

# Oregon Department of Agriculture

## Fertilizer Program

### Laboratory Analysis Results

January 1 – June 30, 2009

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	0-15-40 Big Bud	Available Phosphate (P <sub>2</sub> O <sub>5</sub> )	16.7%	15%	No
		Soluble Potash (K <sub>2</sub> O)	40.4%	40%	No
		Magnesium (Mg)	0.0148%	7%	YES
		L-Alanine	0.348%	0.3%	No
		L-Arginine	0.194%	0.8%	YES
		L-Aspartic Acid	0.770%	1.2%	YES
		L-Glutamic Acid	1.23%	0.4%	No
		L-Glycine	0.146%	0.7%	YES
		L-Histidine	0.132%	0.4%	YES
		L-Isoleucine	0.475%	1.1%	YES
		L-Leucine	0.747%	0.9%	YES
		L-Lysine	0.624%	0.2%	No
		L-Phenylalanine	0.239%	0.6%	YES
		L-Proline	0.394%	0.7%	YES
		L-Serine	0.381%	0.4%	No
L-Threonine	0.504%	0.3%	No		
L-Tyrosine	0.209%	1.3%	YES		
L-Valine	.413%	1.1%	YES		

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Company	Product	Element	Lab Analysis	Label Guarantee	Violation?
Aqua-Aid, Inc. Rocky Mount, North Carolina	Verde-Cal G Enhanced Gypsum Coarse	Calcium (Ca)	22.4%	17%	No
		Sulfur (S)	16.3%	14%	No
		Gypsum (CaSO <sub>4</sub> • 2H <sub>2</sub> O)	87.6%	70%	No
		% Passing 100 Mesh Sieve	82.6%	50%	No
		% Passing 40 Mesh Sieve	89.7%	75%	No
		% Passing 20 Mesh Sieve	91.3%	90%	No
		% Passing 10 Mesh Sieve	97%	97%	No
	Verde-Cal Coarse Enhanced Calcitic Limestone	Calcium (Ca)	38.6%	38%	No
		Calcium Carbonate (CaCO <sub>3</sub> )	94.9%	95%	No
		Calcium Carbonate Equivalent (CCE)	94.9%	95%	No
		% Passing 100 Mesh Sieve	10.1%	10%	No
		% Passing 40 Mesh Sieve	96.9%	100%	No
		% Passing 20 Mesh Sieve	97.4%	100%	No
		% Passing 10 Mesh Sieve	99.5%	100%	No
		Lime Score	91.5	80	No
Moisture (Maximum)	1.44%	< 15%	No		
Botanicare Chandler, Arizona	Calplex Organic Based Calcium Supplement	Calcium (Ca)	3%	3%	No
	Huvega Plant Supplement Natural Magnesium Formula	Magnesium (Mg)	1.1%	1%	No
	Humega Plant Supplement Natural and Organic Soil Conditioner	Humic Acid	3.8%	4%	No
	6-0-0 Nitrex Organic Based Nitrogen Supplement	Total Nitrogen (N)	5.8%	6%	No
Dyna-Gro Richmond, California	7-8-6 Liquid Orchid-Pro Plant Food	Total Nitrogen (N)	7.11%	7%	No
		Available Phosphate (P <sub>2</sub> O <sub>5</sub> )	8.62%	8%	No
		Soluble Potash (K <sub>2</sub> O)	5.96%	6%	No
		Calcium (Ca)	2.13%	2%	No
		Magnesium (Mg)	0.643%	0.5%	No
		Boron (B)	0.0246%	0.02%	No
		Chlorine (Cl)	0.247%	0.1%	No
		Copper (Cu)	0.0575%	0.05%	No
		Iron (Fe)	0.117%	0.1%	No
		Manganese (Mn)	0.0446%	0.05%	No
		Molybdenum (Mo)	0.00088%	0.0009%	No
		Sodium (Na)	0.231%	0.1%	No
Zinc (Zn)	0.0555%	0.05%	No		

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Company	Product	Element	Lab Analysis	Label Guarantee	Violation?	
<b>Dyna-Gro</b> Richmond, California	7-9-5 Liquid Grow Plant Food	Total Nitrogen (N)	7.3%	7%	No	
		Available Phosphate (P <sub>2</sub> O <sub>5</sub> )	9.46%	9%	No	
		Soluble Potash (K <sub>2</sub> O)	5.1%	5%	No	
		Calcium (Ca)	1.96%	2%	No	
		Magnesium (Mg)	0.782%	0.5%	No	
		Boron (B)	0.0243%	0.02%	No	
		Chlorine (Cl)	0.202%	0.1%	No	
		Copper (Cu)	0.0502%	0.05%	No	
		Iron (Fe)	0.117%	0.1%	No	
		Manganese (Mn)	0.0444%	0.05%	No	
		Molybdenum (Mo)	0.00095%	0.0009%	No	
		Sodium (Na)	0.174%	0.1%	No	
Zinc (Zn)	0.0521%	0.05%	No			
<b>E. B. Stone &amp; Son, Inc.</b> Suisun, California	0-0-20 Sul Po Mag	Soluble Potash (K <sub>2</sub> O)	21.7%	20%	No	
		Magnesium (Mg)	11.5%	10%	No	
		Sulfur (S)	23.7%	21%	No	
<b>J. R. Simplot Company</b> Lathrop, California	4.5-0-0 N-Boron	Total Nitrogen (N)	6.9%	4.5%	No	
		Boron (B)	5.8%	5.4%	No	
<b>Round Butte Seed Growers, Inc.</b> Culver, Oregon	Super Grow Lower Valley Turf 21-7-14-4(S) 1.5% (Fe) 80% Slow Release N	Total Nitrogen (N)	21%	21%	No	
		Available Phosphate (P <sub>2</sub> O <sub>5</sub> )	9.57%	7%	No	
		Soluble Potash (K <sub>2</sub> O)	14.6%	14%	No	
		Sulfur (S)	5.87%	4%	No	
		Iron (Fe)	2.43%	1.5%	No	
<b>Simplot Grower Solutions</b> Halsey, Oregon	0-0-62	Soluble Potash (K <sub>2</sub> O)	61.9%	62%	No	
	11-52-0	Total Nitrogen (N)	10.8%	11%	No	
		Available Phosphate (P <sub>2</sub> O <sub>5</sub> )	52.3%	52%	No	
		Sulfur (S)	1.57%	2%	YES	
	16-20-0	Total Nitrogen (N)	15.8%	16%	No	
		Available Phosphate (P <sub>2</sub> O <sub>5</sub> )	21.3%	20%	No	
		Sulfur (S)	14.6%	13%	No	
	20-0-0-24(S)	Total Nitrogen (N)	19.9%	20%	No	
		Sulfur (S)	24%	24%	No	
		Zinc (Zn)	1.16%	0.9%	No	
	<b>Terra Nitrogen Corporation</b> Sioux City, Iowa	32-0-0 Terra Nitrogen Solution	Total Nitrogen (N)	31.12%	32%	No
	<b>Wilco-Winfield LLC</b> Mt. Angel, Oregon	35-0-15	Total Nitrogen (N)	34.2%	35%	No
Soluble Potash (K <sub>2</sub> O)			14.6%	15%	No	
11-52-0		Total Nitrogen (N)	11.5%	11%	No	
		Available Phosphate (P <sub>2</sub> O <sub>5</sub> )	52.1%	52%	No	
40-0-0-6		Total Nitrogen (N)	39.6%	40%	No	
		Sulfur (S)	5.98%	6%	No	