

MAGRUDER - Fertilizer Check Sample No. - 200304

- Pass 1 Results for 84 Labs - - Pass 2 Results for 84 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	13	4.23	0.29	0.07	13	4.23	0.29	0.07
Ammoniacal Nitrogen, Other		001.99	9	4.25	0.13	0.06	9	4.25	0.13	0.06
Method Group 001.XX PCT			22	4.24	0.24	0.07	21	4.21	0.19	0.06
Nitrate Nitrogen, Jones Modified	930.02	002.20	1	4.33	0.01	0.01	1	4.33	0.01	0.01
Nitrate Nitrogen, Other		002.99	8	3.85	0.18	0.08	7	3.88	0.16	0.05
Method Group 002.XX PCT			9	3.90	0.23	0.07	8	3.93	0.22	0.04
Nitrogen From Urea, Urease (as N)	959.03	005.00	1	0.17	0.04	0.06	1	0.17	0.04	0.06
Ammon & Nitrate N, Devarda	892.01	009.10	8	8.12	0.25	0.10	8	8.12	0.25	0.10
Ammon & Nitrate N, Other		009.99	1	8.11	0.01	0.01	1	8.11	0.01	0.01
Method Group 009.XX PCT			9	8.12	0.24	0.09	9	8.12	0.24	0.09
Total Nitrogen, Modified Comprehensive	978.02	010.11	10	8.14	0.12	0.08	9	8.13	0.11	0.06
Total Nitrogen, Salicylic	955.04D	010.12	6	8.03	0.12	0.03	6	8.03	0.12	0.03
Total Nitrogen, Raney	970.03	010.16	1	8.06	0.01	0.01	1	8.06	0.01	0.01
Total Nitrogen, Combustion		010.60	49	8.17	0.15	0.07	47	8.17	0.14	0.06
Total Nitrogen, Other		010.99	3	7.95	0.16	0.17	3	7.95	0.16	0.17
Method Group 010.XX PCT			69	8.15	0.15	0.07	66	8.14	0.15	0.06
Total Phosphate, Grav Quimociac	962.02	020.10	8	15.92	0.16	0.11	7	15.93	0.15	0.07
Total Phosphate, Spectrometric	958.01	020.20	18	16.01	0.22	0.13	17	16.00	0.22	0.11
Total Phosphate, Automated	978.01	020.40	8	16.02	0.09	0.08	8	16.02	0.09	0.08
Total Phosphate, ICP		020.50	3	15.68	0.26	0.08	3	15.68	0.26	0.08
Method Group 020.XX PCT			38	15.95	0.23	0.11	36	15.95	0.22	0.09
Insoluble Phosphate, Grav Quimociac ...	963.03C	030.10	3	0.02	0.03	0.00	3	0.02	0.03	0.00
Insoluble Phosphate, Spectrometric	963.03C	030.20	1	0.06	0.01	0.01	1	0.06	0.01	0.01
Insoluble Phosphate, Automated	978.01	030.40	3	0.02	0.01	0.01	3	0.02	0.01	0.01
Method Group 030.XX PCT			7	0.03	0.02	0.01	7	0.03	0.02	0.01
InDir Available Phosphate, Grav Quim ..	960.02	040.10	2	16.00	0.15	0.13	2	16.00	0.15	0.13
InDir Available Phosphate, Spectrometri	960.02	040.20	3	15.79	0.16	0.07	3	15.79	0.16	0.07
InDir Available Phosphate, Automated ..	960.02	040.40	2	15.98	0.12	0.04	2	15.98	0.12	0.04
InDir Available Phosphate, Other		040.99	2	15.97	0.04	0.06	2	15.97	0.04	0.06
Method Group 040.XX PCT			9	15.92	0.15	0.07	9	15.92	0.15	0.07
Dir Available Phosphate, Grav Quimociac	960.03E	041.10	17	16.03	0.07	0.05	16	16.02	0.06	0.03
Dir Available Phosphate, Spectrometric	960.03D	041.20	3	15.91	0.13	0.06	3	15.91	0.13	0.06
Dir Available Phosphate, Alka Quim	960.03C	041.30	1	15.88	0.07	0.10	1	15.88	0.07	0.10
Dir Available Phosphate, Automated	978.01	041.40	6	15.89	0.15	0.06	5	15.90	0.15	0.02
Dir Available Phosphate, ICP		041.50	9	16.00	0.21	0.12	9	16.00	0.21	0.12
Dir Available Phosphate, EDTA Extract .	993.01	041.60	11	16.00	0.09	0.08	11	16.00	0.09	0.08
Method Group 041.XX PCT			50	15.99	0.15	0.09	48	15.98	0.14	0.07
Water Soluble Phosphate, Grav Quimociac	962.03	048.10	1	14.14	0.06	0.09	1	14.14	0.06	0.09
Water Soluble Phosphate, Spectrometric	970.01	048.20	3	14.40	0.27	0.04	3	14.40	0.27	0.04

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Method	AOAC Ref.	Method Code	No. of Labs	Grand Avg.	Std. Dev.	Average Range of Dups	No. of Labs	Grand Avg.	Std. Dev.	Average Range of Dups
Water Soluble Phosphate, Other		048.99	1	14.72	0.17	0.24	1	14.72	0.17	0.24
Method Group 048.XX PCT			5	14.41	0.29	0.09	5	14.41	0.29	0.09
Soluble Potash, STPB Oxalate	958.02	050.00	23	24.63	0.22	0.09	22	24.63	0.22	0.07
Soluble Potash, STPB Citrate	969.04	050.10	2	24.62	0.26	0.34	2	24.62	0.26	0.34
Soluble Potash, AA (Oxalate)		050.30	10	24.31	0.49	0.29	10	24.31	0.49	0.29
Soluble Potash, ICP (Oxalate)		050.50	6	24.61	0.62	0.29	6	24.61	0.62	0.29
Soluble Potash, ICP (Citrate)		050.51	7	24.44	0.51	0.17	7	24.44	0.51	0.17
Soluble Potash, Flame (Oxalate)	983.02(a)	050.60	5	25.00	0.46	0.21	5	25.00	0.46	0.21
Soluble Potash, Flame (Citrate)	983.02(b)	050.61	9	24.92	0.40	0.15	8	24.83	0.29	0.08
Soluble Potash, Other		050.99	14	24.61	0.67	0.12	14	24.61	0.67	0.12
Method Group 050.XX PCT			77	24.64	0.50	0.17	72	24.61	0.47	0.13
Free Water, Vacuum Oven	965.08B	060.00	8	0.47	0.14	0.08	7	0.47	0.14	0.04
Acid Soluble Calcium, AA	945.04	101.00	14	1.63	0.10	0.04	13	1.63	0.10	0.03
Acid Soluble Calcium, ICP		101.30	21	1.65	0.08	0.03	20	1.64	0.07	0.03
Acid Soluble Calcium, Other		101.99	2	1.57	0.02	0.02	2	1.57	0.02	0.02
Method Group 101.XX PCT			37	1.63	0.09	0.03	36	1.64	0.09	0.03
Acid Soluble Magnesium, AA	984.01	121.00	22	1.64	0.09	0.03	21	1.64	0.09	0.03
Acid Soluble Magnesium, ICP		121.30	22	1.62	0.07	0.03	20	1.62	0.07	0.02
Acid Soluble Magnesium, Titrimetric	964.01	121.70	1	1.68	0.01	0.02	1	1.68	0.01	0.02
Method Group 121.XX PCT			46	1.64	0.09	0.03	43	1.63	0.08	0.03
Water Soluble Magnesium, AA		131.00	3	1.04	0.50	0.03	3	1.04	0.50	0.03
Water Soluble Magnesium, ICP		131.30	1	1.32	0.01	0.01	1	1.32	0.01	0.01
Water Soluble Magnesium, Titrimetric		131.70	1	1.56	0.08	0.11	1	1.56	0.08	0.11
Water Soluble Magnesium, Other		131.99	1	2.07	0.45	0.64	1	2.07	0.45	0.64
Method Group 131.XX PCT			6	1.34	0.54	0.14	5	1.20	0.43	0.04
Sulfur, Gravimetric	980.02a	144.01	7	7.36	0.12	0.06	7	7.36	0.12	0.06
Sulfur, Turbidimetric	63.845	144.50	1	7.39	0.02	0.03	1	7.39	0.02	0.03
Sulfur, Other		144.99	30	7.19	0.34	0.12	27	7.21	0.33	0.06
Method Group 144.XX PCT			39	7.24	0.32	0.10	36	7.26	0.31	0.06
Arsenic, ICP		151.30	4	8.16	0.77	0.58	4	8.16	0.77	0.58
Arsenic, Other		151.99	3	10.82	2.21	0.39	3	10.82	2.21	0.39
Method Group 151.XX PPM			7	9.30	2.01	0.50	7	9.30	2.01	0.50
Acid Soluble Boron, Spectrometric	982.01	165.00	3	0.039	0.010	0.008	3	0.039	0.010	0.008
Acid Soluble Boron, Other		165.99	2	0.050	0.012	0.001	2	0.050	0.012	0.001
Method Group 165.XX PCT			5	0.044	0.012	0.005	4	0.047	0.009	0.001
Cadmium, Atomic Absorption		181.00	5	1.85	0.33	0.06	5	1.85	0.33	0.06
Cadmium, ICP		181.30	9	1.77	0.20	0.10	9	1.77	0.20	0.10
Cadmium, Other		181.99	1	2.00	0.00	0.00	1	2.00	0.00	0.00
Method Group 181.XX PPM			15	1.81	0.25	0.08	14	1.82	0.25	0.07

