MAGRUDER - Fertilizer Check Sample No. - 200206 Grade 10-10-10

Method	AOAC Ref.	Method Code	- Pass 1 Results for 85 Labs - No. of Labs	Grand Avg.	Std. Dev.	Average Range of Dups	- Pass 2 Results for 85 Labs - No. of Labs	Grand Avg.	Std. Dev.	Average Range of Dups
Ammoniacal Nitrogen, Other		001.99	4	9.4938	0.2061	0.2225	4	9.4938	0.2061	0.2225
Nitrate Nitrogen, Other		002.99	1	0.2100	0.0000	0.0000	1	0.2100	0.0000	0.0000
Ammon & Nitrate N, Devarda	892.01	009.10	7	9.4673	0.1926	0.0614	7	9.4673	0.1926	0.0614
Total Nitrogen, Reduced Iron		010.10	1	9.6950	0.0495	0.0700	1	9.6950	0.0495	0.0700
Total Nitrogen, Modified Comprehensive	978.02	010.11	12	9.6064	0.2058	0.0431	12	9.6535	0.2571	0.0323
Total Nitrogen, Salicylic	955.04D	010.12	7	9.5404	0.1011	0.0754	7	9.5404	0.1011	0.0754
Total Nitrogen, Combustion		010.60	44	9.6603	0.1291	0.0894	41	9.6584	0.1214	0.0672
Total Nitrogen, Other		010.99	4	9.5968	0.1598	0.1760	4	9.5968	0.1598	0.1760
Method Group 010.XX PCT			69	9.6398	0.1522	0.0858	65	9.6361	0.1471	0.0662
Total Phosphate, Grav Quimociac	962.02	020.10	6	10.979	0.1285	0.0827	6	10.979	0.1285	0.0827
Total Phosphate, Spectrometric	958.01	020.20	18	10.859	0.1666	0.0625	17	10.852	0.1670	0.0532
Total Phosphate, Alka. Quimociac	969.02	020.30	1	11.117	0.0934	0.1321	1	11.117	0.0934	0.1321
Total Phosphate, Automated	978.01	020.40	8	10.834	0.1968	0.0688	8	10.834	0.1968	0.0688
Total Phosphate, ICP		020.50	4	10.889	0.4065	0.0974	4	10.889	0.4065	0.0974
Total Phosphate, Other		020.99	1	11.000	0.0000	0.0000	1	11.000	0.0000	0.0000
Method Group 020.XX PCT			40	10.890	0.2496	0.0753	38	10.894	0.2261	0.0645
Insoluble Phosphate, Grav Quimociac ...	963.03C	030.10	2	0.0350	0.0058	0.0000	2	0.0350	0.0058	0.0000
Insoluble Phosphate, Spectrometric	963.03C	030.20	2	0.1550	0.0998	0.0300	2	0.1550	0.0998	0.0300
Insoluble Phosphate, Automated	978.01	030.40	2	0.0775	0.0310	0.0250	2	0.0775	0.0310	0.0250
Insoluble Phosphate, Other		030.99	1	0.0150	0.0071	0.0100	1	0.0150	0.0071	0.0100
Method Group 030.XX PCT			7	0.0786	0.0744	0.0171	7	0.0786	0.0744	0.0171
InDir Available Phosphate, Grav Quim ..	960.02	040.10	2	10.940	0.0548	0.0500	2	10.940	0.0548	0.0500
InDir Available Phosphate, Spectrometri	960.02	040.20	2	10.490	0.0535	0.0600	2	10.490	0.0535	0.0600
InDir Available Phosphate, Automated ..	960.02	040.40	2	10.835	0.1748	0.0400	2	10.835	0.1748	0.0400
InDir Available Phosphate, Other		040.99	1	10.940	0.0141	0.0200	1	10.940	0.0141	0.0200
Method Group 040.XX PCT			7	10.781	0.2169	0.0457	7	10.781	0.2169	0.0457
Dir Available Phosphate, Grav Quim	960.03E	041.10	18	10.906	0.1141	0.0493	17	10.909	0.1141	0.0405
Dir Available Phosphate, Spectrometric	960.03D	041.20	3	10.857	0.1375	0.1218	3	10.857	0.1375	0.1218
Dir Available Phosphate, Alka. Quim ...	960.03C	041.30	1	10.830	0.0000	0.0000	1	10.830	0.0000	0.0000
Dir Available Phosphate, Automated	978.01	041.40	4	10.851	0.0629	0.0175	4	10.851	0.0629	0.0175
Dir Available Phosphate, ICP		041.50	9	10.844	0.2121	0.1045	9	10.844	0.2121	0.1045
Dir Available Phosphate, EDTA Extract .	993.01	041.60	12	10.870	0.1698	0.0920	12	10.870	0.1698	0.0920
Dir Available Phosphate, Other		041.99	1	11.000	0.0283	0.0400	1	11.000	0.0283	0.0400
Method Group 041.XX PCT			48	10.878	0.1486	0.0710	46	10.888	0.1375	0.0635
Water Soluble Phosphate, Spectrometric	970.01	048.20	3	9.3933	0.1802	0.0733	3	9.3933	0.1802	0.0733
Water Soluble Phosphate, Other		048.99	1	8.7250	0.0919	0.1300	1	8.7250	0.0919	0.1300
Method Group 048.XX PCT			4	9.2263	0.3466	0.0875	4	9.2263	0.3466	0.0875
Soluble Potash, STPB Oxalate	958.02	050.00	23	10.357	0.1537	0.0657	22	10.352	0.1525	0.0551
Soluble Potash, AA (Oxalate)		050.30	9	10.070	0.1909	0.0974	9	10.070	0.1909	0.0974

Method	AOAC Ref.	Method Code	- Pass 1 Results for 85 Labs - No. of Labs	Grand Avg.	Std. Dev.	Average Range of Dups	- Pass 2 Results for 85 Labs - No. of Labs	Grand Avg.	Std. Dev.	Average Range of Dups
Soluble Potash, AA (Citrate)		050.31	2	10.210	0.3962	0.3700	2	10.210	0.3962	0.3700
Soluble Potash, ICP (Oxalate)		050.50	5	9.9483	0.2328	0.2579	5	9.9483	0.2328	0.2579
Soluble Potash, ICP (Citrate)		050.51	8	10.236	0.3255	0.0687	7	10.226	0.3449	0.0414
Soluble Potash, Flame (Oxalate)	983.02(a	050.60	7	10.232	0.2272	0.0860	7	10.232	0.2272	0.0860
Soluble Potash, Flame (Citrate)	983.02(b	050.61	8	10.236	0.1257	0.0588	8	10.236	0.1257	0.0588
Soluble Potash, Other		050.99	16	10.257	0.2137	0.0775	14	10.256	0.2230	0.0514
Method Group 050.XX PCT			80	10.238	0.2603	0.0921	77	10.228	0.2399	0.0754
Free Water, Vacuum Oven	965.08B	060.00	6	0.3899	0.0768	0.0502	6	0.3899	0.0768	0.0502
Free Water, Other		060.99	1	0.4400	0.1273	0.1800	1	0.4400	0.1273	0.1800
Method Group 060.XX PCT			7	0.3971	0.0810	0.0687	7	0.3971	0.0810	0.0687
Acid Soluble Calcium, ICP		101.30	5	0.6244	0.1344	0.0236	5	0.6244	0.1344	0.0236
Acid Soluble Magnesium, AA	984.01	121.00	23	1.1657	0.0848	0.0247	22	1.1687	0.0846	0.0204
Acid Soluble Magnesium, ICP		121.30	20	1.2075	0.0821	0.0318	19	1.2140	0.0764	0.0245
Acid Soluble Magnesium, Other		121.99	1	1.1450	0.0354	0.0500	1	1.1450	0.0354	0.0500
Method Group 121.XX PCT			45	1.1784	0.0928	0.0282	43	1.1824	0.0916	0.0228
Water Soluble Magnesium, Other		131.99	1	1.9650	0.1202	0.1700	1	1.9650	0.1202	0.1700
Sulfur, Gravimetric	980.02a	144.01	17	10.578	0.2237	0.1118	16	10.600	0.2052	0.0926
Sulfur, Gravimetric	980.02b	144.02	2	10.210	0.1398	0.0900	2	10.210	0.1398	0.0900
Sulfur, Turbidimetric	63.845	144.50	1	11.500	0.0283	0.0400	1	11.500	0.0283	0.0400
Sulfur, Spectrometric		144.70	1	10.290	0.1273	0.1800	1	10.290	0.1273	0.1800
Sulfur, Other		144.99	19	10.300	0.4906	0.1120	17	10.280	0.3829	0.0452
Method Group 144.XX PCT			40	10.444	0.4288	0.1107	37	10.448	0.3776	0.0716
Arsenic, ICP		151.30	7	5.3475	4.4739	0.5751	6	4.4887	4.1902	0.1376
Arsenic, Other		151.99	2	3.8100	0.2437	0.1300	2	3.8100	0.2437	0.1300
Method Group 151.XX PPM			9	5.0058	3.9685	0.4762	8	4.3190	3.6027	0.1357
Acid Soluble Boron, Spectrometric	982.01	165.00	13	0.0335	0.0035	0.0019	13	0.0335	0.0035	0.0019
Acid Soluble Boron, Titrimetric	949.02	165.70	1	0.0410	0.0014	0.0020	1	0.0410	0.0014	0.0020
Acid Soluble Boron, Other		165.99	16	0.0329	0.0061	0.0022	15	0.0324	0.0054	0.0010
Method Group 165.XX PCT			30	0.0334	0.0052	0.0021	29	0.0332	0.0048	0.0015
Cadmium, Atomic Absorption		181.00	3	2.1366	0.3978	0.2217	3	2.1366	0.3978	0.2217
Cadmium, ICP		181.30	9	1.9866	0.7204	0.2597	9	1.7089	0.9172	0.1486
Cadmium, Other		181.99	2	2.0000	0.0000	0.0000	2	2.0000	0.0000	0.0000
Method Group 181.XX PPM			14	2.0207	0.5999	0.2145	13	1.9838	0.5907	0.1540
Water Soluble Chlorine, Titrimetric ...	928.02	190.00	1	6.6450	0.0212	0.0300	1	6.6450	0.0212	0.0300
Water Soluble Chlorine, Other		190.99	1	6.8475	0.0049	0.0070	1	6.8475	0.0049	0.0070
Method Group 190.XX PCT			2	6.7463	0.1176	0.0185	2	6.7463	0.1176	0.0185
Chromium, Atomic Absorption		191.00	1	210.00	28.284	40.000	1	210.00	28.284	40.000
Chromium, ICP		191.30	4	147.57	40.135	7.2953	4	147.57	40.135	7.2953
Method Group 191.XX PPM			5	160.06	45.106	13.836	5	160.06	45.106	13.836

