MAGRUDER - Fertilizer Check Sample No. - 200406 Grade 6-24-24

Method	AOAC Ref.	Method Code	- Pass 1 Results for 86 Labs - No. of Labs	Grand Avg.	Std. Dev.	Average Range of Dups	- Pass 2 Results for 86 Labs - No. of Labs	Grand Avg.	Std. Dev.	Average Range of Dups
Ammoniacal Nitrogen, MgO Distillation .	920.03	001.10	9	5.81	0.07	0.02	9	5.81	0.07	0.02
Ammoniacal Nitrogen, Other		001.99	12	5.83	0.15	0.06	12	5.83	0.15	0.06
Method Group 001.XX PCT			21	5.82	0.12	0.04	19	5.84	0.11	0.03
Ammon & Nitrate N, Devarda	892.01	009.10	5	5.84	0.17	0.04	5	5.84	0.17	0.04
Total Nitrogen, Modified Comprehensive	978.02	010.11	7	5.90	0.08	0.04	7	5.90	0.08	0.04
Total Nitrogen, Salicylic	955.04D	010.12	4	6.00	0.04	0.02	4	6.00	0.04	0.02
Total Nitrogen, Combustion		010.60	50	6.06	0.12	0.06	47	6.06	0.12	0.05
Total Nitrogen, Other		010.99	7	6.14	0.22	0.10	7	6.14	0.22	0.10
Method Group 010.XX PCT			68	6.05	0.14	0.06	63	6.04	0.13	0.05
Total Phosphate, Grav Quimociac	962.02	020.10	8	22.73	0.24	0.19	7	22.72	0.22	0.12
Total Phosphate, Spectrometric	958.01	020.20	20	22.63	0.29	0.17	19	22.65	0.26	0.12
Total Phosphate, Automated	978.01	020.40	8	22.49	0.23	0.17	8	22.49	0.23	0.17
Total Phosphate, ICP		020.50	5	22.74	0.30	0.16	5	22.74	0.30	0.16
Method Group 020.XX PCT			41	22.64	0.28	0.17	39	22.64	0.26	0.14
Insoluble Phosphate, Grav Quimociac ...	963.03C	030.10	2	0.41	0.02	0.02	2	0.41	0.02	0.02
Insoluble Phosphate, Spectrometric	963.03C	030.20	1	0.39	0.01	0.01	1	0.39	0.01	0.01
Insoluble Phosphate, Automated	978.01	030.40	2	0.40	0.02	0.01	2	0.40	0.02	0.01
Method Group 030.XX PCT			5	0.40	0.02	0.01	5	0.40	0.02	0.01
InDir Available Phosphate, Grav Quim ..	960.02	040.10	2	22.44	0.29	0.14	2	22.44	0.29	0.14
InDir Available Phosphate, Spectrometri	960.02	040.20	2	22.01	0.25	0.27	2	22.01	0.25	0.27
InDir Available Phosphate, Automated ..	960.02	040.40	2	22.01	0.12	0.06	2	22.01	0.12	0.06
Method Group 040.XX PCT			6	22.15	0.30	0.15	6	22.15	0.30	0.15
Dir Available Phosphate, Grav Quimociac	960.03E	041.10	18	22.40	0.24	0.06	16	22.43	0.23	0.04
Dir Available Phosphate, Spectrometric	960.03D	041.20	6	22.34	0.48	0.10	6	22.34	0.48	0.10
Dir Available Phosphate, Automated	978.01	041.40	4	22.25	0.27	0.07	4	22.25	0.27	0.07
Dir Available Phosphate, ICP		041.50	7	22.08	0.56	0.18	7	22.08	0.56	0.18
Dir Available Phosphate, EDTA Extract .	993.01	041.60	12	22.54	0.20	0.12	12	22.54	0.20	0.12
Method Group 041.XX PCT			48	22.38	0.37	0.12	46	22.39	0.33	0.09
Water Soluble Phosphate, Spectrometric	970.01	048.20	4	17.75	0.19	0.09	4	17.75	0.19	0.09
Soluble Potash, STPB Oxalate	958.02	050.00	22	25.63	0.33	0.15	21	25.62	0.34	0.13
Soluble Potash, AA (Oxalate)		050.30	11	25.50	0.97	0.25	10	25.63	0.91	0.19
Soluble Potash, AA (Citrate)		050.31	1	24.60	0.00	0.00	1	24.60	0.00	0.00
Soluble Potash, ICP (Oxalate)		050.50	3	25.19	0.36	0.10	3	25.19	0.36	0.10
Soluble Potash, ICP (Citrate)		050.51	9	25.42	0.59	0.13	8	25.53	0.53	0.08
Soluble Potash, Flame (Oxalate)	983.02(a	050.60	4	25.93	0.45	0.26	4	25.93	0.45	0.26
Soluble Potash, Flame (Citrate)	983.02(b	050.61	8	25.96	0.39	0.23	7	26.00	0.35	0.11
Soluble Potash, Other		050.99	12	25.21	0.73	0.23	11	25.08	0.57	0.18
Method Group 050.XX PCT			70	25.53	0.64	0.19	66	25.50	0.57	0.15
Free Water, Vacuum Oven	965.08B	060.00	7	1.40	1.08	0.03	7	1.40	1.08	0.03

