

Soil	Soil 2003-116				Soil 2003-117				Soil 2003-118				Soil 2003-119				Soil 2003-120			
Analysis	Units	<i>n</i>	Median	<i>MAD</i>	Lab ¹	Median	<i>MAD</i>	Lab	Median	<i>MAD</i>	Lab	Median	<i>MAD</i>	Lab	Median	<i>MAD</i>	Lab			
Salinity-SP																				
Sat. Paste Moisture	%	28	28.3	1.3		37.0	2.9		36.7	2.7		19.9	0.9		32.7	3.4				
pH - sp	Unit	35	5.80	0.20		5.60	0.10		5.90	0.16		6.23	0.13		5.68	0.08				
Ece - sp	dS/m	38	0.40	0.05		0.86	0.09		0.20	0.03		0.40	0.05		1.19	0.10				
HCO ₃ - sp	mmol/L	14	1.06	0.30		0.60	0.37		0.57	0.22		0.76	0.28		0.55	0.27				
Ca - sp	mmol/L	30	2.24	0.29		4.84	0.41		1.0	0.23		1.60	0.20		3.83	0.70				
Mg - sp	mmol/L	30	0.60	0.10		1.58	0.23		0.5	0.10		1.17	0.13		2.83	0.56				
Na - sp	mmol/L	31	0.68	0.25		0.75	0.26		0.44	0.23		0.55	0.19		0.55	0.24				
SAR - sp	value	23	0.50	0.20		0.40	0.15		0.51	0.30		0.40	0.15		0.30	0.10				
Cl - sp	mmol/L	19	0.43	0.12		0.75	0.15		0.42	0.13		0.59	0.11		0.45	0.09				
SO ₄ - sp	mmol/L	18	1.76	0.15		0.88	0.22		0.73	0.10		0.78	0.13		0.44	0.07				
NO ₃ - sp	mmol/L	11	0.42	0.36		5.08	1.47		0.04	0.03		0.97	0.73		6.74	4.32				
B - sp	mg/L	13	0.05	0.01		0.12	0.02		0.07	0.01		0.06	0.01		0.23	0.03				
Soil EC																				
Soil EC (1:1)	(dS/m)	35	0.13	0.03		0.29	0.11		0.08	0.02		0.11	0.03		0.44	0.06				
Soil EC (1:2)	(dS/m)	47	0.09	0.03		0.19	0.04		0.05	0.03		0.08	0.03		0.25	0.03				
Soil pH																				
pH (1:1)	Unit	86	5.85	0.07		5.80	0.09		6.19	0.11		6.43	0.08		6.00	0.07				
pH (1:2)	Unit	31	5.98	0.12		5.91	0.10		6.30	0.14		6.54	0.10		6.11	0.09				
pH (1:1) 0.01M CaCl ₂	Unit	18	5.28	0.13		5.28	0.04		5.41	0.07		5.76	0.05		5.58	0.08				
pH (1:2) 0.01M CaCl ₂	Unit	14	5.30	0.06		5.40	0.01		5.50	0.07		5.80	0.07		5.64	0.07				
Buffer pH																				
SMP Buffer pH	Unit	69	7.08	0.08		6.69	0.11		6.99	0.09		7.06	0.06		7.02	0.08				
Adams-Evans Buf pH	Unit	15	7.77	0.03		7.58	0.06		7.70	0.04		7.78	0.05		7.65	0.04				
Woodruff Buf. pH	Unit	19	6.78	0.05		6.63	0.14		6.79	0.07		6.80	0.05		6.78	0.06				
Mehlich Buf. pH	Unit	5	6.32	0.05		5.91	0.05		6.21	0.05		6.34	0.05		6.18	0.05				
Titratable Acidity	cmol/kg	1	3.2	-		11.6	-		6.56	-		0.0	-		5.01	-				

