

# Oregon Department of Agriculture

## Fertilizer Program

### Laboratory Analysis Results

January 1 – December 31, 2010

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?
Advanced Nutrients Brandenburg, Kentucky	JumpStart Cutting Accelerator	Humic Acid	0.0478%	6%	Yes
		Vitamin B-1	< 2%	5%	Yes
	4-3-6 Organic Iguana Juice Bloom	Total Nitrogen (N)	2.6%	4%	Yes
		Available Phosphate (P <sub>2</sub> O <sub>5</sub> )	2.38%	3%	No
		Soluble Potash (K <sub>2</sub> O)	3.54%	6%	No
	0-4-8 Hammerhead PK 4/8	Total Nitrogen (N)	4.93%	4%	No
		Soluble Potash (K <sub>2</sub> O)	6.69%	8%	Yes
	1-17-38 Big Bud	Total Nitrogen (N)	1.25%	1%	No
		Available Phosphate (P <sub>2</sub> O <sub>5</sub> )	14.6%	17%	Yes
		Soluble Potash (K <sub>2</sub> O)	38.7%	38%	No
		Sulfur (S)	11.4%	10%	No
	2-1-4 B-52 Fertilizer Booster	Total Nitrogen (N)	2.47%	2%	No
		Available Phosphate (P <sub>2</sub> O <sub>5</sub> )	1.7%	1%	No
		Soluble Potash (K <sub>2</sub> O)	4.15%	4%	No
Humic Acid		0.207%	0.73%	Yes	
Vitamin B-1		0.286%	0.27%	No	

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Company	Product	Element	Lab Analysis	Label Guarantee	Violation?	
<b>Advanced Nutrients</b> Brandenburg, Kentucky	1-2-5 Kushie Kush	Total Nitrogen (N)	1.15%	1%	No	
		Available Phosphate (P <sub>2</sub> O <sub>5</sub> )	0.94%	2%	Yes	
		Soluble Potash (K <sub>2</sub> O)	4.04%	5%	Yes	
<b>Agricultural Organics</b> Green Fields, South Australia	Advanced Floriculture 1.356-0.122-1.205 Seafuel Bloom	Total Nitrogen (N)	0.896%	1.356%	No	
		Available Phosphate (P <sub>2</sub> O <sub>5</sub> )	0.436%	0.122%	No	
		Soluble Potash (K <sub>2</sub> O)	0.704%	1.205%	Yes	
		Calcium (Ca)	0.29%	0.1034%	No	
		Magnesium (Mg)	0.0462%	0.10967%	Yes	
		Sulfur (S)	0.1483%	0.14367%	No	
		Boron (B)	0.00068%	0.00153%	Yes	
		Cobalt (Co)	0.00003%	0.00003%	No	
		Copper (Cu)	0.00004%	0.00003%	No	
		Iron (Fe)	0.00314%	0.00956%	Yes	
		Manganese (Mn)	0.00014%	0.00093%	Yes	
		Molybdenum (Mo)	0.00003%	0.00003%	No	
		Zinc (Zn)	0.00122%	0.00533%	Yes	
		Humic Acid	0.475%	0.075%	No	
		Advanced Floriculture 0.17-0.027-3.278 Seaweed Bloom	Total Nitrogen (N)	0.17%	0.17%	No
			Available Phosphate (P <sub>2</sub> O <sub>5</sub> )	0.06%	0.027%	No
			Soluble Potash (K <sub>2</sub> O)	1.33%	3.278%	Yes
	Calcium (Ca)		0.0438%	0.13%	Yes	
	Magnesium (Mg)		0.0432%	0.093%	Yes	
	Sulfur (S)		0.0377%	0.092%	Yes	
	Boron (B)		0.00027%	0.00084%	Yes	
	Cobalt (Co)		0.00003%	0.00005%	Yes	
	Copper (Cu)		0.00008%	0.00005%	No	
	Iron (Fe)		0.00014%	0.00068%	Yes	
	<b>Agrium Advanced Technologies (US) Inc.</b> Reese, Michigan	2-0-0 EZ20 Essential Zinc	Total Nitrogen (N)	2.76%	2%	No
			Sulfur (S)	14.1%	14%	No
			Zinc (Zn)	29.8%	20%	No
	Ultra Yield BroadMan 20	Sulfur (S)	13.6%	12%	No	
		Manganese (Mn)	24.5%	20%	No	
<b>Allied Imports</b> South Lake Tahoe, California	House & Garden Van De Zwaan 0-7-5.8 Top Booster	Available Phosphate (P <sub>2</sub> O <sub>5</sub> )	7.07%	7%	No	
		Soluble Potash (K <sub>2</sub> O)	6.85%	5.8%	No	
<b>Aurora Innovations, Inc.</b> Eugene, Oregon	Roots Organics by Aurora Innovations 0.5-2-1.5 Buddha Bloom	Total Nitrogen (N)	0.681%	0.5%	No	
		Available Phosphate (P <sub>2</sub> O <sub>5</sub> )	2.3%	2%	No	
		Soluble Potash (K <sub>2</sub> O)	1.57%	1.5%	No	
		Calcium (Ca)	2.48%	1%	No	
		Humic Acid	0.64%	0.25%	No	