Method	AOAC Ref.	Method Code	- Pass 1 Results for 86 Labs - No. of Labs	Grand Avg.	Std. Dev.	Average Range of Dups	- Pass 2 Results for 86 Labs - No. of Labs	Grand Avg.	Std. Dev.	Average Range of Dups
Method Group 060.XX PCT			7	1.40	1.08	0.03	7	1.40	1.08	0.03
Acid Soluble Calcium, ICP		101.30	10	5.94	0.47	0.06	10	5.94	0.47	0.06
Acid Soluble Magnesium, AA	984.01	121.00	1	0.62	0.03	0.04	1	0.62	0.03	0.04
Acid Soluble Magnesium, ICP		121.30	10	0.63	0.17	0.01	10	0.63	0.17	0.01
Method Group 121.XX PCT			11	0.63	0.16	0.02	11	0.63	0.16	0.02
Water Soluble Magnesium, AA		131.00	1	0.18	0.01	0.01	1	0.18	0.01	0.01
Sulfur, Gravimetric	980.02a	144.01	1	0.75	0.01	0.01	1	0.75	0.01	0.01
Sulfur, Spectrometric		144.70	1	0.75	0.02	0.03	1	0.75	0.02	0.03
Sulfur, Other		144.99	6	0.76	0.02	0.01	6	0.76	0.02	0.01
Method Group 144.XX PCT			8	0.76	0.02	0.01	8	0.76	0.02	0.01
Arsenic, Atomic Absorption		151.00	3	6.38	1.42	0.24	3	6.38	1.42	0.24
Arsenic, ICP		151.30	5	5.66	1.02	0.34	5	5.66	1.02	0.34
Arsenic, Other		151.99	1	6.50	0.71	1.00	1	6.50	0.71	1.00
Method Group 151.XX PPM			9	5.99	1.15	0.38	9	5.99	1.15	0.38
Acid Soluble Boron, Other		165.99	3	0.018	0.019	0.000	3	0.018	0.019	0.000
Cadmium, Atomic Absorption		181.00	3	1.91	0.41	0.02	3	1.91	0.41	0.02
Cadmium, ICP		181.30	8	1.65	0.29	0.09	8	1.65	0.29	0.09
Cadmium, Other		181.99	1	2.00	0.00	0.00	1	2.00	0.00	0.00
Method Group 181.XX PPM			13	1.81	0.42	0.14	12	1.74	0.33	0.07
Water Soluble Chlorine, Titrimetric ...	928.02	190.00	2	19.76	0.68	0.05	2	19.76	0.68	0.05
Water Soluble Chlorine, Other		190.99	2	20.03	0.22	0.02	2	20.03	0.22	0.02
Method Group 190.XX PCT			4	19.89	0.49	0.03	4	19.89	0.49	0.03
Chromium, Atomic Absorption		191.00	1	57.65	0.21	0.30	1	57.65	0.21	0.30
Chromium, ICP		191.30	11	51.08	3.81	1.77	11	51.08	3.81	1.77
Chromium, Other		191.99	1	52.00	0.00	0.00	1	52.00	0.00	0.00
Method Group 191.XX PPM			13	51.66	3.92	1.52	12	51.23	3.70	1.23
Acid Soluble Cobalt, ICP	965.11	202.30	11	3.82	1.00	0.21	10	3.95	0.94	0.13
Acid Soluble Cobalt, Other		202.99	1	5.00	0.00	0.00	1	5.00	0.00	0.00
Method Group 202.XX PPM			12	3.92	1.02	0.20	11	4.05	0.95	0.12
Acid Soluble Copper, Atomic Absorption	975.01	221.00	5	0.0005	0.0003	0.0002	4	0.0005	0.0003	0.0000
Acid Soluble Copper, ICP		221.30	6	0.9753	1.0202	0.0434	5	0.7703	0.9953	0.0201
Acid Soluble Copper, Other		221.99	1	1.5000	0.7071	1.0000	1	1.5000	0.7071	1.0000
Method Group 221.XX PCT			12	0.6129	0.9053	0.1051	11	0.5322	0.8899	0.0238
Acid Soluble Iron, Atomic Absorption ..	980.01	241.00	1	0.50	0.01	0.01	1	0.50	0.01	0.01
Acid Soluble Iron, ICP		241.30	8	0.54	0.03	0.01	7	0.54	0.03	0.00
Acid Soluble Iron, Other		241.99	1	0.71	0.03	0.04	1	0.71	0.03	0.04
Method Group 241.XX PCT			11	0.57	0.08	0.01	10	0.56	0.07	0.01
Lead, Atomic Absorption		251.00	3	3.29	1.60	0.68	3	3.29	1.60	0.68
Lead, ICP		251.30	3	2.15	1.11	0.56	3	2.15	1.11	0.56

Method	AOAC Ref.	Method Code	- Pass 1 Results for 86 Labs - No. of Labs	Grand Avg.	Std. Dev.	Average Range of Dups	- Pass 2 Results for 86 Labs - No. of Labs	Grand Avg.	Std. Dev.	Average Range of Dups
Lead, Other		251.99	2	2.73	0.99	0.65	2	2.73	0.99	0.65
Method Group 251.XX PPM			8	2.72	1.31	0.63	8	2.72	1.31	0.63
Acid Soluble Manganese, AA	972.02a	261.00	1	0.016	0.001	0.001	1	0.016	0.001	0.001
Acid Soluble Manganese, ICP	972.02a	261.30	9	0.015	0.001	0.000	8	0.015	0.001	0.000
Method Group 261.XX PCT			10	0.015	0.001	0.000	9	0.015	0.001	0.000
Mercury, Atomic Absorption		281.00	1	0.04	0.00	0.00	1	0.04	0.00	0.00
Mercury, ICP		281.30	1	11.55	1.06	1.50	1	11.55	1.06	1.50
Method Group 281.XX PPM			2	5.79	6.68	0.75	2	5.79	6.68	0.75
Molybdenum, Atomic Absorption		289.00	2	4.70	0.57	0.40	2	4.70	0.57	0.40
Molybdenum, ICP		289.30	9	4.23	1.30	0.09	8	4.14	1.36	0.03
Molybdenum, Other		289.99	1	6.00	0.00	0.00	1	6.00	0.00	0.00
Method Group 289.XX PPM			12	4.45	1.25	0.14	10	4.43	1.36	0.06
Nickel, Atomic Absorption		291.00	2	12.58	0.95	1.05	2	12.58	0.95	1.05
Nickel, ICP		291.30	10	10.34	1.02	0.65	9	10.41	0.93	0.40
Nickel, Other		291.99	1	11.00	0.00	0.00	1	11.00	0.00	0.00
Method Group 291.XX PPM			13	10.74	1.25	0.66	12	10.82	1.20	0.48
Selenium, Atomic Absorption		301.00	1	0.15	0.01	0.01	1	0.15	0.01	0.01
Selenium, Other		301.99	1	0.12	0.01	0.02	1	0.12	0.01	0.02
Method Group 301.XX PPM			2	0.13	0.02	0.01	2	0.13	0.02	0.01
Sodium, Atomic Absorption	983.04	311.00	1	0.62	0.01	0.02	1	0.62	0.01	0.02
Sodium, Flame Photometric	974.01	311.30	1	0.58	0.01	0.01	1	0.58	0.01	0.01
Sodium, Other		311.99	6	0.62	0.04	0.01	6	0.62	0.04	0.01
Method Group 311.XX PCT			8	0.61	0.04	0.01	8	0.61	0.04	0.01
Acid Soluble Zinc, Atomic Absorption	975.02	321.00	5	0.004	0.001	0.001	5	0.004	0.001	0.001
Acid Soluble Zinc, ICP		321.30	16	0.003	0.001	0.000	15	0.003	0.001	0.000
Acid Soluble Zinc, Other		321.99	1	0.008	0.000	0.000	1	0.008	0.000	0.000
Method Group 321.XX PCT			22	0.004	0.002	0.000	20	0.003	0.002	0.000

