

Comparison of Soil Test Labs

1/30/2024 Update

General Information

- ASSUME PAYMENT MUST BE INCLUDED WITH SAMPLES.
- Organic matter (OM) is an important soil property to track, but it is not offered in some basic packages. Producers are advised to request OM even if they choose a lab that charges an additional fee for the information.
- Soil texture analysis is not offered by many labs in their basic packages. If labs do offer the analysis for a separate fee, it is often very expensive. Soil texture of the dominant map unit in a field can be obtained from Web Soil Survey.
- Soil sampling depth should be 8 inches.
- There is no need to request recommendations from the soil test labs.
- Most labs have order forms and price lists on their website.
- A new soil characteristic called the **Degree of Phosphorus Saturation** or **DPS** will be required on fields where phosphorus-bearing nutrient sources are intended and soil test phosphorus is equal to, or greater than, 150 FIV. Some labs already provide DPS as part of their basic packages while others do not. Consult the right column of the table below for information on acquiring DPS or the necessary information for calculating it.

Lab	Cost	Analyses	Comments	Degree P Saturation (DPS) or Al and Fe reported?
Waypoint Analytical Virginia, Inc. 7621 Whitepine Road Richmond, VA 23237 Phone: 804-743-9401 www.waypointanalytical.com	\$10.00 (Mehlich-3) \$1.50 for Al and \$1.25 for Fe	<u>S1M Package</u> OM, P, K, Ca, Mg, pH, buffer pH, CEC, % base saturation of cations <u>Al & Fe</u> - required for high P soils to determine DPS for UM-PMT	Several micronutrient combinations are also available. Contact Waypoint for more information.	Al and Fe can be requested for an additional \$4.00 per soil sample. <i>NuMan Pro 4.2 (and later)</i> can calculate DPS when soil test includes Mehlich-3 Fe & Al.
Waypoint Analytical Pennsylvania, Inc. 280 Newport Road Leola, PA 17540 Phone: 717-656-9326 www.waypointanalytical.com	\$10.00 (Mehlich-3) \$6.00 for Al and \$2.50 for Fe \$1.00	<u>S1M Package</u> P, K, Ca, Mg, pH, buffer pH, CEC, % base saturation of cations <u>Al & Fe</u> - required for high P soils to determine DPS for UM-PMT <u>OM</u>	Several micronutrient combinations are also available. Contact Waypoint for more information.	OM is not included in standard test package. If desired, OM must be requested for an additional \$1.00/sample. <i>NuMan Pro 4.2 (and later)</i> can calculate DPS when soil test includes Mehlich-3 Fe & Al.

Lab	Cost	Analyses	Comments	Degree P Saturation (DPS) or Al and Fe reported?
AgroLab, Inc. 101 Clukey Dr. Harrington, DE 19952 Phone: 302-566-6094 www.agrolab.us	\$19.80	<u>Complete Soil Fertility (CSF) (S3/S102):</u> Soil pH (1:1), Buffer pH, % OM, P, K, Ca, Mg, Phosphorus Saturation Ratio, CEC/sum of the cations (meq/100g), Cation base saturations. SO4-S, Mn, Zn, B. Cu, Fe, Na, Al, Soluble Salts (mmho/cm), NO3-N.	The Basic Soil Fertility (BSF) Analysis is no longer available for farmland/food plot/pastures. The Complete Soil Fertility (CSF) Analysis is run instead.	Yes. Phosphorus Saturation Ratio is the same as DPS and is part of their standard soil test.
Brookside Laboratories, Inc. 200 White Mountain Drive New Bremen, OH 45869 Phone: 419-977-2766 www.blinc.com	Price determined by consultant	<u>SOO1</u> pH, OM, Mehlich-3 P, Mn, Zn, B, Cu, Fe, Al, CEC, percent base saturation of cations, S, Bray II P	Brookside does not provide recs. Consultants develop the recs. Brookside prefers to receive samples from their consultants only.	Al and Fe are routinely reported for option SOO1. Always enter Mehlich-3 P in <i>NuMan Pro</i> . <i>NuMan Pro 4.2 (and later)</i> can calculate DPS from this information.
Pennsylvania Agricultural Analytical Services Lab Penn State University 111 Ag Analytical Svcs Lab University Park, PA 16802 Phone: 814-863-0841 http://aasl.psu.edu	\$10.00 \$5.00 \$7.00 for Al and \$7.00 for Fe	<u>Standard Soil Test</u> pH, Mehlich lime requirement, P, K, Ca, Mg, Zn, Cu, S <u>OM</u> <u>Al & Fe</u> - required for high P soils to determine DPS for UM-PMT	See website for more analyses.	Al and Fe can be requested for an additional \$7 per sample. <i>NuMan Pro 4.2 (and later)</i> can calculate DPS when soil test includes Mehlich-3 Fe & Al.
Spectrum Analytic, Inc. PO Box 639 1087 Jamison Road NW Washington Court House, OH 43160 Phone: 800-321-1562 www.spectrumanalytic.com	\$10.00 \$3.00 for Fe Al is free if requested	<u>S1</u> pH, buffer pH, OM, P, K, Ca, Mg, CEC, percent base saturation of cations <u>Al & Fe</u> - required for high P soils to determine DPS for UM-PMT	See website for more analyses, including additional micronutrients.	Aluminum will be reported for free if requested. Iron (Fe) can be tested in addition to S1 for an additional \$3.00. <i>NuMan Pro 4.2 (and later)</i> can calculate DPS when soil test includes Mehlich-3 Fe & Al.
University of Delaware Soil Testing Program 152 Townsend Hall 531 S. College Avenue Newark, DE 19717-1303 Phone: 302-831-1392 https://www.udel.edu/canr/cooperative-extension/environmental-stewardship/soil-testing/	\$14.00	<u>B1-Commercial Agriculture Soil</u> pH, lime requirement, OM, P, K, Ca, Mg, Mn, Zn, Cu, Fe, S, B, Al, Phosphorus Saturation Ratio.		Phosphorus saturation ratio is the same as DPS and is included in B1 Routine Analysis

Waters Agricultural Laboratories, Inc. PO Box 382 257 Newton Highway Camilla, GA 31730-7216 Ph: 229-336-7216 www.watersag.com	\$8.00 (Mehlich-3)	<u>Basic Test 2 (B2)</u> pH, buffer pH, P, K, Ca, Mg, CEC, % base saturation of cations	MD samples can now be sent to Georgia, Kentucky or N. Carolina locations, as all now run Mehlich-3. Kentucky Address: 2101 Calhoun Rd Highway 81 Owensboro, KY 31730 North Carolina Address: 364 W. Park Drive Warsaw, NC 28398	Fe and Al must be requested for high P soils. Select R1 test (including Fe) and add Al for \$0.50 extra. For the KY and GA locations, specify <u>Mehlich 3</u> on the soil submission form. OM is not standard at the Georgia location. To include OM, check the appropriate box (or specify) on the soil submission form and it will be included for \$1.00 extra.
	\$9.00 (Mehlich-3)	<u>Routine Test 1 (R1)</u> Same as B2 PLUS ANY TWO: B, Zn, Mn, Fe, or Cu.		
	\$1.00	<u>OM</u> (extra charge at GA location only)		
	\$0.50	<u>Al</u> - Al and Fe are required for high P soils to determine DPS for UM-PMT		