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Water Soluble Chlorine, Titrimetric ...	928.02	190.00	14	3.50	0.11	0.06	12	3.49	0.10	0.03
Water Soluble Chlorine, Other		190.99	4	3.43	0.06	0.00	4	3.43	0.06	0.00
Method Group 190.XX PCT			19	3.51	0.14	0.05	16	3.47	0.09	0.02
Chromium, Atomic Absorption		191.00	1	54.50	3.54	5.00	1	54.50	3.54	5.00
Chromium, ICP		191.30	9	42.77	5.53	1.38	8	42.65	5.80	0.95
Chromium, Other		191.99	1	51.00	4.24	6.00	1	51.00	4.24	6.00
Method Group 191.XX PPM			11	44.58	6.50	2.13	11	44.58	6.50	2.13
Acid Soluble Cobalt, AA		202.00	1	5.00	0.28	0.40	1	5.00	0.28	0.40
Acid Soluble Cobalt, ICP	965.11	202.30	10	2.21	0.97	0.29	9	2.07	0.90	0.21
Acid Soluble Cobalt, Other		202.99	1	3.00	0.00	0.00	1	3.00	0.00	0.00
Method Group 202.XX PPM			12	2.51	1.19	0.28	11	2.42	1.20	0.21
Acid Soluble Copper, Atomic Absorption	975.01	221.00	4	0.0015	0.0004	0.0001	4	0.0015	0.0004	0.0001
Acid Soluble Copper, ICP		221.30	14	0.0012	0.0003	0.0001	14	0.0012	0.0003	0.0001
Acid Soluble Copper, Other		221.99	2	0.0012	0.0001	0.0001	2	0.0012	0.0001	0.0001
Method Group 221.XX PCT			20	0.0012	0.0003	0.0001	20	0.0012	0.0003	0.0001
Acid Soluble Iron, Atomic Absorption ..	980.01	241.00	17	0.33	0.04	0.01	17	0.33	0.04	0.01
Acid Soluble Iron, ICP		241.30	23	0.34	0.03	0.01	21	0.34	0.03	0.01
Acid Soluble Iron, Other		241.99	1	0.32	0.01	0.01	1	0.32	0.01	0.01
Method Group 241.XX PCT			41	0.33	0.03	0.01	40	0.34	0.03	0.01
Lead, Atomic Absorption		251.00	2	8.22	1.41	0.11	2	8.22	1.41	0.11
Lead, ICP		251.30	10	6.39	1.19	0.70	10	6.39	1.19	0.70
Lead, Other		251.99	3	7.97	0.94	0.59	3	7.97	0.94	0.59
Method Group 251.XX PPM			15	6.95	1.40	0.60	14	7.09	1.30	0.49
Acid Soluble Manganese, AA	972.02a	261.00	19	0.107	0.015	0.005	17	0.106	0.015	0.004
Acid Soluble Manganese, AA	972.02b	261.11	2	0.101	0.011	0.003	2	0.101	0.011	0.003
Acid Soluble Manganese, ICP	972.02a	261.30	19	0.107	0.017	0.005	19	0.107	0.017	0.005
Acid Soluble Manganese, ICP	972.02b	261.31	1	0.115	0.007	0.010	1	0.115	0.007	0.010
Acid Soluble Manganese, Other		261.99	4	0.110	0.010	0.008	4	0.110	0.010	0.008
Method Group 261.XX PCT			45	0.107	0.015	0.006	42	0.108	0.014	0.005
Water Soluble Manganese, Atomic Abs ...	972.03	271.00	1	0.026	0.002	0.003	1	0.026	0.002	0.003
Water Soluble Manganese, ICP	972.03	271.30	1	0.116	0.000	0.001	1	0.116	0.000	0.001
Method Group 271.XX PCT			2	0.071	0.052	0.002	2	0.071	0.052	0.002
Mercury, ICP		281.30	1	10.90	0.28	0.40	1	10.90	0.28	0.40
Molybdenum, ICP		289.30	8	4.62	1.02	0.62	7	4.50	0.92	0.37
Molybdenum, Other		289.99	3	5.02	0.85	0.43	3	5.02	0.85	0.43
Method Group 289.XX PPM			11	4.73	0.98	0.57	10	4.65	0.91	0.39
Nickel, Atomic Absorption		291.00	3	12.53	1.16	0.12	3	12.53	1.16	0.12
Nickel, ICP		291.30	8	11.87	1.99	0.51	8	11.87	1.99	0.51
Nickel, Other		291.99	1	10.75	0.78	1.10	1	10.75	0.78	1.10

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Method Group 291.XX PPM			12	11.94	1.76	0.46	12	11.94	1.76	0.46
Selenium, Other		301.99	2	0.21	0.10	0.02	2	0.21	0.10	0.02
Sodium, Atomic Absorption	983.04	311.00	1	0.44	0.01	0.01	1	0.44	0.01	0.01
Sodium, Flame Photometric	974.01	311.30	2	0.54	0.02	0.03	2	0.54	0.02	0.03
Sodium, Other		311.99	3	0.51	0.02	0.02	3	0.51	0.02	0.02
Method Group 311.XX PCT			6	0.51	0.04	0.02	6	0.51	0.04	0.02
Acid Soluble Zinc, Atomic Absorption ..	975.02	321.00	9	0.121	0.008	0.004	9	0.121	0.008	0.004
Acid Soluble Zinc, ICP		321.30	17	0.124	0.008	0.004	15	0.124	0.008	0.002
Acid Soluble Zinc, Other		321.99	2	0.120	0.009	0.003	2	0.120	0.009	0.003
Method Group 321.XX PCT			28	0.123	0.008	0.004	26	0.123	0.008	0.003
Water Soluble Zinc, Atomic Absorption .		325.00	1	0.066	0.001	0.001	1	0.066	0.001	0.001