Method	AOAC Ref.	Method Code	- Pass 1 Results for 85 Labs - No. of Labs	Grand Avg.	Std. Dev.	Average Range of Dups	- Pass 2 Results for 85 Labs - No. of Labs	Grand Avg.	Std. Dev.	Average Range of Dups
Acid Soluble Cobalt, AA		202.00	2	47.313	54.650	2.1850	2	47.313	54.650	2.1850
Acid Soluble Cobalt, ICP	965.11	202.30	10	50.793	36.380	3.4762	9	51.720	38.216	1.8513
Acid Soluble Cobalt, Other		202.99	2	68.500	51.000	17.000	2	68.500	51.000	17.000
Method Group 202.XX PPM			14	52.825	39.952	5.2237	12	55.926	41.947	1.7527
Acid Soluble Copper, Atomic Absorption	975.01	221.00	6	0.0063	0.0008	0.0002	6	0.0063	0.0008	0.0002
Acid Soluble Copper, ICP		221.30	13	0.0065	0.0006	0.0003	13	0.0065	0.0006	0.0003
Acid Soluble Copper, Other		221.99	1	0.0070	0.0001	0.0001	1	0.0070	0.0001	0.0001
Method Group 221.XX PCT			20	0.0064	0.0007	0.0002	20	0.0064	0.0007	0.0002
Acid Soluble Iron, Atomic Absorption ..	980.01	241.00	17	0.6798	0.0812	0.0255	15	0.6815	0.0842	0.0149
Acid Soluble Iron, ICP		241.30	22	0.6218	0.1118	0.0218	20	0.6210	0.1161	0.0162
Acid Soluble Iron, Other		241.99	2	0.5964	0.1199	0.0108	2	0.5964	0.1199	0.0108
Method Group 241.XX PCT			41	0.6446	0.1038	0.0228	37	0.6442	0.1077	0.0154
Lead, Atomic Absorption		251.00	2	21.420	5.5347	2.0365	2	21.420	5.5347	2.0365
Lead, ICP		251.30	11	18.233	6.1887	1.3977	10	17.706	6.2018	1.0375
Lead, Other		251.99	2	17.573	4.2347	1.8450	2	17.573	4.2347	1.8450
Method Group 251.XX PPM			15	18.570	5.8398	1.5425	15	18.570	5.8398	1.5425
Acid Soluble Manganese, AA	972.02a	261.00	15	0.1080	0.0119	0.0052	15	0.1080	0.0119	0.0052
Acid Soluble Manganese, AA	972.02b	261.11	4	0.1063	0.0106	0.0040	4	0.1063	0.0106	0.0040
Acid Soluble Manganese, ICP	972.02a	261.30	20	0.1085	0.0120	0.0071	20	0.1085	0.0120	0.0071
Acid Soluble Manganese, ICP	972.02b	261.31	1	0.1350	0.0071	0.0100	1	0.1350	0.0071	0.0100
Acid Soluble Manganese, Other		261.99	3	0.1058	0.0066	0.0047	3	0.1058	0.0066	0.0047
Method Group 261.XX PCT			43	0.1086	0.0120	0.0060	41	0.1083	0.0120	0.0054
Water Soluble Manganese, Atomic Abs. ..	972.03	271.00	3	0.0633	0.0472	0.0025	3	0.0633	0.0472	0.0025
Water Soluble Manganese, Other		271.99	1	0.0334	0.0018	0.0025	1	0.0334	0.0018	0.0025
Method Group 271.XX PCT			4	0.0558	0.0422	0.0025	4	0.0558	0.0422	0.0025
Mercury, ICP		281.30	2	0.5809	0.0222	0.0033	2	0.5809	0.0222	0.0033
Mercury, Other		281.99	2	0.0652	0.0524	0.0125	2	0.0652	0.0524	0.0125
Method Group 281.XX PPM			4	0.3231	0.2782	0.0079	4	0.3231	0.2782	0.0079
Molybdenum, ICP		289.30	12	9.6024	4.6821	0.6013	11	10.021	4.6598	0.4741
Molybdenum, Other		289.99	2	10.600	3.9268	0.1000	2	10.600	3.9268	0.1000
Method Group 289.XX PPM			14	9.7449	4.5292	0.5296	13	10.110	4.4872	0.4165
Nickel, Atomic Absorption		291.00	1	77.000	9.8995	14.000	1	77.000	9.8995	14.000
Nickel, ICP		291.30	11	74.929	12.268	2.6039	11	74.929	12.268	2.6039
Nickel, Other		291.99	3	64.117	20.869	7.1667	3	64.117	20.869	7.1667
Method Group 291.XX PPM			15	72.905	14.411	4.2762	14	72.612	14.769	3.5816
Selenium, ICP		301.30	1	0.5850	0.0000	0.0000	1	0.5850	0.0000	0.0000
Selenium, Other		301.99	3	0.0967	0.0197	0.0200	3	0.0967	0.0197	0.0200
Method Group 301.XX PPM			4	0.2188	0.2267	0.0150	4	0.2188	0.2267	0.0150
Sodium, Atomic Absorption	983.04	311.00	1	0.3315	0.0035	0.0050	1	0.3315	0.0035	0.0050

Method	AOAC Ref.	Method Code	- Pass 1 Results for 85 Labs - No. of Labs	Grand Avg.	Std. Dev.	Average Range of Dups	- Pass 2 Results for 85 Labs - No. of Labs	Grand Avg.	Std. Dev.	Average Range of Dups
Sodium, Other		311.99	4	0.3279	0.0444	0.0141	4	0.3279	0.0444	0.0141
Method Group 311.XX PCT			5	0.3286	0.0392	0.0123	5	0.3286	0.0392	0.0123
Acid Soluble Zinc, Atomic Absorption ..	975.02	321.00	24	0.1059	0.0092	0.0053	24	0.1059	0.0092	0.0053
Acid Soluble Zin, ICP		321.30	25	0.1082	0.0099	0.0054	24	0.1073	0.0088	0.0047
Acid Soluble Zinc, Other		321.99	1	0.0980	0.0034	0.0048	1	0.0980	0.0034	0.0048
Method Group 321.XX PCT			50	0.1069	0.0096	0.0053	49	0.1064	0.0090	0.0050