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index
Meth: 001.10 PCT		
Ammoniacal Nitrogen		
MgO Distillation		
090	5.88	.89
292	5.88	.88
029	5.87	.79
416	5.87	.76
288	5.82	.16
Avg	5.81	
309	5.80	-.19
220	5.78	-.53
419	5.78	-.61
415	5.65	-2.24
Meth: 001.99 PCT		
Ammoniacal Nitrogen		
Other		
393	6.06	1.52
409	6.02	1.29
234	5.95	.82
096	5.91	.52
320	5.88	.36
397	5.85	.19
Avg	5.83	
419	5.82	-.10
362	5.78	-.40
418	5.73 X	-.61
354	5.73	-.81
420	5.62	-1.40
289	5.56	-1.81
Meth: 001.XX PCT		
Ammoniacal Nitrogen		
393	6.06	1.99
409	6.02	1.67
234	5.95	1.02
096	5.91	.60
090	5.88	.38
320	5.88	.38
292	5.88	.37

Lab	Average*	Index
Meth: 001.XX PCT		
Ammoniacal Nitrogen		
029	5.87	.34
416	5.87	.30
397	5.85	.16
Avg	5.84	
419	5.82	-.19
288	5.82	-.20
309	5.80	-.36
220	5.78	-.58
419	5.78	-.61
362	5.78	-.66
418	5.73 X	-.97
354	5.73 R	-1.24
415	5.65	-1.77
420	5.62	-2.07
289	5.56 R	-2.65
Meth: 009.10 PCT		
Ammon & Nitrate N		
Devarda		
258	6.10	1.55
257	5.88	.25
392	5.86	.18
Avg	5.84	
420	5.70	-.83
391	5.65	-1.15
Meth: 010.11 PCT		
Total Nitrogen		
Modified Comprehensi		
105	5.99	1.17
029	5.95	.85
288	5.96	.77
090	5.95	.60
Avg	5.90	
322	5.89	-.20
309	5.80	-1.26
415	5.79	-1.36

Lab	Average*	Index
Meth: 010.12 PCT		
Total Nitrogen		
Salicylic		
254	7.80 s	41.92
102	6.04	1.02
185	6.03	.70
Avg	6.00	
351	5.99	-.21
211	5.94	-1.39
Meth: 010.60 PCT		
Total Nitrogen		
Combustion		
041	8.38 s	20.09
369	6.54 s	4.73
376	6.30	2.06
073	6.29	2.03
390	6.27	1.88
402	6.15 R	1.52
389	6.23	1.45
262	6.21	1.37
114	6.14 R	1.33
422	6.18	1.20
307	6.19	1.12
023	6.17	.94
035	6.15	.88
049	6.13	.71
025	6.13	.63
102	6.09	.60
406	6.12	.57
411	6.11	.49
028	6.09	.39
162	6.10	.39
007	6.07	.31
095	6.08	.27
361	6.07	.21
393	6.07	.21
234	6.08	.20
029	6.08	.17
247	6.08	.17

Lab	Average*	Index
Meth: 010.60 PCT		
Total Nitrogen		
Combustion		
131	6.07	.15
037	6.06	.03
220	6.06	.03
Avg	6.06	
027	6.05	-.08
377	6.06	-.13
096	6.05	-.16
024	6.03	-.24
177	6.02	-.44
022	6.05	-.57
325	5.99	-.57
043	5.97	-.76
106	5.96	-.92
296	5.95	-.95
055	5.96	-.98
330	5.95	-1.01
360	5.95	-1.11
009	5.93	-1.20
142	5.93	-1.24
233	5.90	-1.31
232	5.90	-1.35
292	5.90	-1.39
040	5.90 R	-1.59
381	5.82	-2.08
034	5.81	-2.12
Meth: 010.99 PCT		
Total Nitrogen		
Other		
354	6.44	1.44
137	6.42	1.29
405	6.19	.26
Avg	6.14	
030	6.06	-.47
300	5.99	-.70
220	5.98	-.74

Lab	Average*	Index
Meth: 010.99 PCT		
Total Nitrogen		
Other		
368	5.92	-1.19
289	5.56 S	-2.70
Meth: 010.XX PCT		
Total Nitrogen		
041	8.38 s	18.53
254	7.80 s	13.87
369	6.54 s	4.44
354	6.44 A	3.22
137	6.42	2.99
376	6.30	2.00
073	6.29	1.98
390	6.27	1.84
402	6.15 R	1.46
389	6.23	1.45
262	6.21	1.36
114	6.14 R	1.29
422	6.18	1.21
405	6.19	1.17
307	6.19	1.14
023	6.17	.98
035	6.15	.92
049	6.13	.75
025	6.13	.69
406	6.12	.64
102	6.09	.62
411	6.11	.56
022	6.05	.51
030	6.06	.50
162	6.10	.47
028	6.09	.44
095	6.08	.34
007	6.07	.33
234	6.08	.31
393	6.07	.29
361	6.07	.29
247	6.08	.27

* 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. - 200406 Grade 6-24-24

Laboratory Averages & Accuracy Indexes

Meth: 010.XX PCT
Total Nitrogen

Lab	Average*	Index
029	6.08	.27
131	6.07	.22
377	6.06	.16
037	6.06	.15
220	6.06	.15
136	6.05	.12
096	6.05	.12
027	6.05	.05
Avg	6.04	
102	6.04	-.12
024	6.03	-.12
185	6.03	-.17
177	6.02	-.34
351	5.99	-.40
300	5.99	-.41
325	5.99	-.41
105	5.99	-.41
220	5.98	-.49
043	5.97	-.58
106	5.96	-.73
288	5.96	-.73
296	5.95	-.76
090	5.95	-.78
055	5.96	-.80
211	5.94	-.80
330	5.95	-.82
029	5.95	-.87
360	5.95	-.92
009	5.93	-1.00
142	5.93	-1.04
233	5.90	-1.08
232	5.90	-1.12
292	5.90	-1.15
322	5.89	-1.20
040	5.90 R	-1.36
368	5.92 R	-1.40
381	5.82	-1.79
034	5.81	-1.82

Meth: 010.XX PCT
Total Nitrogen

Lab	Average*	Index
309	5.80	-1.90
415	5.79	-1.97
289	5.56 s	-3.84

Meth: 020.10 PCT
Total Phosphate
Grav Quimociac

Lab	Average*	Index
405	23.08	1.67
300	22.75 R	1.61
105	22.76	.57
411	22.78	.31
114	22.77	.23
Avg	22.72	
095	22.71	-.33
090	22.62	-.53
313	22.36	-1.69

Meth: 020.20 PCT
Total Phosphate
Spectrometric

Lab	Average*	Index
418	22.98 X	1.27
390	22.97	1.25
232	22.96	1.22
419	22.90	1.05
376	22.87	.86
392	22.80	.59
288	22.70	.54
362	22.79	.54
142	22.70	.27
406	22.66	.09
Avg	22.65	
397	22.62	-.13
416	22.60	-.23
258	22.53	-.49
257	22.53	-.53
391	22.56	-.59
234	22.48	-.74
220	22.43	-.89

