

MAGRUDER - Fertilizer Check Sample No. - 200507

- Pass 1 Results for 74 Labs - - Pass 2 Results for 73 Labs -

Method	AOAC Ref.	Method Code	No. of Labs	Grand Avq.	Std. Dev.	Average Range of Dups	No. of Labs	Grand Avq.	Std. Dev.	Average Range of Dups
Ammoniacal Nitrogen, MgO Distillation .	920.03	001.10	4	9.45	0.13	0.02	4	9.45	0.13	0.02
Ammoniacal Nitrogen, Other		001.99	5	9.62	0.06	0.05	5	9.62	0.06	0.05
Method Group 001.XX PCT			9	9.55	0.13	0.04	9	9.55	0.13	0.04
Nitrate Nitrogen, Other		002.99	1	0.03	0.00	0.00	1	0.03	0.00	0.00
Water Insoluble Nitrogen, Other		003.99	1	0.22	0.00	0.00	1	0.22	0.00	0.00
Nitrogen From Urea, Other		005.99	3	2.79	0.77	0.05	3	2.79	0.77	0.05
Percent Urea, Urease (as Urea)	959.03	007.00	1	1.75	0.00	0.00	1	1.75	0.00	0.00
Ammon & Nitrate N, Devarda	892.01	009.10	3	10.30	1.01	0.11	3	10.30	1.01	0.11
Total Nitrogen, Modified Comprehensive	978.02	010.11	6	12.49	0.13	0.03	6	12.49	0.13	0.03
Total Nitrogen, Salicylic	955.04D	010.12	2	12.37	0.05	0.04	2	12.37	0.05	0.04
Total Nitrogen, Combustion		010.60	49	12.54	0.15	0.09	47	12.53	0.15	0.07
Total Nitrogen, Other		010.99	4	12.41	0.15	0.11	4	12.41	0.15	0.11
Method Group 010.XX PCT			62	12.51	0.17	0.08	59	12.51	0.16	0.06
Total Phosphate, Grav Quimociac	962.02	020.10	1	0.96	0.04	0.06	1	0.96	0.04	0.06
Total Phosphate, Spectrometric	958.01	020.20	4	0.56	0.11	0.02	4	0.56	0.11	0.02
Total Phosphate, Automated	978.01	020.40	1	0.69	0.01	0.01	1	0.69	0.01	0.01
Total Phosphate, ICP		020.50	4	0.50	0.13	0.02	4	0.50	0.13	0.02
Method Group 020.XX PCT			10	0.59	0.17	0.03	10	0.59	0.17	0.03
Insoluble Phosphate, Grav Quimociac ...	963.03C	030.10	1	0.02	0.00	0.00	1	0.02	0.00	0.00
Insoluble Phosphate, Other		030.99	1	0.06	0.01	0.02	1	0.06	0.01	0.02
Method Group 030.XX PCT			2	0.04	0.02	0.01	2	0.04	0.02	0.01
InDir Available Phosphate, Grav Quim ..	960.02	040.10	1	0.94	0.04	0.06	1	0.94	0.04	0.06
InDir Available Phosphate, Spectrometri	960.02	040.20	1	0.58	0.01	0.02	1	0.58	0.01	0.02
InDir Available Phosphate, ICP		040.50	1	0.52	0.01	0.01	1	0.52	0.01	0.01
Method Group 040.XX PCT			3	0.68	0.21	0.03	3	0.68	0.21	0.03
Dir Available Phosphate, Grav Quimociac	960.03E	041.10	4	0.50	0.24	0.04	3	0.44	0.24	0.01
Dir Available Phosphate, ICP		041.50	3	0.61	0.04	0.05	3	0.61	0.04	0.05
Dir Available Phosphate, EDTA Extract .	993.01	041.60	3	0.64	0.02	0.03	3	0.64	0.02	0.03
Method Group 041.XX PCT			10	0.57	0.16	0.04	10	0.57	0.16	0.04
Soluble Potash, STPB Oxalate	958.02	050.00	16	17.62	0.16	0.09	15	17.63	0.14	0.07
Soluble Potash, STPB Citrate	969.04	050.10	1	18.26	0.01	0.02	1	18.26	0.01	0.02
Soluble Potash, AA (Oxalate)		050.30	10	17.65	0.66	0.27	9	17.65	0.66	0.14
Soluble Potash, AA (Citrate)		050.31	1	17.59	0.03	0.04	1	17.59	0.03	0.04
Soluble Potash, ICP (Oxalate)		050.50	6	17.52	0.70	0.23	7	17.27	0.91	0.21
Soluble Potash, ICP (Citrate)		050.51	8	17.45	0.39	0.15	8	17.45	0.39	0.15
Soluble Potash, Flame (Oxalate)	983.02(a)	050.60	7	18.10	0.40	0.18	7	18.10	0.40	0.18
Soluble Potash, Flame (Citrate)	983.02(b)	050.61	6	17.80	0.29	0.10	6	17.80	0.29	0.10
Soluble Potash, Other		050.99	15	17.70	0.44	0.18	15	17.70	0.44	0.18
Method Group 050.XX PCT			70	17.69	0.47	0.16	68	17.68	0.46	0.14