MAGRUDER - Fertilizer Check Sample No. - 200206 Grade 10-10-10

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index
--	Method 001.99 --	
402	9.6600	1.30
320	9.5650	.47
Avg	9.4937	
418	9.4750 X	-.66
193	9.2750	-1.07
--	Method 002.99 --	
288	0.2100	.00
--	Method 009.10 --	
392	9.7180	1.31
391	9.6500	.98
200	9.6100	.74
Avg	9.4673	
169	9.4030	-.34
258	9.3700	-.57
030	9.3500	-.66
257	9.1700	-1.55
--	Method 010.10 --	
405	9.6950	.71
--	Method 010.11 --	
211	10.160 S	1.97
363	10.025	1.45
090	9.8850	.90
288	9.7600	.42
028	9.6700	.10
Avg	9.6074	
220	9.6350	-.07
105	9.5950 R	-.40
029	9.5400	-.44
395	9.5300	-.48
414	9.5000	-.60
114	9.4850	-.66
073	9.3300	-1.27
322	9.3214	-1.29

Lab	Average*	Index
--	Method 010.12 --	
376	9.9550 s	4.19
416	9.5637	1.22
102	9.6633	1.22
137	9.5900	.50
415	9.5453	.26
Avg	9.5404	
397	9.5349	-.11
351	9.4955	-.45
185	9.3900	-1.73
--	Method 010.60 --	
372	10.335 s	5.58
292	10.260 s	4.97
409	9.9650	2.54
057	9.7500 R	2.04
402	9.6600 R	1.73
394	9.8650	1.71
234	9.8250	1.44
361	9.7950	1.13
157	9.7850	1.04
049	9.7650	.99
377	9.7100	.93
037	9.7000	.89
275	9.7550	.80
035	9.6750	.55
233	9.7200	.53
086	9.7100	.46
356	9.7100	.46
028	9.7050	.44
389	9.7050	.39
136	9.6900	.31
096	9.6950	.30
247	9.6850	.25
024	9.6800	.24
131	9.6755	.18
Avg	9.6584	
296	9.6550	-.05
040	9.6450	-.12

Lab	Average*	Index
--	Method 010.60 --	
027	9.6475	-.14
029	9.6500	-.18
095	9.6550	-.21
369	9.6200	-.33
009	9.6200	-.33
291	9.6100	-.41
324	9.6150	-.41
055	9.6150	-.46
007	9.6000	-.48
220	9.6400	-.60
231	9.5800	-.69
325	9.5550	-.86
043	9.6050	-.97
360	9.5650	-.99
023	9.5500	-1.06
232	9.5200	-1.14
330	9.6500 R	-1.24
041	9.4850	-1.81
025	9.3850	-2.27
262	9.3600	-2.51
042	8.8700 s	-6.61
142	8.4000 s	-10.37
--	Method 010.99 --	
354	10.163 S	3.68
105	9.7400	1.64
Avg	9.5968	
024	9.5800	-.10
362	9.5750	-.43
177	9.4920	-.78
--	Method 010.XX --	
372	10.335 s	4.76
292	10.260 s	4.25
354	10.163 s	3.74
211	10.160 s	3.56
363	10.025	2.65
409	9.9650	2.25

Lab	Average*	Index
--	Method 010.XX --	
376	9.9550	2.24
057	9.7500 R	1.74
090	9.8850	1.69
105	9.7400 R	1.65
394	9.8650	1.56
402	9.6600 R	1.44
234	9.8250	1.34
361	9.7950	1.08
330	9.6500 R	1.02
157	9.7850	1.01
049	9.7650	.95
377	9.7100	.85
288	9.7600	.84
275	9.7550	.81
037	9.7000	.81
233	9.7200	.59
086	9.7100	.52
356	9.7100	.52
035	9.6750	.51
028	9.7050	.50
220	9.6400	.48
389	9.7050	.47
405	9.6950	.47
096	9.6950	.40
136	9.6900	.39
247	9.6850	.35
024	9.6800	.33
131	9.6755	.29
028	9.6700	.27
095	9.6550	.21
102	9.6633	.18
029	9.6500	.17
296	9.6550	.13
027	9.6475	.11
040	9.6450	.07
Avg	9.6361	
220	9.6350	-.03
369	9.6200	-.13

Lab	Average*	Index
--	Method 010.XX --	
009	9.6200	-.13
291	9.6100	-.19
324	9.6150	-.22
007	9.6000	-.25
055	9.6150	-.28
137	9.5900	-.32
024	9.5800	-.38
231	9.5800	-.43
325	9.5550	-.56
362	9.5750	-.61
415	9.5453	-.64
105	9.5950	-.64
029	9.5400	-.66
397	9.5349	-.69
360	9.5650	-.70
395	9.5300	-.72
043	9.6050	-.74
023	9.5500	-.75
232	9.5200	-.79
414	9.5000	-.94
416	9.5637	-.96
351	9.4955	-.96
114	9.4850	-1.03
177	9.4920	-1.08
041	9.4850	-1.38
025	9.3850	-1.72
185	9.3900	-1.78
262	9.3600	-1.92
073	9.3300	-2.11
322	9.3214	-2.14
042	8.8700 s	-5.31
142	8.4000 s	-8.41
--	Method 020.10 --	
095	11.200	1.86
405	11.005	.41
Avg	10.979	
114	10.960	-.16

* 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. - 200206 Grade 10-10-10

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index
--	Method 020.10 --	
105	10.955	-.40
090	10.927	-.44
414	10.825	-1.23
--	Method 020.20 --	
391	11.950 s	6.63
292	11.220	2.21
258	11.065	1.27
324	11.060	1.25
362	11.020	1.02
395	10.970 R	.97
231	10.900	.66
369	10.930	.47
257	10.870	.21
Avg	10.852	
169	10.838	-.12
356	10.850	-.24
372	10.795	-.34
392	10.775	-.46
200	10.760	-.56
232	10.755	-.59
030	10.700	-.91
363	10.695	-.98
418	10.660 X	-1.18
220	10.595	-1.56
234	10.310 s	-3.34
--	Method 020.30 --	
416	11.117	.71
--	Method 020.40 --	
193	11.600 s	3.89
142	11.060	1.15
247	11.040	1.05
394	11.005	.88
105	10.870	.40
Avg	10.834	
096	10.815	-.16
--	Method 020.40 --	
409	10.740	-.48
035	10.615	-1.21
042	10.530	-1.56
--	Method 020.99 --	
320	11.000	.00
--	Method 020.XX --	
391	11.950 s	4.72
193	11.600	3.13
330	11.300 R	1.91
292	11.220	1.45
361	11.220	1.44
095	11.200	1.41
416	11.117	1.03
258	11.065	.76
324	11.060	.74
142	11.060	.73
247	11.040	.65
395	10.970	.59
362	11.020	.57
405	11.005	.53
394	11.005	.50
320	11.000	.47
231	10.900	.44
105	10.955	.33
114	10.960	.29
090	10.927	.18
369	10.930	.16
Avg	10.894	
--	Method 020.XX --	
257	10.870	-.17
169	10.838	-.26
356	10.850	-.26
105	10.870	-.33
414	10.825	-.34
096	10.815	-.37
372	10.795	-.44
392	10.775	-.53
200	10.760	-.60
232	10.755	-.62
409	10.740	-.68
030	10.700	-.86
363	10.695	-.90
418	10.660 X	-1.05
035	10.615	-1.30
220	10.595	-1.34
042	10.530	-1.62
389	10.525	-1.63
157	10.509	-1.70
234	10.310 R	-2.65
402	10.415 s	-3.77
--	Method 030.10 --	
090	0.0400	.87
405	0.0300	-.87
--	Method 030.20 --	
363	0.2400	.86
Avg	0.1550	
220	0.0700	-.87
--	Method 030.40 --	
247	0.1000	.97
Avg	0.0775	
409	0.0550	-.74
--	Method 030.99 --	
320	0.0150	.71
--	Method 030.XX --	
363	0.2400	2.17
247	0.1000	.39
Avg	0.0786	
220	0.0700	-.29
409	0.0550	-.32
090	0.0400	-.52
405	0.0300	-.65
320	0.0150	-.86
--	Method 040.10 --	
405	10.975	1.04
Avg	10.940	
090	10.905	-.65
--	Method 040.20 --	
220	10.525	.80
Avg	10.490	
363	10.455	-.92
--	Method 040.40 --	
394	10.985	.87
Avg	10.835	
409	10.685	-.86
--	Method 040.99 --	
247	10.940	.71
--	Method 040.XX --	
394	10.985	.95
405	10.975	.92
247	10.940	.73
090	10.905	.57
Avg	10.781	
409	10.685	-.45
220	10.525	-1.19
363	10.455	-1.51
--	Method 041.10 --	
322	22.465 s	101.32
211	11.185	2.42
296	11.140	2.03
055	10.980	.71
136	10.960	.46
131	10.950	.45
041	10.925	.26
029	10.910	.09
Avg	10.909	
185	10.880	-.27
040	10.880	-.37
028	10.865	-.39
177	10.855	-.47
233	10.845	-.56
414	10.860	-.61
105	10.860	-.68
102	10.807	-.89
137	10.800	-.96
049	10.850 R	-1.02
086	10.750	-1.44
--	Method 041.20 --	
055	10.985	.97
Avg	10.857	
362	10.815	-.31
415	10.770	-1.21
--	Method 041.30 --	
260	10.830	.00
--	Method 041.40 --	
131	10.950	1.58
Avg	10.851	
029	10.830	-.37
025	10.825	-.42

