

Soil Analysis	Units	n	Median	MAD	Lab ¹	Median	MAD	Lab	Median	MAD	Lab	Median	MAD	Lab
			Soil 2003-106		Soil 2003-107		Soil 2003-108		Soil 2003-109		Soil 2003-110			
Salinity -SP														
Sat. Paste Moisture	%	27	31.3	2.9		30.0	2.0		29.3	2.1		60.0	4.9	
pH - sp	Unit	32	5.82	0.18		5.78	0.12		5.30	0.10		8.81	0.14	
Ece - sp	ds/m	42	1.06	0.26		1.05	0.12		5.6	0.52		1.68	0.23	
HCO ₃ - sp	mmol/L	14	0.76	0.35		0.67	0.32		0.46	0.27		6.87	1.63	
Ca - sp	mmol/L	33	3.24	0.87		4.25	0.62		34.5	4.3		0.90	0.50	
Mg - sp	mmol/L	33	2.40	0.62		2.84	0.35		13.8	2.20		0.46	0.27	
Na - sp	mmol/L	32	0.60	0.33		0.60	0.30		1.9	0.4		16.7	3.9	
SAR - sp	value	26	0.28	0.10		0.30	0.14		0.38	0.08		17.6	6.7	
Cl - sp	mmol/L	18	0.57	0.12		1.10	0.17		13.2	2.1		6.10	1.23	
SO ₄ - sp	mmol/L	15	0.55	0.05		0.96	0.16		6.7	1.0		2.32	0.64	
NO ₃ - sp	mmol/L	9	7.03	1.77		6.84	1.15		34.3	8.11		0.60	0.19	
B - sp	mg/L	17	0.30	0.07		0.20	0.05		0.60	0.10		2.25	0.67	
Soil EC														
Soil EC (1:1)	(dS/m)	38	0.38	0.05		0.35	0.05		1.21	0.40		0.96	0.16	
Soil EC (1:2)	(dS/m)	44	0.22	0.04		0.22	0.03		1.05	0.21		0.78	0.13	
Soil pH														
pH (1:1)	Unit	92	6.10	0.10		6.03	0.07		5.50	0.08		9.36	0.13	
pH (1:2)	Unit	30	6.29	0.12		6.19	0.11		5.60	0.10		9.76	0.14	
pH (1:1) 0.01M CaCl ₂	Unit	19	5.60	0.10		5.56	0.06		5.34	0.04		8.56	0.15	
pH (1:2) 0.01M CaCl ₂	Unit	14	5.61	0.09		5.56	0.04		5.43	0.07		8.50	0.28	
Buffer pH														
SMP Buffer pH	Unit	70	7.01	0.08		7.00	0.05		6.70	0.10		7.60	0.09	
Adams-Evans Buf pH	Unit	11	7.60	0.04		7.58	0.06		7.52	0.07		7.89	0.04	
Woodruff Buf. pH	Unit	17	6.74	0.04		6.74	0.04		6.59	0.06		7.20	0.15	
Mehlich Buf. pH	Unit	5	6.25	0.05		6.24	0.05		6.11	0.05		7.14	0.16	
Titratable Acidity	cmol/kg	3	4.14	0.13		3.4	0.16		9.25	0.55		15.0	15.0	

