

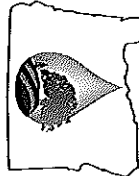
# Soil and Water Testing Labs

This guide lists a variety of laboratories serving Oregon, and provides specific information about laboratory services. Before submitting material to a lab, pay attention to the following guidelines:

- **Be sure the test you request is the right one to answer your question.** Nutrients aren't the only factor for successful crop production, so a soil test may not tell you why your plants don't grow. Ask a county Extension agent or other agriculture professional which tests you may need.
- **Before sending samples, call the lab to inquire about costs and shipping instructions.** For example, soil samples to be tested for nitrate-nitrogen should be refrigerated or dried rather than sent moist at room temperature.
- **Beware of low prices.** Laboratory procedures cost money to perform. A lab quoting a low price usually analyzes a few elements and estimates the others. You do not want estimates—make sure you obtain results from analytical work.

For more information please contact:  
**OSU Extension Service— Polk County**  
 289 E Ellendale, Suite 301  
 Dallas, OR 97338  
 503-623-8395  
<http://extension.oregonstate.edu/polk/>

This pamphlet contains information produced by Oregon State University, John Hart, Melissa Fery and Elizabeth Murphy. Condensed and reproduced courtesy of:



Polk SWCD  
 580 Main Street, Suite A  
 Dallas, OR 97338  
 503-623-9680  
[www.polkswcd.com](http://www.polkswcd.com)

Soil and Water Testing Laboratories in Oregon	Soil			Water		
	Agriculture	Heavy Metals	Pesticides, Chemicals	Biological	Pesticides	Nitrate
<b>Edge Analytical Laboratory, Inc.</b> 540 SW Third, Corvallis, OR 97333 541-753-4946 • <a href="mailto:smiller@edgeanalytical.com">smiller@edgeanalytical.com</a>				X	X	X
<b>Specialty Analytical</b> 19761 SW 95th Ave., Tualatin, OR 97062 503-607-1331 • <a href="mailto:marty@specialtyanalytical.com">marty@specialtyanalytical.com</a> <a href="http://www.specialtyanalytical.com">www.specialtyanalytical.com</a>		X	X	X	X	X
<b>Test America (testing done offsite)</b> 9405 SW Nimbus Ave., Beaverton, OR 97008 503-906-9200 <a href="http://www.testamericainc.com">www.testamericainc.com</a>	X	X	X	X	X	X
<b>Umpqua Research Company</b> P.O. Box 609, Myrtle Creek, OR 97457 541-863-5201 <a href="mailto:ab@urcmail.net">ab@urcmail.net</a> <a href="http://www.chemlab.cc">www.chemlab.cc</a>		X	X	X	X	X
<b>Waterlab Corp.</b> 2603 12th St. SE Salem, OR 97302 503-363-0473 <a href="mailto:waterlab@comcast.net">waterlab@comcast.net</a> <a href="http://waterlabcorp.com">waterlabcorp.com</a>				X		X

Labs wishing to be added to this list may contact:  
 Department of Crop and Soil Science  
 Ag & Life Sciences Building 3017  
 Oregon State University Corvallis, OR  
 97331-7306 (541) 737-5712

For a list of laboratories approved by the Oregon Health Division for drinking water analysis, contact: **Oregon Health Division, Drinking Water Systems, P.O. Box 14450, Portland, OR 97214-0450, or call 503-731-4010 or 503-731-4009.**

Lab Information provided by John Hart,  
 OSU extension soil scientist specialist, retired.  
 Revised June 2006 & May 2008

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 More info is available on the OSU Extension Service website ([extension.oregonstate.edu/catalog](http://extension.oregonstate.edu/catalog))  
 Search the catalog by the series number, EM 8677.

Contact information in this brochure updated Aug. 2015 by Polk Soil and Water Conservation District.