* 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. - 200206 Grade 10-10-10

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index
--	Method 041.40	--
027	10.800	-.83
--	Method 041.50	--
361	11.940 S	5.17
291	11.870 S	4.84
354	11.227	1.81
023	10.990	.76
376	10.950	.60
300	10.955	.58
Avg	10.844	
325	10.825	-.09
360	10.800	-.28
007	10.650	-.95
393	10.600	-1.17
009	10.600	-1.26
--	Method 041.60	--
105	11.445 s	3.95
296	11.145	1.64
095	11.050	1.19
024	11.010	1.05
037	10.905	.49
028	10.895	.15
177	10.877	.05
Avg	10.870	
043	10.820	-.30
288	10.805	-.38
073	10.855	-.39
397	10.807	-.40
351	10.766	-.62
377	10.500	-2.25
262	10.200 s	-3.94
--	Method 041.99	--
057	11.000	.71
--	Method 041.XX	--
322	22.465 s	84.22
--	Method 041.XX	--
361	11.940 s	7.65
291	11.870 s	7.14
105	11.445 s	4.76
354	11.227	2.46
211	11.185	2.16
296	11.145	1.90
296	11.140	1.84
095	11.050	1.35
024	11.010	1.19
023	10.990	.90
057	11.000	.82
055	10.985	.75
055	10.980	.73
376	10.950	.68
300	10.955	.63
037	10.905	.56
136	10.960	.53
131	10.950	.50
131	10.950	.45
041	10.925	.32
029	10.910	.17
028	10.895	.06
Avg	10.888	
177	10.877	-.09
185	10.880	-.10
028	10.865	-.17
040	10.880	-.23
177	10.855	-.24
233	10.845	-.32
414	10.860	-.42
260	10.830	-.43
029	10.830	-.43
325	10.825	-.46
025	10.825	-.46
105	10.860	-.48
043	10.820	-.50
073	10.855	-.53
362	10.815	-.54
--	Method 041.XX	--
102	10.807	-.59
288	10.805	-.61
397	10.807	-.62
137	10.800	-.64
027	10.800	-.65
360	10.800	-.71
049	10.850	-.78
351	10.766	-.90
086	10.750	-1.05
415	10.770 R	-1.35
007	10.650	-1.77
393	10.600	-2.13
009	10.600	-2.25
377	10.500 A	-2.92
262	10.200 s	-5.01
--	Method 048.20	--
247	9.5400	.93
362	9.4650	.41
Avg	9.3933	
363	9.1750	-1.21
--	Method 048.99	--
275	8.7250 X	.71
--	Method 048.XX	--
247	9.5400	.93
362	9.4650	.69
Avg	9.2263	
363	9.1750	-.15
275	8.7250 X	-1.46
--	Method 050.00	--
095	11.010 s	4.31
193	10.730	2.49
391	10.450 R	1.17
257	10.520	1.12
049	10.500	.98
--	Method 050.00	--
043	10.475	.91
090	10.475	.88
233	10.440	.87
416	10.441	.59
055	10.420	.45
028	10.390	.28
029	10.375	.15
211	10.375	.15
102	10.355	.02
Avg	10.352	
392	10.329	-.19
258	10.295	-.38
418	10.290 X	-.41
220	10.290	-.67
296	10.225	-.84
350	10.215	-.91
345	10.215	-.93
131	10.175	-1.16
231	10.175	-1.26
372	10.050	-1.98
--	Method 050.10	--
322	16.092 S	.00
--	Method 050.30	--
114	14.930 s	25.55
137	10.405	1.76
095	10.245	.94
040	10.075	.66
142	10.180	.59
Avg	10.070	
234	10.030	-.34
405	9.9600	-.59
185	10.000	-.64
136	9.9650	-.65
351	9.7695	-1.58
--	Method 050.31	--
086	10.440	1.08
Avg	10.210	
262	9.9800	-.58
--	Method 050.50	--
402	10.010	1.74
354	10.059	.66
292	9.9600	.39
157	9.9776	.23
Avg	9.9483	
324	9.7350	-.92
--	Method 050.51	--
007	10.550	.95
361	10.530	.88
023	10.420	.56
377	10.400	.50
009	10.300 R	.43
Avg	10.226	
393	10.180	-.16
389	9.9150	-.90
291	9.5900	-1.85
--	Method 050.60	--
356	10.690	2.06
055	10.300	.53
Avg	10.232	
288	10.215	-.10
105	10.220	-.18
200	10.130	-.45
169	10.102	-.58
415	9.9666	-1.17
025	10.430	1.56
028	10.355	.96
105	10.300	.52
024	10.280	.39

* 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. - 200206 Grade 10-10-10

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index
--	Method 050.61	--
Avg	10.236	
037	10.180	-.71
030	10.150	-.79
035	10.110	-1.03
029	10.080	-1.24
041	9.0900 s	-11.73
--	Method 050.99	--
369	10.695	1.97
394	10.505	1.13
330	10.385	.67
057	10.300 R	.62
325	10.390	.60
360	10.380	.57
376	10.345	.40
177	10.311	.25
Avg	10.256	
027	10.250	-.03
247	10.185	-.32
363	10.205	-.34
042	10.230 R	-.59
275	10.060 X	-.88
362	10.045	-.97
260	9.9950	-1.18
232	9.8300	-1.91
395	9.5250 s	-3.28
--	Method 050.XX	--
322	16.092 s	24.44
114	14.930 s	19.68
095	11.010 A	3.26
193	10.730	2.10
356	10.690	1.97
369	10.695	1.95
086	10.440 R	1.74
007	10.550	1.36
361	10.530	1.26
257	10.520	1.22

Lab	Average*	Index
--	Method 050.XX	--
394	10.505	1.16
049	10.500	1.14
391	10.450	1.12
043	10.475	1.06
090	10.475	1.05
233	10.440	.98
416	10.441	.89
025	10.430	.85
023	10.420	.80
055	10.420	.80
137	10.405	.74
330	10.385	.72
377	10.400	.72
028	10.390	.68
325	10.390	.68
360	10.380	.64
057	10.300	.62
009	10.300	.62
211	10.375	.61
029	10.375	.61
042	10.230	.54
028	10.355	.53
102	10.355	.53
055	10.300	.51
376	10.345	.49
392	10.329	.42
220	10.290	.42
177	10.311	.35
105	10.300	.30
258	10.295	.28
418	10.290 X	.26
024	10.280	.23
095	10.245	.16
027	10.250	.09
Avg	10.228	
296	10.225	-.02
288	10.215	-.08
350	10.215	-.08