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Method	AOAC Ref.	Method Code	No. of Labs	Grand Avq.	Std. Dev.	Average Range of Dups	No. of Labs	Grand Avq.	Std. Dev.	Average Range of Dups
Free Water, Vacuum Oven	965.08B	060.00	5	0.80	0.10	0.08	4	0.80	0.08	0.02
Acid Soluble Calcium, AA	945.04	101.00	1	0.22	0.00	0.01	1	0.22	0.00	0.01
Acid Soluble Calcium, ICP		101.30	10	0.24	0.01	0.01	10	0.24	0.01	0.01
Acid Soluble Calcium, Other		101.99	1	0.26	0.00	0.01	1	0.26	0.00	0.01
Method Group 101.XX PCT			12	0.24	0.01	0.01	12	0.24	0.01	0.01
Acid Soluble Magnesium, AA	984.01	121.00	15	1.80	0.13	0.04	15	1.80	0.13	0.04
Acid Soluble Magnesium, ICP		121.30	24	1.83	0.11	0.04	24	1.83	0.11	0.04
Acid Soluble Magnesium, Titrimetric ...	964.01	121.70	1	1.82	0.00	0.00	1	1.82	0.00	0.00
Acid Soluble Magnesium, Other		121.99	3	1.73	0.04	0.06	3	1.73	0.04	0.06
Method Group 121.XX PCT			43	1.82	0.11	0.04	43	1.82	0.11	0.04
Water Soluble Magnesium, AA		131.00	1	1.59	0.06	0.08	1	1.59	0.06	0.08
Water Soluble Magnesium, ICP		131.30	2	1.62	0.10	0.08	2	1.62	0.10	0.08
Method Group 131.XX PCT			3	1.61	0.09	0.08	3	1.61	0.09	0.08
Sulfur, Gravimetric	980.02a	144.01	14	19.21	0.27	0.09	13	19.23	0.27	0.06
Sulfur, Spectrometric		144.70	1	18.56	0.38	0.54	1	18.56	0.38	0.54
Sulfur, Other		144.99	17	19.01	0.44	0.18	16	19.01	0.43	0.13
Method Group 144.XX PCT			32	19.09	0.40	0.15	29	19.13	0.36	0.09
Arsenic, Atomic Absorption		151.00	3	0.58	0.32	0.00	3	0.58	0.32	0.00
Arsenic, ICP		151.30	4	1.38	1.16	0.54	4	1.38	1.16	0.54
Arsenic, Other		151.99	1	0.38	0.02	0.03	1	0.38	0.02	0.03
Method Group 151.XX PPM			8	0.96	0.93	0.27	7	0.97	0.97	0.15
Acid Soluble Boron, Other		165.99	3	0.002	0.002	0.000	3	0.002	0.002	0.000
Cadmium, Atomic Absorption		181.00	3	0.49	0.25	0.07	3	0.49	0.25	0.07
Cadmium, ICP		181.30	7	0.49	0.14	0.09	7	0.49	0.14	0.09
Method Group 181.XX PPM			11	0.56	0.28	0.08	11	0.56	0.28	0.08
Water Soluble Chlorine, Titrimetric ...	928.02	190.00	3	0.53	0.26	0.01	3	0.53	0.26	0.01
Water Soluble Chlorine, Other		190.99	1	0.64	0.00	0.00	1	0.64	0.00	0.00
Method Group 190.XX PCT			4	0.56	0.23	0.01	4	0.56	0.23	0.01
Chromium, ICP		191.30	12	51.54	13.66	2.27	12	51.54	13.66	2.27
Acid Soluble Cobalt, AA		202.00	2	6.43	0.59	1.02	2	6.43	0.59	1.02
Acid Soluble Cobalt, Colormetric	965.11	202.20	1	7.40	0.14	0.20	1	7.40	0.14	0.20
Acid Soluble Cobalt, ICP	965.11	202.30	11	9.33	2.02	0.43	11	9.33	2.02	0.43
Method Group 202.XX PPM			14	8.78	2.10	0.50	14	8.78	2.10	0.50
Acid Soluble Copper, Atomic Absorption	975.01	221.00	6	0.0065	0.0005	0.0003	6	0.0065	0.0005	0.0003
Acid Soluble Copper, ICP		221.30	17	0.0064	0.0006	0.0004	17	0.0064	0.0006	0.0004
Acid Soluble Copper, Other		221.99	1	0.0055	0.0007	0.0010	1	0.0055	0.0007	0.0010
Method Group 221.XX PCT			24	0.0064	0.0006	0.0004	24	0.0064	0.0006	0.0004
Acid Soluble Iron, Atomic Absorption ..	980.01	241.00	13	0.75	0.11	0.02	12	0.74	0.10	0.01
Acid Soluble Iron, ICP		241.30	25	0.69	0.19	0.03	23	0.68	0.19	0.02

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Acid Soluble Iron, Other		241.99	4	0.53	0.20	0.03	4	0.53	0.20	0.03
Method Group 241.XX PCT			42	0.70	0.18	0.03	40	0.69	0.18	0.02
Lead, Atomic Absorption		251.00	2	6.99	0.58	0.46	2	6.99	0.58	0.46
Lead, ICP		251.30	9	7.85	1.23	0.38	8	7.82	1.28	0.26
Lead, Other		251.99	1	7.40	0.14	0.20	1	7.40	0.14	0.20
Method Group 251.XX PPM			12	7.67	1.13	0.38	11	7.63	1.16	0.29
Acid Soluble Manganese, AA	972.02a	261.00	9	0.219	0.012	0.007	8	0.219	0.012	0.005
Acid Soluble Manganese, AA	972.02b	261.11	3	0.207	0.004	0.004	3	0.207	0.004	0.004
Acid Soluble Manganese, ICP	972.02a	261.30	22	0.220	0.016	0.006	22	0.220	0.016	0.006
Acid Soluble Manganese, ICP	972.02b	261.31	1	0.225	0.007	0.010	1	0.225	0.007	0.010
Acid Soluble Manganese, Spectrometric	940.02	261.50	1	0.212	0.000	0.000	1	0.212	0.000	0.000
Acid Soluble Manganese, Other		261.99	3	0.218	0.021	0.030	3	0.218	0.021	0.030
Method Group 261.XX PCT			39	0.218	0.014	0.008	37	0.218	0.014	0.006
Water Soluble Manganese, Atomic Abs	972.03	271.00	1	0.240	0.014	0.020	1	0.240	0.014	0.020
Water Soluble Manganese, ICP	972.03	271.30	1	0.225	0.021	0.030	1	0.225	0.021	0.030
Method Group 271.XX PCT			2	0.233	0.017	0.025	2	0.233	0.017	0.025
Mercury, Other		281.99	1	0.03	0.00	0.00	1	0.03	0.00	0.00
Molybdenum, Atomic Absorption		289.00	1	1.00	0.00	0.00	1	1.00	0.00	0.00
Molybdenum, ICP		289.30	8	3.74	1.09	0.64	8	3.74	1.09	0.64
Method Group 289.XX PPM			10	3.92	2.00	0.72	10	3.92	2.00	0.72
Nickel, Atomic Absorption		291.00	1	25.50	0.71	1.00	1	25.50	0.71	1.00
Nickel, ICP		291.30	8	29.84	5.36	1.73	7	30.39	5.31	0.84
Nickel, Other		291.99	1	31.20	0.85	1.20	1	31.20	0.85	1.20
Method Group 291.XX PPM			10	29.54	4.99	1.61	9	29.94	4.93	0.89
Selenium, Atomic Absorption		301.00	1	0.03	0.01	0.01	1	0.03	0.01	0.01
Selenium, ICP		301.30	1	0.83	0.74	1.05	1	0.83	0.74	1.05
Method Group 301.XX PPM			2	0.43	0.63	0.53	2	0.43	0.63	0.53
Sodium, Other		311.99	8	0.18	0.03	0.00	8	0.18	0.03	0.00
Acid Soluble Zinc, Atomic Absorption	975.02	321.00	7	0.027	0.003	0.001	6	0.027	0.003	0.000
Acid Soluble Zinc, Zincon Ion Exchange	973.01	321.20	1	0.028	0.000	0.000	1	0.028	0.000	0.000
Acid Soluble Zinc, ICP		321.30	17	0.028	0.002	0.001	17	0.028	0.002	0.001
Acid Soluble Zinc, Other		321.99	2	0.029	0.002	0.000	2	0.029	0.002	0.000
Method Group 321.XX PCT			27	0.028	0.002	0.001	26	0.028	0.002	0.001
Water Soluble Zinc, ICP		325.30	1	0.150	0.042	0.060	1	0.150	0.042	0.060

