

AFPC

Sample

2008-11

Grade

18-46-0

	AOAC Ref.	Method #	# of Labs.	Grand Median	Std Dev
AMMONIACAL NITROGEN					
Ammoniacal Nitrogen, MgO distillation	920.03	001.10	2	17.67	0.32
Ammoniacal Nitrogen, Other		001.99	7	17.65	0.12
Method Group 001.XX PCT			9	17.65	0.23
PERCENT UREA					
Percent UREA, Other		007.99	1	16.67	0.00
Method Group 007.XX PCT			1	16.67	0.00
TOTAL NITROGEN					
Total Nitrogen, Modified Comprehensive	978.02	010.11	5	17.98	0.18
Total Nitrogen, Salicylic	955.04d	010.12	1	18.03	0.00
Total Nitrogen, Combustion	993.13	010.60	25	17.84	0.10
Total Nitrogen, Other		010.99	6	17.81	0.10
Method Group 010.XX PCT			37	17.85	0.16
TOTAL PHOSPHATE					
Total Phosphate, Gravimetric Quimociac		020.10	4	46.79	0.46
Total Phosphate, Spectrometric	978.02	020.20	20	46.83	0.25
Total Phosphate, Alka. Quimociac	955.04d	020.30	1	47.82	0.00
Total Phosphate, ICP	970.03	020.40	2	47.41	0.23
Total Phosphate, ICP	970.02	020.50	1	47.17	0.00
Total Phosphate, Other	993.13	020.99	2	47.24	0.19
Method Group 020.XX PCT			30	46.92	0.37
INSOLUBLE PHOSPHATE					
Insoluble Phosphate, Gravimetric Quimociac	963.03C(a)	030.10	1	0.18	0.00
Insoluble Phosphate, Spectrometric	963.03C(b)	030.20	13	0.16	0.02
Insoluble Phosphate, Automated	978.01	030.40	2	0.23	0.06
Insoluble Phosphate, Other		030.99	2	0.06	0.03
Method Group 030.XX PCT			18	0.16	0.03

INDIRECT AVAILABLE PHOSPHATE

AFPC Check Sample
11-2008

Indirect Available Phosphate, Gravimetric Quimociac	960.02	040.10	1	46.79	0.00
Indirect Available Phosphate, Spectrometric	960.02	040.20	14	46.71	0.21
Indirect Available Phosphate, ICP		040.50	1	46.74	0.00
Indirect Available Phosphate, Other		040.99	4	46.68	0.26
Method Group 040.XX PCT			20	46.73	0.24

DIRECT AVAILABLE PHOSPHATE

Direct Available Phosphate, Gravimetric Quimociac	960.03E	041.10	5	47.04	0.06
Direct Available Phosphate, Spectrometric	960.03D	041.20	1	44.48	0.00
Direct Available Phosphate, Automated	978.01	041.40	2	46.85	0.13
Direct Available Phosphate, ICP		041.50	4	46.64	0.21
Direct Available Phosphate, EDTA Extract	993.01	041.60	1	46.91	0.00
Method Group 041.XX PCT			13	46.91	0.33

WATER SOLUBLE PHOSPHATE

Water Soluble Phosphate, Gravimetric Quimociac	962.03	048.10	1	42.78	0.00
Water Soluble Phosphate, Spectrometric	970.01	048.20	13	42.45	0.27
Water Soluble Phosphate, Other		048.99	3	42.73	0.75
Method Group 048.XX PCT			17	42.48	0.47

SOLUBLE POTASH AS K₂O

Soluble Potash, ICP(Oxalate)		050.50	3	0.13	0.71
Soluble Potash, Other		050.99	8	0.12	0.01
Method Group 050.XX PCT			11	0.12	0.01

FREE WATER

Free Water, Vacuum Oven	965.08B	060.00	16	2.09	0.14
Free Water, Vacuum Desiccate	965.08A	060.10	2	2.31	0.09
Method Group 060.XX PCT			18	2.13	0.19

ACID SOLUBLE CALCIUM AS CaO

Acid Soluble Calcium, ICP		101.30	18	0.22	0.06
Method Group 101.XX PCT			18	0.22	0.07