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Soil	Soil 2003-106	Soil 2003-107	Soil 2003-108	Soil 2003-109	Soil 2003-110							
Analysis	Units	n	Median	MAD	Lab ¹	Median	MAD	Lab	Median	MAD	Lab	
Nitrate (NO₃-N)												
Cd. Rd.	mg/kg	58	34.9	4.7	30.1	2.4	189	20.3	7.5	1.0	32.0	2.8
ISE	mg/kg	23	33.2	6.0	29.3	1.9	181	21.1	14.0	5.9	30.8	3.4
CTA	mg/kg	7	39.0	6.8	27.4	1.4	146	40.5	8.9	1.0	31.8	3.2
Ion Chromatography	mg/kg	2	19.9	17.2	19.7	6.4	157	32.1	10.8	4.2	14.4	13.2
Other	mg/kg	8	42.0	8.3	34.2	4.9	189	13.6	8.0	1.6	35.0	5.2
NH ₄ - N (KCl Extr.)	mg/kg	46	1.4	0.9	5.7	1.0	27.0	4.6	4.5	1.1	10.1	1.5
Amino-N (Mulvaney)	mg/kg	5	124	8.0	99	4.3	181	8.3	66	3.3	154	5.5
Phosphorus & Sulfur												
PO ₄ -P Bray P1 (1:10)	mg/kg	49	55.8	3.8	73.9	5.2	180	22.8	3.0	1.7	38.1	2.9
PO ₄ -P Bray P1 (1:7)	mg/kg	14	48.2	6.7	62.0	7.8	164	12.8	2.3	1.5	33.0	3.5
PO ₄ -P Olsen/Bicarb	mg/kg	60	30.0	2.0	39.0	4.0	69.4	7.4	14.0	2.0	18.0	1.8
PO ₄ -P AB-DTPA	mg/kg	1	3.6	-	16.2	-	152	-	0.0	-	157	-
PO ₄ -P M. Morgan	mg/kg	10	10.2	1.1	12.2	2.8	12	3.3	20.4	4.1	6.6	0.9
PO ₄ -P M. Kewlona	mg/kg	4	45.5	4.0	51.2	1.0	137	5.1	29	5.1	30.0	1.0
PO ₄ -P Strg Bray P-2	mg/kg	12	106	10.0	107	7.5	218	34.4	3.7	2.2	53	6.0
PO ₄ -P Water Soluble	mg/kg	1	2.0	-	3.2	-	2.1	-	5.2	-	14.5	-
SO ₄ -S (PO ₄ Extr.)	mg/kg	43	4.0	2.0	6.0	1.7	62	11.5	19.7	6.5	5.0	2.0
Ammonium Ace. Bases												
K	mg/kg	93	1131	94	624	49	294	31	445	44	165	16
Ca	mg/kg	84	1409	92	1287	95	856	92	3666	596	922	93
Mg	mg/kg	85	469	42	403	25.0	122	13	624	90	279	26
Na	mg/kg	67	16	6.1	15	7.0	24	7.0	1758	197	17	9.2
K - Bray (1:10)	mg/kg	5	866	69	477	27	256	52	285	14.5	136	4.0
K - Bicarb.	mg/kg	9	914	34	447	19	280	8	301	10	176	11
K - Modified Morgan	mg/kg	6	996	155	555	183	288	20	390	98	162	9
Ca Modified Morgan	mg/kg	4	1366	29	1163	19	910	55	26230	2326	1185	102
Al KCL Extr.	mg/kg	7	0.77	1.23	1.00	0.82	1.26	0.38	0.40	0.50	0.85	0.70

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Soil	Soil 2003-106		Soil 2003-107		Soil 2003-108		Soil 2003-109		Soil 2003-110		
Analysis	Units	n	Median	MAD	Lab ¹	Median	MAD	Lab	Median	MAD	Lab
Mehlich-1 Multi Element											
Soil Scoop Mass	g	10	5.00	0.20		5.00	0.06		5.00	0.36	
P	mg/kg	10	75.8	9.4		55	3.3		89.9	9.1	
K	mg/kg	10	652	63.2		362	26.2		258	21	
Ca	mg/kg	10	1010	78		936	100		987	125	
Mg	mg/kg	10	321	30		294	30		121	15	
Mn	mg/kg	10	25.8	1.7		13.5	1.4		321	40.5	
Zn	mg/kg	10	0.63	0.10		0.99	0.15		3.99	0.37	
Mehlich-3 Multi-Element											
Soil Scoop Mass	g	36	2.08	0.38		2.29	0.54		2.00	0.46	
Scoop Volume	mL	19	1.18	0.07		1.18	0.15		1.04	0.14	
P Colorimetric	mg/kg	22	53.5	3.0		72.8	4.8		182	27.5	
P ICP	mg/kg	36	59.9	5.1		80.0	7.3		199	13.3	
K	mg/kg	49	1156	109		651	51.1		298	32.0	
Ca	mg/kg	47	1439	110		1431	113		907	119	
Mg	mg/kg	47	485	34		439	36.6		133	15.2	
Na	mg/kg	29	17	6.1		15	4.6		23	5.4	
S	mg/kg	23	11.0	3.0		12.9	3.5		80	13	
Al	mg/kg	20	572	65		630	65		1244	76	
Zn	mg/kg	37	0.89	0.14		1.53	0.24		4.5	0.38	
Mn	mg/kg	36	103	23.0		90.1	8.1		476	52.8	
Fe	mg/kg	33	74	11.8		81	13		220	27.9	
Cu	mg/kg	35	1.17	0.18		1.49	0.18		10.3	1.03	
B	mg/kg	29	0.74	0.10		0.65	0.08		0.83	0.16	

