

Soil	Soil 2004-101	Soil 2004-102	Soil 2004-103	Soil 2004-104	Soil 2004-105									
Analysis	Units	n	Median	MAD	Lab ¹	Median	MAD	Lab	Median	MAD	Lab	Median	MAD	Lab
Salinity-SP														
Sat. Paste Moisture	%	32	64.5	5.1	47.9	4.8	42.2	4.5	39.6	4.1	43.1	3.3		
pH - sp	Unit	37	7.30	0.10	8.30	0.08	6.20	0.12	7.60	0.10	5.60	0.10		
Ece - sp	dS/m	43	0.73	0.04	19.0	2.5	0.43	0.08	2.05	0.20	0.55	0.07		
HCO ₃ - sp	mmol/L	12	4.6	1.4	4.5	1.0	1.6	0.55	9.6	3.7	0.75	0.39		
Ca - sp	mmol/L	33	3.42	0.50	23.0	4.1	2.26	0.46	10.2	1.6	2.66	0.45		
Mg - sp	mmol/L	32	3.13	0.47	60	11	1.2	0.21	7.25	1.47	1.04	0.17		
Na - sp	mmol/L	34	1.38	0.25	191	28	0.78	0.33	2.58	0.26	0.41	0.15		
SAR - sp	value	28	0.77	0.14	32	2.6	0.46	0.21	0.87	0.08	0.30	0.10		
Cl - sp	mmol/L	20	0.46	0.15	38.6	5.4	1.20	0.26	3.73	0.59	0.46	0.13		
SO ₄ - sp	mmol/L	21	2.19	0.35	237	42	1.28	0.25	3.28	0.64	0.66	0.09		
NO ₃ - sp	mmol/L	11	0.67	0.53	4.53	1.12	0.04	0.03	3.38	2.97	2.79	0.61		
B - sp	mg/L	15	0.10	0.010	0.80	0.10	0.12	0.020	0.12	0.020	0.11	0.010		
Soil EC														
Soil EC (1:1)	(dS/m)	33	0.68	0.12	7.20	1.09	0.22	0.10	0.79	0.13	0.27	0.05		
Soil EC (1:2)	(dS/m)	46	0.33	0.05	7.13	1.09	0.13	0.05	0.53	0.08	0.15	0.02		
Soil pH														
pH (1:1)	Unit	89	7.56	0.10	8.52	0.08	6.49	0.10	7.90	0.10	5.84	0.12		
pH (1:2)	Unit	34	7.70	0.11	8.41	0.10	6.60	0.18	8.00	0.10	5.99	0.14		
pH (1:1) 0.01M CaCl ₂	Unit	21	7.21	0.09	8.40	0.08	5.81	0.11	7.60	0.07	5.29	0.09		
pH (1:2) 0.01M CaCl ₂	Unit	13	7.20	0.17	8.34	0.09	6.00	0.12	7.60	0.13	5.31	0.09		
Buffer pH														
SMP Buffer pH	Unit	43	7.35	0.06	7.74	0.06	6.81	0.10	7.52	0.10	6.72	0.08		
Adams-Evans Buf pH	Unit	14	7.61	0.03	7.84	0.04	7.53	0.05	7.82	0.05	7.53	0.07		
Woodruff Buf. pH	Unit	15	7.10	0.08	7.34	0.11	6.70	0.05	7.15	0.08	6.63	0.06		
Mehlich Buf. pH	Unit	5	6.64	0.07	7.16	0.11	6.22	0.04	6.81	0.03	6.09	0.08		
Titratable Acidity	cmol/kg	3	0.0	5.4	0.0	0.50	4.92	4.92	0.00	1.83	9.91	0.66		

1 - Values flagged exceed Warning Limits " * " 2.5 x MAD (Median Absolute Deviation) and Control Limits " * * " 4 x MAD. " < " and " ND " values not recorded.