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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: 001.XX PCT			Meth: 002.99 PCT			Meth: 009.99 PCT			Meth: 010.11 PCT		
Ammoniacal Nitrogen			<u>Ammoniacal Nitrogen</u>			Nitrate Nitrogen			Ammon & Nitrate N			Total Nitrogen		
<u>MgO Distillation</u>						<u>Other</u>			<u>Other</u>			<u>Modified Comprehensi</u>		
040	7.20 s	10.21	258	4.41	1.18	247	3.63 R	-1.80	Avg	8.11		073	8.01	-1.11
389	4.90	2.33	247	4.33	.70	Meth: 002.XX PCT			257	3.69 S	-625.39	363	8.05	-1.23
090	4.58	1.20	320	4.31	.55	<u>Nitrate Nitrogen</u>			Meth: 009.XX PCT			Meth: 010.12 PCT		
258	4.41	.69	415	4.30	.48	029	4.33	1.81	<u>Ammon & Nitrate N</u>			Total Nitrogen		
415	4.30	.23	096	4.30	.47	251	4.09	.70	258	8.51	1.75	<u>Salicylic</u>		
220	4.25	.12	105	4.29	.42	363	4.05	.56	090	8.40	1.18	137	8.24	1.79
Avg	4.23		394	4.28	.39	Avg	3.93		392	8.22	.44	351	8.07	.38
029	4.22	-.07	397	4.27	.37	394	3.92	-.07	391	8.15	.25	185	8.04	.19
392	4.22	-.13	220	4.25	.28	360	3.91	-.41	Avg	8.12		Avg	8.03	
324	4.16	-.24	392	4.22	.19	105	3.83	-.48	105	8.11	-.02	254	8.00	-.23
251	4.14	-.44	029	4.22	.09	289	3.74	-.89	397	8.08	-.22	102	7.92	-.93
351	4.10	-.45	Avg	4.21		220	3.61	-1.49	415	7.95	-.72	416	7.90	-1.10
309	4.05	-.64	324	4.16	-.26	247	3.63 R	-1.59	309	7.85	-1.14	Meth: 010.16 PCT		
391	4.00	-.81	351	4.10	-.57	Meth: 005.00 PCT			257	7.79	-1.37	Total Nitrogen		
372	3.69	-1.88	251	4.14	-.59	Nitrogen From Urea			Meth: 010.10 PCT			<u>Raney</u>		
Meth: 001.99 PCT			289	4.11	-.74	<u>Urease (as N)</u>			Total Nitrogen			Meth: 010.60 PCT		
Ammoniacal Nitrogen			309	4.05	-.88	247	0.17	.71	<u>Reduced Iron</u>			Total Nitrogen		
<u>Other</u>			391	4.00	-1.13	Meth: 009.10 PCT			072	5.71 S	.00	Combustion		
418	7.78 s	28.12	363	4.00	-1.15	Ammon & Nitrate N			114	8.60 S	.00	095 8.46 R 2.26		
376	4.39	1.10	372	3.69	-2.78	<u>Devarda</u>			Avg	0.00		043 8.43 1.89		
247	4.33	.74	Meth: 002.20 PCT			258 8.51 1.65			Meth: 010.11 PCT			022 8.39 1.55		
320	4.31	.47	Nitrate Nitrogen			090 8.40 1.11			Total Nitrogen			394 8.39 1.55		
096	4.30	.36	<u>Jones Modified</u>			392 8.22 .41			<u>Modified Comprehensi</u>			007 8.37 1.51		
105	4.29	.29	029	4.33	.71	391 8.15 .24			090 8.92 s 7.24			292 8.37 1.45		
397	4.27	.26	Meth: 002.99 PCT			Avg 8.12			309 8.25 R 1.76			037 8.37 1.39		
394	4.28	.24	Nitrate Nitrogen			415 7.95 -.68			211 8.29 1.48			041 8.34 1.29		
Avg	4.25		<u>Other</u>			309 7.85 -1.07			405 8.27 1.31			157 8.33 1.13		
289	4.11	-1.39	251	4.09	1.27	257 7.79 -1.29			105 8.21 .78			073 8.32 1.06		
363	4.00	-2.06	363	4.05	1.06	Meth: 009.99 PCT			220 8.13 -.06			023 8.29 .86		
Meth: 001.XX PCT			360	3.91	.55	Ammon & Nitrate N			322 8.11 -.23			177 8.27 .70		
<u>Ammoniacal Nitrogen</u>			394	3.92	.27	<u>Other</u>			029 8.10 -.27			402 8.25 .70		
418	7.78 s	19.02	Avg	3.88		105 8.11 .71			414 8.02 X -1.05			040 8.20 .64		
040	7.20 s	15.90	105	3.83	-.29	Meth: 009.99 PCT			096 8.23 .40					
389	4.90 A	3.72	289	3.74	-.83	Ammon & Nitrate N								
090	4.58	1.98	220	3.61	-1.62	<u>Other</u>								
* 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: 010.60 PCT			Meth: 010.99 PCT			Meth: 010.XX PCT			Meth: 010.XX PCT			Meth: 020.20 PCT		
Total Nitrogen			Total Nitrogen			Total Nitrogen			Total Nitrogen			Total Phosphate		
<u>Combustion</u>			<u>Other</u>						<u>Spectrometric</u>					
070	8.23	.40	105	8.09	1.28	377	8.15	.32	018	7.92	-1.57	324	15.97	-.39
131	8.23	.39	Avg	7.95		220	8.18	.29	360	7.92	-1.66	416	15.77	-1.06
025	8.22	.32	177	7.93	-.14	049	8.16	.19	416	7.90	-1.67	397	15.76 X	-1.10
028	8.21	.29	289	7.85	-.92	247	8.15	.17	289	7.85	-2.11	258	15.77	-1.11
029	8.21	.29	354	7.56 S	-2.94	296	8.16	.15	376	7.75	-2.66	220	15.73	-1.25
390	8.19	.27				055	8.16	.15	354	7.56 s	-4.29	309	15.65	-1.63
220	8.18	.18	Meth: 010.XX PCT			106	8.14	.07	072	5.71 s	-16.56	262	15.35 S	-3.08
Avg	8.17		Total Nitrogen			009	8.14	.07	Meth: 020.10 PCT					
296	8.16	-.09	090	8.92 s	5.33	409	8.15	.05	Total Phosphate			Meth: 020.40 PCT		
055	8.16	-.14	114	8.60 s	3.21	Avg	8.14		<u>Grav Quimociac</u>			Total Phosphate		
049	8.16	-.15	095	8.46 R	2.38	220	8.13	-.11	090	16.12	1.35	<u>Automated</u>		
409	8.15	-.17	043	8.43	2.03	027	8.11	-.20	095	16.08	1.10	193	16.13	1.24
106	8.14	-.22	022	8.39	1.71	372	8.11	-.21	405	15.94	.35	105	16.04	1.07
009	8.14	-.22	394	8.39	1.71	322	8.11	-.23	300	15.96	.19	394	16.10	.92
247	8.15	-.24	007	8.37	1.66	361	8.11	-.24	Avg	15.93		035	16.03	.71
377	8.15	-.33	292	8.37	1.61	029	8.10	-.27	114	15.89	-.34	Avg	16.02	
251	8.15	-.37	037	8.37	1.55	034	8.10	-.27	313	15.88	-.41	409	16.02	-.53
027	8.11	-.41	041	8.34	1.45	232	8.10	-.30	105	15.81 R	-1.73	247	15.97	-.61
372	8.11	-.42	157	8.33	1.30	324	8.12	-.30	157	15.68	-1.74	320	15.99	-.79
361	8.11	-.44	309	8.25 R	1.27	381	8.09	-.31	Meth: 020.20 PCT			096	15.90	-1.49
324	8.12	-.44	073	8.32	1.23	233	8.07	-.44	Total Phosphate			376	15.41 s	-7.17
034	8.10	-.48	211	8.29	1.04	035	8.09	-.44	<u>Spectrometric</u>			Meth: 020.50 PCT		
232	8.10	-.50	023	8.29	1.03	351	8.07	-.45	234	17.22 s	5.62	Total Phosphate		
381	8.09	-.52	405	8.27	.91	419	8.06	-.58	418	16.39	1.91	<u>ICP</u>		
035	8.09	-.64	177	8.27	.88	072	8.09	-.63	390	16.18 R	1.38	330	16.98 S	5.03
233	8.07	-.66	402	8.25	.84	234	8.05	-.65	362	16.29	1.37	361	16.00	1.25
072	8.09	-.79	137	8.24	.74	185	8.04	-.69	391	16.20	1.03	Avg	15.68	
234	8.05	-.87	040	8.20	.73	275	8.11	-.78	257	16.10	.79	402	15.56	-.57
275	8.11 R	-.87	070	8.23	.59	414	8.02 X	-.85	420	16.14	.69	389	15.48	-.78
330	8.05	-1.09	096	8.23	.59	325	8.02	-.87	392	16.10	.44	Meth: 020.XX PCT		
325	8.02	-1.09	131	8.23	.58	073	8.01	-.90	232	16.06	.43	<u>Total Phosphate</u>		
389	7.93	-1.67	105	8.21	.52	330	8.05	-.92	381	16.08	.37	234	17.22 s	5.73
018	7.92	-1.81	025	8.22	.51	254	8.00	-.95	292	16.07	.32	330	16.98 s	4.66
360	7.92	-1.90	029	8.21	.48	363	8.05	-.96	363	16.02	.31	418	16.39	2.09
376	7.75	-2.93	028	8.21	.48	105	8.09 R	-1.12	Avg	16.00		362	16.29	1.57
			390	8.19	.39	177	7.93	-1.40	372	15.93	-.36	A=Analysis beyond 3-s limits		
			251	8.15	.35	389	7.93	-1.43						
						102	7.92	-1.53						

