

Soil	Soil 2002-106	Soil 2002-107	Soil 2002-108	Soil 2002-109	Soil 2002-110							
Analysis	Units	n	Median	MAD	Lab ¹	Median	MAD	Lab	Median	MAD	Lab	
Salinity -SP												
Sat. Paste Moisture	%	34	38.1	3.8	23.1	1.8	42.6	2.6	46.7	3.1	37.4	2.8
pH - sp	Unit	46	6.50	0.14	6.10	0.20	7.70	0.13	7.65	0.15	5.35	0.21
Ece - sp	ds/m	45	0.69	0.10	0.52	0.08	0.52	0.05	0.44	0.04	0.71	0.13
HCO ₃ - sp	mmol/L	19	2.34	0.58	0.79	0.38	3.32	0.58	3.53	0.56	0.92	0.59
Ca - sp	mmol/L	36	3.17	0.54	1.35	0.23	2.99	0.23	4.20	0.43	3.14	0.88
Mg - sp	mmol/L	36	1.19	0.26	0.60	0.09	1.79	0.15	0.41	0.08	1.20	0.30
Na - sp	mmol/L	37	0.91	0.37	0.42	0.24	0.66	0.19	0.42	0.27	0.43	0.22
SAR - sp	value	32	0.57	0.24	0.42	0.23	0.38	0.11	0.20	0.12	0.30	0.11
Cl - sp	mmol/L	27	1.57	0.29	0.35	0.17	0.28	0.12	0.33	0.09	1.09	0.23
SO ₄ - sp	mmol/L	27	2.10	0.40	0.49	0.09	0.60	0.09	0.43	0.08	0.55	0.10
NO ₃ - sp	mmol/L	8	0.12	0.08	2.50	0.80	0.51	0.49	0.76	0.12	2.52	1.22
B - sp	mg/L	20	0.15	0.05	0.06	0.02	0.08	0.02	0.08	0.02	0.06	0.04
Soil EC												
Soil EC (1:1)	(dS/m)	32	0.36	0.04	0.12	0.05	0.33	0.03	0.47	0.04	0.25	0.08
Soil EC (1:2)	(dS/m)	49	0.19	0.03	0.10	0.03	0.21	0.03	0.20	0.05	0.18	0.03
Soil pH												
pH (1:1)	Unit	93	6.75	0.04	6.30	0.05	8.05	0.08	8.16	0.12	5.54	0.12
pH (1:2)	Unit	34	6.90	0.03	6.50	0.05	8.14	0.15	8.27	0.23	5.64	0.24
pH (1:1) 0.01M CaCl ₂	Unit	19	6.23	0.07	5.55	0.23	7.52	0.14	7.70	0.06	5.00	0.20
pH (1:2) 0.01M CaCl ₂	Unit	16	6.20	0.10	5.60	0.20	7.52	0.09	7.64	0.09	5.00	0.10
Buffer pH												
SMP Buffer pH	Unit	62	7.15	0.06	7.32	0.08	7.47	0.04	7.50	0.05	6.40	0.10
Adams-Evans Buf pH	Unit	14	7.68	0.03	7.92	0.03	7.87	0.03	7.80	0.04	7.40	0.07
Woodruff Buf. pH	Unit	12	6.87	0.07	6.90	0.06	7.05	0.05	7.04	0.04	6.39	0.11
Mehlich Buf. pH	Unit	4	6.38	0.03	6.49	0.02	6.78	0.03	6.72	0.01	5.99	0.06

