	1.5	1.7
	Shepparton fine sandy loam	54	1.64	0.06	1.51	1.81	1.59	1.63	1.67	48	2.8	0.6	1.3	4.2	2.5	2.9	3.3
	Group average	58	1.65	0.08	1.51	1.95	1.59	1.64	1.68	52	2.7	0.7	1.1	4.2	2.2	2.9	3.3
3	Lemnos loam friable phase	8	1.69	0.09	1.58	1.81	1.63	1.66	1.79	8	1.8	0.2	1.4	2.1	1.7	1.9	1.9
	Lemnos loam semi friable phase	4	1.66	0.12	1.49	1.73	1.60	1.72	1.73	4	2.5	0.5	1.8	3.1	2.2	2.6	2.9
	Lemnos loam	37	1.65	0.10	1.48	1.94	1.59	1.63	1.73	20	2.0	0.7	1.1	3.8	1.6	1.7	2.5
	Goulburn loam friable phase	4	1.57	0.03	1.52	1.60	1.55	1.58	1.59	4	1.6	0.1	1.4	1.7	1.5	1.7	1.7
	Group average	53	1.65	0.10	1.48	1.94	1.58	1.63	1.73	36	2.0	0.6	1.1	3.8	1.6	1.8	2.2
4	Goulburn loam	20	1.64	0.13	1.41	1.91	1.55	1.63	1.72	17	2.2	1.0	1.0	5.0	1.5	2.1	2.4
	Goulburn clay loam	4	1.69	0.05	1.63	1.74	1.65	1.70	1.74	4	1.5	0.3	1.2	1.8	1.3	1.5	1.8
	Group average	24	1.65	0.12	1.42	1.91	1.59	1.64	1.74	21	2.0	0.9	1.0	5.0	1.5	1.9	2.2
5	Congupna clay loam	6	1.68	0.07	1.63	1.79	1.64	1.66	1.73	5	1.4	0.2	1.2	1.6	1.3	1.3	1.5
	Group average**	16	1.51	0.09	1.41	1.69	1.44	1.47	1.59	12	1.9	0.4	1.3	2.5	1.7	1.8	2.2
6	Congupna clay	4	1.58	0.08	1.47	1.67	1.53	1.59	1.65	4	1.6	0.2	1.3	1.8	1.5	1.7	1.7
	Group average**	22	1.60	0.12	1.41	1.86	1.52	1.59	1.65	17	1.7	0.7	0.7	3.3	1.3	1.6	2.2

Note: D\* Duplex soil, \*\* Group average of soils of the three irrigation districts, Std. = Standard deviation, Min. = Minimum, Max. = Maximum.

**Table 5.3 Bulk density and organic matter content of Horizon B1 of soil types - RO District**

Soil Group	Soil Type	Bulk Density (g/cm <sup>3</sup> )								Organic Matter (%)							
		Sampling Points	Mean	Std.	Min.	Max.	Percentile			Sampling Points	Mean	Std.	Min.	Max.	Percentile		
							25	50	75						25	50	75
1D*	Nanneella fine sandy loam	54	1.68	0.08	1.46	1.93	1.63	1.68	1.72	44	2.6	0.6	1.0	3.8	2.3	2.5	2.9
	Group average**	70	1.68	0.08	1.46	1.93	1.63	1.68	1.73	57	2.5	0.6	0.9	3.8	2.1	2.5	2.8
2	Timmering loam	18	1.62	0.10	1.48	1.81	1.55	1.59	1.68	11	2.3	0.3	1.8	2.9	2.1	2.3	2.5
	Group average**	112	1.64	0.09	1.44	1.95	1.58	1.63	1.68	84	2.6	0.7	1.1	4.2	2.1	2.6	3.1
3	Wanalta loam	22	1.53	0.11	1.29	1.71	1.47	1.52	1.59	16	2.2	0.2	1.7	2.5	2.1	2.2	2.4
	Group average**	85	1.62	0.12	1.29	1.94	1.56	1.62	1.71	57	2.0	0.5	1.1	3.8	1.7	1.9	2.4
4	Wana loam	2	1.50		1.47	1.52				1	1.5						
	Koyuga clay loam	4	1.50	0.05	1.43	1.55	1.46	1.51	1.54	2	2.2		1.9	2.5			
	Koga clay loam	4	1.54	0.04	1.49	1.57	1.52	1.56	1.56	2	2.0		1.8	2.1			
	Group average	10	1.52	0.05	1.43	1.57	1.49	1.53	1.56	5	2.0	0.4	1.5	2.5	1.7	1.9	2.2
5	Rochester clay	2	1.47		1.46	1.48				1	1.8						
	Alta clay loam	6	1.45	0.03	1.41	1.51	1.43	1.44	1.46	5	2.2	0.3	1.8	2.5	2.0	2.3	2.4
	Group average	8	1.45	0.03	1.41	1.51	1.43	1.45	1.47	6	2.1	0.3	1.8	2.5	1.8	2.2	2.3
6	Wallenjoe clay	2	1.49		1.41	1.57				1	1.3						
	Carag clay	4	1.47	0.06	1.41	1.56	1.42	1.45	1.51	4	2.9	0.4	2.3	3.3	2.5	2.9	3.2
	Group average	6	1.48	0.07	1.41	1.57	1.41	1.45	1.56	5	2.5	0.8	1.3	3.3	2.1	2.7	3.2

Note: D\* Duplex soil, \*\* Group average of soils of the three irrigation districts, Std. = Standard deviation, Min. = Minimum, Max. = Maximum.

Table 6.1 Soil EC, pH (H<sub>2</sub>O), pH (CaCl<sub>2</sub>) of Horizon A of soil types - MV District

Soil Group	Soil Type	No of Sampling Points	EC (dS/m)							pH (H <sub>2</sub> O)						pH (CaCl <sub>2</sub> )							
			Mean	Std.	Min.	Max.	Percentile			Mean	Std.	Min.	Max.	Percentile			Mean	Std.	Min.	Max.	Percentile		
							25	50	75					25	50	75					25	50	75
1S*	Sandmount sand	4	0.04	0.00	0.04	0.04	0.04	0.04	0.04	6.3	0.3	5.8	6.5	6.1	6.4	6.5	5.7	0.5	5.0	6.0	5.4	5.9	6.0
	Sandmount sand phase	4	0.12	0.02	0.10	0.14	0.10	0.12	0.14	8.5	0.5	7.9	9.0	8.2	8.6	8.9	7.5	0.4	6.9	7.9	7.2	7.6	7.8
	Group average	8	0.08	0.04	0.04	0.14	0.04	0.07	0.12	7.4	1.3	5.8	9.0	6.4	7.2	8.6	6.6	1.0	5.0	7.9	5.9	6.5	7.6
1D*	Cobram sandy loam & Ss	2	0.11		0.10	0.11				6.9		6.8	7.0				6.4		6.3	6.5			
	Group average**	57	0.15	0.08	0.06	0.45	0.11	0.13	0.16	6.1	0.9	5.2	8.5	5.6	5.7	6.1	5.4	0.7	4.6	7.3	5.0	5.1	5.5
2	Waaia loam	4	0.14	0.08	0.05	0.24	0.09	0.14	0.20	6.6	0.8	5.6	7.3	5.9	6.7	7.3	5.9	0.8	5.0	6.5	5.2	6.0	6.5
	Waaia loam phase	4	0.22	0.07	0.14	0.31	0.17	0.21	0.26	6.9	0.1	6.8	7.0	6.8	6.9	7.0	6.2	0.1	6.0	6.3	6.1	6.2	6.3
	Cobram loam	6	0.16	0.07	0.07	0.25	0.08	0.16	0.21	6.8	1.0	5.7	8.4	6.1	6.5	7.4	6.3	0.9	5.2	7.9	5.7	6.1	6.7
	Moira loam friable phase	7	0.11	0.06	0.06	0.21	0.06	0.08	0.17	6.3	0.9	5.3	7.9	5.9	5.9	7.1	5.6	1.1	4.8	7.4	4.9	5.1	6.5
	Group average	21	0.15	0.08	0.05	0.31	0.08	0.15	0.21	6.6	0.8	5.3	8.4	5.9	6.6	7.2	5.9	0.9	4.8	7.9	5.1	6.0	6.5
3	Moira loam	1	0.08							5.8							5.1						
	Naring loam	4	0.11	0.03	0.08	0.16	0.09	0.10	0.13	5.9	0.7	5.0	6.6	5.4	6.1	6.5	5.3	0.7	4.5	6.0	4.8	5.4	5.9
	Group average	5	0.10	0.03	0.08	0.16	0.08	0.10	0.12	5.9	0.6	5.0	6.6	5.6	5.8	6.4	5.3	0.6	4.5	6.0	5.0	5.1	5.8
5	Ulupna clay	1	0.10							6.0							5.1						
	Group average**	12	0.29	0.16	0.10	0.64	0.19	0.22	0.42	6.8	0.4	6.0	7.8	6.6	6.9	7.1	6.3	0.5	5.1	7.1	6.1	6.4	6.6
6	Muckatah clay loam	3	0.08	0.03	0.06	0.12				7.0	0.6	6.4	7.6				6.2	0.5	5.8	6.7			
	Boosey loam friable phase	4	0.08	0.03	0.04	0.12	0.06	0.08	0.10	5.6	0.2	5.4	5.9	5.5	5.6	5.8	4.9	0.1	4.8	5.0	4.9	4.9	5.0
	Boosey loam	1	0.13							6.2							5.5						
	Group average	8	0.09	0.03	0.04	0.13	0.07	0.08	0.12	6.2	0.8	5.4	7.6	5.6	6.1	6.8	5.5	0.7	4.8	6.7	4.9	5.3	5.9

Note: S\* Sandy soils, D\* Duplex soils, \*\* Group average of soils of the three irrigation districts.

**Table 6.2 Soil EC, pH (H<sub>2</sub>O), pH (CaCl<sub>2</sub>) of Horizon A of soil types - GV District**

Soil Group	Soil Type	No of Sampling Points	EC (dS/m)							pH (H <sub>2</sub> O)						pH (CaCl <sub>2</sub> )							
			Mean	Std.	Min.	Max.	Percentile			Mean	Std.	Min.	Max.	Percentile			Mean	Std.	Min.	Max.	Percentile		
							25	50	75					25	50	75					25	50	75
1D*	East Shepparton fine sandy loam	11	0.11	0.04	0.06	0.18	0.07	0.10	0.13	7.46	0.97	5.70	8.50	6.90	7.80	8.15	6.6	0.7	5.1	7.3	6.3	6.8	7.1
	Group average**	57	0.15	0.08	0.06	0.45	0.11	0.13	0.16	6.1	0.9	5.2	8.5	5.6	5.7	6.1	5.4	0.7	4.6	7.3	5.0	5.1	5.5
2	Katamatite loam	4	0.12	0.06	0.06	0.18	0.06	0.11	0.17	5.9	0.5	5.5	6.5	5.6	5.8	6.2	5.3	0.5	4.9	6.0	5.0	5.2	5.7
	Shepparton fine sandy loam	48	0.12	0.09	0.04	0.71	0.09	0.11	0.13	6.0	0.5	5.0	8.3	5.9	5.9	6.1	5.3	0.5	4.5	7.9	5.2	5.3	5.4
	Group average	52	0.12	0.09	0.04	0.71	0.09	0.11	0.13	6.0	0.5	5.0	8.3	5.9	5.9	6.1	5.3	0.5	4.5	7.9	5.2	5.3	5.4
3	Lemnos loam friable phase	8	0.08	0.03	0.04	0.13	0.06	0.07	0.10	6.0	0.5	5.3	6.8	5.7	5.9	6.4	5.3	0.6	4.7	6.1	4.9	5.2	5.9
	Lemnos loam semi friable phase	4	0.16	0.06	0.08	0.22	0.11	0.16	0.21	5.0	0.3	4.7	5.3	4.8	5.0	5.2	4.6	0.2	4.4	4.8	4.5	4.6	4.7
	Lemnos loam	20	0.21	0.15	0.06	0.67	0.13	0.17	0.24	6.9	0.6	5.8	8.6	6.5	6.9	7.1	6.3	0.7	5.4	8.6	5.9	6.3	6.6
	Goulburn loam friable phase	4	0.07	0.03	0.04	0.10	0.05	0.07	0.10	6.0	0.5	5.3	6.4	5.6	6.1	6.4	5.3	0.4	4.8	5.6	5.0	5.4	5.6
	Group average	36	0.16	0.13	0.04	0.67	0.08	0.13	0.19	6.4	0.9	4.7	8.6	5.8	6.4	6.9	5.8	0.9	4.4	8.6	5.0	5.9	6.3
4	Goulburn loam	17	0.17	0.18	0.05	0.73	0.07	0.10	0.13	6.4	0.8	5.5	8.4	5.8	6.1	6.6	5.8	1.1	4.9	8.3	5.2	5.4	5.9
	Goulburn clay loam	4	0.05	0.02	0.04	0.07	0.04	0.04	0.06	6.0	0.2	5.8	6.2	5.9	6.1	6.2	5.2	0.2	4.9	5.4	5.1	5.3	5.4
	Group average	21	0.14	0.17	0.04	0.73	0.06	0.07	0.13	6.3	0.8	5.5	8.4	5.8	6.1	6.5	5.7	1.0	4.9	8.3	5.2	5.4	5.8
5	Congupna clay loam	5	0.20	0.02	0.18	0.22	0.19	0.21	0.21	7.2	0.4	6.9	7.8	7.0	7.1	7.3	6.7	0.2	6.5	7.1	6.6	6.6	6.7
	Group average**	12	0.29	0.16	0.10	0.64	0.19	0.22	0.42	6.8	0.4	6.0	7.8	6.6	6.9	7.1	6.3	0.5	5.1	7.1	6.1	6.4	6.6
6	Congupna clay	4	0.08	0.01	0.07	0.09	0.08	0.08	0.09	5.7	0.2	5.5	6.0	5.6	5.7	5.9	5.1	0.2	4.9	5.3	5.0	5.1	5.3
	Group average**	17	0.09	0.04	0.04	0.21	0.08	0.08	0.11	6.1	0.7	5.4	7.6	5.6	5.8	6.4	5.4	0.6	4.8	6.7	4.9	5.1	5.7

Note: D\* Duplex soils, \*\* Group average of soils of the three irrigation districts.