Lab	Average*	Index
--	Method 050.XX	--
345	10.215	-.16
105	10.220	-.17
247	10.185	-.19
142	10.180	-.22
131	10.175	-.22
393	10.180	-.24
363	10.205	-.25
037	10.180	-.35
231	10.175	-.38
030	10.150	-.39
200	10.130	-.41
035	10.110	-.51
169	10.102	-.53
029	10.080	-.62
275	10.060 X	-.70
372	10.050	-.74
362	10.045	-.79
040	10.075	-.82
354	10.059	-.83
234	10.030	-.85
260	9.9950	-.98
262	9.9800	-1.04
185	10.000	-1.04
157	9.9776	-1.06
415	9.9666	-1.10
405	9.9600	-1.12
136	9.9650	-1.13
292	9.9600	-1.18
389	9.9150	-1.31
232	9.8300	-1.66
402	10.010 R	-1.90
351	9.7695	-1.91
324	9.7350	-2.06
291	9.5900	-2.66
395	9.5250	-2.93
041	9.0900 s	-6.13

Lab	Average*	Index
--	Method 060.00	--
363	0.7550 S	4.78
247	0.4500	.87
362	0.4500	.82
361	0.4450	.74
193	0.4000	.18
Avg	0.3899	
416	0.3046	-1.16
007	0.2900	-1.46
--	Method 060.99	--
320	0.4400	.71
--	Method 060.XX	--
363	0.7550 s	4.44
320	0.4400	1.23
247	0.4500	.75
362	0.4500	.70
361	0.4450	.62
193	0.4000	.13
Avg	0.3971	
416	0.3046	-1.18
007	0.2900	-1.46
--	Method 101.30	--
247	0.7700	1.09
131	0.7570	1.01
Avg	0.6244	
009	0.6069	-.13
035	0.5535	-.54
393	0.4345	-1.41
--	Method 121.00	--
055	1.3150	1.74
095	1.3050	1.64
037	1.2950	1.55
369	1.2500	.96
177	1.2180	.58
029	1.2150	.55

Lab	Average*	Index
--	Method 121.00	--
200	1.2100 X	.54
296	1.1850	.20
040	1.1715	.13
136	1.1700	.12
220	1.1750	.09
262	1.1750	.09
Avg	1.1687	
043	1.1650	-.07
351	1.1575	-.13
258	1.1600	-.16
397	1.1483	-.24
257	1.1340	-.41
234	1.1050	-.77
392	1.1000	-.82
395	1.1000 R	-1.08
391	1.0520	-1.46
169	1.0208	-1.75
114	0.9850	-2.17
--	Method 121.30	--
376	12.025 s	141.45
247	1.3700	2.05
131	1.3400	1.65
232	1.3100	1.34
057	1.2681	.72
409	1.2450	.61
231	1.2550	.57
009	1.2432	.53
291	1.2540	.53
330	1.2250	.16
Avg	1.2140	
300	1.1850	-.38
394	1.1850	-.38
324	1.1850	-.38
035	1.1850	-.38
023	1.1770	-.61
157	1.1529	-.80
102	1.1402	-.97

* 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. - 200206 Grade 10-10-10

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index
--	Method 121.30 --	
360	1.1400	-1.00
389	1.1250	-1.18
292	1.0800	-1.75
354	1.0845 R	-2.03
393	0.9190 s	-3.86
096	0.6900 s	-6.86
--	Method 121.99 --	
288	1.1450	.71
Avg	1.1450	
320	0.8579 S	-8.14
--	Method 121.XX --	
376	12.025 s	118.41
247	1.3700	2.05
131	1.3400	1.72
055	1.3150	1.46
232	1.3100	1.45
095	1.3050	1.37
037	1.2950	1.29
057	1.2681	.94
231	1.2550	.81
409	1.2450	.78
291	1.2540	.78
369	1.2500	.74
009	1.2432	.73
330	1.2250	.47
177	1.2180	.39
200	1.2100 X	.37
029	1.2150	.36
035	1.1850	.06
296	1.1850	.06
300	1.1850	.06
394	1.1850	.06
324	1.1850	.06
Avg	1.1824	
220	1.1750	-.10
262	1.1750	-.10

Lab	Average*	Index
--	Method 121.XX --	
040	1.1715	-.16
136	1.1700	-.17
043	1.1650	-.20
258	1.1600	-.27
351	1.1575	-.27
023	1.1770	-.31
157	1.1529	-.32
397	1.1483	-.37
102	1.1402	-.46
288	1.1450	-.49
360	1.1400	-.51
257	1.1340	-.53
389	1.1250	-.65
234	1.1050	-.86
392	1.1000	-.91
395	1.1000 R	-1.11
292	1.0800	-1.12
354	1.0845 R	-1.42
391	1.0520	-1.49
169	1.0208	-1.76
114	0.9850	-2.16
393	0.9190	-2.88
320	0.8579 s	-3.55
096	0.6900 s	-5.38
--	Method 131.99 --	
040	1.9650	.71
--	Method 144.01 --	
095	12.935 s	11.38
055	10.930	1.65
114	10.745	1.11
351	10.789	1.09
043	10.735	.67
288	10.705	.51
324	10.680	.46
157	10.640	.22
296	10.635	.18

Lab	Average*	Index
--	Method 144.01 --	
Avg	10.600	
405	10.575	-.12
102	10.582	-.13
193	10.570	-.18
073	10.550	-.26
416	10.572	-.42
233	10.495	-.56
262	10.350	-1.24
363	10.230 R	-2.07
395	10.050	-2.68
--	Method 144.02 --	
086	10.315	.97
Avg	10.210	
361	10.105	-.75
--	Method 144.50 --	
200	11.500 X	.71
--	Method 144.70 --	
231	10.290	.71
--	Method 144.99 --	
354	12.308 s	5.44
035	11.400 R	3.11
037	11.045	2.00
330	10.895	1.61
029	10.645 X	.95
105	10.485	.55
028	10.470	.50
177	10.468	.49
040	10.455	.46
136	10.360	.22
360	10.310	.08
Avg	10.280	
394	10.170	-.29
023	10.088	-.50
393	10.085	-.51

Lab	Average*	Index
--	Method 144.99 --	
131	10.060	-.58
376	10.010	-.74
300	9.9550	-.85
291	9.6640	-1.61
389	9.6000	-1.78
409	9.5400 R	-2.07
009	9.6760 S	-2.34
247	3.3900 s	-17.99
--	Method 144.XX --	
095	12.935 s	6.59
354	12.308 s	5.09
200	11.500 X	2.79
035	11.400 R	2.73
037	11.045	1.59
055	10.930	1.29
330	10.895	1.19
351	10.789	.96
114	10.745	.91
043	10.735	.76
288	10.705	.68
324	10.680	.63
029	10.645 X	.52
157	10.640	.51
296	10.635	.50
416	10.572	.39
102	10.582	.36
405	10.575	.34
193	10.570	.33
073	10.550	.28
233	10.495	.17
105	10.485	.15
177	10.468	.08
028	10.470	.06
040	10.455	.04
Avg	10.448	
136	10.360	-.25
262	10.350	-.29

Lab	Average*	Index
--	Method 144.XX --	
360	10.310	-.37
086	10.315	-.42
231	10.290	-.48
394	10.170	-.74
363	10.230 R	-.80
361	10.105	-.91
023	10.088	-.96
393	10.085	-.96
131	10.060	-1.03
395	10.050	-1.05
376	10.010	-1.18
300	9.9550	-1.31
291	9.6640	-2.08
389	9.6000	-2.25
409	9.5400 R	-2.52
009	9.6760 s	-2.69
247	3.3900 s	-18.69
--	Method 151.30 --	
288	13.000	2.03
232	10.500 R	1.48
389	4.9000	.10
Avg	4.4887	
291	3.2800	-.29
102	3.2328	-.30
247	1.3000	-.76
042	1.2195	-.78
--	Method 151.99 --	
409	4.0000	.78
Avg	3.8100	
040	3.6200	-.94
--	Method 151.XX --	
288	13.000	2.41
232	10.500 R	1.77
389	4.9000	.16
Avg	4.3190	