Soil and Water Testing Laboratories in Oregon	Soil			Water			Other			
	Agriculture	Heavy Metals	Pesticides, Chemicals	Biological	Pesticides	Nitrate	Plant Tissue	Feed	Fertilizer Recommend	Consulting
<b>AgSource</b> P.O. Box 1350, Umatilla, OR 97882 541-922-4894 or 800-537-1129 Umatilla@agsource.com	X						X	X	X	X
<b>Alexin Analytical Laboratories</b> 13035 SW Pacific Hwy., Portland, OR 97223 503-639-9311 FAX 503-684-1588 mail@alexinlabs.com www.alexinlabs.com		X		X		X				X
<b>Analytical Laboratory Group</b> 361 W Fifth Ave., Eugene, OR 97401 541-485-8404 or 800-262-5973 Alglabs@alglabsinc.com		X		X		X				X
<b>Exova</b> 12003 NE Ainsworth Circle, Portland, OR 97220 503-253-9136 or 800-375-9555 Brian.parmenter@exova.com www.exova.com		X	X					X		X
<b>Pacific Agricultural Laboratory</b> 12505 NW Cornell Rd., Portland, OR 97229 503-626-7943 sthun@pacaglab.com www.pacaglab.com			X		X		X			
<b>OMIC USA, Inc.</b> 3344 NW Industrial St., Portland, OR 97210 503-223-1497 abmgr@omicusa.com www.omicnet.com	X	X	X	X	X		X	X		
<b>Oregon State University Central Analytical Laboratory</b> Ag & Life Sciences Bldg., Room 3079 Corvallis, OR 97331-7306 541-737-2187 FAX 541-737-5725							X		X	

#### Why should I collect a soil sample?

- Establish baseline soil nutrient status for new landowners.
- Measure change in soil nutrient status over time.
- Document soil nutrient management for certification requirements.
- Determine nutrient application recommendations prior to planting.
- Assess pH and the need for liming.
- Avoid excessive nutrient applications or soluble salt accumulation.
- Develop a plan for possible variable-rate fertilizing within a field.

#### When should I collect my soil sample?

- For perennial crops such as orchards, tree plantations, alfalfa, grass seed, and permanent pasture, the most important time to have the soil analyzed is before planting, so that necessary nutrients can be mixed into the soil.
- For Christmas trees, established fruit and nut trees, berries, and grapes, use annual foliar tissue analysis instead of soil testing. Soil samples are recommended every 3 to 5 years or when the tissue analyses indicate a need.

#### Where should I collect a soil sample?

The area in which to collect a soil sample may depend on the soil type, crops grown, management history, or all of these.

#### How do I collect my soil sample?

Sample where the crop will be planted. If you are using raised beds take your samples in the beds, not in the areas between them.

#### Avoid unusual areas.

Avoid sampling in small areas where you know that conditions are different from the rest of the field.

#### Take 15 to 20 subsamples.

Avoid contaminating the sample. Use clean sampling tools and avoid contaminating the sample during mixing or packaging. A small amount of fertilizer residue on tools or hands, for instance, can cause serious contamination of the soil sample. Do not include mulch or vegetation in the sample. Do not use galvanized metal, brass, or bronze tools to collect samples that will be tested for micronutrients (such as zinc).

#### Take the soil sample to the correct depth.

Sample the part of the soil where the plant roots will grow. For most annual and perennial crops, sample from the surface down to about 6 to 8 inches or to the depth of tillage.

#### Carefully mix the soil sample.

Place all of the soil subsamples from a single sampling area in a clean container and mix thoroughly. Do not worry about breaking the sample up into tiny particles. Labs have soil grinders to further mix the sample.

Excerpts from "A Guide to Collection Soil Samples for Farms and Gardens", M. Fery and E. Murphy © 2013 Oregon State University. Revised July 2002 and September 2013. More info is available on the OSU Extension Service website ([extension.oregonstate.edu/catalog/](http://extension.oregonstate.edu/catalog/)) Search within the catalog Series # EC 628.



**Portland Lab**  
 9150 SW Pioneer Court, Suite W  
 Wilsonville, OR 97070  
 (503) 682-7802

**Coryvallis Lab**  
 540 SW 3rd Street  
 Coryvallis, OR 97333  
 (541) 753-4946

**Bend Lab**  
 20332 Empire Ave, Suite F4  
 Bend, OR 97703  
 (541) 639-8425

## Price Schedule

The tests listed here represent the most common tests that we perform. We recognize that you may need additional analyses that we do perform, but are not listed here. In such cases, please call with your request.