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Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 001.10 PCT			Meth: 003.99 PCT			Meth: 010.12 PCT			Meth: 010.60 PCT			Meth: 010.XX PCT		
Ammoniacal Nitrogen			Water Insoluble Nitr			Total Nitrogen			Total Nitrogen			<u>Total Nitrogen</u>		
<u>MgO Distillation</u>			<u>Other</u>			<u>Salicylic</u>			<u>Combustion</u>					
220	9.65	1.56	027	0.22	.00	254	12.41	.98	296	12.53	-.07	102	12.64	R 2.08
Avg	9.45					Avg	12.37		377	12.52	-.11	043	12.71	R 1.63
415	9.42	-.23	Meth: 005.99 PCT			211	12.33	-.74	324	12.51	-.16	157	12.75	1.54
324	9.39	-.49	Nitrogen From Urea			185	11.98	S -7.37	220	12.50	-.23	381	12.73	1.38
262	9.35	-.89	<u>Other</u>						247	12.49	-.30	406	12.71	1.26
			262	3.51	.93	Meth: 010.60 PCT			131	12.50	-.31	425	12.60	R 1.01
			234	3.03	.32	Total Nitrogen			055	12.49	-.41	405	12.66	.94
Meth: 001.99 PCT			Avg 2.79			<u>Combustion</u>			035	12.48	-.46	095	12.63	.88
Ammoniacal Nitrogen			027 1.84 -1.24			361	12.94	2.80	162	12.46	-.48	376	12.60	.86
<u>Other</u>						102	12.64	R 2.19	325	12.43	-.71	025	12.64	.84
096	9.70	1.29	Meth: 007.00 PCT			262	12.85	2.19	351	12.51	-.77	049	12.62	.83
105	9.66	.65	Percent Urea			043	12.71	R 1.63	057	12.41	-.84	028	12.63	.82
Avg	9.62		<u>Urease (as Urea)</u>			157	12.75	1.48	369	12.45	-.94	390	12.62	.80
027	9.62	-.17	220 1.75 .00			381	12.73	1.31	041	12.38	-1.05	177	12.62	.72
393	9.60	-.72				406	12.71	1.18	007	12.40	-1.18	023	12.60	.70
420	9.55	-1.37	Meth: 009.10 PCT			425	12.60	1.01	009	12.37	-1.23	351	12.51	.69
			Ammon & Nitrate N			095	12.63	.81	426	12.34	-1.33	307	12.61	.66
Meth: 001.XX PCT			<u>Devarda</u>			049	12.62	.76	422	12.30	-1.59	389	12.60	.59
Ammoniacal Nitrogen			030	11.60	1.29	028	12.63	.73	428	12.30	-1.59	234	12.56	.56
096	9.70	1.21	Avg 10.30			025	12.64	.73	114	12.31	-1.64	037	12.58	.52
105	9.66	.89	200 9.76 -.54			390	12.62	.71	423	12.20	-2.33	360	12.58	.49
220	9.65	.80	420 9.55 -.75			023	12.60	.61	034	12.03	s -3.47	136	12.58	.46
027	9.62	.57	Meth: 010.11 PCT			177	12.62	.59				330	12.55	.42
393	9.60	.46	Total Nitrogen			234	12.56	.53	Meth: 010.99 PCT			040	12.54	.34
Avg	9.55		<u>Modified Comprehensi</u>			307	12.61	.52	Total Nitrogen			233	12.55	.31
420	9.55	-.27	415	15.50	S 24.02	389	12.60	.45	<u>Other</u>			106	12.55	.29
415	9.42	-.97	405	12.66	1.32	037	12.58	.42	376	12.60	1.39	096	12.55	.25
324	9.39	-1.23	105	12.50	.33	360	12.58	.37	105	12.45	.60	027	12.55	.25
262	9.35	-1.60	073	12.52	.29	330	12.55	.36	Avg	12.41		232	12.54	.23
Meth: 002.99 PCT			027	12.52	.18	136	12.58	.33	430	12.33	-.52	073	12.52	.16
Nitrate Nitrogen			322	12.51	.08	040	12.54	.31	420	12.27	-.97	296	12.53	.13
<u>Other</u>			220	12.50	.08	233	12.55	.18				377	12.52	.11
027	0.03	.00	Avg	12.49		106	12.55	.13	Meth: 010.XX PCT			322	12.51	.06
			090	12.26	-1.88	096	12.55	.09	<u>Total Nitrogen</u>			324	12.51	.03
						027	12.55	.09	415	15.50	s 18.73	Avg	12.51	
						232	12.54	.08	220	12.50	-.03	220	12.50	-.03
						Avg	12.53		262	12.85	2.18	247	12.49	-.11

* X=Excluded from lab performance S/s=Screened Outlier R=Duplicate Range too large A=Analysis beyond 3-s limits

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Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 010.XX PCT			Meth: 020.40 PCT			Meth: 030.XX PCT			Meth: 041.50 PCT			Meth: 050.00 PCT		
<u>Total Nitrogen</u>			<u>Total Phosphate</u>			<u>Insoluble Phosphate</u>			Dir Available Phosph			<u>Soluble Potash</u>		
131	12.50	-.19	<u>Automated</u>			220	0.06	.91	<u>ICP</u>			<u>STPB Oxalate</u>		
105	12.50	-.25	096	0.69	-.71	Avg 0.04			325	0.64	1.18	095	17.70	.47
055	12.49	-.25	Meth: 020.50 PCT			405 0.02 -.82			Avg 0.61			Avg 17.63		
162	12.46	-.26	<u>Total Phosphate</u>			Meth: 040.10 PCT			007 0.58 -.66			057 17.59 -.34		
035	12.48	-.30	<u>ICP</u>			InDir Available Phos			009 0.61 -.82			028 17.60 -.36		
325	12.43	-.48	389 0.60 .83			<u>Grav Quim</u>			393 0.00 S -14.12			114 17.61 -.38		
057	12.41	-.60	307 0.56 .56			405 0.94 .71			Meth: 041.60 PCT			211 17.58 -.41		
105	12.45	-.65	423 0.53 .23			Meth: 040.20 PCT			Dir Available Phosph			009 17.62 -.43		
254	12.41	-.67	Avg 0.50			InDir Available Phos			<u>EDTA Extract</u>			043 17.57 -.53		
369	12.45	-.77	422 0.30 -1.57			<u>Spectrometri</u>			024 0.66 .94			296 17.46 -1.21		
041	12.38	-.79	Meth: 020.XX PCT			220 0.58 .71			377 0.64 .85			418 17.45 X -1.29		
007	12.40	-.95	<u>Total Phosphate</u>			Meth: 040.50 PCT			Avg 0.64			090 17.41 -1.61		
009	12.37	-.97	405 0.96 2.17			InDir Available Phos			296 0.62 -.94			055 17.45 R -1.88		
426	12.34	-1.04	096 0.69 .56			<u>ICP</u>			Meth: 041.XX PCT			Meth: 050.10 PCT		
430	12.33	-1.10	428 0.64 .33			423 0.52 .71			Dir Available Phosph			<u>Soluble Potash</u>		
211	12.33	-1.13	220 0.64 .30			Meth: 040.XX PCT			009 0.68 .76			STPB Citrate		
422	12.30	-1.28	389 0.60 .06			InDir Available Phos			024 0.66 .54			322 18.26 .71		
428	12.30	-1.29	Avg 0.59			405 0.94 1.28			325 0.64 .48			Meth: 050.30 PCT		
114	12.31	-1.35	324 0.58 -.17			Avg 0.68			377 0.64 .43			<u>Soluble Potash</u>		
420	12.27	-1.52	307 0.56 -.24			220 0.58 -.48			296 0.62 .30			AA (Oxalate)		
090	12.26	-1.57	423 0.53 -.37			423 0.52 -.79			009 0.61 .29			193 20.25 S 3.97		
423	12.20	-1.96	262 0.40 -1.10			Meth: 041.10 PCT			296 0.61 .23			381 18.72 1.63		
034	12.03	-3.01	422 0.30 -1.68			Dir Available Phosph			007 0.58 .04			369 18.48 1.32		
185	11.98 s	-3.37	Meth: 020.10 PCT			Grav Quimociac			028 0.58 .04			073 17.66 R 1.10		
Meth: 020.10 PCT			Meth: 030.10 PCT			Meth: 041.10 PCT			Avg 0.57			234 17.88 .37		
<u>Total Phosphate</u>			<u>Insoluble Phosphate</u>			Dir Available Phosph			322 0.12 -2.82			428 17.85 .33		
<u>Grav Quimociac</u>			<u>Grav Quimociac</u>			<u>Grav Quimociac</u>			393 0.00 s -3.59			136 17.75 .19		
405	0.96	.71	405	0.02	.00	009	0.68 R	1.02	Meth: 050.00 PCT			Avg 17.65		
Meth: 020.20 PCT			Meth: 030.99 PCT			296 0.61 .71			Soluble Potash			040 17.27 -.58		
<u>Total Phosphate</u>			<u>Insoluble Phosphate</u>			028 0.58 .58			<u>STPB Oxalate</u>			095 17.17 -.73		
<u>Spectrometric</u>			<u>Other</u>			Avg 0.44			257 17.86 1.58			351 16.87 -1.19		
428	0.64	.76	220 0.06 .71			322 0.12 -1.29			220 17.85 1.47			262 16.84 -1.24		
220	0.64	.71	Meth: 020.20 PCT			Meth: 041.10 PCT			102 17.80 1.15					
324	0.58	.25	<u>Total Phosphate</u>			Dir Available Phosph			233 17.75 .94					
Avg	0.56		<u>Spectrometric</u>			<u>Grav Quimociac</u>			049 17.68 .83					
262	0.40	-1.54	428 0.64 .76			009 0.68 R 1.02			A=Analysis beyond 3-s limits					
* X=Excluded from lab performance			S/s=Screened Outlier			R=Duplicate Range too large								