**Table 6.3 Soil EC, pH (H<sub>2</sub>O), pH (CaCl<sub>2</sub>) of Horizon A of soil types - RO District**

Soil Group	Soil Type	No of Sampling Points	EC (dS/m)							pH (H <sub>2</sub> O)						pH (CaCl <sub>2</sub> )							
			Mean	Std.	Min.	Max.	Percentile			Mean	Std.	Min.	Max.	Percentile			Mean	Std.	Min.	Max.	Percentile		
							25	50	75					25	50	75					25	50	75
1D*	Nanneella fine sandy loam	44	0.16	0.08	0.06	0.45	0.11	0.14	0.17	5.7	0.3	5.2	6.7	5.6	5.6	5.8	5.1	0.3	4.6	6.3	4.9	5.0	5.2
	Group average**	57	0.15	0.08	0.06	0.45	0.11	0.13	0.16	6.1	0.9	5.2	8.5	5.6	5.7	6.1	5.4	0.7	4.6	7.3	5.0	5.1	5.5
2	Timmering loam	11	0.25	0.27	0.07	0.98	0.09	0.12	0.29	6.3	0.7	5.3	7.6	6.0	6.2	6.7	5.7	0.8	4.9	7.2	5.2	5.4	6.0
	Group average**	84	0.14	0.13	0.04	0.98	0.09	0.12	0.16	6.2	0.7	5.0	8.4	5.9	6.0	6.3	5.5	0.7	4.5	7.9	5.2	5.3	5.7
3	Wanalta loam	16	0.25	0.21	0.07	0.72	0.11	0.16	0.36	6.4	0.7	5.5	8.4	5.8	6.5	6.7	5.8	0.8	4.9	7.9	5.1	6.0	6.3
	Group average**	57	0.18	0.16	0.04	0.72	0.08	0.13	0.22	6.3	0.8	4.7	8.6	5.8	6.4	6.8	5.8	0.8	4.4	8.6	5.1	5.8	6.2
4	Wana loam	1	0.27							6.3						6.0							
	Koyuga clay loam	2	0.22		0.21	0.23				5.7		5.4	6.0				5.2		5.0	5.4			
	Koga clay loam	2	0.18		0.13	0.23				6.3		5.9	6.7				5.7		5.3	6.1			
	Group average	5	0.21	0.05	0.13	0.27	0.19	0.23	0.24	6.1	0.5	5.4	6.7	5.8	6.0	6.4	5.6	0.5	5.0	6.1	5.2	5.4	6.0
5	Rochester clay	1	0.13							6.6						5.7							
	Alta clay loam	5	0.45	0.12	0.31	0.64	0.38	0.44	0.51	6.7	0.2	6.5	6.9	6.5	6.8	6.8	6.2	0.1	6.1	6.4	6.1	6.2	6.3
	Group average	6	0.40	0.17	0.13	0.64	0.31	0.42	0.47	6.7	0.2	6.5	6.9	6.5	6.7	6.8	6.1	0.2	5.7	6.4	6.1	6.2	6.3
6	Wallenjoe clay	1	0.21							7.1						6.6							
	Carag clay	4	0.10	0.01	0.08	0.11	0.09	0.10	0.11	5.8	0.4	5.5	6.4	5.6	5.7	6.1	5.2	0.4	4.9	5.7	5.0	5.1	5.4
	Group average	5	0.12	0.05	0.08	0.21	0.09	0.10	0.14	6.1	0.7	5.5	7.1	5.6	5.7	6.6	5.5	0.7	4.9	6.6	5.0	5.1	5.9

Note: D\* Duplex soils, \*\* Group average of soils of the three irrigation districts.



**Table 7.1 Soil EC, pH (H<sub>2</sub>O), pH (CaCl<sub>2</sub>) of Horizon B1 of soil types - MV District**

Soil Group	Soil Type	No of Sampling Points	EC (dS/m)							pH (H <sub>2</sub> O)							pH (CaCl <sub>2</sub> )						
			Mean	Std.	Min.	Max.	Percentile			Mean	Std.	Min.	Max.	Percentile			Mean	Std.	Min.	Max.	Percentile		
							25	50	75					25	50	75					25	50	75
1S*	Sandmount sand	4	0.04	0.00	0.04	0.04	0.04	0.04	0.04	5.4	0.2	5.2	5.7	5.3	5.4	5.6	4.7	0.2	4.5	5.0	4.6	4.7	4.9
	Sandmount sand phase	4	0.10	0.01	0.09	0.10	0.09	0.10	0.10	8.7	0.1	8.6	8.8	8.7	8.8	8.8	7.7	0.1	7.5	7.8	7.6	7.7	7.8
	Group average	8	0.07	0.03	0.04	0.10	0.04	0.07	0.10	7.1	1.8	5.2	8.8	5.4	7.2	8.8	6.2	1.6	4.5	7.8	4.7	6.3	7.7
1D*	Cobram sandy loam & Ss	2	0.08		0.07	0.08				7.2		6.6	7.7				6.6		6.1	7.1			
	Group average**	57	0.09	0.04	0.04	0.30	0.07	0.08	0.10	7.0	0.7	5.9	8.8	6.6	6.9	7.2	6.1	0.6	5.1	7.7	5.7	6.0	6.4
2	Waaia loam	4	0.19	0.05	0.15	0.25	0.16	0.17	0.22	7.6	0.8	6.4	8.3	7.1	7.8	8.1	6.9	1.0	5.5	7.8	6.3	7.1	7.5
	Waaia loam phase	4	0.22	0.07	0.17	0.33	0.18	0.20	0.27	7.1	0.4	6.6	7.6	6.8	7.2	7.5	6.5	0.3	6.0	6.8	6.3	6.6	6.7
	Cobram loam	6	0.19	0.17	0.04	0.48	0.06	0.12	0.30	7.6	0.9	6.5	8.8	7.0	7.4	8.5	6.8	1.0	5.6	8.0	6.2	6.7	7.9
	Moirra loam friable phase	7	0.16	0.08	0.04	0.26	0.08	0.18	0.23	6.9	1.0	6.0	8.5	6.2	6.4	7.8	6.0	1.3	4.9	7.8	5.1	5.5	7.3
	Group average	21	0.18	0.11	0.04	0.48	0.12	0.18	0.24	7.3	0.9	6.0	8.8	6.5	7.1	7.9	6.5	1.0	4.9	8.0	5.6	6.6	7.3
3	Moirra loam	1	0.07							6.9							6.1						
	Naring loam	4	0.07	0.02	0.05	0.10	0.06	0.07	0.09	7.4	0.9	6.3	8.3	6.7	7.6	8.2	6.4	0.9	5.1	7.3	5.7	6.6	7.1
	Group average	5	0.07	0.02	0.05	0.10	0.06	0.07	0.09	7.3	0.8	6.3	8.3	6.8	7.1	8.1	6.3	0.8	5.1	7.3	5.9	6.3	6.9
5	Ulupna clay	1	0.09							6.3							5.3						
	Group average**	12	0.28	0.17	0.09	0.64	0.14	0.24	0.35	7.5	0.4	6.3	7.9	7.5	7.7	7.7	6.8	0.5	5.3	7.3	6.9	6.9	6.9
6	Muckatah clay loam	3	0.11	0.08	0.06	0.20				7.4	0.5	7.0	8.0				6.5	0.6	6.2	7.2			
	Boosey loam friable phase	4	0.07	0.02	0.04	0.09	0.05	0.07	0.08	6.7	0.6	6.1	7.2	6.2	6.7	7.2	5.6	0.6	5.1	6.1	5.1	5.6	6.1
	Boosey loam	1	0.09							7.0							6.0						
	Group average	8	0.08	0.05	0.04	0.20	0.06	0.07	0.09	7.0	0.6	6.1	8.0	6.6	7.1	7.2	6.0	0.7	5.1	7.2	5.6	6.1	6.2

Note: S\* Sandy soils, D\* Duplex soils, \*\* Group average of soils of the three irrigation districts.

**Table 7.2 Soil EC, pH (H<sub>2</sub>O), pH (CaCl<sub>2</sub>) of Horizon B1 of soil types - GV District**

Soil Group	Soil Type	No of Sampling Points	EC (dS/m)							pH (H <sub>2</sub> O)						pH (CaCl <sub>2</sub> )							
			Mean	Std.	Min.	Max.	Percentile			Mean	Std.	Min.	Max.	Percentile			Mean	Std.	Min.	Max.	Percentile		
							25	50	75					25	50	75					25	50	75
1D*	East Shepparton fine sandy loam	11	0.08	0.02	0.05	0.14	0.07	0.08	0.09	7.8	0.9	5.9	8.8	7.1	8.0	8.3	6.7	0.5	5.5	7.5	6.4	6.9	7.0
	Group average**	57	0.09	0.04	0.04	0.30	0.07	0.08	0.10	7.0	0.7	5.9	8.8	6.6	6.9	7.2	6.1	0.6	5.1	7.7	5.7	6.0	6.4
2	Katamatite loam	4	0.09	0.04	0.04	0.14	0.05	0.08	0.12	7.3	0.8	6.3	8.2	6.7	7.4	8.0	6.4	0.8	5.4	7.3	5.7	6.4	7.1
	Shepparton fine sandy loam	48	0.11	0.11	0.04	0.84	0.08	0.09	0.10	6.8	0.5	6.1	8.7	6.5	6.7	6.9	5.9	0.5	5.2	8.2	5.6	5.8	6.1
	Group average	52	0.10	0.11	0.04	0.84	0.07	0.09	0.10	6.8	0.5	6.1	8.7	6.5	6.7	7.0	6.0	0.6	5.2	8.2	5.6	5.8	6.1
3	Lemnos loam friable phase	8	0.06	0.02	0.04	0.09	0.05	0.06	0.08	6.7	0.6	5.8	7.5	6.4	6.8	7.2	5.8	0.5	5.1	6.5	5.4	5.7	6.1
	Lemnos loam semi friable phase	4	0.10	0.04	0.06	0.15	0.07	0.10	0.14	6.2	0.4	5.9	6.8	6.0	6.1	6.5	5.5	0.6	5.0	6.3	5.2	5.4	5.9
	Lemnos loam	20	0.14	0.08	0.05	0.30	0.08	0.11	0.21	7.3	0.6	6.3	8.8	7.0	7.3	7.7	6.5	0.8	5.5	8.3	6.1	6.3	6.8
	Goulburn loam friable phase	4	0.11	0.11	0.06	0.27	0.06	0.06	0.17	7.6	0.7	7.1	8.6	7.2	7.4	8.1	6.7	0.8	6.2	7.8	6.2	6.4	7.2
	Group average	36	0.12	0.08	0.04	0.30	0.06	0.09	0.15	7.1	0.7	5.8	8.8	6.7	7.1	7.5	6.3	0.8	5.0	8.3	5.8	6.2	6.5
4	Goulburn loam	17	0.13	0.15	0.04	0.52	0.06	0.08	0.12	7.1	0.4	6.4	7.8	6.8	7.1	7.5	6.3	0.5	5.5	7.4	5.9	6.3	6.6
	Goulburn clay loam	4	0.06	0.02	0.04	0.09	0.04	0.06	0.08	6.7	0.4	6.2	7.0	6.4	6.7	7.0	5.8	0.2	5.5	6.0	5.7	5.9	6.0
	Group average	21	0.12	0.13	0.04	0.52	0.06	0.07	0.11	7.0	0.5	6.2	7.8	6.7	6.9	7.5	6.2	0.5	5.5	7.4	5.8	6.3	6.5
5	Congupna clay loam	5	0.18	0.06	0.13	0.27	0.13	0.14	0.23	7.7	0.1	7.6	7.9	7.7	7.7	7.8	7.0	0.2	6.9	7.3	6.9	6.9	7.1
	Group average**	12	0.28	0.17	0.09	0.64	0.14	0.24	0.35	7.5	0.4	6.3	7.9	7.5	7.7	7.7	6.8	0.5	5.3	7.3	6.9	6.9	6.9
6	Congupna clay	4	0.06	0.00	0.06	0.06	0.06	0.06	0.06	6.5	0.5	6.1	7.1	6.2	6.3	6.8	5.7	0.5	5.3	6.3	5.4	5.5	6.0
	Group average**	17	0.09	0.05	0.04	0.21	0.06	0.07	0.10	7.0	0.6	6.1	8.0	6.4	7.1	7.2	6.1	0.6	5.1	7.3	5.6	6.1	6.3

Note: D\* Duplex soils, \*\* Group average of soils of the three irrigation districts.