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Company	Product	Element	Lab Analysis	Label Guarantee	Violation?
Aurora Innovations, Inc. Eugene, Oregon	Aurora innovations Soul Synthetics 1.5-4.5-3 Bloom	Total Nitrogen (N)	2.05%	1.5%	No
		Available Phosphate (P <sub>2</sub> O <sub>5</sub> )	4.61%	4.5%	No
		Soluble Potash (K <sub>2</sub> O)	5.23%	3%	No
		Calcium (Ca)	1.18%	1%	No
		Magnesium (Mg)	0.933%	0.75%	No
		Iron (Fe)	0.105%	0.1%	No
		Humic Acid	0.825%	0.25%	No
	Aurora Innovations Soul Synthetics 0.5-2.5-1.5 Infinity	Total Nitrogen (N)	0.624%	0.5%	No
		Available Phosphate (P <sub>2</sub> O <sub>5</sub> )	3.04%	2.5%	No
		Soluble Potash (K <sub>2</sub> O)	1.5%	1.83%	No
		Calcium (Ca)	0.762%	1%	No
		Magnesium (Mg)	0.28%	0.5%	No
	Roots Organics by Aurora Innovations 9-3-1 Nitro Bat Guano	Total Nitrogen (N)	8.67%	9%	No
		Available Phosphate (P <sub>2</sub> O <sub>5</sub> )	4.16%	3%	No
		Soluble Potash (K <sub>2</sub> O)	1.91%	1%	No
		Calcium (Ca)	6.89%	2%	No
Roots Organics by Aurora Innovations 15.5-1-1 SuperNitro Bat Guano	Total Nitrogen (N)	15.1%	15.5%	No	
	Available Phosphate (P <sub>2</sub> O <sub>5</sub> )	2.3%	1%	No	
	Soluble Potash (K <sub>2</sub> O)	0.686%	1%	No	
Botanicare Chandler, Arizona	Pure 1-5-4 + 6% Ca Natural and Organic Plant Food Granular Bloom Formula	Total Nitrogen (N)	3.03%	1%	No
		Available Phosphate (P <sub>2</sub> O <sub>5</sub> )	5.12%	5%	No
		Soluble Potash (K <sub>2</sub> O)	3.84%	4%	No
		Calcium (Ca)	11.1%	6%	No
		Humic Acid	3.72%	2%	No
	Pure 6-6-5 + 8% Ca Natural and Organic Plant Food Granular Grow Formula	Total Nitrogen (N)	5.57%	6%	No
		Available Phosphate (P <sub>2</sub> O <sub>5</sub> )	5.33%	6%	No
		Soluble Potash (K <sub>2</sub> O)	4.77%	5%	No
		Calcium (Ca)	7.62%	8%	No
		Humic Acid	6.81%	3%	No
Sweet Grape All Natural Mineral Supplement	Magnesium (Mg)	1.53%	1.5%	No	
	Sulfur (S)	2%	2%	No	
Clayton's Calcium, Inc. Parma, Idaho	Clayton's Calcium Inc. 4 X 6	Calcium (Ca)	41.8%	38%	No
		Calcium Carbonate (CaCO <sub>3</sub> )	104%	96%	No
		Calcium Carbonate Equivalent (CCE)	108%	None	Yes
		% Passing 100 Mesh Sieve	8.3%	None	Yes
		% Passing 40 Mesh Sieve	10.1%	None	Yes
		% Passing 20 Mesh Sieve	11.8%	None	Yes
		% Passing 10 Mesh Sieve	31.5%	None	Yes
		Lime Score	18.35	None	Yes
		Moisture (Maximum)	0.22%	< 1.5%	No
Conscious Earthworks, LLC Phoenix, Oregon	Vital Earth's 9-3-1 Bat Guano High Nitrogen	Total Nitrogen (N)	6.04%	9%	Yes
		Available Phosphate (P <sub>2</sub> O <sub>5</sub> )	3.7%	3%	No
		Soluble Potash (K <sub>2</sub> O)	1.95%	1%	No