MAGRUDER - Fertilizer Check Sample No. - 200507

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 050.31 PCT			Meth: 050.60 PCT			Meth: 050.XX PCT			Meth: 050.XX PCT			Meth: 060.00 PCT		
Soluble Potash			Soluble Potash			<u>Soluble Potash</u>			<u>Soluble Potash</u>			Free Water		
<u>AA (Citrate)</u>			<u>Flame (Oxalate)</u>			193	20.25	s 5.62	105	17.63	-.11	<u>Vacuum Oven</u>		
254	17.59	.71	131	17.63	-1.18	041	18.83	2.52	131	17.63	-.12	105	0.90	1.40
						381	18.72	2.27	009	17.62	-.18	247	0.82	.23
Meth: 050.50 PCT			Meth: 050.61 PCT			369	18.48	1.82	114	17.61	-.18	Avg 0.80		
Soluble Potash			Soluble Potash			422	18.32	1.41	028	17.60	-.19	007 0.78 -.37		
<u>ICP (Oxalate)</u>			<u>Flame (Citrate)</u>			030	18.30	1.36	254	17.59	-.20	193 0.72 -1.16		
422	18.32	1.16	030	18.30	1.71	415	18.27	1.30	057	17.59	-.20	096 0.80 R -2.12		
324	18.18	1.03	025	17.95	.54	105	18.20	R 1.28	211	17.58	-.23			
390	17.58	.37	105	17.84	.19	322	18.26	1.27	106	17.57	-.24	Meth: 101.00 PCT		
106	17.57	.33	Avg 17.80			324	18.18	1.19	043	17.57	-.26	Acid Soluble Calcium		
Avg	17.52		024	17.69	-.58	131	18.19	1.15	377	17.54	-.30	<u>AA</u>		
307	17.11	-.32	035	17.54	-.92	260	18.11	.96	035	17.54	-.32	095 0.22 .71		
157	16.36	-1.00	034	17.50	-1.03	360	18.01	.89	390	17.58	-.34	Avg 0.22		
420	15.77	S -1.66				406	18.05	.82	034	17.50	-.39	105 0.18 S -11.07		
			Meth: 050.99 PCT			392	18.02	.75	361	17.48	-.45			
Meth: 050.51 PCT			Soluble Potash			389	18.00	.73	296	17.46	-.48	Meth: 101.30 PCT		
Soluble Potash			<u>Other</u>			027	17.97	.64	418	17.45	X -.50	Acid Soluble Calcium		
<u>ICP (Citrate)</u>			131	18.19	1.14	025	17.95	.60	376	17.45	-.51	<u>ICP</u>		
389	18.00	1.46	260	18.11	.94	247	17.89	.58	090	17.41	-.60	422 0.80 s 62.17		
009	17.90	1.18	360	18.01	.88	009	17.90	.50	325	17.39	-.64	432 0.75 s 57.49		
377	17.54	.24	392	18.02	.72	330	17.88	.49	055	17.45	-.66	247 0.24 1.13		
361	17.48	.12	027	17.97	.61	232	17.90	.48	007	17.39	-.81	035 0.25 1.02		
Avg	17.45		247	17.89	.56	234	17.88	.46	040	17.27	-.89	423 0.25 .95		
393	17.28	-.50	330	17.88	.46	200	17.87	.43	393	17.28	-.90	009 0.25 .93		
007	17.39	-.61	232	17.90	.44	426	17.86	.42	043	17.20	-1.06	065 0.24 .61		
043	17.20	-.67	426	17.86	.39	428	17.85	.41	095	17.17	-1.12	096 0.24 .23		
423	16.80	-1.68	Avg	17.70		257	17.86	.40	307	17.11	-1.34	Avg 0.24		
			177	17.70	-.15	055	17.85	.37	073	17.66	R -1.58	307 0.24 -.36		
Meth: 050.60 PCT			105	17.63	-.17	220	17.85	.37	351	16.87	-1.77	102 0.23 -.77		
Soluble Potash			376	17.45	-.57	105	17.84	.36	262	16.84	-1.84	131 0.23 -1.14		
<u>Flame (Oxalate)</u>			325	17.39	-.71	024	17.69	.27	423	16.80	-1.92	232 0.22 -1.72		
041	18.83	1.88	430	16.77	-2.09	102	17.80	.27	430	16.77	-1.98			
105	18.20	.74	425	16.78	-2.13	049	17.68	.24	425	16.78	-2.02	Meth: 101.99 PCT		
415	18.27	.48	432	16.25	S -3.35	233	17.75	.22	157	16.36	-2.87	Acid Soluble Calcium		
Avg	18.10		397	15.83	S -4.21	136	17.75	.22	432	16.25	s -3.21	<u>Other</u>		
406	18.05	-.16				177	17.70	.15	397	15.83	s -4.03	420 0.26 .71		
200	17.87	-.61				095	17.70	.05	420	15.77	s -4.16			
055	17.85	-.64				Avg 17.68								