* 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. - 200304

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 020.XX PCT			Meth: 030.10 PCT			Meth: 040.10 PCT			Meth: 041.10 PCT			Meth: 041.40 PCT		
<u>Total Phosphate</u>			<u>Insoluble Phosphate</u>			<u>InDir Available Phos</u>			<u>Dir Available Phosph</u>			<u>Dir Available Phosph</u>		
390	16.18 R	1.51	405	0.06	1.28	405	15.88	-.83	185	16.09 R	2.20	072	16.40 S	3.43
391	16.20	1.22	Avg 0.02			<u>Grav Quim</u>			137	16.15	2.08	034	16.03	.87
257	16.10	.93	320	0.01	-.52	Meth: 040.20 PCT			041	16.11	1.41	025	16.03	.87
420	16.14	.89	090	0.00	-.76	<u>InDir Available Phos</u>			105	16.08	.93	131	15.98	.54
090	16.12	.83	Meth: 030.20 PCT			<u>Spectrometri</u>			211	16.06	.89	Avg 15.90		
193	16.13	.81	<u>Insoluble Phosphate</u>			289	15.99	1.29	009	16.06	.52	029	15.77	-.88
394	16.10	.69	<u>Spectrometric</u>			Avg 15.79			029	16.05	.36	105	15.86 R	-.97
392	16.10	.67	363	0.31 S	35.70	363	15.71	-.57	322	16.04	.33	027	15.69	-1.39
095	16.08	.67	220	0.06	.71	220	15.68	-.72	177	16.04	.24	Meth: 041.50 PCT		
381	16.08	.60	Avg 0.06			Meth: 040.40 PCT			Avg 16.02			<u>Dir Available Phosph</u>		
232	16.06	.59	Meth: 030.40 PCT			<u>InDir Available Phos</u>			296	16.00	-.49	<u>ICP</u>		
105	16.04	.58	<u>Insoluble Phosphate</u>			<u>Automated</u>			131	16.00	-.51	023	16.34	1.62
292	16.07	.55	<u>Automated</u>			394	16.08	.84	055	15.99	-.55	070	16.33	1.55
035	16.03	.46	247	0.02	1.12	Avg 15.98			040	16.01	-.77	251	16.05	.53
363	16.02	.42	409	0.03	.79	096	15.89	-.89	102	15.97	-.83	Avg 16.00		
324	15.97	.37	Avg 0.02			Meth: 040.99 PCT			028	15.97	-.93	393	15.99	-.19
409	16.02	.36	096	0.02	-.79	<u>InDir Available Phos</u>			233	15.94	-1.41	354	15.98	-.21
320	15.99	.33	Meth: 030.XX PCT			<u>Other</u>			072	15.94	-1.43	360	15.93	-.66
361	16.00	.24	<u>Insoluble Phosphate</u>			409	15.99	1.04	254	15.70 s	-5.17	007	15.87	-.70
247	15.97	.11	<u>Automated</u>			Avg 15.97			022	15.80 s	-5.24	325	15.79	-1.02
300	15.96	.05	363	0.31 s	12.35	247	15.95	-.65	414	6.96 s	-145.03	361	15.78	-1.08
Avg	15.95		405	0.06	1.49	Meth: 040.XX PCT			Meth: 041.20 PCT			Meth: 041.60 PCT		
372	15.93	-.15	220	0.06	1.29	<u>InDir Available Phos</u>			<u>Dir Available Phosph</u>			<u>Dir Available Phosph</u>		
405	15.94	-.23	Avg 0.03			<u>Spectrometric</u>			415 18.20 S 17.96			<u>EDTA Extract</u>		
096	15.90	-.28	409	0.03	-.22	090	16.12	1.38	397	16.00	.75	018	16.30 s	4.18
114	15.89	-.29	247	0.02	-.51	394	16.08	1.06	362	15.97	.51	177	16.02	1.36
313	15.88	-.34	096	0.02	-.53	289	15.99	.57	Avg 15.91			095	16.10	1.15
416	15.77	-.80	320	0.01	-.83	409	15.99	.54	419	15.75	-1.29	351	16.07	.82
397	15.76 X	-.84	090	0.00	-1.14	247	15.95	.25	Meth: 041.30 PCT			028	16.06	.68
258	15.77	-.86	Meth: 040.10 PCT			Avg 15.92			<u>Dir Available Phosph</u>			220	16.03	.32
220	15.73	-.99	<u>InDir Available Phos</u>			096	15.89	-.32	<u>Alka Quim</u>			Avg 16.00		
105	15.81 R	-1.17	<u>Grav Quim</u>			405	15.88	-.41	260	15.88	.71	073	16.00	-.12
157	15.68	-1.21	090	16.12	.90	363	15.71	-1.41	Meth: 041.40 PCT			043	15.99	-.38
309	15.65	-1.36	Avg 16.00			220	15.68	-1.60	<u>Dir Available Phosph</u>			296	15.97	-.43
402	15.56	-1.82	S/s=Screened Outlier			R=Duplicate Range too large			A=Analysis beyond 3-s limits			037	15.99	-.45
389	15.48	-2.14												
376	15.41	-2.45												
262	15.35 s	-2.78												

MAGRUDER - Fertilizer Check Sample No. - 200304

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 041.60 PCT			Meth: 041.XX PCT			Meth: 048.99 PCT			Meth: 050.00 PCT			Meth: 050.51 PCT		
<u>Dir Available Phosph</u>			<u>Dir Available Phosph</u>			<u>Water Soluble Phosph</u>			<u>Soluble Potash</u>			<u>Soluble Potash</u>		
<u>EDTA Extract</u>			Avg 15.98			<u>Other</u>			<u>STPB Oxalate</u>			<u>ICP (Citrate)</u>		
106	15.96	-1.05	131	15.98	-.08	275	14.72 X	.71	233	24.27	-1.70	023	25.05	1.25
049	15.86	-2.10	102	15.97	-.09	Meth: 048.XX PCT			372	24.10	-2.40	070	24.99	1.06
377	15.44 s	-6.55	296	15.97	-.13	<u>Water Soluble Phosph</u>			Meth: 050.10 PCT			389	24.80	.72
Meth: 041.XX PCT			028	15.97	-.13	275	14.72 X	1.14	<u>Soluble Potash</u>			377	24.45	.10
<u>Dir Available Phosph</u>			362	15.97	-.17	193	14.73	1.08	<u>STPB Citrate</u>			Avg	24.44	
415	18.20 s	16.11	354	15.98	-.28	Avg	14.41		022	24.62	.08	393	24.16	-.55
072	16.40 s	3.15	072	15.94	-.36	362	14.37	-.17	Avg	24.62		361	23.88	-1.10
018	16.30 R	2.72	233	15.94	-.38	363	14.14	-.98	322	24.62	-1.22	007	23.78	-1.33
023	16.34	2.65	106	15.96	-.60	247	14.12	-1.02	Meth: 050.30 PCT			Meth: 050.60 PCT		
070	16.33	2.54	260	15.88	-.83	Meth: 050.00 PCT			<u>Soluble Potash</u>			<u>Soluble Potash</u>		
137	16.15	1.22	360	15.93	-.93	<u>Soluble Potash</u>			<u>AA (Oxalate)</u>			<u>Flame (Oxalate)</u>		
185	16.09	1.17	007	15.87	-.94	<u>STPB Oxalate</u>			363	25.10	1.88	415	25.72	1.67
041	16.11	.93	049	15.86	-1.20	193	25.45 s	3.78	405	24.89	1.20	390	25.22	.46
251	16.05	.89	105	15.86	-1.35	131	25.07	1.95	381	24.61	.63	Avg	25.00	
177	16.02	.88	325	15.79	-1.42	211	24.87	1.07	040	24.42	.46	105	24.76	-.53
095	16.10	.85	361	15.78	-1.51	391	24.70 R	.95	Avg	24.31		114	24.73	-.65
105	16.08	.71	029	15.77	-1.55	009	24.84	.93	234	24.28	-.18	309	24.60	-.89
351	16.07	.64	419	15.75	-1.73	073	24.84	.92	185	24.20	-.30	Meth: 050.61 PCT		
211	16.06	.62	254	15.70	-2.05	392	24.80	.74	397	24.00	-.69	<u>Soluble Potash</u>		
028	16.06	.55	027	15.69	-2.11	043	24.77	.72	137	23.91	-.81	<u>Flame (Citrate)</u>		
009	16.06	.53	022	15.80 R	-2.18	416	24.77	.64	095	24.02	-.93	018	25.65 R	3.04
029	16.05	.45	377	15.44 s	-3.94	049	24.73	.55	351	23.65	-1.35	025	25.27	1.50
322	16.04	.40	414	6.96 s	-65.50	345	24.72	.43	Meth: 050.50 PCT			035	25.10	.95
177	16.04	.40	Meth: 048.10 PCT			257	24.68	.28	<u>Soluble Potash</u>			028	24.93	.37
040	16.01	.36	<u>Water Soluble Phosph</u>			102	24.68	.22	<u>ICP (Oxalate)</u>			041	24.91	.32
034	16.03	.35	<u>Grav Quimociac</u>			029	24.68	.20	251	26.57 S	3.24	037	24.92	.31
025	16.03	.34	363	14.14	.71	Avg	24.63		324	25.33	1.17	Avg	24.83	
220	16.03	.33	Meth: 048.20 PCT			090	24.61	-.10	292	25.19	.96	029	24.65	-.65
393	15.99	.27	<u>Water Soluble Phosph</u>			220	24.60	-.29	106	24.94	.66	105	24.46	-1.28
037	15.99	.25	<u>Spectrometric</u>			296	24.63	-.43	Avg	24.61		034	24.42	-1.40
043	15.99	.22	193	14.73	1.18	258	24.52	-.55	354	24.30	-.66	Meth: 050.99 PCT		
296	16.00	.19	Avg	14.40		418	24.50	-.60	157	24.01	-.98	<u>Soluble Potash</u>		
397	16.00	.17	362	14.37	-.15	095	24.45	-.82	402	23.90	-1.17	<u>Other</u>		
073	16.00	.14	247	14.12	-1.04	055	24.42	-.98	Meth: 050.00 PCT			275	25.69 X	1.64
131	16.00	.14	Meth: 048.10 PCT			072	24.36	-1.22	<u>Soluble Potash</u>			* X=Excluded from lab performance S/s=Screened Outlier R=Duplicate Range too large A=Analysis beyond 3-s limits		
055	15.99	.09	<u>Water Soluble Phosph</u>			Meth: 050.00 PCT			<u>AA (Oxalate)</u>					
* 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. - 200304

