# Oregon Department of Agriculture

## **Fertilizer Program**

### **Laboratory Analysis Results**

January 1 - December 31, 2006

Official samples of fertilizer, agricultural mineral, agricultural amendment, and lime products are collected by the Department on a continuing basis. Samples are collected to determine if the guaranteed analysis identified on the product label is being satisfied. Routine product sampling provides a two-fold benefit: 1. Consumer protection for buyers; and 2. Identification of potential process problems for blenders and manufacturers.

A sample is considered deficient and in violation if the lab analysis of any guaranteed element is below the stated guarantee by an amount greater than the investigational allowance. The Department uses investigational allowances developed by the Association of American Plant Food Control Officials (AAPFCO). These investigational allowances were officially adopted by the Department as Oregon Administrative Rule (OAR) 603-059-0070 and are available on the fertilizer program's web page:

## http://oregon.gov/oda/pest/fertilizer.shtml

Sample analysis results are sorted alphabetically by company name. Company location denotes where the product is registered from, and not necessarily where the sample was collected. Product names marked with an asterisk (\*) are custom mixes. These custom mix products do not require registration and were sampled at the location listed.

Company	Product	Element	Lab Analysis	Label Guarantee	Violation?
		0.15 (0)			
Actagro, LLC	Micro Booster	Sulfur (S)	3.03%	2.5%	No
Biola, California		Iron (Fe)	1.33%	1%	No
		Manganese (Mn)	1.14%	1%	No
		Zinc (Zn)	3.15%	3%	No
	3-12-3 Phocon	Total Nitrogen (N)	3.4%	3%	No
		Available Phosphate (P <sub>2</sub> O <sub>5</sub> )	11.8%	12%	No
		Soluble Potash (K <sub>2</sub> O)	3.3%	3%	No
		Iron (Fe)	0.122%	0.1%	No
		Zinc (Zn)	0.177%	0.25%	Yes
Agro-Culture Liquid Fertilizers	9-24-3 Pro-Germinator	Total Nitrogen (N)	8.7%	9%	No
St. Johns, Michigan	o 21 o 110 derimidio	Available Phosphate (P <sub>2</sub> O <sub>5</sub> )	23.8%	24%	No
		Soluble Potash (K <sub>2</sub> O)	3.9%	3%	No
		Iron (Fe)	0.275%	0.1%	No
	2-1-6 Sure-K	Total Nitrogen (N)	3%	2%	No
		Available Phosphate (P <sub>2</sub> O <sub>5</sub> )	1.1%	1%	No
		Soluble Potash (K <sub>2</sub> O)	8.8%	6%	No

Company	Product	Element	Lab Analysis	Label Guarantee	Violation?
Agro-Culture Liquid Fertilizers St. Johns, Michigan	27-0-0-1 High NRG-N w/S	Total Nitrogen (N) Sulfur (S)	26.3% 1%	27% 1%	No No
American Agriculture Portland, Oregon	1-5-8 Super Micro Part A	Total Nitrogen (N) Available Phosphate (P <sub>2</sub> O <sub>5</sub> ) Soluble Potash (K <sub>2</sub> O) Magnesium (Mg) Sulfur (S) Boron (B) Copper (Cu) Iron (Fe) Manganese (Mn) Molybdenum (Mo) Zinc (Zn)	0.93% 5% 11.1% 1.3% 1.58% 0.016% 0.014% 0.053% 0.0009% 0.014%	1% 5% 8% 1% 1% 0.02% 0.01% 0.12% 0.05% 0.0008% 0.01%	No No No No No No No No No
	9-7-14 Vita Grow	Total Nitrogen (N) Available Phosphate (P <sub>2</sub> O <sub>5</sub> ) Soluble Potash (K <sub>2</sub> O) Calcium (Ca) Magnesium (Mg) Sulfur (S) Boron (B) Chlorine (Cl) (Max) Copper (Cu) Iron (Fe) Manganese (Mn) Molybdenum (Mo) Zinc (Zn)	8.9% 6.4% 16.4% 9.2% 1.9% 2.35% 0.025% 0.15% 0.02% 0.17% 0.12% 0.0015% 0.024%	9% 7% 14% 9.5% 1.5% 0.03% 1% 0.02% 0.15% 0.075% 0.001% 0.02%	No N
	4-14-24 Vita Grow Super Micro	Total Nitrogen (N) Available Phosphate (P <sub>2</sub> O <sub>5</sub> ) Soluble Potash (K <sub>2</sub> O) Magnesium (Mg) Boron (B) Chlorine (Cl) (Max) Copper (Cu) Iron (Fe) Manganese (Mn) Molybdenum (Mo) Zinc (Zn)	3.6% 13.3% 29.7% 3.6% 0.032% 0.29% 0.031% 0.35% 0.14% 0.0023% 0.042%	4% 14% 24% 3% 0.06% 2% 0.04% 0.3% 0.15% 0.002% 0.004%	No No No No Yes No No No No No No
American Agritech Tempe, Arizona	2-0-0 Cal Mag Plus	Total Nitrogen (N) Calcium (Ca) Magnesium (Mg) Iron (Fe)	1.9% <b>2.5%</b> 1.42% 0.094%	2% <b>3.2%</b> 1.2% 0.1%	No Yes No No
Bella Via, LLC Rohnert Park, California	16-0-0 Metanaturals Organic Nitrogen	Total Nitrogen (N) Urea Nitrogen	13.5% 13.0%	16% 0%	Yes Yes
Bloomington Wholesale Garden Supply Bloomington, Indiana	10-10-2 Sunleaves Peruvian Seabird Guano	Total Nitrogen (N) Available Phosphate (P <sub>2</sub> O <sub>5</sub> ) Soluble Potash (K <sub>2</sub> O)	11.2% 14.9% 4.2%	10% 10% 2%	No No No