* X=Excluded from lab performance S/s=Screened Outlier R=Duplicate Range too large A=Analysis beyond 3-s limits

MAGRUDER - Fertilizer Check Sample No. - 200507

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 101.XX PCT			Meth: 121.30 PCT			Meth: 121.99 PCT			Meth: 121.XX PCT			Meth: 144.01 PCT		
<u>Acid Soluble Calcium</u>			<u>Acid Soluble Magnesi</u>			<u>Acid Soluble Magnesi</u>			<u>Acid Soluble Magnesi</u>			<u>Sulfur</u>		
422	0.80 s	47.89	ICP			Other			106	1.77	-.44	<u>Gravimetric</u>		
432	0.75 s	44.28	324	2.83 s	9.17	234	1.74	1.13	065	1.82	-.51	262	19.75	1.90
420	0.26	2.03	422	2.27 s	4.03	420	1.75	.49	090	1.77	-.54	296	19.48	.95
247	0.24	.86	027	2.06	2.13	Avg	1.73		420	1.75	-.59	043	19.46	.85
035	0.25	.72	057	2.05	2.00	392	1.72	-.99	296	1.73	-.80	157	19.43	.75
423	0.25	.68	426	2.02	1.78	Meth: 121.XX PCT			234	1.74	-.81	324	19.42	.69
009	0.25	.64	432	1.96	1.12	<u>Acid Soluble Magnesi</u>			095	1.72	-.86	095	19.24	.06
065	0.24	.45	247	1.90	.62	324	2.83 s	8.80	392	1.72	-.94	Avg	19.23	
096	0.24	.10	330	1.85	.57	422	2.27 s	3.95	381	1.70	-1.02	102	19.20	-.11
Avg	0.24		390	1.88	.40	200	2.06	2.17	393	1.70	-1.05	105	19.14	-.32
307	0.24	-.32	023	1.87	.37	027	2.06	2.16	102	1.69	-1.08	040	19.12	-.41
102	0.23	-.67	423	1.87	.29	057	2.05	2.04	430	1.69	-1.10	106	19.11	-.57
131	0.23	-.93	360	1.84	.19	028	2.04	1.95	351	1.68	-1.16	028	19.00	-.84
095	0.22	-1.29	131	1.84	.09	426	2.02	1.83	232	1.68	-1.19	200	18.94	-1.05
232	0.22	-1.40	Avg	1.83		432	1.96	1.21	397	1.66	-1.41	055	19.05 R	-1.06
105	0.18 s	-5.26	361	1.83	-.04	247	1.90	.73	257	1.60	-1.90	193	18.70	-1.95
Meth: 121.00 PCT			389	1.80	-.32	055	1.89	.71	035	0.19 s	-14.18	Meth: 144.70 PCT		
<u>Acid Soluble Magnesi</u>			096	1.79	-.45	220	1.86	.65	Meth: 131.00 PCT			<u>Sulfur</u>		
<u>AA</u>			307	1.80	-.45	330	1.85	.60	<u>Water Soluble Magnes</u>			<u>Spectrometric</u>		
200	2.06	1.98	376	1.79	-.48	390	1.88	.53	<u>AA</u>			393	18.56	.71
028	2.04	1.79	065	1.82	-.57	023	1.87	.49	220	1.59	.71	Meth: 144.99 PCT		
055	1.89	.70	009	1.77	-.58	177	1.87	.45	Meth: 131.30 PCT			<u>Sulfur</u>		
220	1.86	.62	106	1.77	-.62	423	1.87	.42	<u>Water Soluble Magnes</u>			<u>Other</u>		
177	1.87	.48	090	1.77	-.72	262	1.84	.33	<u>ICP</u>			220	20.78 S	4.08
262	1.84	.35	393	1.70	-1.27	360	1.84	.27	027	1.69	.65	360	19.63	1.42
105	1.82	.15	102	1.69	-1.30	131	1.84	.20	Avg	1.62		330	19.07 R	1.31
040	1.81	.07	430	1.69	-1.33	361	1.83	.12	432	1.56	-1.04	361	19.46	1.04
Avg	1.80		232	1.68	-1.43	105	1.82	.08	Meth: 131.XX PCT			389	19.45	1.02
043	1.80	-.14	035	0.19 s	-15.20	415	1.82	.06	<u>Water Soluble Magnes</u>			102	19.29 X	.69
296	1.73	-.61	Meth: 121.70 PCT			Avg	1.82		027	1.69	.91	247	19.29	.67
095	1.72	-.66	<u>Acid Soluble Magnesi</u>			040	1.81	-.08	Avg	1.61		376	19.19	.41
381	1.70	-.80	<u>Titrimetric</u>			389	1.80	-.15	220	1.59	-.53	009	19.11	.29
351	1.68	-.92	415	1.82	-.71	043	1.80	-.23	432	1.56	-1.18	351	19.10	.23
397	1.66	-1.14				096	1.79	-.29	Meth: 131.00 PCT			035	19.05	.15
257	1.60	-1.57				376	1.79	-.31	<u>AA</u>			027	19.06	.12
						307	1.80	-.34				Avg 19.01		
						009	1.77	-.40				A=Analysis beyond 3-s limits		

* X=Excluded from lab performance S/s=Screened Outlier R=Duplicate Range too large A=Analysis beyond 3-s limits

