804 Hwy 15 W
PO Box 510
Northwood, ND 58267
(701) 587-6010
northwoodlab@agvise.com

902 13th St N
PO Box 187
Benson, MN 56215
(320) 843-4109
bensonlab@agvise.com

Soil Health Submission Form

Grower Information

Name _____
Address _____
_____
City _____
State _____
Zip _____

Submitter Information

Account # _____
Name _____
Address _____
_____
City _____
State _____
Zip _____

Field Information

Field ID _____
Sample ID _____
County _____
Twn/Range _____
Section _____
Quarter _____
Acres _____

Soil Depth _____
Crop _____

For office use only
Soil Sample A: Biochemical and Physical

For office use only
Soil Sample B: Soil Aggregate Stability

Ship all soil health samples to the Northwood, ND laboratory.
Option SH216 requires two (2) soil samples: A and B. See instructions on back page.

Soil Health Analysis	**Price**
☐ Option SH216: meets USDA-NRCS CEMA 216, requires soil sample A and B (see instructions on back page); includes water-stable aggregate (WSA), WSA sand correction, total organic C, POXC, 24-h CO2 respiration, ACE protein, soil pH, soil texture	$240.00
Soil Sample A: Physical and Biochemical Analysis	
☐ 24-hour CO_2 respiration (Solvita)	$34.50
☐ 4-day CO_2 respiration	$45.00
☐ Permanganate-oxidizable carbon (POXC)	$23.90
☐ Autoclave citrate extractable (ACE) protein	$36.50
☐ Total organic carbon (total carbon minus inorganic carbon)	$23.65
☐ Total carbon:nitrogen ratio; includes total organic C, total N	$31.15
☐ Water-extractable organic carbon (WEOC) and organic nitrogen (WEON); includes water-extractable ammonium-N and nitrate-N	$41.05
☐ Soil pH (1:1 water)	$5.85
☐ Soil organic matter (loss on ignition)	$4.75
☐ Soil texture (sand, silt, clay, USDA class)	$27.25
☐ Available water capacity (water holding capacity at 1/3 bar, 15 bar)	$53.00
Soil Sample B: Soil Aggregate Stability	
☐ Soil aggregate stability (water-stable aggregation: 2000 µm, 250 µm, 53 µm sieves)	$63.50
☐ Soil aggregate stability sand correction (>53 µm)	$24.85

All prices in U.S. Dollars (USD). Effective April 1, 2026. Subject to change without notice.

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Soil Health Assessment
Soil Sampling Instructions

IMPORTANT: Ship all soil health samples to the Northwood, ND laboratory. Option SH216 requires two (2) soil samples: A and B. Soil Sample A can also be used for routine soil fertility analysis and other analyses. Soil Sample B for soil aggregate stability analysis requires special handling. Follow these instructions and CALL AGVISE if you have any question on the submission instructions.

Soil health assessment includes more than traditional soil fertility analysis. Soil health encompasses physical, chemical, and biological soil properties, which all come together to provide a healthy, living soil for optimal plant growth. Traditional soil fertility analysis, supported with university research, is still the approved practice for assessing plant nutrient requirements and determining fertilizer rates. Yet, soil health assessment can complement your knowledge and practices to improve soil management. Following the proper soil sampling protocol will help you achieve the most accurate laboratory analysis results. Since soil health assessment should track improvements in soil quality over time, ensure all soil sampling locations are GPS recorded. You will want to make accurate comparisons for future years.

Soil Sample A: Biochemical and Physical Analysis (can also include soil fertility analysis)

1. Take soil samples from 15 to 20 locations across the field or management zone. Record locations with GPS.
2. Collect soil cores with hand soil probe or hydraulic soil probe.
3. Thoroughly mix soil cores in plastic container. Place representative subsample in soil sample bag.
4. Write all necessary sample information on soil sample bag with permanent marker.

Soil Sample B: Soil Aggregate Stability – Special Handling Instructions

1. Take soil samples from 3 to 5 locations across the field or management zone. Record locations with GPS.
2. Collect soil slice with clean spade or bulb planter. Do not use standard soil probe as it can crush soil aggregates.
3. Gently place soil slice into 1-quart plastic recloseable bag (e.g. Ziploc bag). Do not mix or break apart soil sample. Leave soil aggregates intact.
4. Write all necessary sample information on soil sample bag with permanent marker. Also—write **"SOIL AGGREGATE STABILITY SAMPLE"** boldly and clearly on the soil bag so we can clearly see it.

Soil slice for soil aggregate stability taken with tiling spade, trimmed down to 1-inch thick slice. Soil sample depth is 0-6 inch.

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