Table 7.3 Soil EC, pH (H<sub>2</sub>O), pH (CaCl<sub>2</sub>) of Horizon B1 of soil types - RO District

Soil Group	Soil Type	No of Sampling Points	EC (dS/m)							pH (H <sub>2</sub> O)						pH (CaCl <sub>2</sub> )							
			Mean	Std.	Min.	Max.	Percentile			Mean	Std.	Min.	Max.	Percentile			Mean	Std.	Min.	Max.	Percentile		
							25	50	75					25	50	75					25	50	75
1D*	Nanneella fine sandy loam	44	0.09	0.04	0.04	0.30	0.07	0.08	0.10	6.8	0.5	5.9	8.3	6.6	6.8	7.1	6.0	0.5	5.1	7.7	5.7	5.9	6.1
	Group average**	57	0.09	0.04	0.04	0.30	0.07	0.08	0.10	7.0	0.7	5.9	8.8	6.6	6.9	7.2	6.1	0.6	5.1	7.7	5.7	6.0	6.4
2	Timmering loam	11	0.21	0.21	0.08	0.81	0.10	0.13	0.27	7.6	0.5	6.8	8.4	7.4	7.7	7.9	6.7	0.5	5.8	7.8	6.5	6.6	7.0
	Group average**	84	0.14	0.13	0.04	0.84	0.08	0.10	0.15	7.0	0.7	6.0	8.8	6.5	6.9	7.5	6.2	0.7	4.9	8.2	5.7	5.9	6.6
3	Wanalta loam	16	0.30	0.28	0.07	1.10	0.11	0.22	0.37	7.3	0.8	5.8	9.1	6.8	7.3	7.7	6.6	0.9	5.4	8.5	6.0	6.6	7.2
	Group average**	57	0.16	0.18	0.04	1.10	0.07	0.10	0.21	7.2	0.7	5.8	9.1	6.7	7.1	7.5	6.4	0.8	5.0	8.5	5.9	6.2	6.8
4	Wana loam	1	0.37							8.0							7.7						
	Koyuga clay loam	2	0.31		0.17	0.45				6.7		6.6	6.7				6.1		5.9	6.2			
	Koga clay loam	2	0.29		0.27	0.30				7.6		7.5	7.6				6.8		6.7	6.8			
	Group average	5	0.31	0.11	0.17	0.45	0.25	0.30	0.39	7.3	0.6	6.6	8.0	6.7	7.5	7.7	6.7	0.7	5.9	7.7	6.1	6.7	7.0
5	Rochester clay	1	0.24							7.7							6.9						
	Alta clay loam	5	0.42	0.16	0.24	0.64	0.29	0.40	0.55	7.5	0.1	7.3	7.7	7.4	7.5	7.6	6.9	0.1	6.8	7.0	6.8	6.9	6.9
	Group average	6	0.39	0.16	0.24	0.64	0.24	0.35	0.52	7.5	0.2	7.3	7.7	7.4	7.5	7.7	6.9	0.1	6.8	7.0	6.8	6.9	6.9
6	Wallenjoe clay	1	0.21							7.8							7.3						
	Carag clay	4	0.11	0.03	0.07	0.14	0.08	0.11	0.13	7.3	0.4	7.0	7.8	7.1	7.2	7.6	6.4	0.3	6.1	6.8	6.2	6.3	6.6
	Group average	5	0.13	0.05	0.07	0.21	0.09	0.12	0.16	7.4	0.4	7.0	7.8	7.1	7.3	7.8	6.6	0.5	6.1	7.3	6.2	6.4	6.9

Note: D\* Duplex soils, \*\* Group average of soils of the three irrigation districts.

Table 8.1 Soil exchangeable cations of Horizon A of soil types - MV District

Soil Group	Soil Type	No. of Sampling Points	Exchangeable Cations (meq/100g)																											
			Ca							Mg							Na							K						
			Mean	Std.	Min.	Max.	Percentile			Mean	Std.	Min.	Max.	Percentile			Mean	Std.	Min.	Max.	Percentile			Mean	Std.	Min.	Max.	Percentile		
							25	50	75					25	50	75					25	50	75					25	50	75
1S*	Sandmount sand	4	1.7	0.5	1.0	2.0	1.4	1.9	2.0	0.3	0.1	0.2	0.5	0.3	0.3	0.4	0.1	0.0	0.0	0.1	0.0	0.1	0.1	0.3	0.1	0.2	0.4	0.2	0.3	0.4
	Sandmount sand phase	4	4.2	0.4	3.9	4.7	4.0	4.1	4.4	2.6	0.3	2.3	2.9	2.4	2.6	2.8	0.7	0.1	0.6	0.8	0.7	0.7	0.8	0.7	0.1	0.6	0.7	0.6	0.7	0.7
	Group average	8	2.9	1.4	1.0	4.7	1.9	3.0	4.1	1.5	1.2	0.2	2.9	0.3	1.4	2.6	0.4	0.4	0.0	0.8	0.1	0.4	0.7	0.5	0.2	0.2	0.7	0.3	0.5	0.7
1D*	Cobram sandy loam & Ss	2	6.3		6.0	6.5				5.3		5.1	5.5				0.3		0.3	0.3				1.2		1.0	1.3			
	Group average**	57	6.3	1.8	2.0	11.0	4.9	6.7	7.6	3.7	1.0	0.4	5.6	3.3	3.9	4.4	0.7	0.5	0.1	3.4	0.4	0.5	0.7	0.7	0.4	0.1	2.1	0.3	0.6	0.9
2	Waaia loam	4	5.8	0.8	4.7	6.7	5.2	5.9	6.4	4.0	1.7	1.9	5.4	2.6	4.3	5.4	1.1	0.7	0.3	2.1	0.7	1.1	1.6	0.5	0.5	0.2	1.2	0.2	0.2	0.7
	Waaia loam phase	4	7.3	1.2	5.8	8.7	6.4	7.3	8.2	3.9	0.6	3.4	4.7	3.4	3.7	4.4	1.1	0.2	0.8	1.2	1.0	1.2	1.2	1.8	0.7	0.7	2.2	1.4	2.1	2.2
	Cobram loam	6	6.9	1.2	5.6	8.4	6.1	6.5	8.2	3.5	1.7	2.0	6.7	2.3	3.1	3.8	0.7	0.8	0.2	2.2	0.3	0.4	0.8	0.8	0.8	0.2	2.2	0.2	0.6	1.2
	Moira loam friable phase	7	5.7	2.8	4.1	12.0	4.3	4.7	5.4	2.7	1.7	1.0	5.3	1.8	1.9	4.4	0.6	0.2	0.4	1.1	0.5	0.5	0.7	0.5	0.4	0.2	1.1	0.2	0.3	0.9
	Group average	21	6.4	1.9	4.1	12.0	5.2	6.0	7.1	3.4	1.5	1.0	6.7	2.0	3.4	4.8	0.8	0.6	0.2	2.2	0.4	0.7	1.1	0.8	0.7	0.2	2.2	0.2	0.7	1.2
3	Moira loam	1	3.8							1.8							0.3													
	Naring loam	4	4.8	0.5	4.3	5.5	4.5	4.6	5.1	3.3	0.5	2.8	4.0	2.9	3.2	3.7	0.6	0.1	0.4	0.7	0.5	0.6	0.7	0.4	0.2	0.2	0.6	0.2	0.3	0.5
	Group average	5	4.6	0.6	3.8	5.5	4.2	4.6	4.8	3.0	0.8	1.8	4.0	2.6	3.0	3.6	0.5	0.2	0.3	0.7	0.4	0.6	0.7	0.5	0.3	0.2	0.9	0.2	0.4	0.7
5	Ulupna clay	1	7.2							6.8							1.1													
	Group average**	12	9.7	2.5	5.9	15.0	7.8	9.5	11.5	7.0	1.3	5.0	10.0	6.4	6.9	7.6	1.3	0.6	0.5	2.4	0.8	1.4	1.8	1.0	0.3	0.4	1.4	0.9	1.0	1.3
6	Muckatah clay loam	3	6.4	1.8	5.2	8.4				4.5	3.2	1.7	8.0				0.8	0.7	0.1	1.5				1.1	0.8	0.5	1.9			
	Boosey loam friable phase	4	5.0	0.5	4.5	5.7	4.6	4.8	5.3	1.4	0.4	1.0	1.8	1.1	1.4	1.7	0.4	0.1	0.2	0.5	0.3	0.4	0.5	0.3	0.1	0.2	0.5	0.2	0.3	0.4
	Boosey loam	1	6.2							3.2							0.7							0.2						
	Group average	8	5.6	1.2	4.5	8.4	4.8	5.4	6.0	2.8	2.3	1.0	8.0	1.4	1.8	3.6	0.6	0.4	0.1	1.5	0.3	0.5	0.7	0.6	0.6	0.2	1.9	0.2	0.4	0.7

Note: S\* Sandy soils, D\* Duplex soils, \*\* Group average of soils of the three irrigation districts.

Table 8.2 Soil exchangeable cations of Horizon A of soil types - GV District

Soil Group	Soil Type	No. of Sampling Points	Exchangeable Cations (meq/100g)																											
			Ca						Mg						Na						K									
			Mean	Std.	Min.	Max.	Percentile			Mean	Std.	Min.	Max.	Percentile			Mean	Std.	Min.	Max.	Percentile			Mean	Std.	Min.	Max.	Percentile		
							25	50	75					25	50	75					25	50	75					25	50	75
1D*	East Shepparton fine sandy loam	11	4.0	0.7	2.9	5.8	3.7	3.9	4.0	2.5	1.3	0.4	4.1	1.2	3.2	3.4	1.2	1.0	0.1	3.4	0.3	1.0	1.7	0.6	0.1	0.3	0.9	0.5	0.6	0.6
	Group average**	57	6.3	1.8	2.0	11.0	4.9	6.7	7.6	3.7	1.0	0.4	5.6	3.3	3.9	4.4	0.7	0.5	0.1	3.4	0.4	0.5	0.7	0.7	0.4	0.1	2.1	0.3	0.6	0.9
2	Katamatite loam	4	5.2	3.2	3.2	10.0	3.3	3.8	7.1	2.1	1.6	0.9	4.3	1.0	1.6	3.1	0.5	0.3	0.2	0.9	0.3	0.4	0.6	0.4	0.4	0.1	1.0	0.2	0.3	0.7
	Shepparton fine sandy loam	48	5.3	0.9	3.2	7.5	4.7	5.5	6.0	3.4	0.8	1.3	6.3	3.3	3.5	3.8	0.9	0.5	0.1	3.9	0.8	0.9	1.0	0.3	0.2	0.1	1.0	0.2	0.3	0.4
	Group average	52	5.3	1.2	3.2	10.0	4.6	5.4	6.0	3.3	0.9	0.9	6.3	3.2	3.5	3.8	0.9	0.5	0.1	3.9	0.7	0.8	1.0	0.3	0.2	0.1	1.0	0.2	0.3	0.4
3	Lemnos loam friable phase	8	4.0	1.0	3.1	6.1	3.3	3.7	4.4	1.9	0.3	1.4	2.3	1.7	1.9	2.1	0.3	0.1	0.2	0.4	0.2	0.3	0.4	0.6	0.5	0.3	1.6	0.3	0.3	0.9
	Lemnos loam semi friable phase	4	3.7	0.4	3.1	4.0	3.5	3.9	4.0	1.2	0.2	0.9	1.3	1.0	1.2	1.3	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.3	0.1	0.2	0.3	0.3	0.3	0.3
	Lemnos loam	20	6.8	2.2	3.9	12.0	5.3	6.1	8.6	3.8	1.5	1.4	7.1	2.9	3.5	4.4	1.1	1.0	0.2	4.6	0.5	0.7	1.3	0.7	0.4	0.1	1.5	0.4	0.7	1.1
	Goulburn loam friable phase	4	3.9	0.2	3.6	4.1	3.7	3.9	4.1	2.3	0.6	1.9	3.1	2.0	2.1	2.6	0.5	0.3	0.3	0.9	0.3	0.4	0.7	0.3	0.1	0.2	0.4	0.2	0.3	0.4
	Group average	36	5.5	2.2	3.1	12.0	3.9	4.8	6.5	2.9	1.5	0.9	7.1	1.9	2.8	3.6	0.8	0.9	0.1	4.6	0.3	0.5	1.0	0.6	0.4	0.1	1.6	0.3	0.4	0.9
4	Goulburn loam	17	5.6	1.4	3.5	9.4	4.6	5.5	6.3	3.1	1.3	1.8	6.5	2.2	2.9	4.1	0.8	1.2	0.2	4.2	0.3	0.3	0.6	0.7	0.4	0.2	1.3	0.3	0.7	1.1
	Goulburn clay loam	4	5.2	0.8	4.0	5.9	4.7	5.5	5.8	1.1	0.4	0.6	1.6	0.8	1.1	1.4	0.1	0.1	0.1	0.2	0.1	0.1	0.2	0.8	0.4	0.5	1.4	0.5	0.6	1.1
	Group average	21	5.6	1.3	3.5	9.4	4.6	5.5	6.1	2.7	1.4	0.6	6.5	1.9	2.3	3.4	0.7	1.1	0.1	4.2	0.2	0.3	0.5	0.7	0.4	0.2	1.4	0.4	0.7	1.1
5	Congupna clay loam	5	11.9	2.0	9.5	15.0	10.6	12.0	12.8	6.7	2.0	5.0	10.0	5.3	6.3	7.5	0.8	0.3	0.5	1.3	0.6	0.8	0.9	1.1	0.2	1.0	1.4	1.0	1.1	1.3
	Group average**	12	9.7	2.5	5.9	15.0	7.8	9.5	11.5	7.0	1.3	5.0	10.0	6.4	6.9	7.6	1.3	0.6	0.5	2.4	0.8	1.4	1.8	1.0	0.3	0.4	1.4	0.9	1.0	1.3
6	Congupna clay	4	4.6	1.1	3.8	6.2	4.0	4.2	5.3	2.4	0.9	1.8	3.8	1.8	2.1	3.1	0.4	0.1	0.3	0.4	0.3	0.3	0.4	0.4	0.4	0.2	0.9	0.2	0.3	0.6
	Group average**	17	5.9	2.9	3.8	16.0	4.3	5.2	6.2	3.4	2.2	1.0	8.6	1.8	3.2	4.0	0.5	0.3	0.1	1.5	0.4	0.5	0.6	0.6	0.7	0.2	2.9	0.2	0.4	0.7

Note: D\* Duplex soils, \*\* Group average of soils of the three irrigation districts.