MAGRUDER - Fertilizer Check Sample No. - 200507

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 144.99 PCT			Meth: 144.XX PCT			Meth: 151.XX PPM			Meth: 181.XX PPM			Meth: 191.30 PPM		
Sulfur			Sulfur			Arsenic			Cadmium			Chromium		
<u>Other</u>			<u>ICP</u>											
177	19.01	-.13	423	18.85	-.81	200	1.00 X	.03	200	1.73 s	4.21	009	65.05	.99
423	18.85	-.44	131	18.82	-.86	Avg	0.97		324	1.25	2.48	096	63.00	.84
131	18.82	-.46	193	18.70	-1.18	376	0.93	-.08	193	0.80	.93	102	61.56	.74
390	18.49	-1.34	330	19.07 R	-1.56	065	0.61	-.57	393	0.66	.56	376	61.55	.73
023	18.41	-1.38	393	18.56 R	-1.72	106	0.85 R	-.58	376	0.59	.13			
430	17.95	-2.44	390	18.49 R	-1.89	136	0.40	-.59	035	0.58	.06	035	59.55	.59
422	17.74 S	-2.93	023	18.41	-1.97	220	0.38	-.62	Avg	0.56		393	57.53	.50
232	16.60 s	-5.54	430	17.95	-3.23	040	0.35	-.64	247	0.50	-.22	Avg	51.54	
			422	17.74 s	-3.81	Meth: 165.99 PCT			102	0.48	-.40	233	50.84	-.26
			232	16.60 s	-6.92	Acid Soluble Boron			040	0.36	-.72	232	43.40	-.60
Meth: 144.XX PCT			Meth: 151.00 PPM			Other			136	0.30	-.93	324	37.25	-1.07
Sulfur			Arsenic			Avg			390	0.28	-1.04	247	36.80	-1.08
220	20.78 s	4.54	200	1.00 X	1.29	423	0.001	-.41	Meth: 190.00 PCT			Meth: 202.00 PPM		
262	19.75	1.70	Avg	0.58		232	0.001	-.86	Water Soluble Chlori			Acid Soluble Cobalt		
360	19.63	1.37	136	0.40	-.57	Meth: 181.00 PPM			Titrimetric			AA		
296	19.48	.98	040	0.35	-.72	Cadmium			105	0.74	.81	193	6.50	.85
361	19.46	.92	Meth: 151.30 PPM			Atomic Absorption			102	0.65	.47	Avg	6.43	
043	19.46	.91	Arsenic			200	1.73 S	4.94	422	0.19	-1.28	397	6.36	-.88
389	19.45	.90	ICP			193	0.80	1.30	Meth: 190.99 PCT			Meth: 202.20 PPM		
157	19.43	.84	390	7.15 s	6.62	Avg	0.49		Water Soluble Chlori			Acid Soluble Cobalt		
324	19.42	.79	247	3.15	1.53	040	0.36	-.50	Other			Colormetric		
102	19.29 X	.54	Avg	1.38		136	0.30	-.74	009	0.64	.71	106	7.40	-.71
247	19.29	.49	376	0.93	-.40	Meth: 181.30 PPM			Meth: 190.XX PCT			Meth: 202.30 PPM		
095	19.24	.30	106	0.85	-.66	Cadmium			Water Soluble Chlori			Acid Soluble Cobalt		
102	19.20	.20	065	0.61	-.76	ICP			105	0.74	.80	ICP		
376	19.19	.17	Meth: 151.99 PPM			324	1.25 s	5.30	102	0.65	.41	096	12.75	1.69
105	19.14	.05	Arsenic			393	0.66	1.44	009	0.64	.38	057	11.71	1.18
Avg	19.13		Other			376	0.59	.69	Avg	0.56		009	11.25	.95
040	19.12	-.05	220	0.38	.71	035	0.58	.58	422	0.19	-1.59	040	10.75	.77
351	19.10	-.13	Meth: 151.XX PPM			247	0.50	.05	Meth: 190.XX PCT			035	9.56	.12
027	19.06	-.18	Arsenic			Avg	0.49		Water Soluble Chlori			Avg	9.33	
009	19.11	-.19	Other			102	0.48	-.56	105	0.74	.80	389	8.80	-.28
035	19.05	-.25	220	0.38	.71	233	0.37	-.91	102	0.65	.41	233	9.04	-.37
106	19.11	-.27	Meth: 151.99 PPM			390	0.28	-1.57	009	0.64	.38	A=Analysis beyond 3-s limits		
028	19.00	-.36	Arsenic			R=Duplicate Range too large								
177	19.01	-.36	390	7.15 s	8.22									
200	18.94	-.51	247	3.15	2.24									
055	19.05	-.66	S/s=Screened Outlier											
* X=Excluded from lab performance														

MAGRUDER - Fertilizer Check Sample No. - 200507

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 202.30 PPM			Meth: 221.30 PCT			Meth: 221.XX PCT			Meth: 241.30 PCT			Meth: 241.XX PCT		
Acid Soluble Cobalt			Acid Soluble Copper			Acid Soluble Copper			Acid Soluble Iron			Acid Soluble Iron		
<u>ICP</u>			<u>ICP</u>			<u>ICP</u>			<u>ICP</u>			<u>ICP</u>		
065	7.36	- .98	432	0.0700	s 108.54	043	0.0068	.74	422	0.97	1.54	422	0.97	1.60
232	7.20	-1.05	330	0.0077	2.14	035	0.0066	.74	432	0.92	R 1.32	432	0.92	R 1.36
324	7.15	-1.08	307	0.0073	1.76	193	0.0067	.56	055	0.88	1.10	055	0.88	1.10
102	7.04	-1.13	096	0.0071	1.08	397	0.0065	.20	095	0.87	1.01	095	0.87	1.01
			422	0.0065	.83	102	0.0065	.15	330	0.85	.90	009	0.85	R .97
			040	0.0065	.83	Avg	0.0064		360	0.83	.80	330	0.85	.91
Meth: 202.XX PPM			057 0.0069 .82			065 0.0062 -.38			027 0.83 .79			351 0.85 .91		
Acid Soluble Cobalt			035 0.0066 .71			041 0.0061 -.49			057 0.83 .78			425 0.84 .85		
096	12.75	1.89	102	0.0065	.11	009	0.0061	-.55	106	0.82	.75	360	0.83	.80
057	11.71	1.39	Avg	0.0064		376	0.0060	-.62	324	0.80	.67	027	0.83	.79
009	11.25	1.18	065	0.0062	-.41	428	0.0060	-.65	131	0.80	.66	057	0.83	.78
040	10.75	.99	041	0.0061	-.52	324	0.0060	-.65	390	0.78	.53	106	0.82	.74
035	9.56	.37	009	0.0061	-.58	390	0.0061	-.68	096	0.76	.45	324	0.80	.67
233	9.04	.35	376	0.0060	-.66	393	0.0059	-.81	426	0.76	.43	131	0.80	.65
389	8.80	.10	324	0.0060	-.68	232	0.0058	-.96	035	0.74	.35	234	0.80	.64
Avg	8.78		390	0.0061	-.70	389	0.0058	-1.12	376	0.72	.20	105	0.80	.63
106	7.40	-.66	393	0.0059	-.84	296	0.0058	-1.16	307	0.70	.19	390	0.78	.51
065	7.36	-.68	232	0.0058	-.98	420	0.0055	-1.67	232	0.69	.08	040	0.78	.49
232	7.20	-.75	389	0.0058	-1.14	423	0.0044	s -3.32	157	0.68	.01	043	0.77	.46
324	7.15	-.78	423	0.0044	S -3.31	Meth: 241.00 PCT			Avg	0.68		096	0.76	.42
102	7.04	-.83	Meth: 221.99 PCT			Acid Soluble Iron			090	0.59	-.48	426	0.76	.40
193	6.50	-1.11	Acid Soluble Copper			Atomic Absorption			102	0.55	-.66	220	0.75	.36
397	6.36	-1.18	Other			055 0.88 R 1.40			423	0.51	-.89	177	0.75	.33
Meth: 221.00 PCT			420 0.0055 .71			095 0.87 1.22			389	0.50	-.94	035	0.74	.32
Acid Soluble Copper			Meth: 221.XX PCT			351 0.85 1.05			247	0.40	-1.43	307	0.70	.17
<u>Atomic Absorption</u>			Acid Soluble Copper			425 0.84 .93			430	0.29	-2.03	428	0.72	.16
262	0.0100	S 7.32	Other			105 0.80 .56			393	0.18	-2.57	376	0.72	.16
105	0.0070	1.08	420 0.0055 .71			040 0.78 .32			Meth: 241.99 PCT			262	0.70	.09
043	0.0068	.80	Meth: 221.XX PCT			043 0.77 .27			Acid Soluble Iron			Avg	0.69	
193	0.0067	.55	Acid Soluble Copper			220 0.75 .12			Other			157	0.68	-.05
397	0.0065	.10	432 0.0700 s 110.36			177 0.75 .05			234 0.80 1.36			232	0.69	-.06
Avg	0.0065		262 0.0100 s 5.99			Avg			065 0.57 .24			397	0.59	-.57
428	0.0060	-.95	330 0.0077 2.21			428 0.72 -.26			Avg			090	0.59	-.58
296	0.0058	-1.57	307 0.0073 1.82			262 0.70 -.43			023 0.47 -.36			065	0.57	-.66
			096 0.0071 1.14			397 0.59 -1.54			420 0.30 -1.21			102	0.55	-.77
			105 0.0070 .98			381 0.52 -2.22						381	0.52	-.96
			057 0.0069 .88									423	0.51	-1.02
			422 0.0065 .85									389	0.50	-1.07
			040 0.0065 .85											