* 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. - 200206 Grade 10-10-10

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index
--	Method 151.XX --	
409	4.0000	-.09
040	3.6200	-.20
291	3.2800	-.29
102	3.2328	-.31
247	1.3000	-.84
042	1.2195	-.86
--	Method 165.00 --	
023	0.0390	1.66
391	0.0370	1.31
397	0.0375	1.16
258	0.0370	1.00
028	0.0345	.33
257	0.0335	.14
Avg	0.0335	
029	0.0330	-.13
040	0.0330	-.58
292	0.0310	-.69
037	0.0310	-.89
231	0.0300	-.97
220	0.0300	-1.01
392	0.0285	-1.40
055	0.0155 s	-5.06
--	Method 165.70 --	
043	0.0410	.71
--	Method 165.99 --	
376	0.0400 R	2.30
394	0.0405	1.48
354	0.0395	1.38
360	0.0390	1.26
131	0.0380	1.04
389	0.0375	.93
324	0.0337	.23
Avg	0.0324	
330	0.0317	-.20
232	0.0311	-.25

Lab	Average*	Index
--	Method 165.99 --	
057	0.0307	-.32
409	0.0300	-.45
300	0.0300	-.45
009	0.0288	-.66
393	0.0284	-.75
291	0.0257	-1.24
288	0.0220	-1.92
--	Method 165.XX --	
376	0.0400 R	2.52
043	0.0410	1.64
394	0.0405	1.52
354	0.0395	1.41
023	0.0390	1.28
360	0.0390	1.28
131	0.0380	1.02
391	0.0370	1.01
397	0.0375	.91
389	0.0375	.90
258	0.0370	.79
028	0.0345	.29
257	0.0335	.12
324	0.0337	.11
Avg	0.0332	
029	0.0330	-.04
330	0.0317	-.36
040	0.0330	-.42
232	0.0311	-.43
292	0.0310	-.46
057	0.0307	-.52
037	0.0310	-.62
231	0.0300	-.66
409	0.0300	-.66
300	0.0300	-.66
220	0.0300	-.70
009	0.0288	-.91
392	0.0285	-.98
393	0.0284	-1.01

Lab	Average*	Index
--	Method 165.XX --	
291	0.0257	-1.56
288	0.0220	-2.33
055	0.0155 s	-3.68
--	Method 181.00 --	
193	2.6000	1.27
Avg	2.1366	
394	2.0100	-.33
397	1.7999	-.88
--	Method 181.30 --	
324	2.9000	1.32
288	2.5000 R	1.02
042	2.5390	.92
247	2.1500	.51
102	2.0258	.35
035	2.0000	.32
232	1.8900	.21
Avg	1.9225	
157	1.4000	-.34
389	0.4750	-1.35
291	0.0000 S	-1.86
--	Method 181.99 --	
320	2.0000	.00
409	2.0000	.00
Avg	2.0000	
--	Method 181.XX --	
324	2.9000	1.59
288	2.5000 R	1.22
193	2.6000	1.10
042	2.5390	.97
247	2.1500	.38
102	2.0258	.12
035	2.0000	.09
394	2.0100	.07
320	2.0000	.03

Lab	Average*	Index
--	Method 181.XX --	
409	2.0000	.03
Avg	1.9838	
232	1.8900	-.20
397	1.7999	-.36
157	1.4000	-.99
389	0.4750	-2.55
291	0.0000 s	-3.36
--	Method 190.00 --	
027	6.6450	.71
--	Method 190.99 --	
009	6.8475	.71
--	Method 190.XX --	
009	6.8475	.86
Avg	6.7463	
027	6.6450	-.87
--	Method 191.00 --	
193	210.00	.71
--	Method 191.30 --	
009	188.67	1.02
102	149.07	.11
Avg	147.57	
035	88.050	-1.50
--	Method 191.XX --	
193	210.00	1.19
009	188.67	.63
247	164.50	.10
Avg	160.06	
102	149.07	-.26
035	88.050	-1.61

Lab	Average*	Index
--	Method 202.00 --	
397	94.616	.87
Avg	47.313	
193	0.0090	-.87
--	Method 202.30 --	
009	126.20	1.95
324	106.00	1.42
Avg	51.720	
247	47.500	-.11
291	45.890	-.15
102	39.456	-.32
040	42.450 R	-.34
232	37.250	-.38
288	34.500	-.45
042	28.610	-.61
376	0.0750	-1.35
--	Method 202.99 --	
409	111.00	.83
Avg	68.500	
320	26.000	-.90
--	Method 202.XX --	
009	126.20	1.68
409	111.00	1.31
324	106.00	1.19
397	94.616	.92
Avg	55.926	
247	47.500	-.20
291	45.890	-.24
040	42.450 R	-.39
102	39.456	-.39
232	37.250	-.45
288	34.500	-.51
042	28.610	-.65
320	26.000 R	-.82
376	0.0750	-1.33
193	0.0090	-1.33

* 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. - 200206 Grade 10-10-10

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index
--	Method 221.00	--
086	0.0147 s	10.33
055	0.0073	1.20
095	0.0070	.85
029	0.0068	.51
Avg	0.0063	
028	0.0061	-.35
043	0.0059	-.54
193	0.0050	-1.63
--	Method 221.30	--
376	0.1350 s	198.16
057	0.0078	2.08
102	0.0072	1.14
330	0.0071	1.04
009	0.0067	.31
Avg	0.0065	
040	0.0064	-.22
035	0.0065	-.23
393	0.0063	-.29
247	0.0063	-.29
288	0.0064	-.32
324	0.0063	-.63
232	0.0061	-.63
291	0.0056	-1.38
300	0.0054	-1.63
042	0.0018 s	-7.17
--	Method 221.99	--
409	0.0070	.71
--	Method 221.XX	--
376	0.1350 s	186.34
086	0.0147 s	12.11
057	0.0078	1.97
055	0.0073	1.27
102	0.0072	1.09
330	0.0071	.99
095	0.0070	.86

Lab	Average*	Index
--	Method 221.XX	--
409	0.0070	.74
029	0.0068	.45
009	0.0067	.30
035	0.0065	.22
Avg	0.0064	
040	0.0064	-.21
247	0.0063	-.25
393	0.0063	-.25
288	0.0064	-.30
028	0.0061	-.58
232	0.0061	-.58
324	0.0063	-.58
043	0.0059	-.80
291	0.0056	-1.28
300	0.0054	-1.52
193	0.0050	-2.09
042	0.0018 s	-6.73
--	Method 241.00	--
095	0.8305	1.77
028	0.8030	1.44
055	0.7850	1.23
037	0.7615	.95
351	0.7070	.30
296	0.6900	.15
029	0.6915	.12
Avg	0.6815	
177	0.6625	-.23
040	0.6560	-.31
397	0.6403	-.54
043	0.6350	-.55
369	0.6350	-.55
233	0.6650 R	-.57
220	0.6700 R	-.73
262	0.6100	-.86
193	0.6000	-.97
395	0.5150	-2.00
114	0.0399 s	-7.62

Lab	Average*	Index
--	Method 241.30	--
376	7.9000 s	62.68
131	0.8110	1.64
354	0.7735	1.31
057	0.7656	1.25
324	0.7250	.90
409	0.7000	.68
009	0.6841	.54
288	0.6665 R	.51
232	0.6696	.44
247	0.6700	.43
096	0.6600	.35
157	0.6543	.29
360	0.6400	.24
102	0.6333	.19
231	0.6350	.18
Avg	0.6210	
035	0.5930 R	-.41
394	0.5450	-.67
023	0.5345	-.75
291	0.5290	-.79
389	0.5050	-1.00
292	0.4800	-1.22
300	0.4300	-1.65
402	0.3760	-2.11
--	Method 241.99	--
330	0.7000	.87
Avg	0.5964	
320	0.4929	-.86
--	Method 241.XX	--
376	7.9000 s	67.35
095	0.8305	1.73
131	0.8110	1.55
028	0.8030	1.47
055	0.7850	1.31
354	0.7735	1.20
057	0.7656	1.13