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 050.99 PCT			Meth: 050.XX PCT			Meth: 050.XX PCT			Meth: 101.00 PCT			Meth: 101.30 PCT		
<u>Soluble Potash</u>			<u>Soluble Potash</u>			<u>Soluble Potash</u>			Acid Soluble Calcium			Acid Soluble Calcium		
<u>Other</u>									<u>AA</u>			<u>ICP</u>		
072	25.45	1.27	037	24.92	.66	072	24.36	-.54	029	2.05 S	4.37	360	1.59	-.73
360	25.27	.98	041	24.91	.65	040	24.42	-.59	137	1.78	1.57	394	1.58	-.81
300	25.09	.72	405	24.89	.61	289	24.28	-.74	055	1.77	1.48	023	1.58	-.85
177	24.99	.56	211	24.87	.55	234	24.28	-.74	390	1.68	.74	389	1.56	-1.04
325	24.73	.18	009	24.84	.49	233	24.27	-.77	177	1.69	.57	102	1.53	-1.47
027	24.72	.17	073	24.84	.49	394	24.21	-.85	397	1.68	.52	354	1.47	-2.39
232	24.71	.16	391	24.70	.47	354	24.30	-.88	289	1.66	.37			
Avg	24.61		389	24.80	.46	185	24.20	-.90	095	1.67	.36			
260	24.54	-.30	392	24.80	.40	393	24.16	-.96	Avg	1.63		Meth: 101.70 PCT		
289	24.28	-.52	043	24.77	.38	372	24.10	-1.10	073	1.61	-.31	Acid Soluble Calcium		
394	24.21	-.60	416	24.77	.35	157	24.01	-1.30	040	1.60	-.41	<u>Titrimetric</u>		
419	23.75	-1.30	114	24.73	.35	397	24.00	-1.34	037	1.58	-.54	415	2.04 S	.00
376	23.61	-1.51	105	24.76	.31	095	24.02 R	-1.47	296	1.54	-.98	Meth: 101.99 PCT		
247	23.54	-1.61	049	24.73	.30	137	23.91	-1.50	220	1.57 R	-1.23	Acid Soluble Calcium		
			325	24.73	.27	402	23.90	-1.55	262	1.50	-1.43	<u>Other</u>		
			345	24.72	.25	361	23.88	-1.57	043	1.47	-1.69	157	1.57	.36
			027	24.72	.25	007	23.78	-1.81	090	1.35 S	-3.00	Avg	1.57	
			232	24.71	.23	419	23.75	-1.84				232	1.56	-1.17
			296	24.63	.21	351	23.65	-2.06						
			257	24.68	.17	376	23.61	-2.15	Meth: 101.30 PCT					
			102	24.68	.15	247	23.54	-2.29	Acid Soluble Calcium					
			029	24.68	.14				<u>ICP</u>					
			029	24.65	.12	Meth: 060.00 PCT			330	1.83 R	2.75	029	2.05 s	4.74
			022	24.62	.05	Free Water			320	1.75	1.58	415	2.04 s	4.68
			090	24.61	.02	<u>Vacuum Oven</u>			324	1.74	1.44	330	1.83	2.31
			Avg	24.61		363	0.72	1.86	409	1.73	1.32	137	1.78	1.66
			220	24.60	-.12	320	0.53 R	1.40	070	1.70	.89	055	1.77	1.57
			381	24.61	-.14	193	0.55	.58	361	1.70	.88	320	1.75	1.33
			309	24.60	-.21	247	0.53	.57	131	1.67	.52	324	1.74	1.21
			258	24.52	-.22	Avg	0.47		251	1.66	.43	409	1.73	1.11
			418	24.50	-.24	007	0.39	-.56	393	1.65	.30	390	1.68	.78
			105	24.46	-.33	416	0.39	-.60	096	1.66	.27	070	1.70	.75
			095	24.45	-.35	361	0.38	-.67	376	1.65	.14	361	1.70	.74
			377	24.45	-.36	362	0.32	-1.12	009	1.64	.05	177	1.69	.57
			034	24.42	-.40				Avg	1.64		397	1.68	.52
			055	24.42	-.42				035	1.64	-.07	131	1.67	.44
			260	24.54	-.43				419	1.62	-.22	251	1.66	.36
									106	1.63	-.25	289	1.66	.36

MAGRUDER - Fertilizer Check Sample No. - 200304

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 101.XX PCT			Meth: 121.00 PCT			Meth: 121.30 PCT			Meth: 121.XX PCT			Meth: 131.30 PCT		
<u>Acid Soluble Calcium</u>			<u>Acid Soluble Magnesi</u>			<u>Acid Soluble Magnesi</u>			<u>Acid Soluble Magnesi</u>			<u>Water Soluble Magnes</u>		
095	1.67	.34	<u>AA</u>			<u>ICP</u>			Avg	1.63		<u>ICP</u>		
393	1.65	.26	390	1.64	.44	389	1.59	-.52	029	1.63	-.11	360	1.32	.71
096	1.66	.23	296	1.67	.35	023	1.57	-.74	043	1.63	-.13			
376	1.65	.12	397	1.66	.25	106	1.56	-.85	394	1.62	-.18	Meth: 131.70 PCT		
009	1.64	.04	Avg	1.64		232	1.56	-1.04	361	1.62	-.21	Water Soluble Magnes		
Avg	1.64		043	1.63	-.15	354	1.58 R	-1.14	102	1.61	-.26	<u>Titrimetric</u>		
035	1.64	-.06	029	1.63	-.16	157	1.51	-1.64	257	1.61	-.28	415	1.56	.71
419	1.62	-.18	040	1.62	-.30	393	1.49	-1.91	040	1.62	-.29			
106	1.63	-.21	220	1.62	-.32				220	1.62	-.29	Meth: 131.99 PCT		
073	1.61	-.39	257	1.61	-.32	Meth: 121.70 PCT			320	1.60	-.36	Water Soluble Magnes		
040	1.60	-.50	137	1.60	-.44	<u>Acid Soluble Magnesi</u>			309	1.60	-.40	<u>Other</u>		
360	1.59	-.61	309	1.60	-.44	<u>Titrimetric</u>			137	1.60	-.40	040	2.07	-.71
037	1.58	-.65	289	1.58	-.72	415	1.68	.71	324	1.60	-.47			
394	1.58	-.68	258	1.57	-.78	Meth: 121.XX PCT			009	1.59	-.51	Meth: 131.XX PCT		
023	1.58	-.71	381	1.48	-1.82	<u>Acid Soluble Magnesi</u>			419	1.59	-.52	<u>Water Soluble Magnes</u>		
157	1.57	-.73	095	1.43	-2.37	363	1.86 s	3.40	389	1.59	-.61	040	2.07 R	2.15
389	1.56	-.87	193	0.41 s	-13.59	360	1.83	2.39	289	1.58	-.70	415	1.56	.84
232	1.56	-.90				262	1.82	2.16	258	1.57	-.77	220	1.41	.48
296	1.54	-1.12	Meth: 121.30 PCT			055	1.77	1.57	023	1.57	-.78	289	1.32	.29
102	1.53	-1.23	<u>Acid Soluble Magnesi</u>			037	1.75	1.37	106	1.56	-.88	360	1.32	.27
220	1.57 R	-1.38	<u>ICP</u>			330	1.75	1.31	232	1.56	-1.00	Avg	1.20	
262	1.50	-1.63	360	1.83 s	3.29	391	1.74	1.25	354	1.58 R	-1.02	193	0.40	-1.85
043	1.47	-1.91	330	1.75	1.93	090	1.71 R	1.22	157	1.51	-1.50			
354	1.47	-2.00	300	1.67 R	1.45	300	1.67 R	1.04	393	1.49	-1.71	Meth: 144.01 PCT		
090	1.35 s	-3.34	035	1.71	1.41	035	1.71	.90	381	1.48	-1.88	Sulfur		
			131	1.71	1.38	131	1.71	.89	095	1.43	-2.47	<u>Gravimetric</u>		
			070	1.69	1.03	392	1.69	.67	193	0.41 s	-14.47	043	7.85 s	4.16
			409	1.67	.86	070	1.69	.60				102	7.52	1.37
Meth: 121.00 PCT			251	1.66	.65	177	1.68	.59	Meth: 131.00 PCT			324	7.40	.71
<u>Acid Soluble Magnesi</u>			096	1.65	.43	415	1.68	.55	<u>Water Soluble Magnes</u>			055	7.41	.67
<u>AA</u>			361	1.62	.16	073	1.67	.55	<u>AA</u>			157	7.44	.66
363	1.86 s	3.14	394	1.62	.09	409	1.67	.48	220	1.41	.73	Avg	7.36	
262	1.82	1.96	Avg	1.62		390	1.64	.48	289	1.32	.56	095	7.30	-.59
055	1.77	1.41	102	1.61	-.08	296	1.67	.44	Avg	1.04		233	7.29	-.60
037	1.75	1.22	320	1.60	-.19	397	1.66	.32	193	0.40	-1.28	106	7.18	-1.58
391	1.74	1.11	009	1.59	-.38	251	1.66	.30						
090	1.71 R	1.10	324	1.60	-.39	096	1.65	.14						
392	1.69	.57	419	1.59	-.40									
177	1.68	.49												
073	1.67	.48												
* 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. - 200304