Table 8.3 Soil exchangeable cations of Horizon A of soil types - RO District

Soil Group	Soil Type	No. of Sampling Points	Exchangeable Cations (meq/100g)																											
			Ca						Mg						Na						K									
			Mean	Std.	Min.	Max.	Percentile			Mean	Std.	Min.	Max.	Percentile			Mean	Std.	Min.	Max.	Percentile			Mean	Std.	Min.	Max.	Percentile		
							25	50	75					25	50	75					25	50	75					25	50	75
1D*	Nanneella fine sandy loam	44	6.9	1.6	2.0	11.0	6.2	7.1	8.0	4.0	0.7	2.3	5.6	3.6	4.0	4.5	0.5	0.2	0.2	1.2	0.4	0.5	0.6	0.7	0.5	0.1	2.1	0.3	0.5	1.1
	Group average**	57	6.3	1.8	2.0	11.0	4.9	6.7	7.6	3.7	1.0	0.4	5.6	3.3	3.9	4.4	0.7	0.5	0.1	3.4	0.4	0.5	0.7	0.7	0.4	0.1	2.1	0.3	0.6	0.9
2	Timmering loam	11	6.7	2.2	3.4	10.0	5.4	6.8	8.3	4.2	2.0	2.3	9.1	2.8	3.4	5.3	1.0	1.1	0.4	4.4	0.5	0.6	0.8	0.5	0.4	0.1	1.4	0.2	0.4	0.6
	Group average**	84	5.8	1.6	3.2	12.0	4.7	5.7	6.2	3.4	1.3	0.9	9.1	2.8	3.4	3.9	0.9	0.6	0.1	4.4	0.5	0.8	1.0	0.5	0.5	0.1	2.2	0.2	0.3	0.4
3	Wanalta loam	16	7.7	3.2	4.8	18.0	5.6	7.2	9.0	6.1	2.0	3.0	8.7	4.1	6.3	7.7	1.1	0.7	0.3	2.9	0.6	1.0	1.5	0.6	0.4	0.2	1.4	0.3	0.4	1.0
	Group average**	57	6.0	2.7	3.1	18.0	4.0	5.4	7.3	3.8	2.1	0.9	8.7	2.1	3.1	5.3	0.8	0.8	0.1	4.6	0.3	0.6	1.1	0.6	0.4	0.1	1.6	0.3	0.4	0.9
4	Wana loam	1	13.0							5.5							0.1													
	Koyuga clay loam	2	3.6		3.1	4.0				4.1		3.9	4.2				1.2		1.0	1.4					0.4		0.2	0.6		
	Koga clay loam	2	7.8		7.5	8.1				4.3		3.5	5.1				1.1		0.7	1.5					0.6		0.4	0.7		
	Group average	5	7.1	3.9	3.1	13.0	3.8	7.5	9.3	4.4	0.8	3.5	5.5	3.8	4.2	5.2	0.9	0.6	0.1	1.5	0.6	1.0	1.4	0.5	0.2	0.2	0.7	0.4	0.6	0.6
5	Rochester clay	1	5.9							7.2							1.7								0.4					
	Alta clay loam	5	8.8	1.0	7.8	9.8	7.8	9.2	9.6	7.3	0.7	6.5	8.2	6.8	7.2	8.0	1.8	0.4	1.4	2.4	1.6	1.8	2.0	1.1	0.3	0.8	1.4	0.9	0.9	1.3
	Group average	6	8.3	1.5	5.9	9.8	7.8	8.5	9.5	7.3	0.6	6.5	8.2	6.9	7.2	7.9	1.8	0.3	1.4	2.4	1.7	1.8	1.8	0.9	0.4	0.4	1.4	0.8	0.9	1.3
6	Wallenjoey clay	1	16.0							8.6							0.6								2.9					
	Carag clay	4	5.4	1.5	4.1	7.0	4.2	5.3	6.7	4.2	1.2	3.2	5.7	3.3	3.9	5.1	0.6	0.2	0.4	0.8	0.4	0.5	0.7	0.4	0.2	0.3	0.7	0.3	0.4	0.6
	Group average	5	7.5	4.9	4.1	16.0	4.2	6.3	9.3	5.0	2.2	3.2	8.6	3.3	4.4	6.4	0.6	0.2	0.4	0.8	0.5	0.6	0.6	0.9	1.1	0.3	2.9	0.3	0.6	1.3

Note: D\* Duplex soils, \*\* Group average of soils of the three irrigation districts.

Table 9.1 Soil exchangeable cations of Horizon B1 of soil types - MV District

Soil Group	Soil Type	No. of Sampling Points	Exchangeable Cations (meq/100g)																											
			Ca							Mg							Na							K						
			Mean	Std.	Min.	Max.	Percentile			Mean	Std.	Min.	Max.	Percentile			Mean	Std.	Min.	Max.	Percentile			Mean	Std.	Min.	Max.	Percentile		
							25	50	75					25	50	75					25	50	75					25	50	75
1S*	Sandmount sand	4	1.0	0.5	0.7	1.7	0.8	0.9	1.3	0.2	0.1	0.1	0.4	0.2	0.2	0.3	0.1	0.0	0.0	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.5	0.1	0.2	0.3
	Sandmount sand phase	4	2.8	0.7	2.2	3.8	2.3	2.5	3.3	1.9	0.2	1.7	2.2	1.8	1.9	2.1	0.5	0.0	0.5	0.6	0.5	0.5	0.6	0.7	0.1	0.6	0.8	0.6	0.7	0.7
	Group average	8	1.9	1.1	0.7	3.8	0.9	2.0	2.5	1.1	0.9	0.1	2.2	0.2	1.0	1.9	0.3	0.2	0.0	0.6	0.1	0.3	0.5	0.5	0.3	0.1	0.8	0.2	0.5	0.7
1D*	Cobram sandy loam & Ss	2	4.1		3.5	4.7				2.5		1.9	3.0				0.2		0.2	0.2				0.7		0.6	0.8			
	Group average**	57	5.8	2.0	2.0	10.0	4.5	6.2	7.2	3.8	1.4	0.5	6.5	3.0	4.0	4.6	0.7	0.4	0.1	2.3	0.5	0.7	0.9	0.5	0.3	0.1	1.5	0.3	0.4	0.6
2	Waaia loam	4	9.9	5.3	4.3	17.0	6.6	9.1	13.2	5.2	2.3	3.2	7.7	3.3	5.0	7.2	1.4	0.8	0.3	2.1	0.9	1.6	1.9	0.7	0.8	0.3	1.9	0.3	0.4	1.2
	Waaia loam phase	4	8.0	0.7	7.4	8.9	7.5	7.8	8.4	5.4	0.5	5.0	6.1	5.1	5.2	5.7	1.0	0.3	0.5	1.2	0.8	1.2	1.2	1.7	0.8	1.0	2.8	1.1	1.6	2.4
	Cobram loam	6	5.9	2.3	2.9	8.6	3.7	6.2	7.6	5.4	2.6	1.8	8.7	3.1	5.8	7.1	1.5	1.6	0.3	4.2	0.4	0.7	2.6	1.0	0.8	0.2	2.0	0.3	0.7	2.0
	Moirra loam friable phase	7	5.7	4.7	2.0	16.0	3.3	3.9	6.2	4.6	1.8	2.6	7.2	2.9	4.9	5.7	1.4	1.0	0.5	2.9	0.6	0.9	2.2	0.5	0.4	0.2	1.1	0.2	0.3	0.8
	Group average	21	7.0	3.9	2.0	17.0	3.9	7.1	8.7	5.1	1.9	1.8	8.7	3.2	5.1	6.5	1.4	1.0	0.3	4.2	0.5	1.1	2.1	0.9	0.8	0.2	2.8	0.3	0.5	1.3
3	Moirra loam	1	6.4							4.7							0.5							0.9						
	Naring loam	4	4.8	2.6	2.5	7.1	2.6	4.9	7.1	5.2	3.9	1.5	9.7	1.9	4.7	8.4	1.1	0.7	0.5	2.0	0.6	1.0	1.7	0.5	0.5	0.1	1.1	0.1	0.3	0.8
	Group average	5	5.1	2.4	2.5	7.1	2.6	6.4	7.1	5.1	3.4	1.5	9.7	2.1	4.7	7.8	1.0	0.6	0.5	2.0	0.5	0.7	1.5	0.6	0.4	0.1	1.1	0.1	0.6	0.9
5	Ulupna clay	1	3.4							3.7							1.0							0.2						
	Group average**	12	8.8	2.6	3.4	14.0	7.5	9.1	9.7	8.9	3.0	3.7	13.0	6.4	9.8	11.5	2.4	1.4	0.7	4.3	1.1	2.3	3.7	1.4	0.7	0.2	2.6	0.9	1.4	1.9
6	Muckatah clay loam	3	6.9	2.5	5.4	9.7				5.8	3.7	3.0	10.0				1.2	1.2	0.2	2.6				1.0	0.4	0.5	1.2			
	Boosey loam friable phase	4	5.5	1.6	3.2	6.5	4.5	6.1	6.5	4.4	2.2	1.3	6.4	3.0	4.9	5.7	0.8	0.5	0.2	1.3	0.5	0.9	1.1	0.6	0.3	0.2	1.0	0.3	0.6	0.8
	Boosey loam	1	7.5							5.8							1.2							0.5						
	Group average	8	6.3	1.9	3.2	9.7	5.5	6.1	7.0	5.1	2.6	1.3	10.0	3.7	4.9	6.1	1.0	0.8	0.2	2.6	0.5	0.9	1.3	0.7	0.4	0.2	1.2	0.5	0.6	1.1

Note: S\* Sandy soils, D\* Duplex soils, \*\* Group average of soils of the three irrigation districts.

Table 9.2 Soil exchangeable cations of Horizon B1 of soil types - GV District

Soil Group	Soil Type	No. of Sampling Points	Exchangeable Cations (meq/100g)																											
			Ca							Mg							Na							K						
			Mean	Std.	Min.	Max.	Percentile			Mean	Std.	Min.	Max.	Percentile			Mean	Std.	Min.	Max.	Percentile			Mean	Std.	Min.	Max.	Percentile		
							25	50	75					25	50	75					25	50	75					25	50	75
1D*	East Shepparton fine sandy loam	11	3.4	1.1	2.0	5.7	2.5	3.5	4.3	1.9	1.0	0.5	3.7	1.2	1.6	2.6	1.1	0.8	0.1	2.3	0.3	1.1	1.5	0.6	0.1	0.4	0.8	0.5	0.7	0.7
	Group average**	57	5.8	2.0	2.0	10.0	4.5	6.2	7.2	3.8	1.4	0.5	6.5	3.0	4.0	4.6	0.7	0.4	0.1	2.3	0.5	0.7	0.9	0.5	0.3	0.1	1.5	0.3	0.4	0.6
2	Katamatite loam	4	3.4	1.6	2.4	5.8	2.5	2.7	4.3	2.3	1.7	1.1	4.7	1.2	1.7	3.4	0.8	0.4	0.4	1.3	0.4	0.8	1.2	0.3	0.2	0.1	0.6	0.1	0.3	0.5
	Shepparton fine sandy loam	48	5.4	1.1	3.5	7.5	4.6	5.5	6.4	3.8	1.3	2.1	8.5	2.8	3.5	4.4	1.1	0.8	0.2	5.6	0.8	1.0	1.2	0.5	0.3	0.1	1.8	0.3	0.4	0.6
	Group average	52	5.2	1.2	2.4	7.5	4.4	5.3	6.4	3.6	1.3	1.1	8.5	2.8	3.4	4.4	1.1	0.8	0.2	5.6	0.8	1.0	1.2	0.5	0.3	0.1	1.8	0.3	0.4	0.6
3	Lemnos loam friable phase	8	3.9	0.7	2.6	4.7	3.6	3.8	4.5	4.1	1.3	2.2	5.9	3.1	4.1	5.4	0.7	0.4	0.2	1.4	0.3	0.5	1.0	0.7	0.5	0.3	1.4	0.4	0.4	1.1
	Lemnos loam semi friable phase	4	6.0	2.4	4.2	9.5	4.5	5.1	7.4	3.8	1.0	2.5	4.9	3.1	3.8	4.5	0.5	0.2	0.3	0.8	0.3	0.4	0.6	0.5	0.4	0.2	1.1	0.3	0.4	0.8
	Lemnos loam	20	5.1	2.5	1.9	14.0	3.8	4.9	5.7	4.3	1.8	1.6	7.5	2.8	4.0	5.7	1.5	1.1	0.3	4.8	0.8	1.3	2.0	0.6	0.4	0.2	1.4	0.3	0.6	0.9
	Goulburn loam friable phase	4	6.6	0.6	6.0	7.4	6.2	6.6	7.1	7.6	1.7	5.2	9.4	6.5	7.8	8.7	1.4	1.3	0.6	3.3	0.7	1.0	2.2	1.1	0.2	0.9	1.2	0.9	1.1	1.2
	Group average	36	5.1	2.1	1.9	14.0	3.8	4.7	5.9	4.6	1.9	1.6	9.4	3.1	4.3	5.8	1.2	1.0	0.2	4.8	0.5	0.8	1.6	0.7	0.4	0.2	1.4	0.3	0.6	1.0
4	Goulburn loam	17	5.7	2.0	2.6	9.6	4.0	5.8	7.1	4.1	1.4	1.4	6.4	3.1	4.4	5.2	1.1	1.1	0.2	3.8	0.5	0.7	1.1	0.6	0.3	0.2	1.4	0.4	0.6	0.9
	Goulburn clay loam	4	6.2	1.7	3.8	7.7	4.9	6.6	7.5	3.4	1.3	1.5	4.3	2.5	3.8	4.2	0.4	0.2	0.2	0.7	0.3	0.4	0.6	0.4	0.2	0.2	0.7	0.3	0.4	0.6
	Group average	21	5.8	1.9	2.6	9.6	4.0	6.0	7.2	4.0	1.4	1.4	6.4	3.1	4.3	5.0	0.9	1.0	0.2	3.8	0.4	0.6	1.0	0.6	0.3	0.2	1.4	0.4	0.6	0.8
5	Congupna clay loam	5	10.1	2.7	6.8	14.0	8.6	9.4	11.8	7.9	2.8	5.4	12.0	5.9	6.6	10.1	1.1	0.4	0.7	1.6	0.7	1.1	1.5	1.2	0.2	0.9	1.4	0.9	1.2	1.3
	Group average**	12	8.8	2.6	3.4	14.0	7.5	9.1	9.7	8.9	3.0	3.7	13.0	6.4	9.8	11.5	2.4	1.4	0.7	4.3	1.1	2.3	3.7	1.4	0.7	0.2	2.6	0.9	1.4	1.9
6	Congupna clay	4	3.0	0.2	2.8	3.2	2.9	3.1	3.2	3.3	0.6	2.7	4.0	2.9	3.2	3.7	0.5	0.1	0.4	0.6	0.4	0.5	0.5	0.4	0.2	0.2	0.5	0.2	0.3	0.5
	Group average**	17	6.3	3.1	2.8	15.0	3.2	6.5	7.5	6.0	3.2	1.3	11.0	3.2	5.0	9.8	1.0	0.7	0.2	2.6	0.5	1.0	1.2	0.7	0.5	0.2	2.2	0.4	0.5	1.0

Note: D\* Duplex soils, \*\* Group average of soils of the three irrigation districts.