Meth: 020.20 PCT
Total Phosphate
Spectrometric

Lab	Average*	Index
292	22.26	-1.71
420	22.05	-2.41
381	22.33 R	-2.45
309	20.90 s	-6.83
369	20.79 s	-7.29

Meth: 020.40 PCT
Total Phosphate
Automated

Lab	Average*	Index
393	22.88	1.89
247	22.65	.84
193	22.50	.44
409	22.53	.29
Avg	22.49	
320	22.49	-.28
096	22.29	-.88
035	22.27	-.95
105	22.29	-1.10

Meth: 020.50 PCT
Total Phosphate
ICP

Lab	Average*	Index
422	24.37 S	5.39
330	22.86 S	4.39
361	23.96 S	4.02
393	23.03	1.10
402	23.07	1.09
Avg	22.74	
247	22.63	-.38
368	22.62	-.53
389	22.35	-1.29

Meth: 020.XX PCT
Total Phosphate

Lab	Average*	Index
422	24.37 s	6.63
330	22.86 s	5.14
361	23.96 s	5.04

Meth: 020.XX PCT
Total Phosphate

Lab	Average*	Index
405	23.08	1.70
402	23.07	1.63
393	23.03	1.61
300	22.75 R	1.40
418	22.98 X	1.28
390	22.97	1.26
232	22.96	1.24
393	22.88	1.15
419	22.90	1.06
376	22.87	.88
105	22.76	.65
392	22.80	.61
362	22.79	.57
288	22.70	.55
411	22.78	.54
114	22.77	.50
247	22.65	.38
095	22.71	.38
142	22.70	.30
406	22.66	.10
Avg	22.64	
397	22.62	-.10
247	22.63	-.11
416	22.60	-.19
090	22.62	-.21
368	22.62	-.43
258	22.53	-.44
409	22.53	-.47
257	22.53	-.48
391	22.56	-.56
320	22.49	-.65
193	22.50	-.66
234	22.48	-.69
220	22.43	-.83
313	22.36	-1.10
389	22.35	-1.13
096	22.29	-1.37
035	22.27	-1.43

Meth: 020.XX PCT
Total Phosphate

Lab	Average*	Index
105	22.29	-1.48
292	22.26	-1.65
420	22.05	-2.33
309	20.90 s	-6.67
369	20.79 s	-7.12

Meth: 030.10 PCT
Insoluble Phosphate
Grav Quimociac

Lab	Average*	Index
090	0.42	.65
Avg	0.41	
405	0.40	-1.04

Meth: 030.20 PCT
Insoluble Phosphate
Spectrometric

Lab	Average*	Index
220	0.39	.71

Meth: 030.40 PCT
Insoluble Phosphate
Automated

Lab	Average*	Index
409	0.42	.87
Avg	0.40	
096	0.38	-.87

Meth: 030.XX PCT
Insoluble Phosphate

Lab	Average*	Index
090	0.42	.99
409	0.42	.99
Avg	0.40	
220	0.39	-.69
405	0.40	-.80
096	0.38	-1.19

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

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index
Meth: 040.10 PCT InDir Available Phos Grav Quim		
405	22.68	.88
Avg	22.44	
090	22.21	-.85
Meth: 040.20 PCT InDir Available Phos Spectrometri		
289	22.17	.75
Avg	22.01	
220	21.84	-.97
Meth: 040.40 PCT InDir Available Phos Automated		
409	22.12	.90
Avg	22.01	
096	21.91	-.83
Meth: 040.XX PCT InDir Available Phos		
405	22.68	1.78
289	22.17	.31
090	22.21	.25
Avg	22.15	
409	22.12	-.20
096	21.91	-.81
220	21.84	-1.21
Meth: 041.10 PCT Dir Available Phosph Grav Quimociac		
254	23.00	2.44
041	22.81	1.62
185	22.62	.84
131	22.61	.75
105	22.53	.42
055	22.50	.34

Lab	Average*	Index
Meth: 041.10 PCT Dir Available Phosph Grav Quimociac		
211	22.44	.06
Avg	22.43	
233	22.40	-.13
322	22.32	-.50
102	22.29	-.62
040	22.28	-.65
009	22.28	-.65
136	22.26	-.75
296	22.24	-.87
049	22.21	-.98
029	22.19 R	-1.16
260	22.18 R	-1.18
177	22.14	-1.26
Meth: 041.20 PCT Dir Available Phosph Spectrometric		
415	23.01	1.40
030	22.89	1.13
Avg	22.34	
055	22.26	-.23
106	22.13	-.44
419	22.05	-.62
362	21.73	-1.28
Meth: 041.40 PCT Dir Available Phosph Automated		
105	22.91 s	2.91
131	22.64	1.43
027	22.28	.13
Avg	22.25	
029	22.09	-.58
393	21.98	-1.04

Lab	Average*	Index
Meth: 041.50 PCT Dir Available Phosph ICP		
361	23.88 S	3.19
360	23.19	1.97
354	22.33	.53
325	22.09	.02
Avg	22.08	
007	22.03	-.12
393	21.83	-.47
043	21.75	-.60
023	21.39	-1.31
Meth: 041.60 PCT Dir Available Phosph EDTA Extract		
262	23.70 s	5.80
351	22.85	1.62
034	22.77	1.18
028	22.70	.83
043	22.64	.51
073	22.64	.50
037	22.59	.37
Avg	22.54	
377	22.45	-.43
397	22.42	-.71
296	22.43	-.87
288	22.43	-.95
177	22.27	-1.35
095	22.26	-1.41
Meth: 041.99 PCT Dir Available Phosph Other		
137	24.64 S	.00
Meth: 041.XX PCT Dir Available Phosph		
137	24.64 s	6.80
361	23.88 s	4.49

Lab	Average*	Index
Meth: 041.XX PCT Dir Available Phosph		
262	23.70 s	3.96
360	23.19	2.44
105	22.91 R	2.04
254	23.00	1.85
030	22.89	1.52
351	22.85	1.42
041	22.81	1.27
034	22.77	1.15
028	22.70	.94
043	22.64	.75
131	22.64	.74
073	22.64	.74
185	22.62	.71
131	22.61	.65
037	22.59	.61
288	22.43	.50
105	22.53	.42
296	22.43	.42
055	22.50	.35
397	22.42	.27
377	22.45	.18
211	22.44	.15
233	22.40	.03
Avg	22.39	
322	22.32	-.23
102	22.29	-.32
027	22.28	-.33
040	22.28	-.33
009	22.28	-.33
177	22.27	-.38
136	22.26	-.41
095	22.26	-.43
055	22.26	-.45
296	22.24	-.50
354	22.33	-.54
049	22.21	-.57
029	22.19	-.71