Company	Product	Element	Lab Analysis	Label Guarantee	Violation?
Caltec Agri Marketing Services Modesto, California	0.309-1.7-0.6 Kelpak Liquid Seaweed Concentrate	Total Nitrogen (N) Available Phosphate (P <sub>2</sub> O <sub>5</sub> ) Soluble Potash (K <sub>2</sub> O)	0.43% 1.56% 1.2%	0.309% 1.7% 0.6%	No No No
<b>Down to Earth Distributors</b> Eugene, Oregon	3-2-2 Vegan Mix 100% Natural Fertilizer	<b>Total Nitrogen (N)</b> Available Phosphate (P <sub>2</sub> O <sub>5</sub> ) Soluble Potash (K <sub>2</sub> O)	2.5% 1.9% 2.8%	3% 2% 2%	<b>Yes</b> No No
ENP, Inc. Mendota, Illinois	Age Old Organics Guano – Fruit	Total Nitrogen (N) Available Phosphate (P <sub>2</sub> O <sub>5</sub> ) Soluble Potash (K <sub>2</sub> O) Calcium (Ca)	6.2% 18.78% <mark>1%</mark> 14.4%	2% 10% <b>20%</b> 1%	No No Yes No
Fox Farm Soil & Fertilizer Co. Arcata, California	6-4-4 Grow Big Liquid Plant Food	Total Nitrogen (N) Available Phosphate (P <sub>2</sub> O <sub>5</sub> ) Soluble Potash (K <sub>2</sub> O) Magnesium (Mg) Sulfur (S) Boron (B) Copper (Cu) Iron (Fe) Manganese (Mn) Molybdenum (Mo) Zinc (Zn)	6.5% 4.2% 5.4% 1.04% 0.77% 0.21% 0.78% 0.24% 0.0891% 0.164% 0.0948%	6% 4% 4% 0.6% 0.5% 0.2% 0.05% 0.1% 0.05% 0.009% 0.05%	No N
	0-3-0 Peace of Mind Rock Phosphate	Available Phosphate (P <sub>2</sub> O <sub>5</sub> ) Calcium (Ca) Magnesium (Mg)	3.2% 25.2% <b>0.33%</b>	3% 26% <b>3.44%</b>	No No Yes
Futchatec Distribution Ltd. Burnaby, British, Columbia	1.8-0.5-3.1 Dutch Master One Flower	Total Nitrogen (N) Available Phosphate (P <sub>2</sub> O <sub>5</sub> ) Soluble Potash (K <sub>2</sub> O) Calcium (Ca) Magnesium (Mg) Sulfur (S) Boron (B) Copper (Cu) Iron (Fe) Manganese (Mn) Molybdenum (Mo) Zinc (Zn)	1.6% 0.94% 3.9% 0.75% 0.48% 0.1% 0.0035% 0.0016% 0.024% 0.004% 0.001% 0.003%	1.8% 0.5% 3.1% 1.45% 0.5% 0.3% 0.003% 0.002% 0.04% 0.005% 0.001% 0.002%	No No No Yes No No No No No No No No Yes No No No
Green Air Products, Inc. Gresham, Oregon	Micro Base B	Total Nitrogen (N) Available Phosphate (P <sub>2</sub> O <sub>5</sub> ) Soluble Potash (K <sub>2</sub> O)	1.54% 3.8% 9.6%	1.5% 3.9% 7.47%	No No No
<b>Grigg Bros.</b> Albion, Idaho	8-0-4 + 10 Ca Tru-Foliar Sili-Kal B	Total Nitrogen (N) Soluble Potash (K₂O) Calcium (Ca) Boron (B)	9.4% 4.1% 10.4% 0.044%	8% 4% 10% 0.04%	No No No