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Company	Product	Element	Lab Analysis	Label Guarantee	Violation?
<b>Crop Production Services</b> Greeley, Colorado	Green Velvet 24.9-5.1-15.1 + 2.5S	Total Nitrogen (N)	23.7%	24.9%	<b>Yes</b>
		Available Phosphate (P <sub>2</sub> O <sub>5</sub> )	7.18%	5.1%	No
		Soluble Potash (K <sub>2</sub> O)	14.3%	15.1%	No
		Sulfur (S)	2.57%	2.5%	No
	Green Velvet 25-5.1-14.9 + 2.5S with 30% Slow Release Nitrogen	Total Nitrogen (N)	23.7%	25%	<b>Yes</b>
		Available Phosphate (P <sub>2</sub> O <sub>5</sub> )	5.71%	5.1%	No
<b>Cutting Edge Solutions</b> Santa Rosa, California	Mag-Amped	Magnesium (Mg)	1.27%	1%	No
		Sulfur (S)	1.39%	4%	<b>Yes</b>
	0-0-2 Uncle John's Blend	Available Phosphate (P <sub>2</sub> O <sub>5</sub> )	2.96%	2%	No
	Solar Gaia	Magnesium (Mg)	0.539%	0.5%	No
		Humic Acid	0.007%	0.05%	<b>Yes</b>
	<b>Down to Earth Distributors, Inc.</b> Eugene, Oregon	10-6-2 Bat Guano All Natural Fertilizer	Total Nitrogen (N)	9.73%	10%
Available Phosphate (P <sub>2</sub> O <sub>5</sub> )			5.33%	6%	No
Soluble Potash (K <sub>2</sub> O)			1.85%	2%	No
<b>Emerald Triangle</b> Fortuna, California	0-0-3 Snow Storm Ultra Potassium Supplement	Soluble Potash (K <sub>2</sub> O)	2.95%	3%	No
<b>ENP, Inc.</b> Mendota, Illinois	Age Old 12-6-6 Grow	Total Nitrogen (N)	12.8%	12%	No
		Available Phosphate (P <sub>2</sub> O <sub>5</sub> )	6.07%	6%	No
		Soluble Potash (K <sub>2</sub> O)	6.32%	6%	No
		Boron (B)	0.0195%	0.02%	No
		Copper (Cu)	0.0613%	0.05%	No
		Iron (Fe)	0.106%	0.1%	No
		Manganese (Mn)	0.0494%	0.05%	No
		Zinc (Zn)	0.0596%	0.05%	No
	Age Old Organics Humic 12 12% Humic Acid Concentrate	Humic Acid	12%	3.18%	<b>Yes</b>
	<b>Fox Farm Soil &amp; Fertilizer Co.</b> Arcata, California	9-50-10 Cha Ching	Total Nitrogen (N)	10.3%	9%
Available Phosphate (P <sub>2</sub> O <sub>5</sub> )			51.7%	50%	No
Soluble Potash (K <sub>2</sub> O)			9.33%	10%	No
Boron (B)			0.0221%	0.02%	No
Copper (Cu)			0.108%	0.05%	No
Iron (Fe)			0.133%	0.1%	No
Manganese (Mn)			0.551%	0.05%	No
Zinc (Zn)			0.674%	0.05%	No
<b>GH Inc.</b> Sebastopol, California	0-0-1 Diamond Black Liquid Humic Acids	Soluble Potash (K <sub>2</sub> O)	1.5%	1%	No
		Humic Acid	13%	6%	No

