

Oregon Department of Agriculture

Fertilizer Program

Laboratory Analysis Results

January 1 – December 31, 2007

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?
American Agritech Chandler, Arizona	0.5-0.5-1.0 Original Pure Blend Metabolic Bloom Formula	Total Nitrogen (N)	1.4%	0.5%	No
		Available Phosphate (P ₂ O ₅)	1.1%	0.5%	No
		Soluble Potash (K ₂ O)	1%	1%	No
		Humic Acid	11%	7%	No
	2-0-0 Cal-Mag Plus	Total Nitrogen (N)	1.8%	2%	No
		Calcium (Ca)	3%	3.2%	No
		Magnesium (Mg)	1.5%	1.2%	No
		Iron (Fe)	0.091%	0.1%	No
American Minerals Quincy, Illinois	Granusol Iron	Iron (Fe)	64.9%	50%	No

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Company	Product	Element	Lab Analysis	Label Guarantee	Violation?
Ash Grove Cement Company Portland, Oregon	Limestone Flour	Calcium Carbonate (CaCO ₃)	100.6%	93%	No
		Calcium Carbonate Equivalent (CCE)	96.3%	93%	No
		% Passing 100 Mesh Sieve	90.22%	90%	No
		% Passing 40 Mesh Sieve	99.78%	97%	No
		% Passing 20 Mesh Sieve	100%	99%	No
		% Passing 10 Mesh Sieve	100%	100%	No
		Lime Score	96.16	93	No
		Moisture (Maximum)	0.06%	< 2%	No
Bay Zinc Company, Inc. Moxee, Washington	Blu-Min 33% Zinc-Granular with Sulphur	Sulfur (S)	18.8%	18%	No
		Zinc (Zn)	35%	33%	No
Bella Via, LLC Healdsburg, California	16-0-0 Metanaturals Organic Nitrogen	Total Nitrogen (N)	14.01%	16%	Yes
		Ammoniacal Nitrogen	1.2%	3.5%	Yes
		Urea Nitrogen	12.81%	0%	Yes
	16-0-0 Metanaturals Organic Nitrogen	Total Nitrogen (N)	16.2%	16%	No
		Ammoniacal Nitrogen	1.6%	3.5%	Yes
		Urea Nitrogen	14.6%	0%	Yes
	3-3-3 Metanaturals Professional Organic Plant Nutrient	Total Nitrogen (N)	3.5%	3%	No
		Available Phosphate (P ₂ O ₅)	3.9%	3%	No
		Soluble Potash (K ₂ O)	3.4%	3%	No
		Magnesium (Mg)	0.71%	1.2%	No
		Copper (Cu)	0.052%	0.05%	No
		Iron (Fe)	0.22%	0.1%	No
		Manganese (Mn)	0.11%	0.05%	No
		Molybdenum (Mo)	0.0073%	0.0005%	No
	Zinc (Zn)	0.11%	0.1%	No	
Metanaturals Organic Calcium	Calcium (Ca)	5.8%	6%	No	
1-5-5 Metanaturals Professional Organic Bloom Formula	Total Nitrogen (N)	1.2%	1%	No	
	Available Phosphate (P₂O₅)	4.3%	5%	Yes	
	Soluble Potash (K₂O)	3.1%	5%	Yes	
	Magnesium (Mg)	0.76%	0.5%	No	
Green Air Products Gresham, Oregon	0-0-4.5 Bio-Genesis High Tide Organic Seaweed	Soluble Potash (K ₂ O)	4.7%	4.5%	No
		Humic Acid	6.4%	6%	No
Grow More Gardena, California	30-10-10 Orchid Growth Formula	Total Nitrogen (N)	29.7%	30%	No
		Available Phosphate (P ₂ O ₅)	11.4%	10%	No
		Soluble Potash (K ₂ O)	11.9%	10%	No
		Copper (Cu)	0.08%	0.05%	No
		Iron (Fe)	0.12%	0.1%	No
		Manganese (Mn)	0.065%	0.05%	No
		Molybdenum (Mo)	0.00054%	0.0005%	No
		Zinc (Zn)	0.071%	0.05%	No