Company	Product	Element	Lab Analysis	Label Guarantee	Violation?
Grigg Bros.	13-2-3 + Iron Tru-Foliar	Total Nitrogen (N)	13.3%	13%	No
Albion, Idaho	Gary's Green Ultra	Available Phosphate (P <sub>2</sub> O <sub>5</sub> )	1.9%	2%	No
		Soluble Potash (K <sub>2</sub> O)	3.7%	4%	No
		Copper (Cu)	0.13%	0.12%	No
		Iron (Fe)	1.34%	1.4%	No
		Manganese (Mn)	0.23%	0.2%	No
		Zinc (Zn)	0.19%	0.2%	No
			.= -0/		
Lebanon Seaboard Corp.	18-2-5 NutriFoliar	Total Nitrogen (N)	17.8%	18%	No
Lebanon, Pennsylvania	Fertilizer + Micros	Available Phosphate (P <sub>2</sub> O <sub>5</sub> )	1.9%	2%	No
		Soluble Potash (K <sub>2</sub> O)	4.6%	5%	No
		Sulfur (S)	0.035%	1.2%	Yes
		Copper (Cu)	0.1%	0.1%	No
		Iron (Fe)	0.94%	1%	No
		Manganese (Mn)	0.11%	0.1%	No
		Zinc (Zn)	0.1%	0.1%	No
		ZIIIC (ZII)	0.170	0.176	INO
Light Manufacturing Co.	Golden Grow – Grow	Total Nitrogen (N)	5.6%	5%	No
Portland, Oregon	Part "A"	Available Phosphate (P <sub>2</sub> O <sub>5</sub> )	18.9%	19%	No
, 3		Soluble Potash (K <sub>2</sub> O)	32.1%	30%	No
		Magnesium (Mg)	3.3%	3%	No
		Sulfur (S)	3.79%	4%	No
	Golden Grow – Grow	Total Nitrogen (N)	12.6%	15.5%	Yes
	Part "B"	Calcium (Ca)	20%	19%	No
	Golden Grow - Grow	Boron (B)	0.029%	0.036%	No
	Micro-Gold Micro	Copper (Cu)	0.007%	0.006%	No
	Nutrient Concentrate	Iron (Fe)	0.28%	0.31%	No
		Manganese (Mn)	0.22%	0.14%	No
		Molybdenum (Mo)	0.0017%	0.001%	No
		Zinc (Zn)	0.075%	0.05%	No
	0-9-7 Golden Grow	Available Phosphate (P <sub>2</sub> O <sub>5</sub> )	9%	9%	No
	Bloom Builder	Soluble Potash (K <sub>2</sub> O)	8.6%	7%	No
Miller Chemical &	2-8-14 Greenstim	Total Nitrogen (N)	2.4%	2%	No
	2 0 11 010011311111	Available Phosphate (P <sub>2</sub> O <sub>5</sub> )	8.2%	8%	No
Fertilizer Corporation Hanover, Pennsylvania		Soluble Potash (K <sub>2</sub> O)	15.6%	14%	No
		· - /			
		Chlorine (CI) Maximum	0.3%	0.25%	No
		Copper (Cu)	0.096%	0.01%	No
		Iron (Fe)	0.127%	0.1%	No
Natural Science Research	2-5-4 NSR Greenleaves	Total Nitrogen (N)	2.8%	2%	No
Carson, California	Bloom Juice	Available Phosphate (P <sub>2</sub> O <sub>5</sub> )	3.4%	5%	Yes
Caroni, Camornia	2100111 04100	Soluble Potash (K <sub>2</sub> O)	5.8%	4%	No
		( = /			
		Calcium (Ca) Magnesium (Mg)	1.62% 0.56%	1% 0.5%	No No
		magnooidiii (mg)	J.5570	0.070	140
North Pacific Ag Products	Jerico Products Pacific	Calcium (Ca)	34.5%	36%	Yes
Portland, Oregon	Pearl Oyster Shell	Calcium Carbonate	05 701	000/	
	Shell Flour	Equivalent (CCE)	95.7%	62%	No