Soil	Soil 2004-101	Soil 2004-102	Soil 2004-103	Soil 2004-104	Soil 2004-105									
Analysis	Units	n	Median	MAD	Lab ¹	Median	MAD	Lab	Median	MAD	Lab	Median	MAD	Lab
Nitrate (NO₃-N)														
Cd. Rd.	mg/kg	54	22.8	1.5	45.0	3.0	1.3	0.6	60.8	7.2	20.0	1.3		
ISE	mg/kg	25	22.9	4.9	44.8	16.6	2.8	1.1	60.0	14.6	19.9	4.1		
CTA	mg/kg	6	23.7	1.0	42.8	3.6	2.1	0.4	60.0	3.9	21.2	1.2		
Ion Chromatography	mg/kg	1	19.4	0.0	19.4	21.4	1.5	0.5	50.2	0.00	18.1	0.0		
Other	mg/kg	9	22.5	2.3	43.7	4.9	1.5	0.5	58.1	4.3	20.0	2.4		
NH ₄ - N (KCl Extr.)	mg/kg	47	8.5	1.4	4.5	0.8	9.0	1.4	63.4	7.0	18.5	2.2		
Amino-N (Mulvaney)	mg/kg	5	247	7.0	77	0.5	286	18	265	12	241	9		
Phosphorus & Sulfur														
PO ₄ -P Bray P1 (1:10)	mg/kg	51	48.7	4.3	84.0	12.5	64.0	5.0	40.0	19.0	27.0	2.7		
PO ₄ -P Bray P1 (1:7)	mg/kg	13	33.3	4.0	82.5	20.4	52.5	8.6	65.5	27	23.0	4.5		
PO ₄ -P Olsen/Bicarb	mg/kg	59	36.4	3.1	115	11	38.0	3.0	166	23	14.0	2.1		
PO ₄ -P AB-DTPA	mg/kg	1	17.6	5.1	37.6	37.2	20.5	9.0	156	55	7.8	4.8		
PO ₄ -P M. Morgan	mg/kg	12	24.1	2.0	112	15	14.1	2.3	173	46	3.4	1.1		
PO ₄ -P M. Kewlona	mg/kg	3	43.5	1.9	142	12	47.5	1.4	243	29	20.0	1.0		
PO ₄ -P Strg Bray P-2	mg/kg	11	124	8.0	224	18.0	149	11.0	76.5	16.5	49.0	8.0		
PO ₄ -P Water Soluble	mg/kg	1	18.1	0.0	7.1	0.00	14.0	0.0	32.9	0.0	4.4	0.00		
SO ₄ -S (PO ₄ Extr.)	mg/kg	43	21.0	4.0	2285	731	10.0	3.8	26.7	6.4	5.9	2.2		
Ammonium Ace. Bases														
K	mg/kg	91	618	42	482	38	198	20	435	29	423	34		
Ca	mg/kg	83	4453	313	6552	627	2902	277	4043	706	2160	200		
Mg	mg/kg	84	1752	147	1413	114.3	484	41	720	68	352	30		
Na	mg/kg	69	83	11.0	3480	348.0	30	9.2	58	8.0	15.3	5.3		
K - Bray (1:10)	mg/kg	5	363	14	361	20	146	4.0	324	8.0	332	15.0		
K - Bicarb.	mg/kg	9	400	16	335	11	139	9	308	12	338	18		
K - Modified Morgan	mg/kg	8	300	250	260	97	107	73	260	22	272	35		
Ca Modified Morgan	mg/kg	5	4647	361	10743	10361	3068	206	28935	5310	2390	141		
Al KCl Extr.	mg/kg	8	0.44	0.56	0.44	0.56	0.10	0.65	0.16	0.43	0.31	0.55		

1 - Values flagged exceed Warning Limits " * " .2.5 x MAD (Median Absolute Deviation) and Control Limits " * * " 4 x MAD. "<" and "ND" values not recorded.

Soil	Soil 2004-101	Soil 2004-102	Soil 2004-103	Soil 2004-104	Soil 2004-105											
Analysis	Units	n	Median	MAD	Lab ¹	Median	MAD	Lab	Median	MAD	Lab	Median	MAD	Lab		
Mehlich-1 Multi Element																
Soil Scoop Mass	g	12	5.00	0.07		5.00	0.20		5.00	0.31		5.00	0.20		5.00	0.19
P	mg/kg	13	54.5	7.1		37.1	6.0		89.1	7.2		64.0	6.0		38.2	3.9
K	mg/kg	12	257	14.0		166	9.3		102	9		191	14		250	26
Ca	mg/kg	12	3096	281		3458	698		2677	212		5177	393		1672	123
Mg	mg/kg	12	1178	154		1014	123		416	28		560.0	42.2		270	22
Mn	mg/kg	10	36.0	1.9		2.5	0.5		20.5	1.06		1.9	0.40		47.8	2.9
Zn	mg/kg	11	0.87	0.10		0.11	0.06		4.00	0.27		0.13	0.08		0.96	0.08
Mehlich-3 Multi-Element																
Soil Scoop Mass	g	36	2.20	0.50		2.20	0.42		1.93	0.53		2.21	0.39		2.02	0.42
Scoop Volume	mL	20	1.18	0.04		1.18	0.07		1.18	0.07		1.18	0.07		1.18	0.07
P Colorimetric																
P	mg/kg	18	57.8	5.1		199	11.5		74.1	7.4		360	64.0		29.0	2.7
P ICP	mg/kg	34	60.7	4.2		207	16.0		76.5	6.8		391	27.1		33.0	3.6
K	mg/kg	46	639	46		491	30.7		207	19.7		468	32		433	26
Ca	mg/kg	45	4720	343		7470	746		3045	253		9025	1441		2270	164
Mg	mg/kg	45	1904	186		2105	206		496	31.9		914	70		351	20.4
Na	mg/kg	26	91.0	11.0		3381	825		29.2	11.2		68	11.3		15.0	4.9
S	mg/kg	23	29.0	3.5		4850	396		20.2	3.4		45.1	6.4		16.1	3.2
Al	mg/kg	20	514	38		116	81		690	70		58.4	22.0		796	104
Zn	mg/kg	34	2.76	0.36		15.2	1.6		6.1	0.70		21.1	1.67		1.57	0.23
Mn	mg/kg	32	145	13.4		121	11.1		44	4.8		49	7.8		96	11
Fe	mg/kg	29	124	16.5		172	17		179	22.6		51	6.3		125	14.3
Cu	mg/kg	32	5.2	0.52		5.1	0.47		2.45	0.28		11.4	1.11		1.00	0.16
B	mg/kg	27	2.30	0.20		7.53	0.82		1.02	0.12		2.11	0.26		0.69	0.11