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Analysis	Units	n	Median	MAD	Lab ¹	Median	MAD	Lab	Median	MAD	Lab	Median	MAD	Lab	Median	MAD	Lab			
Nitrate (NO ₃ -N)																				
Cd. Rd.	mg/kg	50	5.2	1.0		29.5	5.4		1.0	1.0		7.3	1.0		42.5	2.6				
ISE	mg/kg	25	5.5	1.0		24.0	5.2		1.8	1.0		7.0	1.0		40.0	3.9				
CTA	mg/kg	7	5.1	1.0		28.0	5.0		1.1	1.0		7.0	1.0		43.0	3.0				
Ion Chromatography	mg/kg	2	4.0	1.0		29.8	5.0		0.9	1.5		5.0	1.0		39.3	3.0				
Other	mg/kg	10	4.5	0.4		29.7	4.6		0.6	0.4		6.0	0.6		41.5	6.5				
NH ₄ - N (KCl Extr.)	mg/kg	46	5.6	0.9		32.3	12.3		5.4	1.0		2.1	0.6		1.0	0.7				
Amino-N (Mulvaney)	mg/kg	5	77	13.0		246	12		185	10.0		77	3.0		124	18.0				
Phosphorus & Sulfur																				
PO ₄ -P Bray P1 (1:10)	mg/kg	50	16.6	1.7		48.1	5.7		7.5	2.0		201	28		56.6	6.4				
PO ₄ -P Bray P1 (1:7)	mg/kg	12	14.4	2.5		42.5	8.3		7.0	1.0		166	21		47.0	6.2				
PO ₄ -P Olsen/Bicarb	mg/kg	57	8.0	1.3		24.0	3.0		4.0	1.0		44.6	6.5		29.7	2.7				
PO ₄ -P AB-DTPA	mg/kg	2	7.6	6.4		11.1	5.8		3.7	0.0		47.4	27.1		14	5.8				
PO ₄ -P M. Morgan	mg/kg	8	2.1	0.5		5.1	0.6		1.0	0.4		11.0	2.0		10.3	1.7				
PO ₄ -P M. Kewlona	mg/kg	2	10.2	0.2		37.3	1.3		3.8	0.6		157	6.5		43.9	0.9				
PO ₄ -P Strg Bray P-2	mg/kg	8	25	1.3		90	14.5		10	1.6		240	24		101	6.3				
PO ₄ -P Water Soluble	mg/kg	1	1.2	-		3.1	-		1.2	-		8.9	-		14.4	-				
SO ₄ -S (PO ₄ Extr.)	mg/kg	37	9.0	2.1		6.0	2.1		4.5	1.5		4.9	1.3		4.8	1.2				
Ammonium Ace. Bases																				
K	mg/kg	89	80	8		290	36		94	15		122	13		1100	98				
Ca	mg/kg	80	482	61		2074	329		1108	134		419	57		1400	120				
Mg	mg/kg	81	53	9		231	33.6		254	32		95	11		477	38				
Na	mg/kg	63	15	6.0		19	5.0		14	4.7		12	5.1		14	4.8				
K - Bray (1:10)	mg/kg	3	94	23		209	1.3		89	8.3		139	18.0		828	49.0				
K- Bicarb.	mg/kg	8	85	6		306	15		85	8.0		115	11		830	53				
K - Modified Morgan	mg/kg	7	68	4		285	35		90	12		100	3		843	172				
Ca Modified Morgan	mg/kg	3	461	23		2571	126		1254	21		371	10		1403	113				
Al KCL Extr.	mg/kg	8	1.00	0.36		0.73	0.43		0.61	0.39		0.54	0.41		1.08	0.90				

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Mehlich-1 Multi Element																				
Soil Scoop Mass	g	10	5.00	0.02		5.00	0.32		5.00	0.24		5.00	0.37		5.00	0.04				
P	mg/kg	11	12.4	1.3		42	6.8		4.0	0.26		93.2	6.2		79.0	12.4				
K	mg/kg	10	60	2.0		213	16.8		60	9.0		99	8.0		622	58				
Ca	mg/kg	10	414	30		2160	364		936	131		393	38		987	97				
Mg	mg/kg	10	41	3		212	23		216	25		85	10.7		320	33				
Mn	mg/kg	10	63.4	5.9		22.3	3.1		98.1	16.1		14.2	1.6		16.0	1.6				
Zn	mg/kg	10	0.75	0.10		4.34	0.45		3.07	0.35		1.69	0.25		0.44	0.11				
Mehlich-3 Multi-Element																				
Soil Scoop Mass	g	33	2.25	0.64		1.79	0.41		1.83	0.47		2.50	0.59		2.04	0.45				
Scoop Volume	mL	17	1.18	0.02		1.18	0.07		1.18	0.07		1.18	0.07		1.18	0.07				
P Colorimetric	mg/kg	16	16.7	1.8		49.7	3.4		8.0	1.5		209	41		54.6	3.5				
P ICP	mg/kg	37	21.0	1.5		65.0	6.0		11.0	1.1		236	20		59.0	6.0				
K	mg/kg	48	88	8.0		296	28		96	9.2		144	12		1147	90				
Ca	mg/kg	45	538	71		2280	236		1086	91		532	52		1458	108				
Mg	mg/kg	45	55	8.9		237	27		249	22		115	10		507	37				
Na	mg/kg	26	15	4.8		20	3.9		15	4.9		14	4.9		16	5.0				
S	mg/kg	23	18.4	2.3		15.5	3.7		13.5	2.5		13.4	2.6		9.1	3.0				
Al	mg/kg	22	518	52		685	77		660	72		976	132		556	83				
Zn	mg/kg	36	1.07	0.16		6.32	0.74		4.1	0.35		2.95	0.41		0.91	0.18				
Mn	mg/kg	34	235	27.9		36.5	4.1		165	21.9		48	6.3		83	16				
Fe	mg/kg	32	108	11.3		247	34		149	18.7		226	38.0		74	11.7				
Cu	mg/kg	32	0.70	0.11		1.05	0.15		1.3	0.16		5.79	0.62		1.19	0.19				
B	mg/kg	29	0.23	0.07		0.50	0.20		0.45	0.15		0.30	0.13		0.80	0.16				