Table 9.3 Soil exchangeable cations of Horizon B1 of soil types - RO District

Soil Group	Soil Type	No. of Sampling Points	Exchangeable Cations (meq/100g)																											
			Ca							Mg							Na							K						
			Mean	Std.	Min.	Max.	Percentile			Mean	Std.	Min.	Max.	Percentile			Mean	Std.	Min.	Max.	Percentile			Mean	Std.	Min.	Max.	Percentile		
							25	50	75					25	50	75					25	50	75					25	50	75
1D*	Nanneella fine sandy loam	44	6.5	1.6	2.0	10.0	5.8	6.6	7.4	4.4	1.0	1.9	6.5	3.8	4.3	4.9	0.7	0.3	0.3	1.7	0.5	0.6	0.8	0.4	0.3	0.1	1.5	0.2	0.4	0.5
	Group average**	57	5.8	2.0	2.0	10.0	4.5	6.2	7.2	3.8	1.4	0.5	6.5	3.0	4.0	4.6	0.7	0.4	0.1	2.3	0.5	0.7	0.9	0.5	0.3	0.1	1.5	0.3	0.4	0.6
2	Timmering loam	11	6.5	1.4	3.9	9.1	5.8	6.7	7.2	6.2	1.3	4.9	8.1	5.3	5.5	7.7	2.0	1.1	1.0	5.0	1.6	1.8	2.1	0.6	0.5	0.2	1.9	0.3	0.4	0.7
	Group average**	84	5.8	2.3	2.0	17.0	4.4	5.6	6.8	4.3	1.7	1.1	8.7	3.0	4.2	5.4	1.3	0.9	0.2	5.6	0.8	1.1	1.5	0.6	0.5	0.1	2.8	0.3	0.4	0.7
3	Wanalta loam	16	7.8	3.2	4.2	18.0	6.0	6.9	8.6	7.9	1.9	4.0	10.0	6.9	8.4	9.6	1.8	1.0	0.3	3.7	1.1	1.5	2.9	0.7	0.3	0.2	1.2	0.4	0.7	1.0
	Group average**	57	5.8	2.7	1.9	18.0	4.2	5.4	6.8	5.6	2.5	1.5	10.0	3.5	5.0	7.6	1.3	1.0	0.2	4.8	0.6	1.1	1.8	0.7	0.4	0.1	1.4	0.4	0.7	1.0
4	Wana loam	1	17.0							13.0							0.9							0.8						
	Koyuga clay loam	2	6.2		4.4	7.9				8.6		7.5	9.6				2.0			1.7	2.2			0.7		0.4	1.0			
	Koga clay loam	2	8.1		7.4	8.7				8.8		8.2	9.3				3.1		2.1	4.0				0.5		0.4	0.5			
	Group average	5	9.1	4.7	4.4	17.0	6.7	7.9	10.8	9.5	2.1	7.5	13.0	8.0	9.3	10.5	2.2	1.1	0.9	4.0	1.5	2.1	2.7	0.6	0.3	0.4	1.0	0.4	0.5	0.8
5	Rochester clay	1	8.1							13.0							3.4							0.5						
	Alta clay loam	5	8.7	1.2	6.7	9.9	8.4	8.9	9.4	10.2	1.5	7.9	12.0	9.5	10.0	11.3	3.7	0.6	2.9	4.3	3.2	4.0	4.2	2.0	0.3	1.8	2.6	1.9	1.9	2.2
	Group average	6	8.6	1.1	6.7	9.9	8.1	8.9	9.2	10.7	1.8	7.9	13.0	10.0	10.5	12.0	3.7	0.5	2.9	4.3	3.3	3.7	4.1	1.8	0.7	0.5	2.6	1.8	1.9	2.0
6	Wallenjoe clay	1	15.0							9.9							1.2							2.2						
	Carag clay	4	7.6	0.5	7.0	8.2	7.3	7.6	7.9	9.8	1.1	8.4	11.0	9.1	9.9	10.5	1.6	0.6	1.0	2.2	1.1	1.7	2.2	0.8	0.4	0.4	1.3	0.5	0.8	1.1
	Group average	5	9.1	3.3	7.0	15.0	7.4	7.6	9.9	9.8	0.9	8.4	11.0	9.5	9.9	10.2	1.5	0.6	1.0	2.2	1.1	1.2	2.1	1.1	0.7	0.4	2.2	0.6	0.9	1.5

Note: D\* Duplex soils, \*\* Group average of soils of the three irrigation districts.

**Table 10.1 Soil ESP of Horizon A of soil types - MV District**

Soil Group	Soil Type	No of Sampling Points	ESP						
			Mean	Std.	Min.	Max.	Percentile		
							25	50	75
1S*	Sandmount sand	4	2.8	1.6	1.8	5.2	1.9	2.2	3.8
	Sandmount sand phase	4	8.8	1.0	8.2	10.3	8.2	8.4	9.4
	Group average	8	5.8	3.4	1.8	10.3	2.2	6.7	8.4
1D*	Cobram sandy loam & Ss	2	2.4		2.2	2.6			
	Group average**	57	6.2	5.5	1.3	31.3	3.6	4.5	5.7
2	Waaia loam	4	10.1	7.4	3.4	20.7	5.5	8.2	14.7
	Waaia loam phase	4	7.8	1.6	5.8	9.3	6.4	8.0	9.1
	Cobram loam	6	5.1	4.0	2.5	12.7	2.6	3.1	6.5
	Moirra loam friable phase	7	6.9	2.0	2.8	8.8	6.2	7.1	8.5
	Group average	21	7.1	4.1	2.5	20.7	3.4	7.1	8.7
3	Moirra loam	1	3.7						
	Naring loam	4	6.5	1.2	4.9	7.9	5.7	6.7	7.4
	Group average	5	6.0	1.7	3.7	7.9	4.6	6.5	7.2
5	Ulupna clay	1	6.9						
	Group average**	12	7.1	3.4	2.9	13.6	4.3	7.3	9.2
6	Muckatah clay loam	3	5.2	3.0	1.8	7.6			
	Boosey loam friable phase	4	5.5	1.5	3.3	6.4	4.6	6.1	6.3
	Boosey loam	1	7.2						
	Group average	8	5.6	2.0	1.8	7.6	4.6	6.3	6.8

Note: S\* Sandy soils, D\* Duplex soils, \*\* Group average of soils of the three irrigation districts.

**Table 10.2 Soil ESP of Horizon A of soil types - GV District**

Soil Group	Soil Type	No of Sampling Points	ESP (%)						
			Mean	Std.	Min.	Max.	Percentile		
							25	50	75
1D*	East Shepparton fine sandy loam	11	12.9	9.0	1.3	31.3	5.7	11.2	17.2
	Group average**	57	6.2	5.5	1.3	31.3	3.6	4.5	5.7
2	Katamatite loam	4	5.5	0.3	5.2	6.0	5.3	5.5	5.8
	Shepparton fine sandy loam	48	8.6	3.2	2.0	22.3	7.5	8.6	9.5
	Group average	52	8.3	3.1	2.0	22.3	6.9	8.3	9.4
3	Lemnos loam friable phase	8	4.5	1.4	2.8	6.4	3.3	4.5	5.8
	Lemnos loam semi friable phase	4	1.8	0.5	1.5	2.5	1.5	1.6	2.1
	Lemnos loam	20	8.9	6.7	2.3	25.5	3.7	6.5	12.2
	Goulburn loam friable phase	4	6.9	2.6	5.3	10.8	5.4	5.8	8.4
	Group average	36	6.9	5.6	1.5	25.5	3.1	5.3	10.4
4	Goulburn loam	17	6.3	5.8	1.9	23.0	3.1	4.2	6.4
	Goulburn clay loam	4	1.9	0.5	1.5	2.6	1.5	1.7	2.2
	Group average	21	5.5	5.5	1.5	23.0	2.0	3.9	5.7
5	Congupna clay loam	5	3.9	0.9	2.9	4.8	2.9	3.9	4.8
	Group average**	12	7.1	3.4	2.9	13.6	4.3	7.3	9.2
6	Congupna clay	4	4.8	1.6	3.4	7.1	3.7	4.3	5.9
	Group average**	17	5.1	1.8	1.8	7.6	3.8	5.8	6.5

Note: D\* Duplex soils, \*\* Group average of soils of the three irrigation districts.

**Table 10.3 Soil ESP of Horizon A of soil types - RO District**

Soil Group	Soil Type	No of Sampling Points	ESP (%)						
			Mean	Std.	Min.	Max.	Percentile		
							25	50	75
1D*	Nanneella fine sandy loam	44	4.8	2.6	1.5	19.4	3.6	4.3	5.5
	Group average**	57	6.2	5.5	1.3	31.3	3.6	4.5	5.7
2	Timmering loam	11	7.5	4.4	3.0	19.0	4.6	6.4	9.2
	Group average**	84	7.9	3.6	2.0	22.3	6.0	8.1	9.3
3	Wanalta loam	16	7.0	3.0	2.8	14.6	4.9	7.5	8.7
	Group average**	57	6.9	4.7	1.5	25.5	3.6	5.6	8.6
4	Wana loam	1	0.5						
	Koyuga clay loam	2	13.1		10.6	15.6			
	Koga clay loam	2	7.8		5.9	9.7			
	Group average	5	8.5	5.6	0.5	15.6	4.6	9.7	11.8
5	Rochester clay	1	11.2						
	Alta clay loam	5	9.6	2.3	7.6	13.6	8.3	9.0	10.5
	Group average	6	9.9	2.2	7.6	13.6	8.5	9.2	11.2
6	Wallenjoe clay	1	2.1						
	Carag clay	4	5.3	1.2	4.2	6.7	4.3	5.1	6.2
	Group average	5	4.6	1.8	2.1	6.7	3.7	4.4	6.0

Note: D\* Duplex soils, \*\* Group average of soils of the three irrigation districts.

**Table 11.1 Soil ESP of Horizon B1 of soil types - MV District**

Soil Group	Soil Type	No of Sampling Points	ESP						
			Mean	Std.	Min.	Max.	Percentile		
							25	50	75
1S*	Sandmount sand	4	4.5	2.0	2.3	6.5	2.9	4.7	6.1
	Sandmount sand phase	4	9.0	1.2	7.5	10.4	8.2	9.2	9.9
	Group average	8	6.8	2.9	2.3	10.4	4.7	7.0	9.2
1D*	Cobram sandy loam & Ss	2	2.7		2.6	2.8			
	Group average**	57	7.3	6.0	1.6	32.8	4.4	5.5	7.3
2	Waaia loam	4	9.9	8.3	1.5	21.3	4.6	8.4	15.2
	Waaia loam phase	4	6.2	2.0	3.4	8.1	4.7	6.7	7.7
	Cobram loam	6	9.9	9.9	2.2	28.8	4.3	5.9	12.4
	Moirra loam friable phase	7	12.8	7.9	2.1	23.8	6.5	13.7	19.3
	Group average	21	10.2	7.7	1.5	28.8	4.8	7.6	14.3
3	Moirra loam	1	4.2						
	Naring loam	4	10.5	2.5	6.8	12.3	8.9	11.5	12.1
	Group average	5	9.2	3.6	4.2	12.3	6.1	11.0	12.0
5	Ulupna clay	1	12.0						
	Group average**	12	10.7	5.0	3.9	17.2	5.9	11.4	15.7
6	Muckatah clay loam	3	6.8	4.5	2.1	11.1			
	Boosey loam friable phase	4	6.7	2.1	3.7	8.6	5.5	7.3	8.0
	Boosey loam	1	8.0						
	Group average	8	6.9	2.8	2.1	11.1	5.4	7.3	8.3

Note: S\* Sandy soils, D\* Duplex soils, \*\* Group average of soils of the three irrigation districts.

**Table 11.2 Soil ESP of Horizon B1 of soil types - GV District**

Soil Group	Soil Type	No of Sampling Points	ESP (%)						
			Mean	Std.	Min.	Max.	Percentile		
							25	50	75
1D*	East Shepparton fine sandy loam	11	14.5	10.7	1.6	32.8	5.2	13.6	22.7
	Group average**	57	7.3	6.0	1.6	32.8	4.4	5.5	7.3
2	Katamatite loam	4	11.8	3.8	8.2	17.0	9.3	11.1	14.4
	Shepparton fine sandy loam	48	10.1	3.9	2.3	28.4	8.7	10.1	11.4
	Group average	52	10.2	3.9	2.3	28.4	8.7	10.2	11.5
3	Lemnos loam friable phase	8	6.6	3.3	3.3	11.5	3.5	6.1	9.4
	Lemnos loam semi friable phase	4	4.4	1.8	2.4	6.7	3.2	4.3	5.7
	Lemnos loam	20	13.1	6.8	2.9	28.2	7.2	12.5	17.6
	Goulburn loam friable phase	4	8.1	5.9	4.2	16.8	4.4	5.7	11.7
	Group average	36	10.1	6.5	2.4	28.2	4.6	7.8	14.7
4	Goulburn loam	17	8.4	6.2	2.0	26.0	5.0	6.7	8.4
	Goulburn clay loam	4	4.0	1.3	2.6	5.4	3.0	4.1	5.1
	Group average	21	7.6	5.9	2.0	26.0	4.8	6.3	7.6
5	Congupna clay loam	5	5.4	1.0	3.9	6.4	4.9	5.5	6.2
	Group average**	12	10.7	5.0	3.9	17.2	5.9	11.4	15.7
6	Congupna clay	4	6.7		6.1	7.6	6.1	6.6	7.3
	Group average**	17	7.0	2.3	2.1	11.1	5.9	7.1	8.2

Note: D\* Duplex soils, \*\* Group average of soils of the three irrigation districts.

