

AFPC

Sample

2010-03

Grade

18-46-0

	AOAC Ref.	Method #	# of Labs.	Grand Median	Std Dev
AMMONIACAL NITROGEN					
Ammoniacal Nitrogen, MgO distillation	920.03	001.10	1	16.95	0.00
Ammoniacal Nitrogen, Other		001.99	7	17.48	0.08
Method Group 001.XX PCT			8	17.45	0.21
NITRATE NITROGEN					
Nitrate Nitrogen, Other		002.99	1		0.00
Method Group 002.XX PCT			1	0.00	0.00
PERCENT UREA					
Percent UREA, Other		007.99	1	0.69	0.00
Method Group 007.XX PCT			1	0.69	0.00
TOTAL NITROGEN					
Total Nitrogen, Modified Comprehensive	978.02	010.11	4	18.24	0.25
Total Nitrogen, Salicylic	955.04d	010.12	2	18.24	0.13
Total Nitrogen, Comprehensive	970.02	010.17	1	18.06	0.00
Total Nitrogen, Combustion	993.13	010.60	29	18.17	0.17
Total Nitrogen, Other		010.99	5	18.03	0.05
Method Group 010.XX PCT			41	18.12	0.22
TOTAL PHOSPHATE					
Total Phosphate, Gravimetric Quimociac		020.10	3	46.90	0.25
Total Phosphate, Spectrometric	978.02	020.20	23	46.47	0.18
Total Phosphate, Alka. Quimociac	955.04d	020.30	1	46.09	0.00
Total Phosphate, ICP	970.03	020.40	2	46.01	0.49
Total Phosphate, ICP, Lithium	970.02	020.50	1	46.42	0.00
Total Phosphate, Other	993.13	020.99	1	46.93	0.00
Method Group 020.XX PCT			31	46.47	0.26
INSOLUBLE PHOSPHATE					
Insoluble Phosphate, Spectrometric	963.03C(b)	030.20	14	0.36	0.10
Insoluble Phosphate, Automated	978.01	030.40	1	0.41	0.00

Insoluble Phosphate, ICP		030.50	1	0.47	0.00
Method Group 030.XX PCT			16	0.39	0.13

INDIRECT AVAILABLE PHOSPHATE

Indirect Available Phosphate, Spectrometric	960.02	040.20	13	46.17	0.31
Indirect Available Phosphate, ICP		040.50	1	46.10	0.00
Indirect Available Phosphate, Other		040.99	1	46.24	0.00
Method Group 040.XX PCT			15	46.17	0.30

DIRECT AVAILABLE PHOSPHATE

Direct Available Phosphate, Gravimetric Quimociac	960.03E	041.10	4	45.78	1.11
Direct Available Phosphate, Spectrometric	960.03D	041.20	1	46.10	0.00
Direct Available Phosphate, Automated	978.01	041.40	4	46.58	0.40
Direct Available Phosphate, ICP		041.50	5	45.32	1.21
Direct Available Phosphate, EDTA Extract	993.01	041.60	4	45.84	0.64
Direct Available Phosphate, Other		041.99	2	45.59	0.01
Method Group 041.XX PCT			20	45.96	1.10

WATER SOLUBLE PHOSPHATE

Water Soluble Phosphate, Spectrometric	970.01	048.20	15	41.28	0.25
Water Soluble Phosphate, Alka. Quimociac	964.04	048.30	1	40.55	0.00
Water Soluble Phosphate, Other		048.99	3	41.52	0.76
Method Group 048.XX PCT			19	41.28	0.33

SOLUBLE POTASH AS K₂O

Soluble Potash, Atomic Absorption(Oxalate)		050.30	1	1.43	0.00
Soluble Potash, ICP(Oxalate)		050.50	3	0.11	0.01
Soluble Potash, Flame Photometric(Oxalate)	983.02B(a)	050.60	1	0.14	0.00
Soluble Potash, Other		050.99	5	0.11	0.00
Method Group 050.XX PCT			10	0.11	0.01

FREE WATER

Free Water, Vacuum Oven	965.08B	060.00	18	1.91	0.18
Free Water, Vacuum Desiccate	965.08A	060.10	4	1.79	0.25
Method Group 060.XX PCT			22	1.89	0.24

ACID SOLUBLE CALCIUM AS CaO

Acid Soluble Calcium, ICP		101.30	18	0.21	0.02
Method Group 101.XX PCT			18	0.21	0.03