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Micronutrients																				
Zn - DTPA	mg/kg	65	0.47	0.07		3.55	0.61		2.37	0.37		0.85	0.15		0.30	0.10				
Mn - DTPA	mg/kg	54	49.3	3.8		15.3	3.0		103	16.8		6.5	1.1		20.0	3.7				
Fe - DTPA	mg/kg	57	19.5	2.9		67.2	14.2		34.8	5.25		15.3	4.3		14.9	3.1				
Cu - DTPA	mg/kg	56	0.38	0.05		0.31	0.09		0.60	0.10		2.06	0.30		0.50	0.10				
Zn - HCl	mg/kg	7	1.02	0.15		7.00	0.50		4.5	0.49		3.15	0.85		1.40	0.44				
Mn-H₃PO₄	mg/kg	8	55.1	5.4		17.9	1.3		91.4	5.3		16.4	1.61		15.8	1.3				
Cl - Ca(NO₃)₂ Extr.	mg/kg	17	4.4	1.4		7.6	1.2		4.1	1.1		3.7	1.0		5.1	1.1				
B - Hot Water	mg/kg	47	0.20	0.10		0.54	0.17		0.40	0.13		0.20	0.10		0.90	0.25				
B - DTPA-Sorb	mg/kg	11	0.20	0.10		0.21	0.11		0.14	0.09		0.12	0.09		0.30	0.10				
Soil Organic Matter																				
Soil Kjeldahl N	%	19	0.055	0.005		0.186	0.013		0.122	0.005		0.050	0.005		0.104	0.006				
Soil TN (combustion)	%	31	0.050	0.010		0.200	0.010		0.123	0.012		0.050	0.007		0.107	0.013				
Soil TOC (combustion)	%	24	0.56	0.05		3.19	0.11		1.11	0.05		0.60	0.05		0.95	0.05				
SOM - Walkley-Black	%	49	1.14	0.16		5.21	0.44		1.90	0.18		1.16	0.21		1.64	0.14				
SOM - LOI (Raw Values)	%	71	1.20	0.10		5.90	0.33		2.46	0.19		1.20	0.10		2.25	0.15				
CaCO3 Content	%	13	0.30	0.11		0.61	0.39		0.40	0.32		0.20	0.12		0.50	0.35				
CEC - Displacement	cmol/kg	25	4.5	1.0		19.9	1.5		11.3	1.0		4.1	1.0		15.9	1.5				
- Estimation	cmol/kg	10	4.8	0.95		17.6	2.52		9.0	1.0		4.5	1.6		16.3	1.7				
Scoop Density	mg/cm³	9	1.36	0.07		1.10	0.06		1.08	0.06		1.57	0.03		1.30	0.08				
Particle Size Analysis																				
Sand 2000 - 50 um	%	40	34.5	3.5		24.9	3.5		10.5	2.1		74.0	1.7		31.4	4.6				
Silt 50 - 2 um	%	40	54.7	3.3		49.7	4.3		66.0	4.0		19.0	1.0		46.3	3.7				
Clay 2 - 0 um	%	40	10.0	1.9		25.4	2.4		22.3	3.5		7.0	1.8		23.0	3.0				

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