1 - Values flagged exceed Warning Limits " * " 2.5 x MAD (Median Absolute Deviation) and Control Limits " * * " 4 x MAD. "<" and "ND" values not recorded.

Soil	Soil 2004-101	Soil 2004-102	Soil 2004-103	Soil 2004-104	Soil 2004-105											
Analysis	Units	n	Median	MAD	Lab¹	Median	MAD	Lab	Median	MAD	Lab					
Micronutrients																
Zn - DTPA	mg/kg	72	1.00	0.10		4.29	0.49		3.35	0.37		4.25	0.75		0.77	0.13
Mn - DTPA	mg/kg	66	34.0	3.05		7.6	1.20		20.7	3.2		2.9	1.0		55.6	5.5
Fe - DTPA	mg/kg	68	11.6	1.6		12.4	2.3		55.0	7.0		6.2	1.5		45.0	4.8
Cu - DTPA	mg/kg	67	2.03	0.18		2.60	0.29		0.90	0.16		5.50	0.89		0.60	0.11
Zn - HCl	mg/kg	6	2.7	0.70		2.0	8.10		5.3	0.65		11.2	10.80		1.50	0.20
Mn-H ₃ PO ₄	mg/kg	5	26.7	4.3		5.0	2.0		14.4	3.0		2.8	0.81		36.1	3.2
Cl - Ca(NO ₃) ₂ Extr.	mg/kg	22	7.7	2.1		661	91.2		13.8	6.1		55.8	9.8		5.8	1.6
B - Hot Water	mg/kg	49	1.08	0.28		3.22	0.78		0.86	0.26		1.04	0.31		0.68	0.16
B - DTPA-Sorb	mg/kg	13	1.10	0.18		5.20	0.51		0.30	0.10		1.04	0.17		0.21	0.10
Soil Organic Matter																
Soil Kjeldahl N	%	22	0.230	0.020		0.089	0.008		0.220	0.010		0.200	0.010		0.170	0.010
Soil TN (combustion)	%	34	0.253	0.010		0.090	0.010		0.229	0.009		0.205	0.014		0.171	0.009
Soil TOC (combustion)	%	25	3.00	0.11		1.54	0.09		2.79	0.10		4.51	0.58		1.80	0.09
SOM - Walkley-Black	%	47	4.20	0.42		1.58	0.17		4.54	0.36		2.99	0.23		3.09	0.21
SOM - LOI (Raw Values)	%	66	5.60	0.52		1.89	0.17		5.00	0.40		3.20	0.25		3.5	0.3
CaCO ₃ Content	%	13	1.31	1.08		5.70	1.10		0.30	0.35		24.66	2.53		0.34	0.23
CEC - Displacement	cmol/kg	34	43.3	5.9		17.1	2.5		24.3	2.95		17.6	2.4		19.6	2.80
- Estimation	cmol/kg	7	38.9	2.6		55.1	9.9		21.5	1.4		28.4	3.7		17.2	1.2
Scoop Density	mg/cm ³	7	1.30	0.07		1.31	0.16		1.21	0.14		1.34	0.12		1.20	0.11
Particle Size Analysis																
Sand 2000 - 50 um	%	43	12.5	3.5		31.2	3.0		26.6	3.4		36.7	2.7		19.1	4.4
Silt 50 - 2 um	%	43	40.0	4.0		42.0	5.0		46.0	4.0		34.9	3.1		57.0	4.2
Clay 2 - 0 um	%	43	46.8	4.3		27.0	6.0		28.0	3.0		28.0	3.6		25.6	2.6

1 - Values flagged exceed Warning Limits " * " 2.5 x MAD (Median Absolute Deviation) and Control Limits " * * " 4 x MAD. "-" and "ND" values not recorded.