Lab	Average*	Index
Meth: 041.XX PCT Dir Available Phosph		
260	22.18	-.72
177	22.14	-.77
106	22.13	-.79
325	22.09	-.91
029	22.09	-.91
419	22.05	-1.04
007	22.03	-1.11
393	21.98	-1.27
393	21.83	-1.72
043	21.75	-1.94
362	21.73	-2.01
023	21.39 R	-3.12
Meth: 048.20 PCT Water Soluble Phosph Spectrometric		
193	18.00	1.34
096	17.77	.15
Avg	17.75	
420	17.70	-.60
362	17.55	-1.16
Meth: 050.00 PCT Soluble Potash STPB Oxalate		
391	26.10	1.46
114	25.96	1.15
350	26.00	1.12
233	25.99	1.11
257	25.78 R	.92
009	25.87	.75
258	25.87	.74
102	25.82	.59
392	25.81	.58
029	25.70	.48
211	25.71	.27
049	25.68	.23
418	25.63 X	.15

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

Laboratory Averages & Accuracy Indexes

Meth: 050.00 PCT
Soluble Potash
STPB Oxalate

Lab	Average*	Index
Avg	25.62	
055	25.56	-.37
043	25.50	-.40
416	25.51	-.41
137	25.42	-.59
296	25.40	-.68
220	25.40	-.71
131	25.28	-1.09
411	25.07	-1.65
090	24.76	-2.58

Meth: 050.30 PCT
Soluble Potash
AA (Oxalate)

Lab	Average*	Index
381	27.35	1.89
369	26.43	.89
234	26.30	.74
040	25.98	.40
185	25.75	.21
Avg	25.63	
142	25.55	-.11
136	25.20	-.48
073	24.90	-.81
351	24.48	-1.28
262	24.40	-1.36
397	24.23 R	-1.63

Meth: 050.31 PCT
Soluble Potash
AA (Citrate)

Lab	Average*	Index
254	24.60	.00

Meth: 050.50 PCT
Soluble Potash
ICP (Oxalate)

Lab	Average*	Index
106	25.60	1.18
Avg	25.19	
402	25.16	-.10
422	24.81	-1.05
354	23.03 S	-6.04

Meth: 050.51 PCT
Soluble Potash
ICP (Citrate)

Lab	Average*	Index
393	26.25	1.36
361	25.90	.71
043	25.81	.53
389	25.75	.43
007	25.73	.38
Avg	25.53	
377	25.27	-.50
096	24.80	-1.38
368	24.73	-1.54
023	24.54 R	-1.94

Meth: 050.60 PCT
Soluble Potash
Flame (Oxalate)

Lab	Average*	Index
415	28.14 S	4.96
055	26.45	1.18
288	25.99	.30
Avg	25.93	
105	25.92	-.59
309	25.35	-1.29
406	23.92 s	-7.99

Meth: 050.61 PCT
Soluble Potash
Flame (Citrate)

Lab	Average*	Index
041	26.48	1.39
028	26.42	1.20
030	26.00	.29
Avg	26.00	
034	26.00	-.27
035	25.87	-.36
037	25.74	-.76
105	25.47	-1.50
029	25.75 R	-1.66

Meth: 050.99 PCT
Soluble Potash
Other

Lab	Average*	Index
330	26.71 R	2.93
260	25.85	1.35
325	25.74	1.16
360	25.62	.98
232	25.54	.81
027	25.09	.24
177	25.13	.12
Avg	25.08	
376	25.02	-.12
289	24.71	-.64
042	24.74	-.67
420	24.36	-1.32
247	24.08	-1.75
390	23.66 S	-2.65

Meth: 050.XX PCT
Soluble Potash

Lab	Average*	Index
415	28.14 s	4.64
381	27.35 A	3.24
330	26.71 R	2.24
041	26.48	1.72
055	26.45	1.66
369	26.43	1.65
028	26.42	1.60
234	26.30	1.40
393	26.25	1.31
391	26.10	1.06
029	25.75 R	1.02
030	26.00	.89

Meth: 050.XX PCT
Soluble Potash

Lab	Average*	Index
288	25.99	.88
034	26.00	.88
350	26.00	.87
114	25.96	.86
105	25.92	.86
233	25.99	.86
040	25.98	.85
361	25.90	.70
257	25.78	.67
035	25.87	.65
009	25.87	.65
258	25.87	.64
260	25.85	.62
102	25.82	.56
392	25.81	.54
043	25.81	.53
185	25.75	.51
389	25.75	.44
029	25.70	.42
037	25.74	.42
325	25.74	.42
007	25.73	.40
211	25.71	.36
360	25.62	.35
049	25.68	.32
106	25.60	.24
418	25.63 X	.24
055	25.56	.21
416	25.51	.13
142	25.55	.11
232	25.54	.07
Avg	25.50	
105	25.47	-.11
043	25.50	-.11
137	25.42	-.15
296	25.40	-.21
220	25.40	-.24
309	25.35	-.28

Meth: 050.XX PCT
Soluble Potash

Lab	Average*	Index
377	25.27	-.42
131	25.28	-.46
136	25.20	-.54
402	25.16	-.61
177	25.13	-.67
411	25.07	-.77
027	25.09	-.77
376	25.02	-.86
073	24.90	-1.07
422	24.81	-1.22
096	24.80	-1.24
090	24.76	-1.32
368	24.73	-1.38
042	24.74	-1.38
289	24.71	-1.39
254	24.60	-1.59
023	24.54	-1.75
351	24.48	-1.81
262	24.40	-1.95
420	24.36	-2.06
397	24.23 R	-2.38
247	24.08	-2.51
390	23.66 s	-3.38
354	23.03 s	-4.38
406	23.92 s	-5.90

Meth: 060.00 PCT
Free Water
Vacuum Oven

Lab	Average*	Index
361	3.95	2.34
Avg	1.40	
096	1.21	-.18
193	1.05	-.33
320	0.98	-.40
416	0.97	-.40
362	0.88	-.49
007	0.80	-.56