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Company	Product	Element	Lab Analysis	Label Guarantee	Violation?	
Hydro-Organics Wholesale/OGM Chico, California	10-3-1 Ancient Organics Primal Grow	Total Nitrogen (N)	7.92%	10%	Yes	
		Available Phosphate (P ₂ O ₅)	13.5%	3%	No	
		Soluble Potash (K ₂ O)	0.8%	1%	No	
J. R. Simplot Company Lathrop, California	9-9-9 Best Super Iron 11% Iron	Total Nitrogen (N)	10.8%	9%	No	
		Available Phosphate (P ₂ O ₅)	9%	9%	No	
		Soluble Potash (K ₂ O)	9.8%	9%	No	
		Sulfur (S)	13.4%	11%	No	
		Iron (Fe)	14.7%	11%	No	
Lebanon Seaboard Corp. Lebanon, Pennsylvania	20-0-25 Expo Extended Potassium Sulfate Granular SGN 195	Total Nitrogen (N)	20.1%	20%	No	
		Soluble Potash (K ₂ O)	27.1%	25%	No	
		Sulfur (S)	9.2%	8.5%	No	
Loveland Products, Inc. Greeley, Colorado	16-0-2 Nortrace Awaken	Total Nitrogen (N)	15.4%	16%	No	
		Soluble Potash (K ₂ O)	2%	2%	No	
		Boron (B)	0.017%	0.02%	No	
		Chlorine (Cl) Maximum	0.17%	0.01%	Yes	
		Copper (Cu)	0.14%	0.15%	No	
		Iron (Fe)	0.16%	0.15%	No	
		Manganese (Mn)	0.14%	0.15%	No	
		Molybdenum (Mo)	0.0008%	0.0006%	No	
		Zinc (Zn)	3.4%	2.7%	No	
Marion Ag Service St. Paul, Oregon	Pro-Pell-It! Pelletized Lime	Calcium (Ca)	31.9%	34%	Yes	
		Calcium Carbonate (CaCO ₃)	79.6%	86%	No	
		Calcium Carbonate Equivalent (CCE)	91.3%	86%	No	
		Magnesium Carbonate (MgCO ₃)	1.98%	1.48%	No	
		% Passing 100 Mesh Sieve	91.73%	89%	No	
		% Passing 40 Mesh Sieve	99.5%	99.7%	No	
		% Passing 20 Mesh Sieve	99.85%	100%	No	
		% Passing 10 Mesh Sieve	99.89%	100%	No	
		Lime Score	90.7	90	No	
		Moisture (Maximum)	0.38%	2%	No	
		Pro-Pell-It! Pelletized Lime	Calcium (Ca)	36.8%	34%	Yes
			Calcium Carbonate (CaCO ₃)	91.8%	86%	No
			Calcium Carbonate Equivalent (CCE)	90.4%	86%	No
	Magnesium Carbonate (MgCO ₃)		2.65%	1.48%	No	
	% Passing 100 Mesh Sieve		91.2%	89%	No	
	% Passing 40 Mesh Sieve		99.66%	99.7%	No	
	% Passing 20 Mesh Sieve		99.89%	100%	No	
	% Passing 10 Mesh Sieve	99.91%	100%	No		
	Lime Score	89.94	90	No		
	Moisture (Maximum)	0.31%	< 2%	No		
Martrex, Inc. Minnetonka, Minnesota	Zinc Sulfate Monohydrate Granular	Sulfur (S)	17.4%	17%	No	
		Zinc (Zn)	36.9%	35.5%	No	
	Manganese Sulfate Monohydrate Granular	Sulfur (S)	19.6%	17%	No	
		Manganese (Mn)	32.9%	31.8%	No	