Lab	Average*	Index
--	Method 241.XX	--
037	0.7615	1.09
324	0.7250	.75
220	0.6700 R	.61
351	0.7070	.58
330	0.7000	.53
409	0.7000	.52
233	0.6650 R	.46
029	0.6915	.44
296	0.6900	.43
288	0.6665 R	.41
009	0.6841	.37
232	0.6696	.27
247	0.6700	.26
096	0.6600	.17
177	0.6625	.17
040	0.6560	.12
157	0.6543	.09
Avg	0.6442	
369	0.6350	-.10
043	0.6350	-.10
231	0.6350	-.16
397	0.6403	-.19
360	0.6400	-.19
102	0.6333	-.20
262	0.6100	-.33
193	0.6000	-.42
035	0.5930 R	-.60
394	0.5450	-.93
023	0.5345	-1.02
291	0.5290	-1.07
395	0.5150	-1.22
389	0.5050	-1.29
320	0.4929	-1.41
292	0.4800	-1.53
300	0.4300	-1.99
402	0.3760	-2.49
114	0.0399 s	-5.61

Lab	Average*	Index
--	Method 251.00	--
193	26.000	.90
Avg	21.420	
397	16.841	-.83
--	Method 251.30	--
376	29.050	1.83
291	25.755	1.30
288	24.500	1.10
324	23.500 R	1.02
Avg	17.706	
042	17.474	-.18
102	15.035	-.43
157	14.050	-.59
247	14.000	-.62
389	13.400	-.69
232	11.950	-.93
035	11.850	-.98
--	Method 251.99	--
409	21.000	.81
Avg	17.573	
040	14.145	-.92
--	Method 251.XX	--
376	29.050	1.79
193	26.000	1.32
291	25.755	1.23
288	24.500	1.02
324	23.500	.95
409	21.000	.42
Avg	18.570	
042	17.474	-.27
397	16.841	-.30
102	15.035	-.61
157	14.050	-.77
247	14.000	-.80
040	14.145	-.82
389	13.400	-.89

* 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. - 200206 Grade 10-10-10

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index
--	Method 251.XX --	
232	11.950	-1.13
035	11.850	-1.18
--	Method 261.00 --	
037	0.1220	1.25
392	0.1210	1.12
369	0.1200	1.01
234	0.1150	.72
258	0.1150	.72
351	0.1166	.72
028	0.1160	.68
055	0.1125	.38
Avg	0.1080	
397	0.1051	-.29
177	0.1028	-.45
043	0.1050	-.49
257	0.1005	-.70
220	0.0900	-1.52
136	0.0900	-1.53
193	0.0890	-1.68
391	0.0615 S	-3.93
--	Method 261.11 --	
029	0.1190	1.20
296	0.1105	.42
Avg	0.1063	
095	0.1020	-.41
040	0.0935	-1.31
--	Method 261.30 --	
376	1.2150 s	92.18
330	0.1200	1.27
354	0.1230	1.21
009	0.1219	1.20
035	0.1205	1.07
023	0.1195	.99
102	0.1197	.95
231	0.1100	.84
--	Method 261.30 --	
131	0.1180	.81
057	0.1152	.57
247	0.1150	.54
Avg	0.1085	
232	0.1065	-.41
300	0.1050	-.51
389	0.1050	-.51
360	0.1050	-.51
288	0.0998	-.73
157	0.0973	-.93
096	0.0945	-1.22
402	0.0935	-1.31
291	0.0911	-1.45
292	0.0900	-1.54
--	Method 261.31 --	
324	0.1350	.71
--	Method 261.99 --	
409	0.1117	.89
394	0.1070	.63
Avg	0.1058	
320	0.0987	-1.14
--	Method 261.XX --	
376	1.2150 s	92.55
324	0.1350	2.27
330	0.1200 R	1.29
354	0.1230	1.23
037	0.1220	1.22
009	0.1219	1.22
392	0.1210	1.09
035	0.1205	1.09
023	0.1195	1.01
369	0.1200	.98
102	0.1197	.98
029	0.1190	.90
231	0.1100 R	.85
--	Method 261.XX --	
131	0.1180	.83
234	0.1150	.70
258	0.1150	.70
351	0.1166	.70
028	0.1160	.65
057	0.1152	.59
247	0.1150	.57
055	0.1125	.36
409	0.1117	.29
296	0.1105	.23
Avg	0.1083	
397	0.1051	-.31
394	0.1070	-.35
232	0.1065	-.40
177	0.1028	-.47
043	0.1050	-.50
300	0.1050	-.50
389	0.1050	-.50
360	0.1050	-.50
095	0.1020	-.53
288	0.0998	-.71
257	0.1005	-.71
320	0.0987	-.83
157	0.0973	-.91
402	0.0935	-1.29
040	0.0935	-1.32
291	0.0911	-1.43
292	0.0900	-1.53
220	0.0900	-1.53
136	0.0900	-1.54
193	0.0890	-1.69
391	0.0615 s	-3.92
--	Method 271.00 --	
086	0.1238	1.28
Avg	0.0633	
234	0.0385	-.53
--	Method 271.00 --	
029	0.0275	-.76
--	Method 271.99 --	
288	0.0334	.71
--	Method 271.XX --	
086	0.1238	1.61
Avg	0.0558	
234	0.0385	-.41
288	0.0334	-.53
029	0.0275	-.67
--	Method 281.30 --	
291	0.6000	.86
Avg	0.5809	
042	0.5619	-.87
--	Method 281.99 --	
409	0.1100	.88
Avg	0.0652	
296	0.0204	-.86
--	Method 281.XX --	
291	0.6000	1.00
042	0.5619	.86
Avg	0.3231	
409	0.1100	-.77
296	0.0204	-1.09
--	Method 289.00 --	
397	92.047 S	.00
--	Method 289.30 --	
057	14.550	.97
247	14.500	.97
009	13.800	.82
102	12.868	.61
157	12.780	.59
--	Method 289.30 --	
324	11.500	.34
291	10.293	.06
Avg	10.021	
232	9.8250	-.08
389	6.6000	-.73
288	5.0000 R	-1.10
042	3.4580	-1.41
376	0.0550	-2.14
--	Method 289.99 --	
409	14.000	.87
Avg	10.600	
040	7.2000	-.87
--	Method 289.XX --	
397	92.047 s	18.26
057	14.550	.99
247	14.500	.98
409	14.000	.87
009	13.800	.83
102	12.868	.62
157	12.780	.60
324	11.500	.33
291	10.293	.04
Avg	10.110	
232	9.8250	-.09
040	7.2000	-.65
389	6.6000	-.78
288	5.0000 R	-1.16
042	3.4580	-1.49
376	0.0550	-2.24
--	Method 291.00 --	
193	77.000	.71
--	Method 291.30 --	
376	89.020	1.15
102	87.033	.99

* 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. - 200206 Grade 10-10-10

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index
--	Method 291.30 --	
009	85.000	.83
324	84.000	.74
247	81.500	.54
096	79.100	.34
157	77.495	.21
Avg	74.929	
291	66.555	-.68
232	61.750	-1.09
288	59.500	-1.27
040	53.265	-1.80
042	15.655 s	-4.83
--	Method 291.99 --	
409	85.000	1.00
320	67.500	.23
Avg	64.117	
035	39.850	-1.20
--	Method 291.XX --	
376	89.020	1.11
102	87.033	.98
009	85.000	.84
409	85.000	.84
324	84.000	.77
247	81.500	.60
193	77.000 R	.56
096	79.100	.44
157	77.495	.33
Avg	72.612	
291	66.555	-.41
320	67.500	-.42
232	61.750	-.75
288	59.500	-.90
040	53.265	-1.34
035	39.850	-2.26
042	15.655 s	-3.86

Lab	Average*	Index
--	Method 301.30 --	
042	2.9370 S	.00
291	0.5850	.00
Avg	0.5850	
--	Method 301.99 --	
040	0.1150	1.20
Avg	0.0967	
389	0.0950	-.27
131	0.0800	-.99
--	Method 301.XX --	
042	2.9370 s	12.01
291	0.5850	1.62
Avg	0.2188	
040	0.1150	-.46
389	0.0950	-.55
131	0.0800	-.61
--	Method 311.00 --	
193	0.3315	.71
--	Method 311.99 --	
102	0.3962	1.55
Avg	0.3279	
009	0.3200	-.20
035	0.3055	-.52
247	0.2900	-.88
--	Method 311.XX --	
102	0.3962	1.74
193	0.3315	.10
Avg	0.3286	
009	0.3200	-.24
035	0.3055	-.61
247	0.2900	-1.02
--	Method 321.00 --	
258	0.1350 s	3.57