Company	Product	Element	Lab Analysis	Label Guarantee	Violation?
Peak Minerals-Azomite, Inc.	Azomite Soil Sweetener	Soluble Potash (K <sub>2</sub> O)	0.1%	0.2%	No
Branson, Missouri	, LEGITING COIL CARCOLOTION	Calcium (Ca)	15.1%	15.8%	No
Brancon, Miccoan		Magnesium (Mg)	0.52%	0.5%	No
		Chlorine (CI)	0.06%	0.1%	Yes
		Sodium (Na)	0.31%	0.1%	No
		Calcium Carbonate (CaCO <sub>3</sub> )	<b>37.8%</b>	43%	Yes
		Magnesium Carbonate (MgCO <sub>3</sub> Calcium Carbonate		0.7%	No
		Equivalent (CCE)	42.6%	45%	No
		% Passing 100 Mesh Sieve	82.1%	100%	Yes
		% Passing 40 Mesh Sieve	92.2%	100%	No
		% Passing 20 Mesh Sieve	98.1%	100%	No
				100%	No
		% Passing 10 Mesh Sieve	99.6%		
		Lime Score	39.28	44	Yes
		Moisture (Maximum)	4.15%	2%	Yes
Rain Shadow Technologies	Bloomax Part A	Total Nitrogen (N)	3.4%	7%	Yes
Lake Stevens, Washington		Soluble Potash (K₂O)	2%	<b>3</b> %	Yes
		Calcium (Ca)	3.5%	<b>7</b> %	Yes
		Iron (Fe)	0.1%	0.24%	Yes
Round Butte Seed Growers	25-6-6-4(S)	Total Nitrogen (N)	25.6%	25%	No
Culver, Oregon	Super Grow	Available Phosphate (P <sub>2</sub> O <sub>5</sub> )	6%	6%	No
		Soluble Potash (K <sub>2</sub> O)	7.1%	6%	No
		Sulfur (S)	3.9%	4%	No
Soda Springs Phosphate II Soda Springs, Idaho	0-3-0 Ida-Gro Pelletized Phosphate	Available Phosphate (P <sub>2</sub> O <sub>5</sub> ) Iron (Fe)	6.5% <b>0.9%</b>	3% <b>1.5%</b>	No Yes
The Guano Company	5-5-1 Super Bat Super	Total Nitrogen (N)	1.2%	5%	Yes
Trinidad, California	Tea Mix	Available Phosphate (P <sub>2</sub> O <sub>5</sub> )	2.2%	5%	Yes
		Soluble Potash (K <sub>2</sub> O)	0.6%	1%	No
Wilbur-Ellis Company	16-16-16-5.07(S)*	Total Nitrogen (N)	16.1%	16%	No
Suver, Oregon		Available Phosphate (P <sub>2</sub> O <sub>5</sub> )	15%	16%	Yes
		Soluble Potash (K <sub>2</sub> O)	17.9%	16%	No
		Magnesium (Mg)	2.87%	2.53%	No
		Sulfur (S)	5.12%	5.07%	No
	16-16-16-6.2(S)*	Total Nitrogen (N)	16%	16%	No
	• •	Available Phosphate (P <sub>2</sub> O <sub>5</sub> )	15.8%	16%	No
		Soluble Potash (K <sub>2</sub> O)	16.6%	16%	No
		Sulfur (S)	6.66%	6.2%	No
Wilbur-Ellis Company	0-0-60	Soluble Potash (K <sub>2</sub> O)	61.2%	60%	No
Yakima, Washington					
-	11-52-0	Total Nitrogen (N) Available Phosphate (P <sub>2</sub> O <sub>5</sub> )	10.9% 52.8%	11% 52%	No No

Company	Product	Element	Lab Analysis	Label Guarantee	Violation?
Wilbur-Ellis Company	High Calcium	Calcium Carbonate (CaCO <sub>3</sub> )	94.4%	94%	No
Yakima, Washington	Pelletized Lime	Magnesium Carbonate (MgCO₃ Calcium Carbonate	) 1.9%	1%	No
		Equivalent (CCE)	96.3%	94%	No
		% Passing 100 Mesh Sieve	88%	70%	No
		% Passing 40 Mesh Sieve	98%	98%	No
		% Passing 20 Mesh Sieve	98.6%	100%	No
		% Passing 10 Mesh Sieve	98.8%	100%	No
		Moisture	< 1%	1.01%	No
		Oregon Lime Score	93.82	91	No