ACID SOLUBLE MAGNESIUM AS MgO

Acid Soluble Magnesium, Atomic Absorption	984.01	121.00	1	1.13	0.00
Acid Soluble Magnesium, ICP		121.30	18	1.11	0.03
Method Group 121.XX PCT			19	1.11	0.04

SULFATE SULFUR (S)

Sulfur, Gravimetric	980.02(a)	144.01	4	1.63	0.70
Sulfur, Spectrometric		144.70	2	1.63	0.00
Sulfur, Other		144.99	8	1.64	0.03
Method Group 144.XX PCT			14	1.63	0.03

TOTAL SULFUR (S)

Sulfur, Other		145.99	4	1.72	0.20
Method Group 145.XX PCT			4	1.72	0.24

TOTAL ARSENIC

Total Arsenic, ICP	980.02(b)	151.02	5	12	0.8
Method Group 151.XX PPM			5	12	1.0

ACID SOLUBLE BORON

Acid Soluble Boron, Other		165.99	2	33	0.1
Method Group 165.XX PPM			2	33	0.1

TOTAL CADMIUM

Total Cadmium, Atomic Absorbtion		181.00	1	5	0.0
Total Cadmium, ICP		181.30	9	4	0.4
Total Cadmium, Other		181.99	1	3	0.0
Method Group 181.XX PPM			11	4	0.5

ALUMINUM AS Al₂O₃

ICP, %			17	1.68	0.03
Water Soluble Chlorine, Other, %		190.99	1	1.81	0.00
Method Group 190.XX PCT			18	1.68	0.04

TOTAL CHROMIUM

Total Chromium, ICP		191.30	10	86	3.7
Total Chromium, Other		191.99	1	83	0.0
Method Group 191.XX PPM			11	86	5.2

ACID SOLUBLE COBALT

Acid Soluble Cobalt, ICP		202.30	9	3	0.3
--------------------------	--	--------	---	---	-----

Acid Soluble Cobalt, Other	202.99	1	3	0.0
Method Group 202.XX PPM		10	3	0.4

ACID SOLUBLE COPPER

Acid Soluble Copper, Atomic Absorption	975.01 221.00	2	1	0.1
Acid Soluble Copper, ICP	221.30	6	4	2.9
Acid Soluble Copper, Other	221.99	1	0	0.0
Method Group 221.XX PPM		7	4	2.5

ACID SOLUBLE IRON AS Fe₂O₃

Acid Soluble Iron, ICP	241.30	18	1.37	0.05
Method Group 241.XX PCT		20	1.37	0.07

TOTAL LEAD

Total Lead, ICP	251.30	7	1	0.5
Total Lead, Other	251.99	1	1	0.0
Method Group 251.XX PPM		8	1	0.6

ACID SOLUBLE MANGANESE

Acid Soluble Manganese, ICP	972.02a 261.30	4	323	20.7
Acid Soluble Manganese, Other	261.99	5	318	10.8
Method Group 261.XX PPM		9	318	19.5

WATER SOLUBLE MANGANESE

Water Soluble Manganese, ICP	972.03 271.30	1	328	0
Method Group 271.XX PCT		1	328	0.0

TOTAL MOLYBDENUM

Total Molybdenum, ICP	289.30	8	14	0.7
Total Molybdenum, Other	289.99	1	14	0.0
Method Group 289.XX PPM		9	14	0.5

TOTAL NICKEL

Total Nickel, ICP	291.30	9	15	1.3
Total Nickel, Other	291.99	1	15	0.0
Method Group 291.XX PPM		10	15	1.4

TOTAL SELENIUM

Total Selenium, ICP	301.30	1	2	0.0
Method Group 301.XX PPM		1	2	0.0

SODIUM AS Na₂O

Sodium, Atomic Absorbtion	983.04	311.00	2	0.12	0.01
Sodium, Other		311.99	7	0.12	0.02
Method Group 311.XX PCT			9	0.12	0.02
ACID SOLUBLE ZINC					
Acid Soluble Zinc, ICP		321.30	8	60.2	7.3
Acid Soluble Zinc, Other		321.99	2	57.3	0.6
Method Group 321.XX PPM			10	58.7	7.0
FLUORIDE					
Volumetric		325.10	12	1.51	0.11
Distilled/Electrode		325.99	3	1.51	0.12
Method Group 325.XX PCT			15	1.51	0.14