### Water Testing

Price Per Sample

<p><b>Arsenic</b></p> <p>This element occurs naturally in soil and rock and is a known carcinogen. It is found in our area. Its distribution is variable; therefore no conclusions can be made about your well based upon the arsenic levels of neighboring wells.</p>	<p><b>\$28.00</b></p> <p>5 Day Turnaround \$42.00</p>
<p><b>Coliform/E. coli (presence or absence)</b></p> <p>This is the most basic test to determine if water is safe to drink. Coliform bacteria may indicate surface water contamination. <i>E. coli</i> comes from the intestines of warm blooded animals and its presence indicates fecal contamination. Gastrointestinal issues are common symptoms from ingesting water contaminated with coliform/<i>E. coli</i> bacteria. Bacterial count is available for \$42.00.</p>	<p><b>\$33.00</b></p>
<p><b>Iron-Related or Sulfate-Reducing Bacteria (BART test)</b></p> <p>This test is a semi-quantitative test that allows determination of the presence and aggressiveness of certain bacteria in samples. Iron-related bacteria can cause taste and odor problems and "red water". Sulfate-reducing bacteria cause a "rotten-egg" smell and can cause fouling of pipes.</p>	<p><b>\$34.00</b></p> <p>each</p>
<p><b>Hardness</b></p> <p>A measure of calcium and magnesium (and other minerals) present. High levels of these minerals cause water to be "hard," causing scaling on fixtures and soap to not lather well.</p>	<p><b>\$28.00</b></p>
<p><b>Iron</b></p> <p>Iron is mainly an aesthetic issue and a health issue for very few people. It can cause rust colored staining of fixtures and laundry.</p>	<p><b>\$28.00</b></p> <p>5 Day Turnaround \$42.00</p>
<p><b>Lead</b></p> <p>Lead rarely occurs in ground or surface water, but rather comes from pipes, fixtures or solder. Its use was banned in 1986. Any homes with plumbing pre-1986 or near this year should test for lead from a faucet they commonly drink and cook from. Continued exposure to lead can cause damage to the brain, kidneys and red blood cells. This is especially an issue for children.</p>	<p><b>\$28.00</b></p> <p>5 Day Turnaround \$42.00</p>
<p><b>Nitrate</b></p> <p>This compound decreases the oxygen carrying capacity of red blood cells in fetuses and infants, preventing oxygen from getting to the brain and other organs. It may also be a health issue for adults. Sources include fertilizers, livestock waste, and septic tank runoff.</p>	<p><b>\$45.00</b></p>

### Environmental Testing

<p><b>Soil – Basic analysis</b></p> <p>Organic matter, estimated nitrogen release, phosphorus, extractable cations (potassium, magnesium, calcium, sodium), hydrogen, sulfate-S, cation exchange capacity, percent cation saturation, and residual nitrogen as nitrate</p>	<p><b>\$38.00</b></p>
<p><b>Soil – Complete analysis</b></p> <p>Basic analysis plus soluble salts, excess lime, zinc, manganese, iron, copper and boron</p>	<p><b>\$67.00</b></p>
<p><b>Lead – Paint or solids</b></p> <p>Lead paint was used frequently in homes built before 1978. Lead is linked to nervous system damage in young children. One tablespoon or 6 square inches needed.</p>	<p><b>\$36.00</b></p>
<p><b>Asbestos (in solid material)</b></p> <p>1" square or 1 tablespoon of material needed</p>	<p><b>\$41.00</b></p>



