

# AFPC

## Sample

## 2006-11

## Grade

## 18-46-0

	AOAC Ref.	Method #	# of Labs.	Grand Median	Std Dev
<b>AMMONIACAL NITROGEN</b>					
Ammoniacal Nitrogen, MgO distillation	920.03	001.10	2	17.47	0.11
Ammoniacal Nitrogen, Other		001.99	6	17.69	0.18
Method Group 001.XX PCT			8	17.63	0.23
<b>NITROGEN FROM UREA</b>					
Nitrogen from Urea, Other		005.99	1	0.47	0.00
Method Group 005.XX PCT			1	0.47	0.00
<b>AMMON &amp; NITRATE N</b>					
Ammon & Nitrate N, Devarda	892.01	009.10	2	18.37	0.00
Method Group 009.XX PCT			2	18.37	0.00
<b>TOTAL NITROGEN</b>					
Total Nitrogen, Reduced Iron		010.10	1	18.10	0.00
Total Nitrogen, Modified Comprehensive	978.02	010.11	3	18.00	0.15
Total Nitrogen, Salicylic	955.04d	010.12	1	17.84	0.00
Total Nitrogen, Combustion	993.13	010.60	30	18.04	0.17
Total Nitrogen, Other		010.99	4	18.01	0.01
Method Group 010.XX PCT			39	18.02	0.17
<b>TOTAL PHOSPHATE</b>					
Total Phosphate, Gravimetric Quimociac		020.10	3	46.61	0.57
Total Phosphate, Spectrometric	978.02	020.20	18	46.31	0.30
Total Phosphate, Automated	970.03	020.40	5	46.63	0.19
Total Phosphate, Other	993.13	020.99	2	46.60	0.23
Method Group 020.XX PCT			28	46.44	0.40
<b>INSOLUBLE PHOSPHATE</b>					
Insoluble Phosphate, Gravimetric Quimociac	963.03C(a)	030.10	1	0.25	0.00
Insoluble Phosphate, Spectrometric	963.03C(b)	030.20	7	0.19	0.09
Insoluble Phosphate, Automated	978.01	030.40	2	0.24	0.01
Insoluble Phosphate, ICP		030.50	3	0.28	0.04

Insoluble Phosphate, Other	030.99	1	0.23	0.00
Method Group 030.XX PCT		14	0.24	0.07

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**INDIRECT AVAILABLE PHOSPHATE**

Indirect Available Phosphate, Gravimetric Quimociac	960.02	040.10	1	46.36	0.00
Indirect Available Phosphate, Spectrometric	960.02	040.20	6	46.10	0.11
Indirect Available Phosphate, Automated	960.02	040.40	4	46.34	0.14
Indirect Available Phosphate, Other	040.99		1	45.99	0.00
Method Group 040.XX PCT			12	46.20	0.20

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**DIRECT AVAILABLE PHOSPHATE**

Direct Available Phosphate, Gravimetric Quimociac	960.03E	041.10	6	46.45	0.22
Direct Available Phosphate, Spectrometric	960.03D	041.20	1	46.23	0.00
Direct Available Phosphate, Automated	978.01	041.40	3	46.47	0.75
Direct Available Phosphate, ICP		041.50	5	45.99	0.67
Direct Available Phosphate, EDTA Extract	993.01	041.60	4	46.53	0.20
Method Group 041.XX PCT			19	46.45	0.54

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**WATER SOLUBLE PHOSPHATE**

Water Soluble Phosphate, Gravimetric Quimociac	962.03	048.10	1	42.28	0.00
Water Soluble Phosphate, Spectrometric	970.01	048.20	10	42.06	0.16
Water Soluble Phosphate, Other		048.99	4	41.93	0.32
Method Group 048.XX PCT			15	42.08	0.28

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**SOLUBLE POTASH AS K<sub>2</sub>O**

Soluble Potash, ICP(Citrate)	050.51		2	0.14	0.00
Soluble Potash, Other	050.99		7	0.13	0.01
Method Group 050.XX PCT			9	0.13	0.01

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**FREE WATER**

Free Water, Vacuum Oven	965.08B	060.00	12	1.78	0.19
Free Water, Vacuum Desiccate	965.08A	060.10	5	1.64	0.10
Method Group 060.XX PCT			17	1.69	0.24