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 Analysis	Units	n	Median	MAD	Lab ¹	Median	MAD	Lab	Median	MAD	Lab	Median	MAD	Lab
			Soil 2002-106		Soil 2002-107		Soil 2002-108		Soil 2002-109		Soil 2002-110			
Nitrate (NO₃-N)														
Cd. Rd.	mg/kg	61	6.4	0.5		11.1	1.6		9.4	0.6		6.2	0.7	
ISE	mg/kg	24	6.4	0.5		12.8	1.7		11.5	2.9		9.0	2.9	
CTA	mg/kg	6	6.9	0.7		10.7	0.6		9.5	0.6		6.5	0.7	
Ion Chromatography	mg/kg	5	6.5	0.8		11.1	1.1		9.7	0.6		6.7	1.06	
Other	mg/kg	13	6.3	0.7		12.6	2.5		8.6	0.9		6.3	1.4	
NH ₄ - N (KCl Extr.)	mg/kg	62	7.9	1.2		17.2	3.1		2.6	0.8		6.0	1.1	
Phosphorus & Sulfur														
PO ₄ -P Bray P1 (1:10)	mg/kg	47	61.0	5.0		19.8	2.8		2.0	1.0		3.3	1.8	
PO ₄ -P Bray P1 (1:7)	mg/kg	13	53.2	3.2		13.0	4.0		2.0	0.5		4.0	1.0	
PO ₄ -P Olsen/Bicarb	mg/kg	66	30.0	2.0		7.0	1.7		10.8	1.3		8.2	1.5	
PO ₄ -P AB-DTPA	mg/kg	3	16.8	8.0		10.8	0.9		7.1	1.0		4.5	0.6	
PO ₄ -P M. Morgan	mg/kg	13	33.0	3.0		3.0	1.3		6.0	2.3		7.4	2.6	
PO ₄ -P M. Kewlona	mg/kg	5	45.9	0.50		11.0	0.3		10.0	2.4		10.0	2.0	
PO ₄ -P Strg Bray P-2	mg/kg	13	204	30.2		21.0	3.0		24.0	5.0		26.0	6.0	
PO ₄ -P Water Soluble	mg/kg	3	1.0	0.0		0.20	0.07		1.2	1.1		1.2	1.1	
SO ₄ -S (PO ₄ Extr.)	mg/kg	45	10.5	2.3		3.8	1.7		6.0	2.6		5.6	2.2	
Ammonium Ace. Bases														
K	mg/kg	89	1090	41		55.0	11		184	13		119	10	
Ca	mg/kg	86	2252	130		166	43		4600	654		7902	635	
Mg	mg/kg	87	372	23		27.2	8.2		642	47		247	22	
Na	mg/kg	70	27	5.4		9.0	5.5		26.0	5.9		15	5.7	
K - Bray (1:10)	mg/kg	4	755	24		66	6.9		123	15		77	8.5	
K - Bicarb.	mg/kg	9	867	5.2		54	11		168	6.0		89	15	
K Modified Morgan	mg/kg	9	978	246		59	20		174	24		108	47	
Ca Modified Morgan	mg/kg	4	2856	524		278	100		23650	1990		34550	17484	
Al KCL Extr.	mg/kg	9	0.69	0.53		0.50	0.21		0.46	1.44		0.71	0.29	

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Soil	Soil 2002-106	Soil 2002-107	Soil 2002-108	Soil 2002-109	Soil 2002-110							
Analysis	Units	n	Median	MAD	Lab ¹	Median	MAD	Lab	Median	MAD	Lab	
Mehlich-1 Multi Element												
Soil Scoop Mass	g	12	5.00	0.42	6.28	1.20	4.90	0.37	5.45	0.45	4.70	0.54
P	mg/kg	12	200	35.0	7.0	0.9	1.7	0.22	1.6	0.34	14.9	3.4
K	mg/kg	12	644	83.8	43	5.1	86	14.4	42	5.3	182	12
Ca	mg/kg	12	2018	10.0	138	14	5313	798	5760	992	1103	164
Mg	mg/kg	12	317	27	26.0	6.6	574	67	135	12.2	109	8.7
Zn	mg/kg	12	0.86	0.13	0.47	0.09	0.10	0.08	0.08	0.07	5.23	0.48
Mehlich-3 Multi-Element												
Soil Scoop Mass	g	41	2.04	0.29	2.67	0.81	2.00	0.50	2.38	0.88	1.83	0.46
Scoop Volume	mL	19	1.18	0.18	1.18	0.18	1.18	0.17	1.18	0.17	1.18	0.14
P Colorimetric												
P	mg/kg	18	83.0	8.0	17.0	1.0	15.7	1.0	18.1	1.1	32.0	1.9
P ICP	mg/kg	37	95.0	8.0	22.0	3.1	17.0	1.8	19.0	2.0	61.2	6.5
K	mg/kg	49	1132	82	64	6.1	191	16.5	125	12	217	25
Ca	mg/kg	49	2450	186	212	52	7230	661	10740	1064	1090	119
Mg	mg/kg	49	420	24	37	9.3	786	54.3	293	22	120	9.2
Na	mg/kg	29	29	6.6	11	4.2	27	6.0	18	6.5	13	5.6
S	mg/kg	26	17.2	4.0	6.0	2.1	22.7	5.1	14.5	5.6	20.4	3.5
Al	mg/kg	22	467	34	218	21	121	31	147	37	961	70
Zn	mg/kg	39	1.50	0.30	0.87	0.17	1.40	0.20	0.70	0.20	6.03	0.72
Mn	mg/kg	38	166	15	21.0	4.0	80.0	10	20.0	2.0	159	13
Fe	mg/kg	35	66	8.3	72	13	50	5.9	35	3.4	210	28
Cu	mg/kg	37	1.75	0.24	0.32	0.08	2.08	0.22	0.83	0.17	1.09	0.19
B	mg/kg	34	1.00	0.30	0.20	0.09	1.27	0.24	0.76	0.16	0.43	0.13