* X=Excluded from lab performance S/s=Screened Outlier R=Duplicate Range too large A=Analysis beyond 3-s limits

MAGRUDER - Fertilizer Check Sample No. - 200507

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 241.XX PCT			Meth: 251.XX PPM			Meth: 261.30 PCT			Meth: 261.99 PCT			Meth: 261.XX PCT		
<u>Acid Soluble Iron</u>			<u>Lead</u>			<u>Acid Soluble Mangane</u>			<u>Acid Soluble Mangane</u>			<u>Acid Soluble Mangane</u>		
023	0.47	-1.24	106	8.95	1.14	ICP			Other			262	0.210	-.57
247	0.40	-1.60	324	8.05 R	.67	432	0.305 s	5.60	234	0.225	1.21	096	0.210	-.57
420	0.30	-2.17	009	7.88	.22	023	0.244	1.60	220	0.225	.77	177	0.209	-.68
430	0.29	-2.25	102	7.67	.09	102	0.235	1.13	Avg	0.218		426	0.207	-.82
393	0.18	-2.84	Avg	7.63		330	0.235	1.05	392	0.205	-.67	095	0.207	-.82
			220	7.40 X	-.22	027	0.236	1.03				043	0.206	-.90
			035	7.34	-.33	057	0.235	.99	Meth: 261.XX PCT			381	0.205	-1.00
Meth: 251.00 PPM			043			106			<u>Acid Soluble Mangane</u>			392	0.205	-1.00
Lead			136			065			432			232	0.201	-1.24
<u>Atomic Absorption</u>			376			423			023			307	0.194	-1.74
200	20.00 S	22.54	040	6.58	-.91	389	0.225	.48	234	0.225 R	1.87	397	0.188 s	-2.55
136	7.40	.99	233	6.37	-1.11	390	0.227	.48	351	0.240	1.60	393	0.180	-2.73
Avg	6.99		193	2.00 s	-4.88	131	0.224	.30	102	0.235	1.36			
040	6.58	-.72				422	0.222	.25	330	0.235	1.28			
193	2.00 S	-8.64				009	0.220	.11	027	0.236	1.27	Meth: 271.00 PCT		
			Meth: 261.00 PCT			360			057			Water Soluble Mangan		
			Acid Soluble Mangane			Avg			220			<u>Atomic Abs</u>		
			<u>AA</u>			035			106			220		
			351			035			0230			0.240		
			296			376			296			.71		
			105			090			105					
			257			096			390			Meth: 271.30 PCT		
			193			426			065			Water Soluble Mangan		
			Avg			232			389			<u>ICP</u>		
			055			307			257			432		
			262			393			423			0.225		
			177						324			.71		
			043						131			Meth: 271.XX PCT		
			376						422			<u>Water Soluble Mangan</u>		
			233						009			220		
			Meth: 261.31 PCT						360			0.240		
			Acid Soluble Mangane						193			.73		
			<u>ICP</u>						Avg			0.233		
			324						035			432		
			Meth: 261.50 PCT						055			0.225		
			Acid Soluble Mangane						376			-.98		
			<u>Spectrometric</u>						420					
			095						040			Meth: 281.99 PPM		
			381						090			Mercury		
									035			<u>Other</u>		
									055			220		
									376			0.03		
									420			.00		
									040			Meth: 289.00 PPM		
									090			Molybdenum		
									A			<u>Atomic Absorption</u>		
									220			220		
									1.00			1.00		
									-.57			Analysis beyond 3-s limits		
									-.57					

MAGRUDER - Fertilizer Check Sample No. - 200507

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 289.30 PPM			Meth: 291.30 PPM			Meth: 301.XX PPM			Meth: 321.30 PCT			Meth: 321.XX PCT		
<u>Molybdenum</u>			<u>Nickel</u>			<u>Selenium</u>			<u>Acid Soluble Zinc</u>			<u>Acid Soluble Zinc</u>		
ICP			ICP			065	0.83	1.05	ICP			040	0.030	1.14
096	8.30 s	4.29	390	29.95	-.15	Avg	0.43		432	0.475 s	230.24	200	0.030	1.14
233	4.14	1.03	233	26.75	-.74	040	0.03	-.64	390	0.039 s	5.62	220	0.030	1.14
009	4.70	.88	247	25.45	-.93	Meth: 311.99 PCT			330	0.031	1.58	324	0.030	.96
102	4.66	.86	232	24.50	-1.11	<u>Sodium</u>			040	0.030	1.13	376	0.030	.94
232	4.40	.63	106	26.00 R	-1.12	<u>Other</u>			324	0.030	.93	043	0.029	.82
106	3.95	.46	065	12.36 S	-3.41	423	0.22	1.49	376	0.030	.91	065	0.029	.80
Avg	3.74		Meth: 291.99 PPM			423	0.22	1.49	065	0.029	.78	296	0.029	.68
247	3.60	-.16	<u>Nickel</u>			307	0.21	1.12	247	0.029	.54	247	0.029	.58
324	2.70	-1.03	<u>Other</u>			422	0.21	1.05	423	0.028	.51	035	0.029	.53
065	1.79	-1.80	035	31.20	-.71	Avg	0.18		035	0.029	.49	423	0.028	.51
Meth: 289.XX PPM			Meth: 291.XX PPM			035	0.17	-.51	102	0.029	.49	102	0.029	.51
<u>Molybdenum</u>			<u>Nickel</u>			102	0.17	-.53	057	0.028	.34	057	0.028	.38
096	8.30	2.25	096	40.00	2.04	009	0.17	-.63	Avg	0.028		096	0.028	.19
233	4.14	.54	009	33.80	.79	390	0.16	-.87	009	0.028	-.19	Avg	0.028	
009	4.70	.39	102	32.27	.48	232	0.15	-1.12	131	0.026	-.80	009	0.028	-.16
102	4.66	.38	035	31.20	.28	Meth: 321.00 PCT			232	0.026	-1.02	420	0.027	-.29
232	4.40	.26	390	29.95	.13	<u>Acid Soluble Zinc</u>			307	0.025	-1.27	095	0.027	-.40
106	3.95	.23	Avg	29.94		<u>Atomic Absorption</u>			393	0.025	-1.44	131	0.026	-.72
Avg	3.92		233	26.75	-.72	193	0.345 s	111.90	389	0.024	-1.73	041	0.026	-.85
247	3.60	-.17	193	25.50	-.91	105	0.131 S	36.52	422	0.020 s	-3.86	232	0.026	-.94
324	2.70	-.65	247	25.45	-.91	200	0.030	.99	Meth: 321.99 PCT			307	0.025	-1.17
065	1.79	-1.07	232	24.50	-1.11	262	0.030	.99	<u>Acid Soluble Zinc</u>			393	0.025	-1.34
220	1.00	-1.47	106	26.00 R	-1.14	043	0.029 R	.72	<u>Other</u>			428	0.024	-1.55
Meth: 291.00 PPM			065	12.36 s	-3.58	296	0.029	.64	220	0.030	.87	389	0.024	-1.62
<u>Nickel</u>			Meth: 301.00 PPM			Avg	0.027		Avg	0.029		028	0.023	-2.19
<u>Atomic Absorption</u>			<u>Selenium</u>			428	0.024	-1.00	Meth: 321.99 PCT			422	0.020 s	-3.68
193	25.50	.71	<u>Atomic Absorption</u>			028	0.023	-1.46	<u>Acid Soluble Zinc</u>			Meth: 325.30 PCT		
Meth: 291.30 PPM			040	0.03	-.71	Meth: 321.20 PCT			<u>Other</u>			<u>Water Soluble Zinc</u>		
<u>Nickel</u>			Meth: 301.30 PPM			<u>Acid Soluble Zinc</u>			220			ICP		
ICP			<u>Selenium</u>			Zincon Ion Exchange			420			432		
096	40.00	1.81	ICP			096			0.027			0.150		
009	33.80	.64	065			0.028			-.87			.71		
102	32.27	.36	0.83			.71			Meth: 321.XX PCT			Meth: 321.XX PCT		
Avg	30.39								Acid Soluble Zinc			Acid Soluble Zinc		
* X=Excluded from lab performance			S/s=Screened Outlier			R=Duplicate Range too large			432			432		
									0.475 s			0.475 s		
									222.63			222.63		
									152.13			152.13		
									49.52			49.52		
									5.48			5.48		
									1.58			1.58		
									1.14			1.14		
									A=Analysis beyond 3-s limits			A=Analysis beyond 3-s limits		