## Water Testing Packages

Price Per Sample

<p><b>Water Treatment Package</b>          Coliform/<i>E.coli</i> (P/A), Silica, pH, Alkalinity, Total Dissolved Solids, Manganese, Hardness, Iron, Nitrate, Sodium, Arsenic, Sulfate, Chloride, <i>Electrical Conductivity, Zinc, Fluoride, Lead, Copper</i></p>	<p><del>\$145.00</del>          150<sup>00</sup></p>
<p><b>Nuisance Package</b>          pH, Iron, Hardness, Manganese</p>	<p>\$56.00</p>
<p><b>Irrigation Water Package</b>          Alkalinity, Boron, Calcium, Electrical Conductivity, Hardness, Iron, Magnesium, Nitrate, pH, Potassium, Sodium, Sodium Adsorption Ratio, Total Dissolved Solids</p>	<p>\$173.00</p>
<p><b>Winery LIVE Annual Testing</b>          Chloride, Nitrate, Sodium, Arsenic, Cadmium, Copper, Lead, Mercury, Nickel, Selenium, Zinc</p>	<p>\$124.00</p>
<p><b>Winery LIVE 5 YR. Testing</b>          Sodium, Calcium, Copper, Electrical Conductivity, Boron, Magnesium, Total Dissolved Solids, pH, Ortho-phosphate, Adjusted Sodium Adsorption Ratio, Potassium, Nitrate, Bicarbonate, Carbonate, Chloride, Sulfate</p>	<p>\$151.00</p>
<p><b>Peace of Mind Package</b>          A full spectrum test that covers 87 analytes. Oregon certified analyses for Coliform and <i>E.coli</i>, Nitrate, and Arsenic are included in this package. The remainders of the results are not certified in Oregon and may not be used for regulatory compliance.</p> <p><b>Bacteria:</b> Coliform &amp; <i>E. coli</i> bacteria</p> <p><b>Metals:</b> Aluminum, Arsenic, Barium, Cadmium, Calcium, Chromium, Copper*, Iron, Lead*, Magnesium, Manganese, Mercury, Nickel, Selenium, Silver, Sodium, Strontium, Uranium, Zinc</p> <p><b>Inorganic chemicals and other physical factors:</b> Alkalinity, Bromide, Chloride, Fluoride, Nitrate, Nitrite, Potassium, Silica, Ortho-phosphate, Sulfate, Hardness, pH, Total Dissolved Solids, Turbidity</p> <p><b>Organic chemicals - volatiles:</b> Acetone, Benzene, Vinyl Chloride, Carbon Tetrachloride, 1,2-Dichloroethane, Trichloroethene (TCF), 1,4-Dichlorobenzene, 1,1-Dichloroethene, 1,1,1-Trichloroethane, Bromobenzene, Bromomethane, Chlorobenzene, Chloroethane, Chloromethane, 2-Chlorotoluene, 4-Chlorotoluene, Dibromochloropropane, Dibromomethane, 1,2-Dichlorobenzene, 1,3-Dichlorobenzene, Dichlorodifluoromethane, 1,1-Dichloroethane, trans-1,2-Dichloroethene, cis-1,2-Dichloroethene, Dichloromethane, 1,2-Dichloropropane, Trans-1,3-Dichloropropene, cis-1,3-Dichloropropene, 2,2-Dichloropropane, 1,1-Dichloropropene, 1,3-Dichloropropane, Ethylbenzene, Ethylenedibromide, Styrene, 1,1,1,2-Tetrachloroethane, 1,1,2,2-Tetrachloroethane, Tetrachloroethene, 1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene, 1,1,2-Trichloroethane, Trichlorofluoromethane, 1,2,3-Trichloropropane, Toluene, Xylene, Methyl Ethyl Ketone, Methyl-Tert-Butyl-Ether and Tetrahydrofuran</p> <p><b>Organic chemicals - trihalomethanes (THM):</b> Bromoform, Bromodichloromethane, Chloroform, Dibromochloromethane</p> <p><b>Optional: Organic chemicals - pesticides, herbicides and PCBs:</b> Atrachlor, Atrazine, Chlordane, Aldrin, Dieldrin, Dieldrin, Endrin, Heptachlor, Heptachlor Epoxide, Hexachlorobenzene, Hexachlorocyclopentadiene, Lindane, Methoxychlor, Polychlorinated Biphenyls (PCBs), Pentachloronitrobenzene, Silvex (2,4,5-TP), Simazine, Toxaphene, Trifluralin, 2,4-D</p> <p><b>Optional: First draw lead and copper test</b>          *Please note that lead and copper results from the Peace of Mind analysis reports are indicative of well water only. A first draw lead and copper test is a better method of analyzing lead and copper contributed to the drinking water from the pipes.</p>	<p>\$240.00</p> <p>Add \$60.00</p> <p>Add \$30.00</p>