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

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index
Meth: 060.10 PCT		
Free Water		
Vacuum Desiccate		
322	25.74 S	.00
Meth: 060.XX PCT		
Free Water		
322	25.74 s	22.45
361	3.95	2.34
Avg	1.40	
096	1.21	-.18
193	1.05	-.33
320	0.98	-.40
416	0.97	-.40
362	0.88	-.49
007	0.80	-.56
Meth: 101.30 PCT		
Acid Soluble Calcium		
ICP		
247	7.07	2.42
361	6.23	.63
035	6.14	.42
422	6.06	.24
Avg	5.94	
232	5.86	-.18
393	5.86	-.20
320	5.68	-.57
307	5.56	-.83
009	5.53	-.88
102	5.44	-1.08
Meth: 121.00 PCT		
Acid Soluble Magnesi		
AA		
193	0.62	.71
Meth: 121.30 PCT		
Acid Soluble Magnesi		
ICP		
422	0.97	1.99
247	0.95	1.85
Avg	0.63	
307	0.59	-.24
232	0.58	-.27
361	0.56	-.36
102	0.56	-.39
393	0.54	-.54
320	0.53	-.55
009	0.51	-.68
035	0.49	-.80
Meth: 121.XX PCT		
Acid Soluble Magnesi		
422	0.97	2.09
247	0.95	1.94
Avg	0.63	
193	0.62	-.13
307	0.59	-.25
232	0.58	-.28
361	0.56	-.38
102	0.56	-.41
393	0.54	-.57
320	0.53	-.58
009	0.51	-.72
035	0.49	-.84
Meth: 131.00 PCT		
Water Soluble Magnes		
AA		
193	0.18	.71
Meth: 144.01 PCT		
Sulfur		
Gravimetric		
288	0.75	.71
Meth: 144.70 PCT		
Sulfur		
Spectrometric		
393	0.75	.71
Meth: 144.99 PCT		
Sulfur		
Other		
247	2.17 s	65.81
102	0.79	1.15
009	0.77	.48
422	0.77	.46
361	0.77	.43
Avg	0.76	
035	0.75	-.57
232	0.72	-1.79
Meth: 144.XX PCT		
Sulfur		
247	2.17 s	68.91
102	0.79	1.40
422	0.77	.67
009	0.77	.64
361	0.77	.64
Avg	0.76	
035	0.75	-.42
288	0.75	-.63
393	0.75	-.94
232	0.72	-1.68
Meth: 151.00 PPM		
Arsenic		
Atomic Absorption		
040	8.19	1.28
Avg	6.38	
233	5.60	-.57
136	5.35	-.73
Meth: 151.30 PPM		
Arsenic		
ICP		
247	6.50	.83
106	6.20	.73
102	5.93	.33
096	5.80	.14
Avg	5.66	
376	3.85	-1.78
Meth: 151.99 PPM		
Arsenic		
Other		
409	6.50	.71
Meth: 151.XX PPM		
Arsenic		
040	8.19	1.92
409	6.50	.62
106	6.20	.47
247	6.50	.44
Avg	5.99	
096	5.80	-.17
102	5.93	-.18
233	5.60	-.38
136	5.35	-.57
376	3.85	-1.87
Meth: 165.99 PCT		
Acid Soluble Boron		
Other		
009	0.042	1.27
Avg	0.018	
422	0.010	-.43
232	0.002	-.84
Meth: 181.00 PPM		
Cadmium		
Atomic Absorption		
193	3.05 S	2.86
Meth: 181.00 PPM		
Cadmium		
Atomic Absorption		
233	2.40	1.20
Avg	1.91	
040	1.83	-.22
136	1.50	-1.00
Meth: 181.30 PPM		
Cadmium		
ICP		
368	2.60 s	3.65
106	2.05	1.39
376	2.05	1.39
102	1.81	.58
Avg	1.65	
247	1.60	-.16
232	1.61	-.33
393	1.42	-.78
035	1.35	-1.02
009	1.30	-1.24
Meth: 181.99 PPM		
Cadmium		
Other		
409	2.00	.00
Meth: 181.XX PPM		
Cadmium		
193	3.05 s	3.99
368	2.60 R	2.95
233	2.40	1.97
106	2.05	.93
376	2.05	.93
409	2.00	.77
040	1.83	.27
102	1.81	.25
Avg	1.74	
247	1.60	-.43
232	1.61	-.49

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

Laboratory Averages & Accuracy Indexes

Meth: 181.XX PPM
Cadmium

Lab	Average*	Index
136	1.50	-.73
393	1.42	-.97
035	1.35	-1.18
009	1.30	-1.36

Meth: 190.00 PCT
Water Soluble Chlori
Titrimetric

Lab	Average*	Index
105	20.35	.87
Avg	19.76	
422	19.17	-.87

Meth: 190.99 PCT
Water Soluble Chlori
Other

Lab	Average*	Index
009	20.22	.87
Avg	20.03	
027	19.84	-.87

Meth: 190.XX PCT
Water Soluble Chlori

Lab	Average*	Index
105	20.35	.93
009	20.22	.66
Avg	19.89	
027	19.84	-.12
422	19.17	-1.48

Meth: 191.00 PPM
Chromium
Atomic Absorption

Lab	Average*	Index
193	74.00 S	82.10
296	57.65	.71
Avg	57.65	

Meth: 191.30 PPM
Chromium
ICP

Lab	Average*	Index
009	56.80	1.64

Meth: 191.30 PPM
Chromium
ICP

Lab	Average*	Index
049	55.50	1.21
247	54.00	.77
368	53.71	.71
393	51.63	.14
Avg	51.08	
102	50.82	-.07
376	49.85	-.33
096	50.00	-.39
105	47.90	-1.00
232	46.50	-1.20
035	45.20	-1.59

Meth: 191.99 PPM
Chromium
Other

Lab	Average*	Index
409	52.00	.00

Meth: 191.XX PPM
Chromium

Lab	Average*	Index
193	74.00 s	6.36
296	57.65	1.74
009	56.80 R	1.65
049	55.50	1.21
247	54.00	.75
368	53.71	.70
409	52.00	.21
393	51.63	.11
Avg	51.23	
102	50.82	-.11
376	49.85	-.37
096	50.00	-.43
105	47.90	-1.06
232	46.50	-1.28
035	45.20	-1.68

Meth: 202.00 PPM
Acid Soluble Cobalt
AA

Lab	Average*	Index
193	11.00 S	.00

Meth: 202.30 PPM
Acid Soluble Cobalt
ICP

Lab	Average*	Index
096	6.00	2.17
009	5.00	1.11
040	4.30	.43
Avg	3.95	
368	3.83	-.13
035	3.82	-.19
105	3.85	-.19
102	3.75	-.25
232	3.10	-.90
247	3.00	-1.01
106	2.85	-1.17
320	2.50 R	-1.63

Meth: 202.99 PPM
Acid Soluble Cobalt
Other

Lab	Average*	Index
409	5.00	.00

Meth: 202.XX PPM
Acid Soluble Cobalt

Lab	Average*	Index
193	11.00 s	7.33
096	6.00	2.06
009	5.00	1.01
409	5.00	1.01
040	4.30	.34
Avg	4.05	
368	3.83	-.23
105	3.85	-.26
035	3.82	-.27
102	3.75	-.34
232	3.10	-1.00
247	3.00	-1.10

Meth: 202.XX PPM
Acid Soluble Cobalt

Lab	Average*	Index
106	2.85	-1.26
320	2.50 R	-1.71

Meth: 221.00 PCT
Acid Soluble Copper
Atomic Absorption

Lab	Average*	Index
296	0.0008 R	1.90
043	0.0008	1.20
193	0.0005	.33
Avg	0.0005	
029	0.0005	-.21
397	0.0001	-1.38