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 144.50 PCT			Meth: 144.XX PCT			Meth: 144.XX PCT			Meth: 165.00 PCT			Meth: 181.30 PPM		
Sulfur			Sulfur			Sulfur			Acid Soluble Boron			Cadmium		
<u>Turbidimetric</u>						<u>Sulfur</u>			<u>Spectrometric</u>			<u>ICP</u>		
289	7.39	.71	251	7.93	2.16	232	6.54	-2.36	258	0.030	-1.41	Avg	1.77	
			043	7.85	1.88	247	6.47	-2.60				324	1.65	-.67
			330	7.59	1.04	409	6.04 s	-3.97				296	1.75	-.77
			220	7.53	.86				Meth: 165.99 PCT			232	1.60	-.88
Meth: 144.99 PCT			037 7.53 .85			Meth: 151.30 PPM			Acid Soluble Boron			035	1.48	-1.52
Sulfur			102 7.52 .83			Arsenic			<u>Other</u>					
<u>Other</u>						<u>ICP</u>			009 0.061 .87					
251	7.93	2.20	351	7.49	.74	247	8.90	.95	Avg 0.050			Meth: 181.99 PPM		
330	7.59	1.14	260	7.47	.67	102	8.40	.41	300 0.040 -.86			Cadmium		
220	7.53	.97	157	7.44	.56	Avg	8.16		Meth: 165.XX PCT			<u>Other</u>		
037	7.53	.96	055	7.41	.51	296	8.10	-.27	<u>Acid Soluble Boron</u>			409 2.00 .00		
354	7.22 R	.87	324	7.40	.49	106	7.25	-1.53	009 0.061 1.58			Meth: 181.XX PPM		
351	7.49	.86	394	7.41	.48				Avg 0.047			<u>Cadmium</u>		
260	7.47	.79	070	7.39	.42	Meth: 151.99 PPM			392 0.045 -.25			376 4.43 s 10.34		
394	7.41	.61	289	7.39	.39	Arsenic			391 0.042 -.57			193 2.40 2.30		
070	7.39	.55	035	7.38	.38	<u>Other</u>			300 0.040 -.79			106 2.10 1.18		
035	7.38	.52	360	7.36	.35	040	12.85	.92	258 0.030 R -2.22			363 2.00 .72		
028	7.37	.48	028	7.37	.34	409	11.50	.38	Meth: 181.00 PPM			409 2.00 .72		
360	7.36	.48	296	7.29	.18	Avg	10.82		Cadmium			419 1.97 .60		
389	7.31	.30	389	7.31	.15	220	8.11	-1.23	Atomic Absorption			Avg 1.82		
296	7.29	.28	095	7.30	.13	Meth: 151.XX PPM			376 4.43 S 7.73			009 1.80 -.08		
177	7.27	.19	233	7.29	.09	Arsenic			193 2.40 1.64			102 1.81 -.15		
029	7.26	.13	177	7.27	.06	040	12.85	1.76	363 2.00 .44			247 1.80 -.40		
Avg	7.21		Avg	7.26		409	11.50	1.12	Avg 1.85			394 1.68 -.56		
405	7.19	-.08	029	7.26	-.03	Avg	9.30		394 1.68 -.52			296 1.75 R -.65		
009	7.20	-.17	405	7.19	-.24	247	8.90	-.20	220 1.60 -.81			324 1.65 -.70		
397	7.18	-.24	009	7.20	-.27	102	8.40	-.46	397 1.58 -.82			232 1.60 -.87		
363	7.10	-.37	106	7.18	-.29	220	8.11	-.59	Meth: 181.30 PPM			397 1.58 -.95		
137	7.04	-.56	397	7.18	-.35	296	8.10	-.60	Cadmium			220 1.60 -.95		
096	7.03	-.56	363	7.10	-.55	106	7.25	-1.08	ICP			035 1.48 -1.37		
131	6.93	-.87	137	7.04	-.75	Meth: 165.00 PCT			106 2.10 1.73			Meth: 190.00 PCT		
361	6.90	-.98	096	7.03	-.76	Acid Soluble Boron			419 1.97 1.00			Water Soluble Chlori		
023	6.83	-1.21	354	7.22 R	-.93	<u>Spectrometric</u>			247 1.80 .53			<u>Titrimetric</u>		
376	6.78	-1.34	131	6.93	-1.08	392	0.045	.64	102 1.81 .28			391 3.92 s 4.43		
090	6.81 R	-1.37	361	6.90	-1.19	391	0.042	.33	009 1.80 .14			392 3.68 1.94		
300	6.88 R	-1.57	023	6.83	-1.44	Avg	0.039		Meth: 181.30 PPM			258 3.61 R 1.84		
232	6.54	-2.08	376	6.78	-1.58				Cadmium					
247	6.47	-2.31	090	6.81 R	-1.59				Avg					
409	6.04 S	-3.61	300	6.88 R	-1.77				106 2.10 1.73					
* 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. - 200304

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index			
Meth: 190.00 PCT			Meth: 190.XX PCT			Meth: 191.XX PPM			Meth: 202.XX PPM			Meth: 221.30 PCT					
<u>Water Soluble Chlori</u>			<u>Water Soluble Chlori</u>			<u>Chromium</u>			<u>Acid Soluble Cobalt</u>			<u>Acid Soluble Copper</u>					
<u>Titrimetric</u>			<u>ICP</u>			<u>AA</u>			<u>Atomic Absorption</u>			<u>ICP</u>					
220	3.65	1.61	296	3.46	-.16	409	51.00	1.09	193	5.00	2.16	324	0.0011	-.50			
257	3.54 R	1.29	009	3.46	-.22	096	51.50	1.07	096	3.50 R	1.00	393	0.0010	-.52			
023	3.55	.63	043	3.45	-.35	009	50.35	.89	106	3.45	.89	292	0.0010	-.86			
029	3.53	.43	040	3.42	-.71	Avg	44.58		009	3.05	.53	419	0.0006	-2.12			
Avg	3.49		095	3.38	-1.03	247	44.00	-.18	409	3.00	.49						
055	3.49	-.21	394	3.38	-1.09	393	42.55	-.31	419	2.55	.12	Meth: 221.99 PCT					
102	3.47	-.23	360	3.37	-1.14	419	42.50	-.33	Avg	2.42		Acid Soluble Copper					
028	3.47	-.23	027	3.36	-1.30	102	43.69	-.40	040	2.10	-.27	Other					
296	3.46	-.31	Meth: 191.00 PPM			035	38.45	-.94	247	2.05	-.33	409	0.0013	.87			
043	3.45	-.47	Chromium			232	37.00	-1.18	102	2.05	-.35	Avg	0.0012				
040	3.42	-.82	<u>Atomic Absorption</u>			324	34.85	-1.50	232	1.62	-.68	220	0.0012	-.87			
394	3.38	-1.20	193	54.50	.71	Meth: 202.00 PPM			324	1.40	-.86						
027	3.36	-1.40	Meth: 191.30 PPM			Acid Soluble Cobalt			320	0.35	-1.73	Meth: 221.XX PCT					
Meth: 190.99 PCT			Chromium			<u>AA</u>			Meth: 221.00 PCT			<u>Acid Soluble Copper</u>					
<u>Water Soluble Chlori</u>			<u>ICP</u>			193			5.00	.71	Acid Soluble Copper			354	0.0025 s	4.24	
<u>Other</u>			376	170.85 s	22.08	Meth: 202.30 PPM			Atomic Absorption			029	0.0020	1.18	029	0.0020	2.37
397	3.51	1.33	096	51.50	1.53	Acid Soluble Cobalt			043	0.0018	.60	043	0.0018	1.59	106	0.0017	1.46
009	3.46	.44	009	50.35	1.33	<u>ICP</u>			Avg	0.0015		330	0.0016	1.07	330	0.0016	1.07
Avg	3.43		102	43.69 R	.45	096	3.50 R	1.69	193	0.0013	-.60	009	0.0015	.65	009	0.0015	.65
095	3.38	-.80	247	44.00	.29	106	3.45	1.56	390	0.0010	-1.18	157	0.0013	.16	157	0.0013	.16
360	3.37	-.96	Avg	42.65		009	3.05	1.09	Meth: 221.30 PCT			193	0.0013	.16	409	0.0013	.16
Meth: 190.XX PCT			393	42.55	-.05	419	2.55	.54	Acid Soluble Copper			409	0.0013	.16	Avg		0.0012
<u>Water Soluble Chlori</u>			419	42.50	-.09	040	2.10	.03	<u>ICP</u>			035	0.0012	-.14	247	0.0012	-.14
391	3.92 A	4.81	035	38.45	-.72	Avg	2.07		354	0.0025 s	5.17	247	0.0012	-.14	220	0.0012	-.34
392	3.68	2.20	232	37.00	-.99	247	2.05	-.17	106	0.0017	1.94	102	0.0012	-.34	102	0.0012	-.34
258	3.61 R	2.04	324	34.85	-1.34	102	2.05	-.22	330	0.0016	1.47	040	0.0012	-.48	096	0.0011	-.55
220	3.65	1.86	Meth: 191.99 PPM			232	1.62	-.52	009	0.0015	1.00	040	0.0012	-.53	232	0.0011	-.57
257	3.54 R	1.43	Chromium			324	1.40	-.75	040	0.0012	.53	096	0.0011	-.55	324	0.0011	-.63
023	3.55	.81	<u>Other</u>			320	0.35	-1.91	157	0.0013	.32	232	0.0011	-.57	393	0.0010	-.65
029	3.53	.61	409	51.00	.71	Meth: 202.99 PPM			035	0.0012	.08	390	0.0010	-.77	390	0.0010	-.77
397	3.51	.39	Meth: 191.XX PPM			Acid Soluble Cobalt			247	0.0012	.08	292	0.0010	-.94	419	0.0006	-2.03
055	3.49	.27	Chromium			<u>Other</u>			Avg	0.0012		102	0.0012	-.21			
Avg	3.47		376	170.85 s	19.42	409	3.00	.00	102	0.0012	-.21	232	0.0011	-.43			
102	3.47	-.08	193	54.50	1.57	Meth: 202.00 PPM			096	0.0011	-.47	A=Analysis beyond 3-s limits					
028	3.47	-.12	S/s=Screened Outlier			R=Duplicate Range too large											