**Table 11.3 Soil ESP of Horizon B1 of soil types - RO District**

Soil Group	Soil Type	No of Sampling Points	ESP (%)						
			Mean	Std.	Min.	Max.	Percentile		
							25	50	75
1D*	Nanneella fine sandy loam	44	5.7	1.8	3.1	12.8	4.5	5.3	6.6
	Group average**	57	7.3	6.0	1.6	32.8	4.4	5.5	7.3
2	Timmering loam	11	12.9	4.2	7.4	22.8	10.3	11.7	15.1
	Group average**	84	10.6	5.2	1.5	28.8	7.9	10.1	11.8
3	Wanalta loam	16	9.7	4.8	2.8	17.2	4.8	9.4	14.0
	Group average**	57	9.9	5.8	2.4	28.2	4.8	8.5	13.2
4	Wana loam	1	2.8						
	Koyuga clay loam	2	11.3		10.9	11.7			
	Koga clay loam	2	14.7		11.5	17.9			
	Group average	5	11.0	5.3	2.8	17.9	8.9	11.5	13.2
5	Rochester clay	1	13.6						
	Alta clay loam	5	15.2	2.5	10.9	17.2	14.1	16.1	16.7
	Group average	6	14.9	2.4	10.9	17.2	13.6	15.7	16.6
6	Wallenjoe clay	1	4.2						
	Carag clay	4	8.0	2.6	5.3	10.4	5.8	8.2	10.2
	Group average	5	7.3	2.8	4.2	10.4	5.1	6.3	10.1

Note: D\* Duplex soils, \*\* Group average of soils of the three irrigation districts.

**Table 12.1 Soil saturated hydraulic conductivity of Horizon A of soil types - MV District**

Soil Group	Soil Type	No of Sampling Points	Saturated Hydraulic Conductivity of Horizon A (mm/hr)						
			Mean	Std.	Min.	Max.	Percentile		
							25	50	75
1S*	Sandmount sand	4	254.2	140.6	57.2	366.9	153.9	296.4	354.6
	Sandmount sand phase	4	26.7	10.3	17.8	39.4	18.3	24.8	35.1
	Group average	8	140.5	152.7	17.8	366.9	24.8	48.3	296.4
1D*	Cobram sandy loam & Ss	2	28.8		24.3	33.4			
	Group average**	65	48.5	30.1	10.3	143.3	27.5	38.4	63.0
2	Waaia loam	10	25.3	12.6	13.6	49.9	15.0	20.9	35.7
	Waaia loam phase	4	16.0	14.9	6.8	38.2	7.7	9.4	24.2
	Cobram loam	12	22.5	12.6	6.5	44.9	12.5	20.6	29.4
	Moir a loam friable phase	10	16.5	9.0	4.4	30.3	10.5	14.4	25.3
	Group average	36	20.9	12.0	4.4	49.9	11.2	16.6	29.9
3	Moir a loam	2	16.1		12.8	19.4			
	Naring loam	8	20.7	12.1	6.6	39.4	12.1	17.7	30.2
	Group average	10	19.8	11.0	6.6	39.4	12.8	17.3	23.1
5	Ulupna clay	2	44.8		37.2	52.5			
	Group average**	14	36.3	20.3	14.4	82.5	23.6	30.3	40.4
6	Muckatah clay loam	6	18.1	13.0	4.8	42.7	12.6	14.4	20.0
	Boosey loam friable phase	4	9.7	1.5	8.3	11.0	8.4	9.7	10.9
	Boosey loam	2	11.6		7.1	16.2			
	Group average	12	14.2	9.9	4.8	42.7	8.4	11.8	15.5

Note: S\* Sandy soils, D\* Duplex soils, \*\* Group average of soils of the three irrigation districts.



**Table 12.2 Soil saturated hydraulic conductivity of Horizon A of soil types - GV District**

Soil Group	Soil Type	No of Sampling Points	Saturated Hydraulic Conductivity of Horizon A (mm/hr)						
			Mean	Std.	Min.	Max.	Percentile		
							25	50	75
1D*	East Shepparton fine sandy loam	14	58.7	38.4	10.3	143.3	27.2	49.0	80.9
	Group average**	65	48.5	30.1	10.3	143.3	27.5	38.4	63.0
2	Katamatite loam	4	26.6	16.0	9.5	46.1	14.1	25.4	39.1
	Shepparton fine sandy loam	54	27.4	16.1	3.9	67.4	14.5	24.5	34.6
	Group average	58	27.3	15.9	3.9	67.4	14.5	24.5	34.6
3	Lemnos loam friable phase	8	46.1	21.9	16.0	80.9	29.8	42.4	63.7
	Lemnos loam semi friable phase	4	91.4	56.9	31.8	143.3	42.8	95.2	140.0
	Lemnos loam	38	45.2	30.6	4.2	127.5	21.0	41.8	67.0
	Goulburn loam friable phase	4	33.0	8.6	20.8	40.6	27.2	35.3	38.9
	Group average	54	47.8	32.7	4.3	143.3	26.0	41.5	67.0
4	Goulburn loam	20	28.7	15.2	5.0	64.4	17.1	27.1	33.3
	Goulburn clay loam	4	11.6	3.2	8.0	14.9	9.0	11.7	14.2
	Group average	24	25.9	15.3	5.0	64.4	14.2	24.5	32.5
5	Congupna clay loam	5	37.1	20.6	23.6	72.6	24.1	28.0	45.9
	Group average**	14	36.3	20.3	14.4	82.5	23.6	30.3	40.4
6	Congupna clay	4	41.0	11.6	30.5	55.9	31.9	38.9	50.2
	Group average**	22	21.5	15.5	4.0	55.9	10.8	14.4	30.5

Note: D\* Duplex soils, \*\* Group average of soils of the three irrigation districts.

**Table 12.3 Soil saturated hydraulic conductivity of Horizon A of soil types - RO District**

Soil Group	Soil Type	No of Sampling Points	Saturated Hydraulic Conductivity of Horizon A (mm/hr)						
			Mean	Std.	Min.	Max.	Percentile		
							25	50	75
1D*	Nanneella fine sandy loam	49	46.4	27.5	10.3	130.5	28.1	38.2	60.9
	Group average**	65	48.5	30.1	10.3	143.3	27.5	38.4	63.0
2	Timmering loam	18	40.1	30.3	9.4	109.1	19.2	29.5	45.0
	Group average**	112	27.3	18.9	3.9	109.1	14.3	23.3	34.4
3	Wanalta loam	18	46.8	29.1	12.0	120.7	26.3	36.4	72.6
	Group average**	82	44.2	31.3	4.2	143.3	20.8	37.2	60.3
4	Wana loam	2	49.0		23.2	74.8			
	Koyuga clay loam	3	23.4		15.8	37.0			
	Koga clay loam	4	18.1	11.6	9.8	35.0	10.6	13.8	25.6
	Group average	9	26.7	20.4	9.8	74.8	14.7	17.4	35.5
5	Rochester clay	2	19.5		14.4	24.6			
	Alta clay loam	5	38.7	26.2	15.8	82.5	20.7	32.6	50.9
	Group average	7	33.2	23.6	14.4	82.5	17.4	24.6	38.4
6	Wallenjoe clay	2	26.8		4.0	49.6			
	Carag clay	4	21.0	9.6	12.8	30.1	12.8	20.7	29.3
	Group average	6	23.0	16.5	4.0	49.6	12.8	20.7	30.1

Note: D\* Duplex soils, \*\* Group average of soils of the three irrigation districts.

**Table 13.1 Soil saturated hydraulic conductivity of Horizon B1 of soil types - MV District**

Soil Group	Soil Type	No of Sampling Points	Saturated Hydraulic Conductivity of Horizon B1 (mm/hr)						
			Mean	Std.	Min.	Max.	Percentile		
							25	50	75
1S*	Sandmount sand	4	57.1	33.5	11.4	83.2	31.9	66.8	82.2
	Sandmount sand phase	4	15.9	7.5	6.1	23.2	10.2	17.2	21.6
	Group average	8	36.5	31.5	6.1	83.2	12.8	21.6	66.8
1D*	Cobram sandy loam & Ss	2	19.9		9.8	29.9			
	Group average**	28	11.7	17.2	0.7	91.2	2.7	7.3	13.9
2	Waaia loam	8	1.6	1.0	0.4	2.9	0.6	1.5	2.6
	Waaia loam phase	4	7.5	3.6	2.5	11.0	5.2	8.3	9.9
	Cobram loam	11	2.9	3.0	0.1	10.4	0.7	2.7	4.2
	Moira loam friable phase	6	2.8	3.5	0.8	9.9	1.2	1.5	2.2
	Group average	29	3.2	3.2	0.1	11.0	0.9	2.2	3.7
3	Moira loam	2	0.9		0.8	1.1			
	Naring loam	8	1.9	1.4	0.2	4.5	1.0	1.7	2.6
	Group average	10	1.7	1.3	0.2	4.5	0.8	1.3	2.4
5	Ulupna clay	2	1.7		1.0	2.3			
	Group average**	12	2.0	1.5	0.4	5.7	0.8	1.7	2.5
6	Muckatah clay loam	6	0.6	0.3	0.4	1.2	0.4	0.6	0.8
	Boosey loam friable phase	0							
	Boosey loam	2	0.2		0.0	0.5			
	Group average	8	0.5	0.3	0.0	1.2	0.4	0.5	0.7

Note: S\* Sandy soils, D\* Duplex soils, \*\* Group average of soils of the three irrigation districts.

**Table 13.2 Soil saturated hydraulic conductivity of Horizon B1 of soil types - GV District**

Soil Group	Soil Type	No of Sampling Points	Saturated Hydraulic Conductivity of Horizon B1 (mm/hr)						
			Mean	Std.	Min.	Max.	Percentile		
							25	50	75
1D*	East Shepparton fine sandy loam	14	12.3	23.3	1.8	91.2	2.4	4.7	8.0
	Group average**	28	11.7	17.2	0.7	91.2	2.7	7.3	13.9
2	Katamatite loam	2	7.6		5.5	9.6			
	Shepparton fine sandy loam	14	4.8	5.3	0.1	18.3	0.5	2.8	7.2
	Group average	16	5.2	5.1	0.1	18.3	0.6	4.5	8.2
3	Lemnos loam friable phase	8	8.5	14.8	0.3	43.3	0.4	2.7	9.2
	Lemnos loam semi friable phase	4	5.4	7.1	1.2	16.0	1.2	2.2	9.5
	Lemnos loam	37	6.0	5.4	0.1	29.4	2.8	5.1	8.2
	Goulburn loam friable phase	4	4.2	2.8	2.2	8.4	2.5	3.2	6.0
	Group average	53	6.2	7.4	0.1	43.3	2.3	3.7	8.2
4	Goulburn loam	18	3.8	6.3	0.4	27.4	0.9	1.9	2.7
	Goulburn clay loam	4	1.2	0.0	1.1	1.2	1.2	1.2	1.2
	Group average	22	3.3	5.7	0.4	27.4	1.1	1.3	2.7
5	Congupna clay loam	4	2.4	2.4	0.4	5.7	0.5	1.7	4.2
	Group average**	12	2.0	1.5	0.4	5.7	0.8	1.7	2.5
6	Congupna clay	4	2.9	0.7	2.4	3.8	2.4	2.7	3.3
	Group average**	17	1.3	1.1	0.0	3.8	0.4	1.1	2.4

Note: D\* Duplex soils, \*\* Group average of soils of the three irrigation districts.

**Table 13.3 Soil saturated hydraulic conductivity of Horizon B1 of soil types - RO District**

Soil Group	Soil Type	No of Sampling Points	Saturated Hydraulic Conductivity of Horizon B1 (mm/hr)						
			Mean	Std.	Min.	Max.	Percentile		
							25	50	75
1D*	Nanneella fine sandy loam	12	9.6	6.6	0.6	20.4	3.5	10.1	13.9
	Group average**	28	11.7	17.2	0.7	91.2	2.7	7.3	13.9
2	Timmering loam	18	3.0	3.5	0.2	13.8	0.8	1.3	4.1
	Group average**	63	3.6	3.9	0.1	18.3	0.8	2.1	5.3
3	Wanalta loam	17	6.3	4.4	0.2	14.9	2.9	6.0	9.6
	Group average**	80	5.7	6.5	0.1	43.3	2.0	3.7	7.4
4	Wana loam	0							
	Koyuga clay loam	3	3.6	0.9	2.6	4.5			
	Koga clay loam	4	2.1	1.8	0.8	4.8	1.0	1.5	3.3
	Group average	7	2.8	1.6	0.8	4.8	1.3	2.6	4.3
5	Rochester clay	2	1.7		1.6	1.8			
	Alta clay loam	4	1.9	1.3	0.5	3.7	0.9	1.6	2.8
	Group average	6	1.8	1.0	0.5	3.7	1.4	1.7	1.9
6	Wallenjoe clay	1	3.1						
	Carag clay	4	1.0	0.3	0.4	1.1	0.8	1.1	1.1
	Group average	5	1.4	1.0	0.4	3.1	0.9	1.1	1.6

Note: D\* Duplex soils, \*\* Group average of soils of the three irrigation districts.