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**ACID SOLUBLE CALCIUM AS CaO**

Acid Soluble Calcium, ICP	101.30		18	0.31	0.04
Method Group 101.XX PCT			18	0.31	0.04

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**ACID SOLUBLE MAGNESIUM AS MgO**

Acid Soluble Magnesium, ICP	121.30		18	1.08	0.05
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Method Group 121.XX PCT			18	1.08	0.06
<b>SULFATE SULFUR (S)</b>					
Sulfur, Gravimetric	980.02(a)	144.01	2	2.07	0.03
Sulfur, Other		144.99	12	1.94	0.05
Method Group 144.XX PCT			14	1.95	0.08
<b>TOTAL ARSENIC</b>					
Total Arsenic, ICP	980.02(b)	151.02	4	16	5.1
Total Arsenic, Other		151.99	5	13	4.3
Method Group 151.XX PPM			9	14	2.3
<b>ACID SOLUBLE BORON</b>					
Acid Soluble Boron, Other		165.99	4	92	109.4
Method Group 165.XX PPM			4	92	133.2
<b>TOTAL CADMIUM</b>					
Total Cadmium, ICP		181.30	12	7	0.4
Total Cadmium, Other		181.99	1	8	0.0
Method Group 181.XX PPM			13	7	0.6
<b>ALUMINUM AS Al<sub>2</sub>O<sub>3</sub></b>					
ICP, %			17	1.46	0.06
Method Group 190.XX PCT			17	1.46	0.07
<b>TOTAL CHROMIUM</b>					
Total Chromium, ICP		191.30	9	100	4.3
Total Chromium, Other		191.99	2	101	1.3
Method Group 191.XX PPM			11	100	4.2
<b>ACID SOLUBLE COBALT</b>					
Acid Soluble Cobalt, ICP		202.30	8	3	0.3
Acid Soluble Cobalt, Other		202.99	1	3	0.0
Method Group 202.XX PPM			9	3	0.2
<b>ACID SOLUBLE COPPER</b>					
Acid Soluble Copper, ICP		221.30	8	22	12.1
Acid Soluble Copper, Other		221.99	1	0	0.0
Method Group 221.XX PPM			9	16	16.2
<b>ACID SOLUBLE IRON AS Fe<sub>2</sub>O<sub>3</sub></b>					
Acid Soluble Iron, ICP		241.30	18	1.19	0.06

Method Group 241.XX PCT			18	1.19	0.07
<b>TOTAL LEAD</b>					
Total Lead, ICP	251.30		7	4	2.6
Method Group 251.XX PPM			7	4	3.2
<b>ACID SOLUBLE MANGANESE</b>					
Acid Soluble Manganese, ICP	972.02a 261.30		7	274	5.2
Acid Soluble Manganese, Other	261.99		2	310	11.9
Method Group 261.XX PPM			9	275	8.2
<b>WATER SOLUBLE MANGANESE</b>					
Method Group 271.XX PCT			1	0.04	0
<b>TOTAL MOLYBDENUM</b>					
Total Molybdenum, ICP	289.30		8	10	0.7
Total Molybdenum, Other	289.99		1	12	0.0
Method Group 289.XX PPM			9	10	0.9
<b>TOTAL NICKEL</b>					
Total Nickel, ICP	291.30		8	18	0.4
Total Nickel, Other	291.99		2	21	0.5
Method Group 291.XX PPM			10	18	1.7
<b>TOTAL SELENIUM</b>					
Total Selenium, ICP	301.30		1	<1	0.0
Method Group 301.XX PPM			1	11	0.0
<b>SODIUM AS Na<sub>2</sub>O</b>					
Sodium, Atomic Absorbtion	983.04 311.00		2	0.12	0.00
Sodium, Other	311.99		7	0.17	0.07
Method Group 311.XX PCT			9	0.16	0.11
<b>ACID SOLUBLE ZINC</b>					
Acid Soluble Zinc, ICP	321.30		11	100	8.4
Method Group 321.XX PPM			11	100	10.2
<b>FLUORIDE</b>					
Volumetric	325.10		8	1.35	0.07
Distilled/Electrode	325.99		4	1.32	0.06
Method Group 325.XX PCT			12	1.34	0.08