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Soil	Soil 2002-106	Soil 2002-107	Soil 2002-108	Soil 2002-109	Soil 2002-110							
Analysis	Units	n	Median	MAD	Lab ¹	Median	MAD	Lab	Median	MAD	Lab	
Micronutrients												
Zn - DTPA	mg/kg	76	0.41	0.06	0.25	0.05	0.54	0.06	0.22	0.05	4.06	0.40
Mn - DTPA	mg/kg	71	11.0	2.20	9.2	1.6	5.7	1.2	5.8	0.7	97.4	10.9
Fe - DTPA	mg/kg	74	10.0	1.1	14.9	3.2	10.3	0.9	4.5	0.50	74.6	11.2
Cu - DTPA	mg/kg	74	0.90	0.10	0.16	0.05	0.98	0.10	0.32	0.06	0.50	0.11
Zn - HCl	mg/kg	6	1.69	0.08	0.52	0.12	0.28	0.13	0.3	0.1	6.70	0.61
Mn-H ₃ PO ₄	mg/kg	8	13.2	4.0	10.7	0.9	1.1	0.3	4.5	1.15	119	14.2
Cl - Ca(NO ₃) ₂ Extr.	mg/kg	25	18.0	1.2	3.5	0.8	3.3	1.1	4.5	1.0	11.9	1.9
B - Hot Water	mg/kg	54	0.84	0.10	0.20	0.80	0.53	0.13	0.48	0.14	0.42	0.12
B - DTPA-Sorb	mg/kg	13	0.54	0.10	0.10	0.09	0.66	0.12	0.50	0.10	0.35	0.20
Soil Organic Matter												
Soil Kjeldahl N	%	26	0.133	0.009	0.027	0.003	0.096	0.004	0.047	0.006	0.220	0.020
Soil TN (combustion)	%	34	0.132	0.012	0.023	0.009	0.094	0.014	0.045	0.012	0.214	0.014
Soil TOC (combustion)	%	25	1.36	0.04	0.29	0.02	1.96	0.64	1.37	0.83	2.72	0.06
SOM - Walkley-Black	%	55	2.37	0.17	0.55	0.15	1.66	0.22	0.80	0.19	4.41	0.46
SOM - LOI (Raw Values)	%	70	2.82	0.22	0.60	0.07	2.20	0.20	2.01	0.32	5.10	0.30
CaCO ₃ Content	%	19	0.70	0.30	0.10	0.09	13.0	1.2	15.6	0.92	0.30	0.41
Soil CEC	mmol/kg	36	18.8	0.7	1.35	0.44	16.1	2.31	30.7	2.8	12.7	2.00
Scoop Density	mg/cm ³	10	1.22	0.09	1.58	0.07	1.15	0.03	1.40	0.05	1.15	0.05
Particle Size Analysis												
Sand 2000 - 50 um	%	53	38.0	4.0	85.0	2.2	38.8	1.2	47.0	4.0	42.0	4.0
Silt 50 - 2 um	%	53	37.0	3.0	10.4	1.6	38.0	3.0	24.2	3.2	48.0	3.2
Clay 2 - 0 um	%	53	25.9	2.8	4.5	1.7	22.0	3.0	29.1	4.1	10.0	2.5

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