Lab	Average*	Index
--	Method 321.00 --	
086	0.1238	1.96
351	0.1185	1.38
392	0.1165	1.16
055	0.1150	1.14
257	0.1135	.85
028	0.1135	.84
037	0.1125	.73
296	0.1085	.33
397	0.1066	.28
391	0.1080	.26
029	0.1060	.02
Avg	0.1059	
177	0.1055	-.07
234	0.1050	-.55
369	0.1050	-.55
200	0.1050 X	-.55
136	0.1005	-.59
262	0.1000	-.64
095	0.1045	-.83
233	0.1025	-.90
193	0.0970	-1.02
043	0.0960	-1.10
220	0.0950	-1.30
395	0.0950	-1.30
114	0.0874	-2.02
--	Method 321.30 --	
376	1.0500 s	107.29
324	0.1300 R	2.82
354	0.1220	1.68
131	0.1200	1.51
035	0.1190	1.50
409	0.1200	1.44
330	0.1150	1.04
057	0.1160	1.02
402	0.1120	.70
102	0.1106	.39
360	0.1100	.31

Lab	Average*	Index
--	Method 321.30 --	
040	0.1075	.29
247	0.1088	.22
Avg	0.1073	
157	0.1050	-.27
023	0.1045	-.32
393	0.1043	-.42
096	0.1030	-.54
292	0.1050	-.63
231	0.1050	-.63
232	0.1019	-.64
394	0.1015	-.66
288	0.1015	-.66
389	0.0975	-1.13
009	0.0991	-1.18
300	0.0960	-1.36
291	0.0901	-1.96
--	Method 321.99 --	
320	0.0980	.71
--	Method 321.XX --	
376	1.0500 s	105.36
258	0.1350 s	3.60
324	0.1300 R	2.86
086	0.1238	1.95
354	0.1220	1.74
131	0.1200	1.58
035	0.1190	1.56
409	0.1200	1.52
351	0.1185	1.35
392	0.1165	1.13
330	0.1150	1.11
055	0.1150	1.11
057	0.1160	1.10
257	0.1135	.81
028	0.1135	.79
402	0.1120	.77
037	0.1125	.68

Lab	Average*	Index
--	Method 321.XX --	
102	0.1106	.48
360	0.1100	.40
040	0.1075	.30
247	0.1088	.30
296	0.1085	.29
397	0.1066	.27
391	0.1080	.21
Avg	0.1064	
029	0.1060	-.05
177	0.1055	-.12
157	0.1050	-.18
023	0.1045	-.22
393	0.1043	-.34
096	0.1030	-.44
232	0.1019	-.53
288	0.1015	-.55
394	0.1015	-.55
369	0.1050	-.58
231	0.1050	-.58
292	0.1050	-.58
200	0.1050 X	-.58
234	0.1050	-.58
136	0.1005	-.66
262	0.1000	-.71
095	0.1045	-.86
233	0.1025	-.94
320	0.0980	-.98
389	0.0975	-1.01
009	0.0991	-1.08
193	0.0970	-1.10
043	0.0960	-1.18
300	0.0960	-1.24
220	0.0950	-1.39
395	0.0950	-1.39
291	0.0901	-1.82
114	0.0874	-2.13

* 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. - 200206 Grade 10-10-10

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
001.99	4	0.0000	0.80	0.63	060.00	7	0.6795	2.00	0.38
001.XX	4	0.0000	0.80	0.63	060.XX	8	0.5523	1.76	0.52
009.10	7	0.0000	1.02	0.18	101.30	5	0.0000	1.05	0.11
009.XX	7	0.0000	1.02	0.18	101.XX	5	0.0000	1.05	0.11
010.11	13	-0.0175	0.98	0.12	121.00	23	-0.0353	0.99	0.23
010.12	8	0.5128	1.64	0.61	121.30	23	5.6103	29.67	0.33
010.60	48	-0.1173	2.26	0.58	121.99	2	-4.0609	5.74	0.61
010.99	5	0.7083	1.68	0.80	121.XX	48	2.2399	17.17	0.24
010.XX	70	0.0572	1.79	0.48	144.01	18	0.5318	2.88	0.39
020.10	6	0.0000	0.96	0.38	144.02	2	0.0000	1.06	0.43
020.20	20	0.2016	1.91	0.36	144.99	22	-0.6039	4.23	0.54
020.40	9	0.4322	1.60	0.23	144.XX	44	-0.2202	3.30	0.41
020.50	5	-0.2330	1.05	0.79	151.30	7	0.2049	1.10	0.15
020.XX	41	0.0410	1.34	0.55	151.99	2	0.0000	1.10	0.38
030.10	2	0.0000	1.22	0.00	151.XX	9	0.1906	1.12	0.15
030.20	2	0.0000	1.20	0.16	165.00	14	-0.3614	1.63	0.37
030.40	2	0.0000	1.03	0.47	165.99	16	0.0868	1.03	0.49
030.XX	7	0.0000	1.03	0.16	165.XX	31	-0.0730	1.19	0.44
040.10	2	0.0000	0.90	0.58	181.00	3	0.0000	1.04	0.33
040.20	2	0.0000	0.92	0.57	181.30	10	0.0863	1.00	0.20
040.40	2	0.0000	1.21	0.12	181.99	2	0.0000	0.00	0.00
040.XX	7	0.0000	1.03	0.12	181.XX	15	-0.1656	1.30	0.27
041.10	19	5.3056	23.27	0.32	190.XX	2	0.0000	1.22	0.09
041.20	3	0.0000	0.82	0.62	191.30	4	0.0000	1.07	0.14
041.40	4	0.0000	1.07	0.14	191.XX	5	0.0000	1.03	0.23
041.50	11	0.9096	2.21	0.26	202.00	2	0.0000	1.22	0.03
041.60	14	-0.0395	1.69	0.63	202.30	10	-0.0243	0.97	0.08
041.XX	46	1.9527	12.56	0.55	202.99	2	0.0000	1.18	0.24
048.20	3	0.0000	1.07	0.27	202.XX	14	-0.0739	0.96	0.13
048.XX	4	0.0000	1.07	0.15	221.00	7	1.4586	3.97	0.62
050.00	24	0.2063	1.29	0.32	221.30	15	12.7228	51.30	2.00
050.30	10	2.5464	8.10	0.75	221.XX	23	8.3233	38.90	1.57
050.31	2	0.0000	0.82	0.64	241.00	18	-0.4416	2.01	0.24
050.50	5	0.0000	0.54	0.82	241.30	23	2.7317	13.10	0.13
050.51	8	0.0267	0.96	0.15	241.99	2	0.0000	1.22	0.06
050.60	7	0.0000	1.00	0.25	241.XX	43	1.4397	10.37	0.16
050.61	9	-1.0123	3.17	2.48	251.00	2	0.0000	1.17	0.26
050.99	17	-0.1879	1.21	0.24	251.30	11	0.0849	1.01	0.17
050.XX	78	0.5075	3.71	0.62	251.99	2	0.0000	1.14	0.31

MAGRUDER - Fertilizer Check Sample No. - 200206 Grade 10-10-10

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
251.XX	15	0.0000	1.00	0.19					
261.00	16	-0.2450	1.36	0.28					
261.11	4	0.0000	1.03	0.27					
261.30	21	4.3885	20.13	0.59					
261.99	3	0.0000	0.99	0.42					
261.XX	45	1.9944	13.85	0.45					
271.00	3	0.0000	1.12	0.03					
271.XX	4	0.0000	1.08	0.04					
281.30	2	0.0000	1.22	0.10					
281.99	2	0.0000	1.21	0.14					
281.XX	4	0.0000	1.08	0.02					
289.30	12	-0.0898	1.02	0.09					
289.99	2	0.0000	1.22	0.02					
289.XX	15	1.1414	4.84	0.10					
291.30	12	-0.4026	1.70	0.14					
291.99	3	0.0000	1.09	0.20					
291.XX	16	-0.2225	1.35	0.20					
301.30	2	0.0000	0.00	0.00					
301.99	3	0.0000	0.89	0.55					
301.XX	5	2.3985	5.44	0.29					
311.99	4	0.0000	1.06	0.17					
311.XX	5	0.0000	1.04	0.17					
321.00	25	0.1271	1.11	0.50					
321.30	26	4.2238	21.04	0.78					
321.XX	51	2.1494	14.77	0.65					