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Company	Product	Element	Lab Analysis	Label Guarantee	Violation?	
Martrex, Inc. Minnetonka, Minnesota	Copper Sulfate	Sulfur (S)	12.5%	13.1%	No	
		Copper (Cu)	24.9%	25%	No	
Northwest Agricultural Products Pasco, Washington	Wilco Row Crop	Magnesium (Mg)	0.042%	1%	Yes	
		Sulfur (S)	3.26%	9.87%	Yes	
		Boron (B)	0.215%	0.13%	No	
		Copper (Cu)	2.79%	1.33%	No	
		Iron (Fe)	0.53%	0.35%	No	
		Manganese (Mn)	0.88%	0.67%	No	
		Molybdenum (Mo)	0.00082%	0.001%	No	
Zinc (Zn)	4.3%	3.33%	No			
Novozymes Biologicals, Inc. Salem, Virginia	0-0-14 Roots KCS Concentrate	Soluble Potash (K ₂ O)	16.4%	14%	No	
		Calcium (Ca)	1.22%	1%	No	
		Sulfur (S)	2.01%	5%	Yes	
		Iron (Fe)	0.2%	0.1%	No	
		Manganese (Mn)	0.057%	0.05%	No	
		Zinc (Zn)	0.068%	0.05%	No	
PCS Sales (USA) Inc. Northbrook, Illinois	0-0-60 Muriate of Potash	Soluble Potash (K ₂ O)	64.7%	60%	No	
Pendleton Grain Growers Hermiston, Oregon	33.37-0-11.21 *	Total Nitrogen (N)	30.28%	33.37%	Yes	
		Soluble Potash (K ₂ O)	12.4%	11.21%	No	
		Sulfur (S)	5.81%	3.74%	No	
		Boron (B)	0.206%	0.133%	No	
RSA MicroTech LLC Minneapolis, Minnesota	Ruffin-Tuff Iron 10-G	Sulfur (S)	10.1%	8%	No	
		Iron (Fe)	10.4%	10%	No	
		Humic Acid	16.2%	12%	No	
	RSA 10% Liquid Boron	Boron (B)	10.5%	10%	No	
The Horticulturist Choice Wholesale Garden Supply Portland, Oregon	Plant Growth Stimulant	Humic Acid	5.9%	5%	No	
		Granular Lime	Calcium (Ca)	39%	36%	No
			Calcium Carbonate (CaCO₃)	90.0%	None	Yes
			Magnesium Carbonate (MgCO ₃)	0.87%	0.5%	No
			Calcium Carbonate Equivalent (CCE)	90.9%	91%	No
			% Passing 100 Mesh Sieve	65.8%	None	Yes
			% Passing 40 Mesh Sieve	99.4%	99%	No
			% Passing 20 Mesh Sieve	99.9%	100%	No
			% Passing 10 Mesh Sieve	100%	100%	No
			Lime Score	90.25	91	No
			Moisture (Maximum)	0.45%	< 2%	No

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The Horticulturist Choice Wholesale Garden Supply Portland, Oregon	2.5-12-2 Complete for Potting Soil	Total Nitrogen (N)	2.8%	2.5%	No
		Available Phosphate (P₂O₅)	11%	12%	Yes
		Soluble Potash (K₂O)	0%	2%	Yes
		Calcium (Ca)	19%	16%	No
		Magnesium (Mg)	1.3%	1%	No
		Sulfur (S)	1.25%	1%	No
		Iron (Fe)	0.15%	0.1%	No
Turf Care Supply Corp. Brunswick, Ohio	35-0-0 PCSCU Professional Turf Fertilizer Fairway Grade	Total Nitrogen (N)	34.6%	35%	No
		Sulfur (S)	22.7%	18%	No
Wilbur-Ellis Company Yakima, Washington	3-15-0 Lighthouse Bonemeal Fertilizer	Total Nitrogen (N)	4.5%	3%	No
		Available Phosphate (P ₂ O ₅)	15.2%	15%	No
Wilco / Agriliance LLC Mt. Angel, Oregon	11-52-0 Monoammonium Phosphate	Total Nitrogen (N)	10.8%	11%	No
		Available Phosphate (P ₂ O ₅)	53.3%	52%	No
	20-0-0 Ammonium Sulfate	Total Nitrogen (N)	20.2%	20%	No
		Sulfur (S)	24.1%	24%	No
	12-43-10 Wilco Start	Total Nitrogen (N)	11.5%	12%	No
		Available Phosphate (P ₂ O ₅)	42.3%	43%	No
		Soluble Potash (K ₂ O)	13.4%	10%	No
		Sulfur (S)	2.4%	2%	No
		Boron (B)	0.032%	0.02%	No
		Copper (Cu)	0.066%	0.05%	No
		Iron (Fe)	0.16%	0.1%	No
		Manganese (Mn)	0.18%	0.1%	No
	Hi Score Lime	Molybdenum (Mo)	0.0006%	0.0005%	No
		Zinc (Zn)	0.4%	0.25%	No
		Calcium Carbonate (CaCO ₃)	106%	115%	No
		Calcium Carbonate Equivalent (CCE)	109%	115%	No
		% Passing 100 Mesh Sieve	90%	100%	No
		% Passing 40 Mesh Sieve	97.3%	99%	No
		% Passing 20 Mesh Sieve	100%	97%	No
% Passing 10 Mesh Sieve	100%	93%	No		
16-7-26 Custom Mix with Slug Bait *	Lime Score	107.5	110	No	
	Moisture (Maximum)	0.01%	< 2%	No	
	Total Nitrogen (N)	15.2%	16%	Yes	
	Available Phosphate (P ₂ O ₅)	7.41%	7%	No	
	Soluble Potash (K ₂ O)	28.7%	26%	No	
	Sulfur (S)	5.41%	5.67%	No	