Meth: 221.30 PCT
Acid Soluble Copper
ICP

Lab	Average*	Index
368	5.3750 S	4.63
393	2.0000 R	1.24
096	2.0000	1.24
232	1.8500	1.09
Avg	0.7703	
422	0.0010	-.77
105	0.0004	-.77
330	0.0003	-.77

Meth: 221.99 PCT
Acid Soluble Copper
Other

Lab	Average*	Index
409	1.5000	.71

Meth: 221.XX PCT
Acid Soluble Copper

Lab	Average*	Index
368	5.3750 s	5.44
393	2.0000	1.65
096	2.0000	1.65
232	1.8500	1.48
409	1.5000 R	1.22
Avg	0.5322	

Meth: 221.XX PCT
Acid Soluble Copper

Lab	Average*	Index
422	0.0010	-.60
043	0.0008	-.60
296	0.0008	-.60
193	0.0005	-.60
029	0.0005	-.60
105	0.0004	-.60
330	0.0003	-.60
397	0.0001	-.60

Meth: 241.00 PCT
Acid Soluble Iron
Atomic Absorption

Lab	Average*	Index
193	0.50	.71

Meth: 241.30 PCT
Acid Soluble Iron
ICP

Lab	Average*	Index
247	0.76 s	6.15
422	0.60	1.74
035	0.56	.66
102	0.56	.38
Avg	0.54	
009	0.54	-.10
320	0.54 R	-.28
402	0.53	-.50
096	0.52	-.66
232	0.49	-1.48

Meth: 241.99 PCT
Acid Soluble Iron
Other

Lab	Average*	Index
362	0.71	.71

Meth: 241.XX PCT
Acid Soluble Iron

Lab	Average*	Index
247	0.76	2.63
362	0.71 R	2.05
422	0.60	.59

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

Laboratory Averages & Accuracy Indexes

Meth: 241.XX PCT
Acid Soluble Iron

Lab	Average*	Index
035	0.56	.10
Avg	0.56	
102	0.56	-.09
320	0.54	-.26
009	0.54	-.27
402	0.53	-.45
096	0.52	-.53
193	0.50	-.87
232	0.49	-.91

Meth: 251.00 PPM
Lead
Atomic Absorption

Lab	Average*	Index
397	5.27	1.24
Avg	3.29	
040	2.61	-.46
136	2.00	-.86

Meth: 251.30 PPM
Lead
ICP

Lab	Average*	Index
393	99.65 S	88.09
368	3.35	1.31
Avg	2.15	
106	1.90	-.23
102	1.20	-.86

Meth: 251.99 PPM
Lead
Other

Lab	Average*	Index
376	3.45	.98
Avg	2.73	
409	2.00	-.73

Meth: 251.XX PPM
Lead

Lab	Average*	Index
393	99.65 s	73.87
397	5.27	1.95

Meth: 251.XX PPM
Lead

Lab	Average*	Index
368	3.35	.78
376	3.45	.74
Avg	2.72	
040	2.61	-.23
409	2.00	-.55
106	1.90	-.63
136	2.00	-.67
102	1.20	-1.16

Meth: 261.00 PCT
Acid Soluble Mangane
AA

Lab	Average*	Index
193	0.016	.71

Meth: 261.30 PCT
Acid Soluble Mangane
ICP

Lab	Average*	Index
402	0.016	1.81
009	0.015	.95
102	0.015	.23
049	0.015	.18
Avg	0.015	
096	0.015	-.08
232	0.014	-.64
320	0.014	-1.13
247	0.014	-1.25
035	0.014 R	-1.82
422	0.013 s	-3.31

Meth: 261.XX PCT
Acid Soluble Mangane

Lab	Average*	Index
402	0.016	1.80
193	0.016 R	1.30
009	0.015	1.03
102	0.015	.38
049	0.015	.24
096	0.015	.19
Avg	0.015	

Meth: 261.XX PCT
Acid Soluble Mangane

Lab	Average*	Index
232	0.014	-.40
320	0.014	-.85
247	0.014	-.96
035	0.014	-1.47
422	0.013 s	-2.83

Meth: 281.00 PPM
Mercury
Atomic Absorption

Lab	Average*	Index
193	0.04	-.71

Meth: 281.30 PPM
Mercury
ICP

Lab	Average*	Index
040	11.55	.71

Meth: 281.XX PPM
Mercury

Lab	Average*	Index
040	11.55	.87
Avg	5.79	
193	0.04	-.86

Meth: 289.00 PPM
Molybdenum
Atomic Absorption

Lab	Average*	Index
040	5.15	.83
Avg	4.70	
296	4.25	-.90

Meth: 289.30 PPM
Molybdenum
ICP

Lab	Average*	Index
393	13.30 s	6.73
096	6.00	1.36
368	5.27	.82
232	4.88 R	.57
106	4.80	.48
102	4.32	.14

Meth: 289.30 PPM
Molybdenum
ICP

Lab	Average*	Index
035	4.30	.12
Avg	4.14	
247	3.90	-.18
009	3.20	-.69
422	1.36	-2.04

Meth: 289.99 PPM
Molybdenum
Other

Lab	Average*	Index
409	6.00	.00

Meth: 289.XX PPM
Molybdenum

Lab	Average*	Index
393	13.30 s	6.53
096	6.00	1.16
409	6.00	1.16
368	5.27	.61
040	5.15	.54
232	4.88 R	.38
106	4.80	.27
Avg	4.43	
102	4.32	-.09
035	4.30	-.10
296	4.25 R	-.23
247	3.90	-.39
009	3.20	-.91
422	1.36	-2.26

Meth: 291.00 PPM
Nickel
Atomic Absorption

Lab	Average*	Index
193	19.00 S	6.74
136	13.00	1.14
Avg	12.58	
296	12.15	-.45

Meth: 291.30 PPM
Nickel
ICP

Lab	Average*	Index
368	39.28 s	30.99
096	12.00	1.71
049	11.00	.98
376	11.10	.77
102	10.65	.26
Avg	10.41	
232	10.25	-.18
393	10.39	-.30
106	9.85	-.62
247	9.30	-1.19
035	9.14	-1.43
105	9.75 R	-1.71
009	4.35 s	-6.52

Meth: 291.99 PPM
Nickel
Other

Lab	Average*	Index
409	11.00	.00

Meth: 291.XX PPM
Nickel

Lab	Average*	Index
368	39.28 s	23.79
193	19.00 s	6.84
136	13.00	2.01
296	12.15	1.11
096	12.00	.99
049	11.00	.60
376	11.10	.29
409	11.00	.15
Avg	10.82	
102	10.65	-.15
393	10.39	-.43
232	10.25	-.48
106	9.85	-.82
247	9.30	-1.27
035	9.14	-1.44
105	9.75 R	-1.50