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Company	Product	Element	Lab Analysis	Label Guarantee	Violation?	
<b>GH Inc.</b> Sebastopol, California	General Hydroponics 7-4-10 Flora Nova Grow One-Part Plant Food	Total Nitrogen (N)	7.11%	7%	No	
		Available Phosphate (P <sub>2</sub> O <sub>5</sub> )	4.73%	4%	No	
		Soluble Potash (K <sub>2</sub> O)	11.9%	10%	No	
		Calcium (Ca)	4.34%	4%	No	
		Magnesium (Mg)	1.42%	1.5%	No	
		Sulfur (S)	2.46%	2%	No	
		Boron (B)	0.0154%	0.01%	No	
		Cobalt (Co)	0.0022%	0.002%	No	
		Copper (Cu)	0.0082%	0.01%	No	
		Iron (Fe)	0.106%	0.1%	No	
		Manganese (Mn)	0.0261%	0.03%	No	
		Molybdenum (Mo)	0.00251%	0.003%	No	
		Zinc (Zn)	0.012%	0.02%	No	
		Humic Acid	0.02%	0.01%	Yes	
		Citric Acid	0.2%	3%	Yes	
		General Organics BioThrive Vegan Plant Food 2-4-4 Bloom	Total Nitrogen (N)	2.37%	2%	No
			Available Phosphate (P <sub>2</sub> O <sub>5</sub> )	4.36%	4%	No
	Soluble Potash (K <sub>2</sub> O)		3.69%	4%	No	
	Magnesium (Mg)		0.513%	0.05%	No	
	Boron (B)		0.0148%	0.01%	No	
Copper (Cu)	0.00656%		0.01%	No		
Iron (Fe)	0.119%		0.1%	No		
Manganese (Mn)	0.0258%		0.03%	No		
Molybdenum (Mo)	0.00237%		0.002%	No		
Zinc (Zn)	0.012%		0.01%	No		
Humic Acid	0.816%		0.2%	No		
<b>Green Air Products</b> Gresham, Oregon	Bio-Genesis 0-0-1 Mineral Matrix		Soluble Potash (K <sub>2</sub> O)	1.38%	1%	No
			Magnesium (Mg)	0.709%	0.5%	No
		Sulfur (S)	3.46%	3%	No	
		Boron (B)	0.0231%	0.02%	No	
		Copper (Cu)	0.434%	0.05%	No	
		Iron (Fe)	1.72%	2%	Yes	
		Manganese (Mn)	2.05%	2%	No	
		Molybdenum (Mo)	0.00165%	0.005%	Yes	
		Zinc (Zn)	2.68%	3%	Yes	
		<b>Humboldt Nutrients, LLC</b> Eureka, California	1-3-4 Sea Mag	Total Nitrogen (N)	0.73%	1%
Available Phosphate (P <sub>2</sub> O <sub>5</sub> )	3.26%			3%	No	
Soluble Potash (K <sub>2</sub> O)	4%			4%	No	
Magnesium (Mg)	1.57%			1.5%	No	
Humic Acid	0.325%			1%	Yes	
<b>Hydrodynamics International</b> Lansing, Michigan	Europonic FossilFuel Liquid Humic Acids for Foliar and Root Application	Humic Acid	1.29%	10%	Yes	
<b>J. R. Simplot Company</b> Lathrop, California	PHT B. A. Humus - D. C. Fertilizer Compatible Granular Humus	Humic Acid	48.2%	70%	Yes	