MAGRUDER - Fertilizer Check Sample No. - 200507

Method Evaluation - Z Values Based on 1 Reports

Method Code	Number Of Labs	Avg Bias of Labs	Std Dev of Biases	Std Dev Within Labs	Method Code	Number Of Labs	Avg Bias of Labs	Std Dev of Biases	Std Dev Within Labs
001.10	4	0.00	1.07	0.14	131.XX	3	0.00	0.81	0.63
001.99	5	0.00	0.94	0.44	144.01	14	- 0.05	0.99	0.26
001.XX	9	0.00	1.01	0.19	144.99	20	- 0.21	1.92	0.35
005.99	3	0.00	1.12	0.04	144.XX	34	- 0.29	1.85	0.36
005.XX	3	0.00	1.12	0.04	151.00	3	0.00	1.12	0.00
009.10	3	0.00	1.12	0.07	151.30	5	1.00	2.40	1.97
009.XX	3	0.00	1.12	0.07	151.XX	9	0.69	2.30	1.75
010.11	7	3.43	9.13	0.14	165.99	3	0.000	1.118	0.014
010.12	3	- 2.39	4.20	1.07	165.XX	3	0.000	1.118	0.014
010.60	50	- 0.03	1.06	0.47	181.00	4	1.23	2.62	0.28
010.99	4	0.00	0.95	0.44	181.30	8	0.66	2.06	0.42
010.XX	62	0.30	2.60	0.41	181.XX	12	0.35	1.54	0.23
020.20	4	0.00	1.07	0.14	190.00	3	0.00	1.12	0.03
020.50	4	0.00	1.07	0.12	190.XX	4	0.00	1.08	0.03
020.XX	10	0.00	1.02	0.10	191.30	12	0.00	1.01	0.12
030.XX	2	0.00	1.15	0.29	191.XX	12	0.00	1.01	0.12
040.XX	3	0.00	1.11	0.09	202.00	2	0.00	0.17	0.86
041.10	4	0.25	1.04	0.12	202.30	11	0.00	1.01	0.15
041.50	4	- 3.53	7.08	0.62	202.XX	14	0.00	1.01	0.16
041.60	3	0.00	0.85	0.60	221.00	7	1.0451	2.8940	0.4010
041.XX	9	- 0.47	1.57	0.16	221.30	19	5.2764	23.824	7.4832
050.00	16	- 0.08	0.98	0.47	221.XX	27	3.9989	20.303	6.3841
050.30	11	0.36	1.50	0.36	241.00	13	0.10	1.04	0.13
050.50	7	0.00	1.03	0.15	241.30	25	0.09	1.01	0.13
050.51	8	0.00	1.00	0.26	241.99	4	0.00	1.08	0.09
050.60	7	0.00	0.98	0.31	241.XX	42	0.05	1.01	0.12
050.61	6	0.00	1.02	0.21	251.00	4	3.47	13.36	0.35
050.99	17	- 0.44	1.55	0.31	251.30	9	0.02	0.96	0.20
050.XX	67	- 0.07	1.43	0.33	251.XX	14	0.44	3.35	0.20
060.00	5	- 0.01	0.90	0.98	261.00	10	- 0.268	1.219	0.638
060.XX	5	- 0.01	0.90	0.98	261.11	3	0.000	0.655	0.740
101.00	2	- 5.48	7.75	1.19	261.30	23	0.240	1.491	0.336
101.30	12	9.90	23.16	2.93	261.99	3	0.000	0.540	0.799
101.XX	15	5.75	16.33	2.03	261.XX	41	0.124	1.386	0.515
121.00	15	0.00	0.99	0.21	271.XX	2	0.000	0.621	0.746
121.30	27	- 0.08	3.68	0.26	289.30	9	0.47	1.65	0.49
121.99	3	0.00	0.44	0.84	289.XX	10	0.00	0.99	0.25
121.XX	46	- 0.03	2.72	0.24	291.30	9	- 0.47	1.44	0.28
131.30	2	0.00	0.91	0.58	291.XX	11	- 0.40	1.41	0.28

MAGRUDER - Fertilizer Check Sample No. - 200507

Method Evaluation - Z Values Based on 1 Reports

Method Code	Number Of Labs	Avg Bias of Labs	Std Dev of Biases	Std Dev Within Labs	Method Code	Number Of Labs	Avg Bias of Labs	Std Dev of Biases	Std Dev Within Labs
301.XX	2	0.00	0.90	0.59					
311.99	8	0.00	1.03	0.07					
311.XX	8	0.00	1.03	0.07					
321.00	9	16.544	37.724	1.268					
321.30	20	11.176	49.595	13.861					
321.99	2	0.000	1.225	0.000					
321.XX	32	13.097	46.185	10.633					