MAGRUDER - Fertilizer Check Sample No. - 200304

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index		
Meth: 241.00 PCT			Meth: 241.30 PCT			Meth: 241.XX PCT			Meth: 251.30 PPM			Meth: 251.XX PPM				
Acid Soluble Iron			Acid Soluble Iron			Acid Soluble Iron			Lead			Lead				
<u>Atomic Absorption</u>			<u>ICP</u>			<u>ICP</u>			<u>ICP</u>			<u>ICP</u>				
193	0.47 s	3.71	419	0.33	-.54	096	0.35	.37	247	8.00	1.35	324	4.95 R	-1.83		
351	0.38	1.49	251	0.33	-.54	233	0.35	.37	419	7.75	1.14	Meth: 261.00 PCT				
289	0.37	1.11	106	0.34 R	-.57	397	0.34	.34	394	7.41	.91	Acid Soluble Mangane				
137	0.36	.84	023	0.32	-.64	095	0.34	.28	102	6.76	.35	<u>AA</u>				
220	0.36	.84	035	0.32	-.80	009	0.34	.17	009	6.50	.35	233	0.125	1.37		
037	0.36	.70	320	0.31	-1.00	Avg	0.34		Avg	6.39		220	0.120 R	1.20		
055	0.35	.58	300	0.32 R	-1.04	394	0.33	-.12	106	6.20	-.37	296	0.118 R	1.04		
233	0.35	.41	292	0.31	-1.06	102	0.33	-.24	035	6.17	-.45	289	0.120	.98		
397	0.34	.37	354	0.31	-1.11	029	0.33	-.28	232	5.40	-.93	258	0.120	.98		
095	0.34	.32	157	0.31	-1.13	390	0.33	-.34	296	4.75	-1.37	257	0.119	.91		
Avg	0.33		232	0.30	-1.61	419	0.33	-.37	324	4.95	-1.49	037	0.117	.81		
029	0.33	-.13	Meth: 241.99 PCT			251	0.33	-.37	Meth: 251.99 PPM			262	0.115	.73		
390	0.33	-.20	Acid Soluble Iron			023	0.32	-.46	Lead			262	0.115	.73		
262	0.32	-.31	<u>Other</u>			106	0.34	-.49	<u>Other</u>			397	0.114	.62		
296	0.32	-.52	362	0.48 S	22.64	262	0.32	-.49	220	8.65	1.16	392	0.111	.39		
177	0.31	-.57	234	0.32	.71	035	0.32	-.59	040	8.25	.30	029	0.111 X	.36		
040	0.31	-.88	Avg	0.32		234	0.32	-.68	Avg	7.97		177	0.107	.10		
090	0.27	-1.78	Meth: 241.XX PCT			296	0.32	-.70	409	7.00	-1.03	Avg	0.106			
381	0.25	-2.39	Acid Soluble Iron			320	0.31	-.77	Meth: 251.XX PPM			391	0.100	-.38		
043	0.20 s	-5.83	362	0.48 s	4.58	177	0.31	-.79	Lead			137	0.100	-.38		
			193	0.47 s	4.26	300	0.32	-.82	251.XX PPM			390	0.102	-.42		
			330	0.39	1.80	292	0.31	-.82	251.XX PPM			381	0.091	-1.00		
			351	0.38	1.63	354	0.31	-.87	Lead			090	0.086	-1.33		
			360	0.38	1.51	157	0.31	-.88	397			9.44	1.81	193	0.080	-1.79
			409	0.38	1.32	040	0.31 R	-1.15	220			8.65	1.37	055	0.078	-1.89
			289	0.37	1.19	232	0.30	-1.31	040			8.25	.89	Acid Soluble Mangane		
			324	0.37	1.14	090	0.27	-2.23	419			7.75	.51	<u>AA</u>		
			247	0.37	.99	381	0.25	-2.95	394			7.41	.38	095		
			361	0.36	.80	043	0.20 s	-6.96	Avg			7.09		0110		
			389	0.35	.42	Meth: 251.00 PPM			363			7.00	-.07	Avg		
			131	0.35	.34	Lead			409			7.00	-.07	0101		
			096	0.35	.30	<u>Atomic Absorption</u>			102			6.76	-.29	040		
			009	0.34	.07	397			009			6.50	-.55	0091		
			Avg	0.34		Avg			106			6.20	-.75	-.89		
			394	0.33	-.24	363			035			6.17	-.80	Meth: 261.30 PCT		
			102	0.33	-.39	363			232			5.40	-1.36	Acid Soluble Mangane		
			* X=Excluded from lab performance	S/s=Screened Outlier	R=Duplicate Range too large	363			296			4.75	-1.80	<u>ICP</u>		
						363			330			0.135	1.71	330		
						363			361			0.125	1.13	361		
						363			361			0.125	1.13	0.125		
						363			361			0.125	1.13	beyond 3-s limits		

MAGRUDER - Fertilizer Check Sample No. - 200304

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 261.30 PCT			Meth: 261.XX PCT			Meth: 261.XX PCT			Meth: 289.30 PPM			Meth: 291.30 PPM		
<u>Acid Soluble Manganese</u>			<u>Acid Soluble Manganese</u>			<u>Acid Soluble Manganese</u>			<u>Molybdenum</u>			<u>Nickel</u>		
<u>ICP</u>			<u>ICP</u>			<u>ICP</u>			<u>ICP</u>			<u>ICP</u>		
102	0.124	1.05	102	0.124	1.25	393	0.086	-1.57	Avg	4.50		376	31.55 s	9.91
324	0.120	.79	220	0.120 R	1.18	090	0.086	-1.58	324	3.60	-1.00	096	14.50	1.35
251	0.115	.57	296	0.118 R	1.02	292	0.080	-2.04	247	3.00	-1.63	009	13.55	.87
009	0.115	.53	409	0.121	1.00	193	0.080	-2.07	Meth: 289.99 PPM			102	13.33	.80
320	0.112	.45	289	0.120	.92	055	0.078	-2.19	<u>Molybdenum</u>			419	12.00	.07
131	0.114	.43	258	0.120	.92	300	0.065 A	-3.17	<u>Other</u>			Avg	11.87	
354	0.109	.34	324	0.120	.92	Meth: 271.00 PCT			409	6.00	1.15	393	11.70	-.17
360	0.110	.19	257	0.119	.85	<u>Water Soluble Mangan</u>			Avg	5.02		247	11.00	-.44
419	0.110	.19	037	0.117	.74	<u>Atomic Abs</u>			220	4.80	-.53	232	10.85	-.52
023	0.109	.18	106	0.115	.66	193	0.026	-.71	040	4.25	-.94	324	8.00	-1.95
Avg	0.107		251	0.115	.66	Meth: 271.30 PCT			Meth: 289.XX PPM			Meth: 291.99 PPM		
157	0.103	-.27	262	0.115	.66	<u>Water Soluble Mangan</u>			<u>Molybdenum</u>			<u>Nickel</u>		
035	0.103	-.29	009	0.115	.60	<u>ICP</u>			393	13.85 s	10.09	035	10.75	.71
389	0.100	-.41	397	0.114	.53	247	0.116	.71	106	5.50 R	1.61	Meth: 291.XX PPM		
232	0.098	-.70	320	0.112	.52	Meth: 271.XX PCT			409	6.00	1.48	<u>Nickel</u>		
393	0.086	-1.24	131	0.114	.47	<u>Water Soluble Mangan</u>			009	5.65	1.10	376	31.55 s	11.12
292	0.080	-1.62	354	0.109	.41	247	0.116	.87	096	4.80	.89	096	14.50	1.48
300	0.065	-2.53	043	0.113	.41	Avg	0.071		220	4.80	.47	193	14.00	1.17
Meth: 261.31 PCT			029	0.111 X	.25	193	0.026	-.87	102	4.96	.35	009	13.55	.93
<u>Acid Soluble Manganese</u>			023	0.109	.20	Meth: 281.30 PPM			232	4.71	.14	102	13.33	.87
<u>ICP</u>			095	0.110	.18	<u>Mercury</u>			419	4.75	.12	220	12.00	.03
106	0.115	.71	360	0.110	.18	<u>ICP</u>			040	4.25	-.52	419	12.00	.03
Meth: 261.99 PCT			419	0.110	.18	040	10.90	.71	324	3.60	-1.18	Avg	11.94	
<u>Acid Soluble Manganese</u>			Avg	0.108		Meth: 289.30 PPM			247	3.00	-1.81	393	11.70	-.22
<u>Other</u>			177	0.107	-.04	<u>Molybdenum</u>			Meth: 291.00 PPM			397	11.60	-.22
409	0.121	1.16	394	0.105	-.35	<u>ICP</u>			<u>Nickel</u>			247	11.00	-.53
043	0.113	.37	157	0.103	-.38	393	13.85 s	10.17	<u>Atomic Absorption</u>			232	10.85	-.62
Avg	0.110		035	0.103	-.40	106	5.50 R	1.70	193	14.00	1.27	035	10.75	-.74
394	0.105	-.67	390	0.102	-.55	009	5.65	1.26	Avg	12.53		324	8.00	-2.24
234	0.102	-1.26	389	0.100	-.56	096	4.80	.93	220	12.00	-.46	Meth: 301.99 PPM		
Meth: 261.XX PCT			137	0.100	-.56	102	4.96	.51	397	11.60	-.82	<u>Selenium</u>		
<u>Acid Soluble Manganese</u>			391	0.100	-.56	419	4.75	.28	<u>Other</u>			<u>Other</u>		
330	0.135	2.06	234	0.102	-.77	232	0.098	-.89	296	0.29	.87	296 0.29 .87		
233	0.125	1.34	232	0.098	-.89	040	0.091	-1.22	* X=Excluded from lab performance			S/s=Screened Outlier		
* X=Excluded from lab performance			381	0.091	-1.22	232	4.71	.26	R=Duplicate Range too large			A=Analysis beyond 3-s limits		