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Company	Product	Element	Lab Analysis	Label Guarantee	Violation?
<b>J. T. Dimmick</b> Garberville, California	Maxsea 3-20-20 Bloom Water Soluble Concentrate	Total Nitrogen (N)	8.45%	3%	No
		Available Phosphate (P <sub>2</sub> O <sub>5</sub> )	26.3%	20%	No
		Soluble Potash (K <sub>2</sub> O)	25.1%	20%	No
		Sulfur (S)	3.19%	2%	No
		Boron (B)	0.0213%	0.02%	No
		Copper (Cu)	0.086%	0.05%	No
		Iron (Fe)	0.27%	0.1%	No
		Manganese (Mn)	0.077%	0.05%	No
		Molybdenum (Mo)	0.211%	0.0005%	<b>Yes</b>
Zinc (Zn)	0.0769%	0.05%	Yes		
<b>Keg River Chemical Corp.</b> Edmonton, Alberta	Agtiva Supreme (83% S)	Sulfur (S)	82.9%	83%	No
<b>Kronos Micronutrients, LP</b> Moxee, Washington	Blu-Min 35.5% Zinc- Granular with Sulfur	Zinc (Zn)	36.6%	35.5%	No
<b>Lesco, Inc.</b> Cleveland, Ohio	Granular Iron Plus	Magnesium (Mg)	8.52%	5%	No
		Sulfur (S)	6.89%	7.25%	No
		Copper (Cu)	1.11%	1%	No
		Iron (Fe)	21.4%	20%	No
		Manganese (Mn)	11.6%	8%	No
		Zinc (Zn)	0.286%	2%	<b>Yes</b>
<b>Light Manufacturing Co.</b> Portland, Oregon	Dr. Pursifull's Organic Elixirs Jurassic Acid	Humic Acid	7.74%	10%	<b>Yes</b>
<b>Liquinox Company</b> Orange, California	0-10-10 Bloom	Available Phosphate (P <sub>2</sub> O <sub>5</sub> )	9.72%	10%	No
		Soluble Potash (K <sub>2</sub> O)	10.5%	10%	No
	0-2-0 Start Vitamin B-1 Transplant Solution	Available Phosphate (P <sub>2</sub> O <sub>5</sub> )	2.23%	2%	No
		Iron (Fe)	0.092%	0.1%	No
<b>Midstate Fertilizer</b> Redmond, Oregon	Redman 20.5-0-0-24	Total Nitrogen (N)	20.8%	20.5%	No
		Sulfur (S)	25.4%	24%	No
	Redman 21-7-14 W10% SLO N	Total Nitrogen (N)	19.5%	21%	<b>Yes</b>
		Available Phosphate (P <sub>2</sub> O <sub>5</sub> )	7.91%	7%	No
		Soluble Potash (K <sub>2</sub> O)	14.8%	14%	No
		Sulfur (S)	7.57%	6%	No
		Iron (Fe)	2.85%	2%	No
	Redman 27-12-0-10	Total Nitrogen (N)	26.1%	27%	<b>Yes</b>
		Available Phosphate (P <sub>2</sub> O <sub>5</sub> )	13.2%	12%	No
		Sulfur (S)	10.4%	10%	No
	Redman 33-0-0-12	Total Nitrogen (N)	33.1%	33%	No
		Sulfur (S)	12.1%	12%	No