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

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index
Meth: 291.XX PPM		
Nickel		
009	4.35 s	-5.42
Meth: 301.00 PPM		
Selenium		
Atomic Absorption		
040	0.15	-.71
Meth: 301.99 PPM		
Selenium		
Other		
296	0.12	.71
Meth: 301.XX PPM		
Selenium		
040	0.15	.83
Avg	0.13	
296	0.12	-.90
Meth: 311.00 PCT		
Sodium		
Atomic Absorption		
193	0.62	.71
Meth: 311.30 PCT		
Sodium		
Flame Photometric		
320	0.58	.71
Meth: 311.99 PCT		
Sodium		
Other		
232	0.65	.88
422	0.64	.60
102	0.63	.26
307	0.62	.21
009	0.62	.18
Avg	0.62	
035	0.54	-2.05

Lab	Average*	Index
Meth: 311.XX PCT		
Sodium		
232	0.65	1.06
422	0.64	.76
102	0.63	.38
193	0.62	.35
307	0.62	.33
009	0.62	.29
Avg	0.61	
320	0.58	-.81
035	0.54	-2.16
Meth: 321.00 PCT		
Acid Soluble Zinc		
Atomic Absorption		
029	0.004	1.01
193	0.004	.90
043	0.004	.87
Avg	0.004	
296	0.003	-.86
028	0.003	-1.08
Meth: 321.30 PCT		
Acid Soluble Zinc		
ICP		
247	0.006	2.56
422	0.006	1.90
393	0.005 R	1.66
368	0.004	.73
330	0.003	.17
Avg	0.003	
009	0.003	-.07
389	0.003	-.09
096	0.003	-.14
232	0.003	-.21
320	0.003	-.29
040	0.003	-.46
035	0.002	-.60
102	0.002	-.66
105	0.002	-.87

Lab	Average*	Index
Meth: 321.30 PCT		
Acid Soluble Zinc		
ICP		
095	0.002	-.87
106	0.002	-1.03
Meth: 321.99 PCT		
Acid Soluble Zinc		
Other		
409	0.008	.71
Meth: 321.XX PCT		
Acid Soluble Zinc		
409	0.008	2.77
247	0.006	1.90
422	0.006	1.36
393	0.005 R	1.19
029	0.004	.68
193	0.004	.63
043	0.004 R	.52
368	0.004	.41
Avg	0.003	
330	0.003	-.21
009	0.003	-.27
389	0.003	-.29
096	0.003	-.32
296	0.003	-.36
232	0.003	-.39
320	0.003	-.45
028	0.003	-.49
040	0.003	-.57
035	0.002	-.71
102	0.002	-.74
095	0.002	-.94
105	0.002	-.94
106	0.002	-1.06

* 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. - 200406 Grade 6-24-24

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
001.10	9	0.00	1.01	0.20
001.99	12	0.00	0.99	0.24
001.XX	20	- 0.16	1.14	0.28
009.10	5	0.00	1.04	0.16
009.XX	5	0.00	1.04	0.16
010.11	7	0.00	0.97	0.35
010.12	5	8.38	18.77	0.25
010.60	52	0.47	2.98	0.56
010.99	8	- 0.34	1.32	0.31
010.XX	69	0.51	3.01	0.49
020.10	8	0.02	0.91	0.64
020.20	22	- 0.70	2.26	0.53
020.40	8	0.00	0.92	0.45
020.50	8	1.22	2.31	1.57
020.XX	43	- 0.07	2.17	0.92
030.10	2	0.00	0.82	0.65
030.40	2	0.00	1.19	0.21
030.XX	5	0.00	0.95	0.43
040.10	2	0.00	1.18	0.24
040.20	2	0.00	0.93	0.57
040.40	2	0.00	1.17	0.26
040.XX	6	0.00	0.99	0.31
041.10	18	- 0.12	1.01	0.20
041.20	6	0.00	1.04	0.12
041.40	5	0.49	1.42	0.74
041.50	8	0.40	1.47	0.20
041.60	13	0.45	1.85	0.35
041.XX	43	0.37	1.71	0.35
048.20	4	0.00	1.01	0.33
048.XX	4	0.00	1.01	0.33
050.00	22	0.02	0.96	0.29
050.30	11	- 0.14	1.07	0.19
050.50	4	- 1.50	3.12	0.44
050.51	9	- 0.21	1.15	0.19
050.60	6	0.08	3.08	2.72
050.61	8	- 0.09	0.98	0.56
050.99	13	0.03	1.42	0.38
050.XX	70	- 0.06	1.42	0.68
060.00	7	0.00	1.04	0.02
060.XX	8	2.81	8.00	0.02
101.30	10	0.00	1.02	0.07
101.XX	10	0.00	1.02	0.07
121.30	10	0.00	1.03	0.05
121.XX	11	0.00	1.02	0.06
144.99	7	9.40	24.89	0.33
144.XX	9	7.66	22.99	0.40
151.00	3	0.00	1.11	0.09
151.30	5	0.00	1.02	0.24
151.XX	9	0.00	1.00	0.23
165.99	3	0.000	1.118	0.020
165.XX	3	0.000	1.118	0.020
181.00	4	0.70	1.67	0.31
181.30	9	0.36	1.44	0.58
181.XX	14	0.46	1.53	0.45
190.00	2	0.00	1.22	0.04
190.99	2	0.00	1.22	0.04
190.XX	4	0.00	1.08	0.04
191.00	2	38.54	54.50	20.01
191.30	11	0.00	0.97	0.32
191.XX	14	0.55	1.90	0.52
202.30	11	- 0.14	1.07	0.19
202.XX	13	0.44	2.32	0.17
221.00	5	0.2396	1.0701	0.6697
221.30	7	0.8374	1.9373	0.0625
221.XX	13	0.5023	1.7796	0.1641
241.30	9	0.68	2.24	0.13
241.XX	11	0.18	1.15	0.10
251.00	3	0.00	1.08	0.22
251.30	4	22.02	44.05	0.37
251.99	2	0.00	1.03	0.46
251.XX	9	8.21	24.64	0.31
261.30	10	- 0.464	1.363	0.537
261.XX	11	- 0.123	1.233	0.509
281.XX	2	0.000	1.220	0.079
289.00	2	0.00	1.11	0.36
289.30	10	0.73	2.31	0.07
289.XX	13	0.52	2.02	0.09
291.00	3	2.25	3.92	0.61

MAGRUDER - Fertilizer Check Sample No. - 200406 Grade 6-24-24

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
291.30	12	1.98	9.36	0.61
291.XX	16	1.52	6.41	0.46
301.XX	2	0.00	1.11	0.37
311.99	6	0.00	1.04	0.12
311.XX	8	0.00	1.02	0.15
321.00	5	0.000	0.938	0.443
321.30	16	0.092	1.038	0.248
321.XX	21	- 0.006	0.961	0.204

Method Code	Number Of Labs	Avg Bias of Labs	Std Dev of Biases	Std Dev Within Labs