**Table 14.1 Soil final infiltration rate of Horizon B1 of soil types - MV District**

Soil Group	Soil Type	No of Sampling Points	Final Infiltration Rate of Horizon B1 (mm/hr)						
			Mean	Std.	Min.	Max.	Percentile		
							25	50	75
1S*	Sandmount sand	4	244.1	176.7	40.3	420.0	98.2	258.0	390.0
	Sandmount sand phase	4	13.28	3.61	8.52	16.86	10.59	13.86	15.96
	Group average	8	129.00	169.00	8.52	420.00	13.90	28.60	258.00
1D*	Cobram sandy loam & Ss	2	21.45		20.90	21.99			
	Group average**	56	5.9	9.1	0.0	36.2	0.2	1.3	7.6
2	Waaia loam	3	0.36	0.37	0.10	0.78			
	Waaia loam phase	4	3.14	4.95	0.42	10.56	0.58	0.79	5.70
	Cobram loam	5	0.18	0.34	0.02	0.79	0.02	0.02	0.25
	Moira loam friable phase	6	0.25	0.43	0.01	1.09	0.01	0.04	0.33
	Group average	18	0.89	2.44	0.01	10.56	0.02	0.15	0.78
3	Moira loam	1	2.95						
	Naring loam	3	0.18	0.29	0.01	0.52			
	Group average	4	0.87	1.40	0.01	2.95	0.01	0.27	1.74
5	Ulupna clay	1	1.14						
	Group average**	12	0.36	0.42	0.02	1.20	0.05	0.14	0.49
6	Muckatah clay loam	3	0.32	0.15	0.17	0.46			
	Boosey loam friable phase	4	0.02	0.03	0.00	0.06	0.01	0.02	0.04
	Boosey loam	1	0.42						
	Group average	8	0.19	0.19	0.00	0.46	0.02	0.12	0.38

Note: S\* Sandy soils, D\* Duplex soils, \*\* Group average of soils of the three irrigation districts.

**Table 14.2 Soil final infiltration rate of Horizon B1 of soil types - GV District**

Soil Group	Soil Type	No of Sampling Points	Final Infiltration Rate of Horizon B1 (mm/hr)						
			Mean	Std.	Min.	Max.	Percentile		
							25	50	75
1D*	East Shepparton fine sandy loam	11	10.30	12.50	0.05	33.78	0.19	7.50	17.87
	Group average**	56	5.9	9.1	0.0	36.2	0.2	1.3	7.6
2	Katamatite loam	4	3.99	3.80	1.63	9.60	1.66	2.36	6.31
	Shepparton fine sandy loam	48	0.54	1.61	0.01	10.86	0.07	0.13	0.33
	Group average	52	0.81	2.02	0.01	10.86	0.08	0.13	0.47
3	Lemnos loam friable phase	8	3.85	9.01	0.10	25.92	0.12	0.21	2.06
	Lemnos loam semi friable phase	4	0.64	0.56	0.18	1.44	0.25	0.47	1.03
	Lemnos loam	19	1.41	1.27	0.23	4.85	0.66	1.11	1.74
	Goulburn loam friable phase	4	1.27	1.25	0.49	3.12	0.52	0.74	2.02
	Group average	35	1.87	4.36	0.10	25.92	0.32	0.69	1.43
4	Goulburn loam	16	0.43	0.59	0.01	1.92	0.07	0.23	0.44
	Goulburn clay loam	4	0.14	0.03	0.10	0.17	0.12	0.14	0.16
	Group average	20	0.37	0.53	0.01	1.92	0.09	0.16	0.36
5	Congupna clay loam	5	0.12	0.17	0.02	0.42	0.03	0.05	0.15
	Group average**	12	0.36	0.42	0.02	1.20	0.05	0.14	0.49
6	Congupna clay	4	0.37	0.36	0.05	0.73	0.07	0.36	0.68
	Group average**	16	0.19	0.24	0.00	0.73	0.02	0.06	0.38

Note: D\* Duplex soils, \*\* Group average of soils of the three irrigation districts.

**Table 14.3 Soil final infiltration rate of Horizon B1 of soil types - RO District**

Soil Group	Soil Type	No of Sampling Points	Final Infiltration Rate of Horizon B1 (mm/hr)						
			Mean	Std.	Min.	Max.	Percentile		
							25	50	75
1D*	Nanneella fine sandy loam	43	3.98	7.17	0.01	36.18	0.20	1.23	3.28
	Group average**	56	5.9	9.1	0.0	36.2	0.2	1.3	7.6
2	Timmering loam	8	1.29	1.50	0.08	3.92	0.18	0.41	2.57
	Group average**	78	0.88	2.06	0.01	10.86	0.07	0.14	0.74
3	Wanalta loam	16	2.48	3.66	0.01	10.26	0.25	0.74	3.07
	Group average**	55	1.97	3.99	0.01	25.92	0.29	0.66	1.43
4	Wana loam	1	1.98						
	Koyuga clay loam	2	1.21		1.16	1.26			
	Koga clay loam	2	0.75		0.70	0.79			
	Group average	5	1.18	0.51	0.70	1.98	0.77	1.16	1.44
5	Rochester clay	1	0.51						
	Alta clay loam	5	0.41	0.47	0.06	1.20	0.08	0.20	0.66
	Group average	6	0.42	0.43	0.06	1.20	0.08	0.34	0.51
6	Wallenjoe clay	0							
	Carag clay	4	0.03	0.02	0.01	0.05	0.01	0.03	0.05
	Group average**	16	0.19	0.24	0.00	0.73	0.02	0.06	0.38

Note: D\* Duplex soils, \*\* Group average of soils of the three irrigation districts.



**Table 15.1 Soil water retention characteristic of Horizon A of soil types - MV District**

Soil Group	Soil Type	No of Sampling Points	Volumetric Water Content (% cm <sup>3</sup> /cm <sup>3</sup> )							
			Matric Suction							
			0 kPa		10 kPa		60 kPa		1500 kPa	
			Mean	Std	Mean	Std	Mean	Std	Mean	Std
1S*	Sandmount sand	2	42.7		19.8		12.4		4.2	
	Sandmount sand phase	2	35.4		27.3		22.5		10.2	
	Group average	4	39.0	6.6	23.6	5.4	17.5	4.9	7.2	3.4
1D*	Cobram sandy loam & Ss	0								
	Group average**	14	40.2	7.0	33.1	6.8	27.9	6.6	15.7	5.0
2	Waaia loam	4	43.6	3.1	40.2	3.1	32.7	1.9	22.0	2.8
	Waaia loam phase	2	52.2		49.5	3.5	46.1		33.9	
	Cobram loam	8	42.9	5.0	37.2	5.2	33.1	4.6	23.1	3.4
	Moirā loam friable phase	4	38.2	5.2	35.7	4.6	32.7	3.9	20.3	2.7
	Group average	18	43.0	5.8	38.9	5.9	34.4	5.5	23.4	4.9
3	Moirā loam	2	42.0		34.6		31.5		15.9	
	Naring loam	5	39.9	4.9	34.0	6.1	30.5	5.7	21.9	4.9
	Group average	7	40.5	5.3	34.1	5.4	30.8	4.9	20.2	5.1
5	Ulupna clay	2	46.0		44.3		42.6		34.9	
	Group average**	8	48.4	4.3	44.6	2.7	42.3	2.8	34.4	3.7
6	Muckatah clay loam	6	39.9	4.6	36.9	5.3	34.3	5.6	29.0	4.9
	Boosey loam friable phase	2	43.7		39.9		36.1		26.0	
	Boosey loam	2	40.5		37.4		34.3		31.2	
	Group average	10	40.8	3.9	37.6	4.4	34.7	4.5	28.8	4.1

Note: S\* Sandy soils, D\* Duplex soils, \*\* Group average of soils of the three irrigation districts.

Table 15.2 Soil water retention characteristic of Horizon A of soil types - GV District

Soil Group	Soil Type	No of Sampling Points	Volumetric Water Content (% cm <sup>3</sup> /cm <sup>3</sup> )							
			Matric Suction							
			0 kPa		10 kPa		60 kPa		1500 kPa	
			Mean	Std	Mean	Std	Mean	Std	Mean	Std
1D*	East Shepparton fine sandy loam	6	38.5	3.6	28.8	2.6	24.9	3.3	15.5	5.2
	Group average**	14	40.2	7.0	33.1	6.8	27.9	6.6	15.7	5.0
2	Katamatite loam	2	49.0		45.1		42.6		31.7	
	Shepparton fine sandy loam	10	39.7	2.7	34.7	2.5	31.3	2.8	22.1	5.7
	Group average	12	41.2	5.7	36.5	5.8	33.2	6.2	23.7	7.1
3	Lemnos loam friable phase	4	43.7	4.7	37.9	5.1	33.7	4.9	21.4	3.3
	Lemnos loam semi friable phase	2	40.9		29.9		25.5		17.4	
	Lemnos loam	15	46.1	7.0	38.4	7.3	34.5	7.0	25.2	5.0
	Goulburn loam friable phase	2	37.8		34.2		30.5		21.8	
	Group average	23	44.5	6.4	37.2	6.7	33.2	6.5	23.6	4.9
4	Goulburn loam	6	41.8	5.8	38.6	6.0	35.5	5.9	24.9	5.2
	Goulburn clay loam	0								
	Group average**	16	42.6	5.7	38.5	5.4	34.7	5.5	26.5	5.6
5	Congupna clay loam	2	48.6		43.0		41.1		36.3	
	Group average**	8	48.4	4.3	44.6	2.7	42.3	2.8	34.4	3.7
6	Congupna clay	2	48.0		41.5		37.2		27.9	
	Group average**	16	45.5	8.4	40.1	5.3	36.9	5.4	29.8	5.1

Note: D\* Duplex soils, \*\* Group average of soils of the three irrigation districts.

**Table 15.3 Soil water retention characteristic of Horizon A of soil types - RO District**

Soil Group	Soil Type	No of Sampling Points	Volumetric Water Content (% cm <sup>3</sup> /cm <sup>3</sup> )							
			Matric Suction							
			0 kPa		10 kPa		60 kPa		1500 kPa	
			Mean	Std	Mean	Std	Mean	Std	Mean	Std
1D*	Nanneella fine sandy loam	8	41.5	4.7	36.3	6.1	30.2	7.8	15.9	4.1
	Group average**	14	40.2	7.0	33.1	6.8	27.9	6.6	15.7	5.0
2	Timmering loam	6	48.0	9.9	40.5	7.4	35.2	7.0	24.6	6.5
	Group average**	36	43.3	6.8	38.4	6.1	34.1	5.9	23.7	5.8
3	Wanalta loam	7	45.1	4.5	40.5	3.4	35.4	4.4	28.8	3.2
	Group average**	37	43.9	6.0	37.2	6.2	33.2	5.9	23.9	5.3
4	Wana loam	2	51.7		46.4		42.7		35.6	
	Koyuga clay loam	4	39.9	3.5	35.5	4.3	31.5	4.9	25.1	4.7
	Koga clay loam	4	42.0	5.3	37.6	3.7	32.7	3.0	25.5	4.8
	Group average	10	43.1	5.9	38.5	5.4	34.2	5.6	27.4	5.8
5	Rochester clay	2	45.5		43.0		40.1		33.2	
	Alta clay loam	2	53.5		48.0		45.5		33.2	
	Group average	4	49.5	4.6	45.5	2.9	42.8	3.4	33.2	4.5
6	Wallenjoe clay	2	62.4		47.5		44.6		38.4	
	Carag clay	2	50.2		44.0		40.2		28.4	
	Group average	4	56.3	8.5	45.7	4.5	42.4	5.2	33.4	7.5

Note: D\* Duplex soils, \*\* Group average of soils of the three irrigation districts.

**Table 16.1 Soil water retention characteristic of Horizon B1 of soil types - MV District**

Soil Group	Soil Type	No of Sampling Points	Volumetric Water Content (% cm <sup>3</sup> /cm <sup>3</sup> )							
			Matric Suction							
			0 kPa		10 kPa		60 kPa		1500 kPa	
			Mean	Std	Mean	Std	Mean	Std	Mean	Std
1S*	Sandmount sand	2	39.7		16.1		10.0		4.0	
	Sandmount sand phase	2	32.7		25.3		20.8		9.0	
	Group average	4	36.2	4.8	20.7	6.3	15.4	6.8	6.5	3.1
1D*	Cobram sandy loam & Ss	0								
	Group average**	14	37.4	4.6	32.4	5.8	28.0	5.7	19.6	6.8
2	Waaia loam	4	48.2	5.0	44.6	4.4	37.9	3.3	28.6	4.0
	Waaia loam phase	2	49.1		45.7		43.1		33.2	
	Cobram loam	8	42.3	4.2	37.5	4.7	34.0	4.7	25.7	4.3
	Moirā loam friable phase	4	43.5	2.1	41.7	1.4	39.5	1.3	29.5	2.5
	Group average	18	44.6	4.5	40.9	5.0	37.1	4.7	28.0	4.3
3	Moirā loam	2	40.1		34.8		32.1		22.6	
	Naring loam	6	40.3	8.5	36.8	10.0	33.9	10.5	26.0	8.1
	Group average	8	40.2	7.3	36.3	8.8	33.5	9.3	25.1	7.4
5	Ulupna clay	2	45.2		42.4		40.1		30.6	
	Group average**	8	51.2	8.0	46.0	6.2	44.0	6.4	33.7	5.3
6	Muckatah clay loam	6	46.9	8.6	43.6	7.3	40.7	6.7	31.4	4.0
	Boosey loam friable phase	2	43.8		38.3		33.6		23.7	
	Boosey loam	2	43.3		41.9		39.7		30.4	
	Group average	10	45.5	6.9	42.2	6.2	39.1	6.3	29.7	5.2

Note: S\* Sandy soils, D\* Duplex soils, \*\* Group average of soils of the three irrigation districts.