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Company	Product	Element	Lab Analysis	Label Guarantee	Violation?
<b>Ocean Crest Seafoods, Inc.</b> Gloucester, Massachusetts	Neptune's Harvest 2-4-1 Fish Fertilizer	Total Nitrogen (N)	2.29%	2%	No
		Available Phosphate (P <sub>2</sub> O <sub>5</sub> )	4.7%	4%	No
		Soluble Potash (K <sub>2</sub> O)	0.932%	1%	No
<b>QC Corporation</b> Baltimore, Maryland	SuGrow Granular Iron Sucrate-50% Fe SGN 230	Iron (Fe)	59%	50%	No
<b>Reforestation Technologies International</b> Salinas, California	Xtreme Gardening 12-10-10 All-Purpose Feeder Packs	Total Nitrogen (N)	13.1%	12%	No
		Available Phosphate (P <sub>2</sub> O <sub>5</sub> )	8.52%	10%	Yes
		Soluble Potash (K <sub>2</sub> O)	11.8%	10%	No
<b>Simplot Grower Solutions</b> Halsey, Oregon	11-52-0	Total Nitrogen (N)	11.1%	11%	No
		Available Phosphate (P <sub>2</sub> O <sub>5</sub> )	53.3%	52%	No
<b>Spray-N-Grow, Inc.</b> Rockport, Texas	Spray-N-Grow	Iron (Fe)	0.103%	0.1%	No
		Zinc (Zn)	0.1%	0.05%	No
<b>Transloc Technologies</b> Davis, California	Dutch Master Gold Range 0.6-8-5 Nutrient B Flower Two Part Nutrient	Total Nitrogen (N)	0.564%	1%	No
		Available Phosphate (P <sub>2</sub> O <sub>5</sub> )	7.96%	8%	No
		Soluble Potash (K <sub>2</sub> O)	5.35%	5%	No
		Magnesium (Mg)	0.643%	0.9%	Yes
		Sulfur (S)	1.73%	14%	No
		Boron (B)	0.00786%	0.007%	No
		Copper (Cu)	0.00061%	0.001%	No
		Manganese (Mn)	0.00006%	0.01%	Yes
		Molybdenum (Mo)	0.00168%	0.001%	No
		Zinc (Zn)	0.00008%	0.01%	Yes
		Available Phosphate (P <sub>2</sub> O <sub>5</sub> )	11.1%	3%	No
		Soluble Potash (K <sub>2</sub> O)	7.25%	5%	No
		Magnesium (Mg)	0.609%	0.5%	No
		Sulfur (S)	1.56%	1.2%	No
Boron (B)	0.00656%	0.001%	No		
Molybdenum (Mo)	0.00143%	0.001%	No		
<b>United Suppliers, Inc.</b> Eldora, Iowa	10-50-0 Nurish Proven Ammo-Phos Fertilizer SGN 150	Total Nitrogen (N)	10.8%	10%	No
		Available Phosphate (P <sub>2</sub> O <sub>5</sub> )	50.4%	50%	No
<b>Valudor Products, Inc.</b> Rancho Santa Fe, California	Manganese Sulfate Monohydrate Granular 31.5% Mn	Manganese (Mn)	37.3%	31.5%	No
<b>Wilco-Winfield LLC</b> Mt. Angel, Oregon	0-0-21 K-Mag	Soluble Potash (K <sub>2</sub> O)	21.6%	21%	No
		Magnesium (Mg)	11.5%	10.5%	No
		Sulfur (S)	22.4%	21%	No
11-52-0	Total Nitrogen (N)	11.2%	11%	No	
	Available Phosphate (P <sub>2</sub> O <sub>5</sub> )	51.5%	52%	No	