MAGRUDER - Fertilizer Check Sample No. - 200304

Laboratory Averages & Accuracy Indexes

<u>Lab</u>	<u>Average*</u>	<u>Index</u>	<u>Lab</u>	<u>Average*</u>	<u>Index</u>	<u>Lab</u>	<u>Average*</u>	<u>Index</u>	<u>Lab</u>	<u>Average*</u>	<u>Index</u>	<u>Lab</u>	<u>Average*</u>	<u>Index</u>
Meth: 301.99 PPM			Meth: 321.00 PCT			Meth: 321.99 PCT			Meth: 325.00 PCT					
Selenium			Acid Soluble Zinc			Acid Soluble Zinc			Water Soluble Zinc					
<u>Other</u>			<u>Atomic Absorption</u>			<u>Other</u>			<u>Atomic Absorption</u>					
Avg 0.21			258 0.135 1.74			409 0.128 .87			193 0.066 .71					
040 0.13 -.86			193 0.130 1.04			Avg 0.120								
			392 0.128 .88			220 0.113 -.87								
Meth: 311.00 PCT			029 0.122 .13											
Sodium			Avg 0.121			Meth: 321.XX PCT								
<u>Atomic Absorption</u>			296 0.121 -.10			<u>Acid Soluble Zinc</u>								
193 0.44 .71			043 0.118 -.53			330 0.140 2.04								
			257 0.115 -.81			009 0.137 1.77								
Meth: 311.30 PCT			390 0.114 -.95			258 0.135 1.57								
Sodium			391 0.110 -1.32			324 0.130 .86								
<u>Flame Photometric</u>						193 0.130 .86								
320 19.51 S 855.54			Meth: 321.30 PCT			361 0.130 .86								
300 0.54 1.13			Acid Soluble Zinc			392 0.128 .72								
Avg 0.54			<u>ICP</u>			131 0.128 .63								
247 0.54 -.46			330 0.140 1.89			040 0.125 .60								
			009 0.137 1.62			409 0.128 .59								
Sodium			324 0.130 .71			393 0.127 .53								
<u>Other</u>			361 0.130 .71			Avg 0.123								
102 0.52 .65			040 0.125 .56			029 0.122 -.18								
009 0.51 .30			131 0.128 .47			157 0.121 -.26								
Avg 0.51			393 0.127 .40			296 0.121 -.27								
035 0.49 -1.41			Avg 0.124			320 0.120 -.31								
			157 0.121 -.41			394 0.120 -.32								
Meth: 311.XX PCT			320 0.120 -.45			247 0.120 -.32								
Sodium			247 0.120 -.47			251 0.120 -.32								
<u>Sodium</u>			394 0.120 -.47			102 0.119 -.52								
320 19.51 s 470.18			251 0.120 -.47			043 0.118 -.68								
300 0.54 1.12			102 0.119 -.65			354 0.122 R -.78								
247 0.54 .85			354 0.122 R -.82			035 0.116 -.79								
102 0.52 .32			035 0.116 -.94			257 0.115 -.98								
009 0.51 .13			106 0.120 R -1.13			106 0.120 R -1.07								
Avg 0.51			232 0.107 -2.07			390 0.114 -1.13								
035 0.49 -.79			292 0.090 s -4.00			220 0.113 -1.22								
193 0.44 -1.66						391 0.110 -1.50								
						232 0.107 -1.93								
						292 0.090 s -3.86								

* 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. - 200304

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	14	0.73	2.90	0.16	050.50	7	0.45	1.51	0.35
001.99	10	2.81	8.93	0.60	050.51	7	0.00	1.01	0.22
001.XX	24	1.61	5.04	0.32	050.60	5	0.00	1.00	0.32
002.99	8	- 0.19	1.08	0.39	050.61	9	0.31	1.33	0.42
002.XX	9	- 0.16	1.07	0.28	050.99	14	0.00	1.01	0.12
009.10	8	0.00	1.00	0.25	050.XX	74	0.12	1.14	0.32
009.99	2	- 312.6	442.20	3.93	060.00	8	0.06	0.96	0.50
009.XX	9	- 0.96	3.49	2.88	060.XX	8	0.06	0.96	0.50
010.10	2	0.00	0.00	0.00	101.00	16	0.05	1.63	0.35
010.11	11	0.76	2.33	0.55	101.30	21	0.13	1.12	0.27
010.12	6	0.00	1.03	0.17	101.99	2	0.00	0.48	0.80
010.60	49	0.03	0.99	0.33	101.XX	40	0.13	1.50	0.31
010.99	4	- 0.63	1.40	0.96	121.00	24	- 0.43	2.99	0.48
010.XX	67	- 0.02	1.68	1.09	121.30	23	0.15	1.15	0.41
020.10	8	- 0.11	0.96	0.61	121.XX	48	- 0.23	2.33	0.43
020.20	20	0.17	1.70	0.43	131.00	3	0.00	1.12	0.05
020.40	9	- 0.80	2.51	0.55	131.XX	6	0.34	1.25	0.31
020.50	4	1.26	2.67	0.18	144.01	8	0.52	1.72	0.32
020.XX	40	0.21	1.55	0.36	144.99	31	- 0.19	1.16	0.31
030.10	3	0.00	1.12	0.00	144.XX	40	- 0.17	1.17	0.29
030.20	2	17.68	25.00	3.54	151.30	4	0.00	0.90	0.52
030.40	3	0.00	0.56	0.79	151.99	3	0.00	1.11	0.13
030.XX	8	1.53	4.43	0.58	151.XX	7	0.00	1.02	0.18
040.10	2	0.00	1.08	0.41	165.00	3	0.000	0.831	0.611
040.20	3	0.00	1.08	0.24	165.99	2	0.000	1.223	0.050
040.40	2	0.00	1.19	0.21	165.XX	5	- 0.383	1.265	0.511
040.99	2	0.00	0.65	0.73	181.00	6	1.29	3.29	0.13
040.XX	9	0.00	0.99	0.27	181.30	9	0.00	0.95	0.37
041.10	20	- 7.64	32.38	1.00	181.XX	16	0.63	2.75	0.24
041.20	4	4.49	9.02	0.22	190.00	15	0.42	1.46	0.49
041.40	7	0.44	1.55	0.47	190.99	4	0.00	1.08	0.06
041.50	9	0.00	0.97	0.32	190.XX	19	0.37	1.46	0.46
041.60	13	- 0.24	2.24	0.89	191.30	10	2.23	7.04	0.16
041.XX	47	- 1.08	9.95	0.58	191.XX	12	1.62	5.68	0.22
048.20	3	0.00	1.11	0.07	202.30	10	0.16	1.08	0.22
048.XX	5	0.00	1.04	0.21	202.XX	12	0.08	1.01	0.16
050.00	24	0.17	1.21	0.33	221.00	4	0.0000	1.0758	0.0833
050.10	2	0.00	0.00	0.87	221.30	15	0.3222	1.5646	0.5399
050.30	10	0.00	0.93	0.42	221.99	2	0.0000	0.8660	0.6124

MAGRUDER - Fertilizer Check Sample No. - 200304

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
221.XX	21	0.1878	1.2933	0.3979					
241.00	19	0.00	1.56	1.04					
241.30	23	- 0.04	0.97	0.24					
241.99	2	11.31	16.00	0.71					
241.XX	44	0.07	1.51	0.82					
251.00	2	0.00	1.22	0.06					
251.30	10	0.00	0.94	0.38					
251.99	3	0.00	0.92	0.52					
251.XX	15	- 0.11	1.04	0.33					
261.00	19	0.095	0.982	0.280					
261.11	2	0.000	1.187	0.213					
261.30	19	0.000	0.988	0.222					
261.99	4	0.000	0.905	0.510					
261.XX	45	- 0.033	1.066	0.294					
271.XX	2	0.000	1.224	0.021					
289.30	9	1.25	3.47	0.53					
289.99	3	0.00	1.05	0.32					
289.XX	12	0.92	3.03	0.49					
291.00	3	0.00	1.11	0.09					
291.30	9	1.10	3.44	0.16					
291.XX	13	0.86	3.23	0.18					
301.99	2	0.00	1.21	0.11					
301.XX	2	0.00	1.21	0.11					
311.30	3	285.14	493.87	8.62					
311.99	3	0.00	0.82	0.62					
311.XX	7	67.16	177.69	3.10					
321.00	9	0.000	0.987	0.279					
321.30	18	- 0.268	1.301	0.364					
321.99	2	0.000	1.201	0.170					
321.XX	29	- 0.151	1.170	0.330					