ACID SOLUBLE MAGNESIUM AS MgO

Acid Soluble Magnesium, ICP		121.30	18	0.96	0.05
Method Group 121.XX PCT			18	0.96	0.06

SULFATE SULFUR (S)

Sulfur, Gravimetric	980.02(a)	144.01	4	1.95	0.04
---------------------	-----------	--------	---	------	------

Sulfur, Spectrometric	144.70	2	1.82	0.00
Sulfur, Other	144.99	9	1.85	0.03
Method Group 144.XX PCT		15	1.85	0.08
TOTAL SULFUR (S)				
Sulfur, Other	145.99	6	1.74	0.18
Method Group 145.XX PCT		6	1.74	0.22
TOTAL ARSENIC				
Total Arsenic, ICP	980.02(b) 151.02	4	14	1.4
Total Arsenic, Other	151.99	1	14	0.0
Method Group 151.XX PPM		5	14	1.4
ACID SOLUBLE BORON				
Acid Soluble Boron, Other	165.99	2	37	0.9
Method Group 165.XX PPM		2	37	1.0
TOTAL CADMIUM				
Total Cadmium, ICP	181.30	7	5	0.1
Total Cadmium, Other	181.99	1	5	0.0
Method Group 181.XX PPM		8	5	0.1
ALUMINUM AS Al₂O₃				
ICP, %		16	1.66	0.08
Method Group 190.XX PCT		16	1.66	0.10
TOTAL CHROMIUM				
Total Chromium, ICP	191.30	9	99	8.8
Total Chromium, Other	191.99	1	91	0.0
Method Group 191.XX PPM		10	99	10.0
ACID SOLUBLE COBALT				
Acid Soluble Cobalt, ICP	202.30	9	3	0.4
Acid Soluble Cobalt, Other	202.99	1	2	0.0
Method Group 202.XX PPM		10	3	0.5
ACID SOLUBLE COPPER				
Acid Soluble Copper, ICP	221.30	8	4	0.7
Acid Soluble Copper, Other	221.99	1	0	0.0
Method Group 221.XX PPM		9	4	0.3
ACID SOLUBLE IRON AS Fe₂O₃				

Acid Soluble Iron, ICP		241.30	16	1.13	0.04
Acid Soluble Iron, Other		241.99	1	1.12	0.00
Method Group 241.XX PCT			17	1.13	0.05
TOTAL LEAD					
Total Lead, ICP		251.30	6	1	0.1
Total Lead, Other		251.99	1	1	0.0
Method Group 251.XX PPM			7	1	0.2
ACID SOLUBLE MANGANESE					
Acid Soluble Manganese, ICP	972.02a	261.30	5	329	12.0
Acid Soluble Manganese, Other		261.99	5	317	2.6
Method Group 261.XX PPM			10	318	10.6
WATER SOLUBLE MANGANESE					
Water Soluble Manganese, Other		271.99	1	500	0
Method Group 271.XX PCT			1	500	0.0
TOTAL MOLYBDENUM					
Total Molybdenum, ICP		289.30	9	17	0.8
Total Molybdenum, Other		289.99	1	17	0.0
Method Group 289.XX PPM			10	17	0.8
TOTAL NICKEL					
Total Nickel, ICP		291.30	7	16	1.1
Total Nickel, Other		291.99	1	16	0.0
Method Group 291.XX PPM			8	16	1.2
TOTAL SELENIUM					
Total Selenium, ICP		301.30	1	0	0.0
Method Group 301.XX PPM			1	0	0.0
SODIUM AS Na₂O					
Sodium, Atomic Absorbtion	983.04	311.00	3	0.10	0.04
Sodium, Other		311.99	7	0.13	0.02
Method Group 311.XX PCT			10	0.10	0.03
ACID SOLUBLE ZINC					
Acid Soluble Zinc, ICP		321.30	8	79.3	5.9
Acid Soluble Zinc, Other		321.99	2	74.3	0.2
Method Group 321.XX PPM			10	77.8	6.1

FLUORIDE

Water Soluble Zinc, Atomic Absorption	325.00	1	1.37	0.00
Volumetric	325.10	11	1.35	0.08
Distilled/Electrode	325.99	2	1.30	0.00
Method Group 325.XX PCT		14	1.34	0.07