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Soil	Soil 2003-106	Soil 2003-107	Soil 2003-108	Soil 2003-109	Soil 2003-110							
Analysis	Units	n	Median	MAD	Lab	Median	MAD	Lab	Median	MAD	Lab	
Micronutrients												
Zn - DTPA	mg/kg	74	0.33	0.07	0.60	0.10	1.68	0.30	0.50	0.09	2.61	0.31
Mn - DTPA	mg/kg	63	29.3	4.1	18.0	2.3	185	41.1	8.0	1.4	35.7	8.6
Fe - DTPA	mg/kg	68	15.2	2.2	19.5	2.87	24.8	4.90	3.2	0.8	30.7	5.7
Cu - DTPA	mg/kg	65	0.60	0.10	0.90	0.11	4.12	0.72	0.99	0.12	0.52	0.08
Zn - HCl	mg/kg	6	1.05	0.12	1.83	0.38	4.9	0.18	0.6	0.42	5.83	0.35
Mn-H ₃ PO ₄	mg/kg	7	18.0	1.0	11.0	0.7	328	14.6	3.0	0.60	39.9	4.9
Cl - Ca(NO ₃) ₂ Extr.	mg/kg	23	5.6	1.6	11.3	1.9	149	18	93.0	14.1	3.7	1.0
B - Hot Water	mg/kg	48	0.83	0.23	0.66	0.16	0.90	0.19	4.18	1.18	0.43	0.13
B - DTPA-Sorb	mg/kg	12	0.33	0.03	0.30	0.07	0.37	0.03	6.79	0.67	0.20	0.08
Soil Organic Matter												
Soil Kjeldahl N	%	19	0.106	0.007	0.080	0.006	0.140	0.010	0.064	0.004	0.100	0.003
Soil TN (combustion)	%	32	0.110	0.015	0.080	0.013	0.140	0.013	0.061	0.013	0.104	0.016
Soil TOC (combustion)	%	24	0.99	0.05	0.70	0.03	1.19	0.06	2.40	1.53	0.93	0.05
SOM - Walkley-Black	%	54	1.70	0.17	1.30	0.11	1.93	0.21	1.07	0.13	1.60	0.21
SOM - LOI (Raw Values)	%	64	2.29	0.23	1.60	0.17	3.30	0.20	1.40	0.20	1.99	0.16
CaCO ₃ Content	%	12	0.35	0.18	0.29	0.15	0.24	0.16	27.2	4.1	0.50	0.30
CEC - Displacement												
- Estimation	cmol/kg	10	15.1	1.3	12.4	1.6	9.3	1.6	32.1	16.0	8.0	0.6
Scoop Density	mg/cm ³	9	1.22	0.05	1.38	0.13	1.13	0.10	1.06	0.05	1.08	0.04
Particle Size Analysis												
Sand 2000 - 50 um	%	44	29.7	4.7	63.0	3.0	37.5	2.8	15.4	2.8	13.6	3.9
Silt 50 - 2 um	%	44	45.1	3.9	15.0	2.0	45.0	5.0	48.8	2.8	70.8	5.0
Clay 2 - 0 um	%	44	24.0	4.0	20.1	2.1	17.5	3.5	35.0	4.0	15.4	2.6

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