**Table 16.2 Soil water retention characteristic of Horizon B1 of soil types - GV District**

Soil Group	Soil Type	No of Sampling Points	Volumetric Water Content (% cm <sup>3</sup> /cm <sup>3</sup> )							
			Matric Suction							
			0 kPa		10 kPa		60 kPa		1500 kPa	
			Mean	Std	Mean	Std	Mean	Std	Mean	Std
1D*	East Shepparton fine sandy loam	6	34.3	3.7	28.0	4.7	25.3	5.1	18.6	7.5
	Group average**	14	37.4	4.6	32.4	5.8	28.0	5.7	19.6	6.8
2	Katamatite loam	2	42.8		37.6		33.8		23.6	
	Shepparton fine sandy loam	10	45.2	5.0	43.3	4.9	40.7	5.0	31.1	4.7
	Group average	12	44.8	5.1	42.3	5.5	39.5	5.8	29.8	5.7
3	Lemnos loam friable phase	4	45.5	4.9	38.2	5.8	34.2	5.5	23.5	4.3
	Lemnos loam semi friable phase	2	43.6		36.5		32.8		28.2	
	Lemnos loam	18	42.7	4.8	39.0	5.8	35.2	6.2	27.1	6.1
	Goulburn loam friable phase	2	50.7		43.6		39.1		31.6	
	Group average	26	43.8	5.0	39.0	5.6	35.2	5.9	27.0	5.8
4	Goulburn loam	6	42.9	4.9	39.6	6.1	36.2	7.7	24.8	8.0
	Goulburn clay loam	0								
	Group average**	16	47.5	6.0	43.3	5.7	39.7	6.3	29.6	6.8
5	Congupna clay loam	2	48.7		45.2		43.3		31.6	
	Group average**	8	51.2	8.0	46.0	6.2	44.0	6.4	33.7	5.3
6	Congupna clay	2	45.6		39.0		35.1		26.9	
	Group average**	16	49.5	8.9	44.3	6.9	41.0	7.0	31.7	6.2

Note: D\* Duplex soils, \*\* Group average of soils of the three irrigation districts.

**Table 16.3 Soil water retention characteristic of Horizon B1 of soil types - RO District**

Soil Group	Soil Type	No of Sampling Points	Volumetric Water Content (% cm <sup>3</sup> /cm <sup>3</sup> )							
			Matric Suction							
			0 kPa		10 kPa		60 kPa		1500 kPa	
			Mean	Std	Mean	Std	Mean	Std	Mean	Std
1D*	Nanneella fine sandy loam	8	39.8	3.9	35.7	4.2	29.9	5.6	20.3	6.7
	Group average**	14	37.4	4.6	32.4	5.8	28.0	5.7	19.6	6.8
2	Timmering loam	6	47.1	5.6	43.7	6.8	40.0	6.9	32.1	6.2
	Group average**	36	45.1	4.9	41.8	5.4	38.4	5.5	29.3	5.2
3	Wanalta loam	8	47.4	9.8	40.7	8.3	36.5	8.7	28.2	7.4
	Group average**	42	43.8	6.8	38.8	6.8	35.1	7.0	26.9	6.3
4	Wana loam	2	48.4		44.6		42.1		37.3	
	Koyuga clay loam	4	49.8	4.9	46.5	4.3	42.7	4.5	33.3	2.3
	Koga clay loam	4	51.7	6.4	45.2	6.1	40.7	6.0	29.4	3.7
	Group average	10	50.3	4.9	45.6	4.4	41.8	4.4	32.5	4.1
5	Rochester clay	2	49.4		47.7		45.9		36.2	
	Alta clay loam	2	61.4		48.6		46.7		36.3	
	Group average	4	55.4	6.9	48.1	2.9	46.3	2.6	36.3	1.6
6	Wallenjoe clay	2	62.5		51.0		47.8		40.2	
	Carag clay	2	59.9		53.6		49.5		38.0	
	Group average	4	61.2	3.0	52.3	1.6	48.7	1.3	39.1	1.7

Note: D\* Duplex soils, \*\* Group average of soils of the three irrigation districts.

**Table 17.1 Available water capacity of Horizon A of soil types - MV District**

Soil Group	Soil Type	No of Sampling Points	Available Water Capacity (% cm <sup>3</sup> /cm <sup>3</sup> )						
			Mean	Std.	Min.	Max.	Percentile		
							25	50	75
1S*	Sandmount sand	2	15.6		12.8	18.5			
	Sandmount sand phase	2	17.1		17.0	17.3			
	Group average	4	16.4	2.5	12.8	18.5	14.9	17.1	17.9
1D*	Cobram sandy loam & Ss	0							
	Group average**	14	17.4	6.5	8.7	31.1	12.6	15.8	19.6
2	Waaia loam	4	18.2	3.9	13.3	22.8	15.8	18.4	20.6
	Waaia loam phase	2	15.6		10.6	20.6			
	Cobram loam	8	14.0	3.5	10.4	19.1	11.5	12.3	17.6
	Moirra loam friable phase	4	15.4	3.7	12.8	20.9	13.0	14.1	17.8
	Group average	18	15.5	4.0	10.4	22.8	12.1	14.1	18.5
3	Moirra loam	2	18.7		16.9	20.5			
	Naring loam	5	12.1	3.4	6.6	14.7	10.0	13.2	14.7
	Group average	7	14.0	4.4	6.6	20.5	11.7	14.6	16.3
5	Ulupna clay	2	9.4		8.5	10.2			
	Group average**	8	10.2	4.1	6.0	18.9	7.3	9.4	11.6
6	Muckatah clay loam	6	7.9	2.2	5.6	11.5	5.8	7.8	8.9
	Boosey loam friable phase	2	13.9		13.7	14.2			
	Boosey loam	2	6.1		5.5	6.7			
	Group average	10	8.8	3.3	5.5	14.2	5.8	7.8	11.5

Note: S\* Sandy soils, D\* Duplex soils, \*\* Group average of soils of the three irrigation districts.

**Table 17.2 Available water capacity of Horizon A of soil types - GV District**

Soil Group	Soil Type	No of Sampling Points	Available Water Capacity (% cm <sup>3</sup> /cm <sup>3</sup> )						
			Mean	Std.	Min.	Max.	Percentile		
							25	50	75
1D*	East Shepparton fine sandy loam	6	13.3	3.4	8.7	18.5	12.2	12.5	15.8
	Group average**	14	17.4	6.5	8.7	31.1	12.6	15.8	19.6
2	Katamatite loam	2	13.5		12.4	14.5			
	Shepparton fine sandy loam	10	12.6	5.2	5.3	19.6	7.4	14.0	17.3
	Group average	12	12.8	4.7	5.3	19.6	7.9	13.9	16.6
3	Lemnos loam friable phase	4	16.4	3.6	12.9	20.8	13.6	16.0	19.3
	Lemnos loam semi friable phase	2	12.5		12.2	12.7			
	Lemnos loam	15	13.2	5.0	3.7	22.1	9.3	13.4	16.7
	Goulburn loam friable phase	2	12.3		11.2	13.5			
	Group average	23	13.6	4.5	3.7	22.1	12.2	13.4	16.7
4	Goulburn loam	6	13.6	6.7	4.2	22.0	8.3	14.4	18.3
	Goulburn clay loam	0							
	Group average**	16	12.1	4.3	4.2	22.0	9.5	11.3	14.1
5	Congupna clay loam	2	6.7		6.0	7.4			
	Group average**	8	10.2	4.1	6.0	18.9	7.3	9.4	11.6
6	Congupna clay	2	13.6		13.0	14.2			
	Group average**	16	10.3	3.7	5.5	16.3	7.2	9.3	13.9

Note: D\* Duplex soils, \*\* Group average of soils of the three irrigation districts.



**Table 17.3 Available water capacity of Horizon A of soil types - RO District**

Soil Group	Soil Type	No of Sampling Points	Available Water Capacity (% cm <sup>3</sup> /cm <sup>3</sup> )						
			Mean	Std.	Min.	Max.	Percentile		
							25	50	75
1D*	Nanneella fine sandy loam	8	20.4	6.7	12.9	31.1	15.3	18.1	26.3
	Group average**	14	17.4	6.5	8.7	31.1	12.6	15.8	19.6
2	Timmering loam	6	15.9	3.6	11.4	20.1	13.4	15.6	19.3
	Group average**	36	14.6	4.3	5.3	22.8	11.9	13.9	18.4
3	Wanalta loam	7	11.8	2.1	9.5	15.0	9.9	11.7	13.5
	Group average**	37	13.3	4.1	3.7	22.1	11.2	13.2	15.1
4	Wana loam	2	10.8		10.7	10.8			
	Koyuga clay loam	4	10.3	2.6	8.2	14.1	8.7	9.5	11.9
	Koga clay loam	4	12.2	1.7	10.0	14.0	10.9	12.3	13.4
	Group average	10	11.2	2.0	8.2	14.1	9.7	10.8	12.8
5	Rochester clay	2	9.9		7.2	12.6			
	Alta clay loam	2	14.8		10.6	18.9			
	Group average	4	12.3	4.9	7.2	18.9	8.9	11.6	15.8
6	Wallenjo clay	2	9.1		8.5	9.7			
	Carag clay	2	15.7		15.0	16.3			
	Group average	4	12.4	3.9	8.5	16.3	9.1	12.4	15.7

Note: D\* Duplex soils, \*\* Group average of soils of the three irrigation districts.

**Table 18.1 Available water capacity of Horizon B1 of soil types - MV District**

Soil Group	Soil Type	No of Sampling Points	Available Water Capacity (% cm <sup>3</sup> /cm <sup>3</sup> )						
			Mean	Std.	Min.	Max.	Percentile		
							25	50	75
1S*	Sandmount sand	2	12.1		9.0	15.2			
	Sandmount sand phase	2	16.3		16.2	16.5			
	Group average	4	14.2	1.9	9.0	16.5	12.1	15.7	16.3
1D*	Cobram sandy loam & Ss	0							
	Group average**	14	12.8	2.5	4.1	30.8	10.1	13.0	15.0
2	Waaia loam	4	16.0	3.8	11.3	20.1	13.0	16.2	18.9
	Waaia loam phase	2	12.5		11.5	13.5			
	Cobram loam	8	11.8	2.5	9.0	15.4	9.7	11.0	14.1
	Moira loam friable phase	4	12.2	2.8	8.6	14.5	9.9	12.8	14.5
	Group average	18	12.9	3.1	8.6	20.1	10.5	12.4	14.8
3	Moira loam	2	12.1		11.6	12.7			
	Naring loam	6	10.8	3.3	5.9	15.7	9.6	10.6	12.5
	Group average	8	11.1	2.8	5.9	15.7	9.8	11.4	12.6
5	Ulupna clay	2	11.8		10.1	13.5			
	Group average**	8	12.3	1.5	10.1	13.8	11.0	12.6	13.6
6	Muckatah clay loam	6	12.2	4.0	6.5	16.7	9.2	12.2	16.2
	Boosey loam friable phase	2	14.7		12.8	16.5			
	Boosey loam	2	11.5		10.4	12.5			
	Group average	10	12.5	3.3	6.5	16.7	10.4	12.6	16.2

Note: S\* Sandy soils, D\* Duplex soils, \*\* Group average of soils of the three irrigation districts.

**Table 18.2 Available water capacity of Horizon B1 of soil types - GV District**

Soil Group	Soil Type	No of Sampling Points	Available Water Capacity (% cm <sup>3</sup> /cm <sup>3</sup> )						
			Mean	Std.	Min.	Max.	Percentile		
							25	50	75
1D*	East Shepparton fine sandy loam	6	9.4	4.3	4.1	15.0	5.8	9.1	13.2
	Group average**	14	12.8	2.5	4.1	30.8	10.1	13.0	15.0
2	Katamatite loam	2	14.0		14.0	14.0			
	Shepparton fine sandy loam	10	12.2	2.6	7.0	16.6	11.2	12.3	12.7
	Group average	12	12.5	2.5	7.0	16.6	11.6	12.5	14.0
3	Lemnos loam friable phase	4	14.6	2.8	11.2	17.8	12.5	14.7	16.7
	Lemnos loam semi friable phase	2	8.3		8.2	8.5			
	Lemnos loam	18	11.9	3.7	4.3	18.2	9.3	12.1	14.1
	Goulburn loam friable phase	2	12.0		11.7	12.3			
	Group average	26	12.1	3.5	4.3	18.2	9.3	12.0	14.1
4	Goulburn loam	6	14.9	4.0	8.2	19.2	13.6	14.8	18.6
	Goulburn clay loam	0							
	Group average**	16	13.7	3.9	5.9	19.2	11.5	13.6	17.1
5	Congupna clay loam	2	13.6		13.6	13.7			
	Group average**	8	12.3	1.5	10.1	13.8	11.0	12.6	13.6
6	Congupna clay	2	12.1		10.7	13.6			
	Group average**	16	12.6	3.0	6.5	16.7	10.5	12.6	15.6

Note: D\* Duplex soils, \*\* Group average of soils of the three irrigation districts.

**Table 18.3 Available water capacity of Horizon B1 of soil types - RO District**

Soil Group	Soil Type	No of Sampling Points	Available Water Capacity (% cm <sup>3</sup> /cm <sup>3</sup> )						
			Mean	Std.	Min.	Max.	Percentile		
							25	50	75
1D*	Nanneella fine sandy loam	8	15.4	6.6	10.1	30.8	11.7	13.9	15.4
	Group average**	14	12.8	2.5	4.1	30.8	10.1	13.0	15.0
2	Timmering loam	6	11.6	3.0	8.4	16.4	9.4	10.7	14.0
	Group average**	36	12.5	2.9	7.0	20.1	10.5	12.3	14.5
3	Wanalta loam	8	12.5	2.5	9.1	16.2	10.5	12.7	14.2
	Group average**	42	12.0	3.2	4.3	18.2	9.7	12.0	13.8
4	Wana loam	2	7.3		5.9	8.7			
	Koyuga clay loam	4	13.2	2.2	11.4	16.2	11.5	12.6	14.9
	Koga clay loam	4	15.8	2.8	13.1	18.5	13.4	15.8	18.2
	Group average	10	13.1	3.9	5.9	18.5	11.4	13.3	16.2
5	Rochester clay	2	11.4		11.2	11.7			
	Alta clay loam	2	12.3		10.9	13.8			
	Group average	4	11.9	1.3	10.9	13.8	11.0	11.4	12.8
6	Wallenjo clay	2	10.8		10.2	11.4			
	Carag clay	2	15.6		15.5	15.7			
	Group average	4	13.2	2.8	10.2	15.7	10.8	13.5	15.6

Note: D\* Duplex soils, \*\* Group average of soils of the three irrigation districts.