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Soil Health Submission Form – FOR <u>GROWER USE</u> ONLY

Grower Information		Submitter Information		
		A	ccount #	
Name		N	ame	
Address		A	ddress	
City		Ci	ity	
State		St	ate	
Zip		Zip		
Field Informa	tion	I		
Field ID			Soil Depth	
Sample ID			Crop	
County				
Twn/Range			Soil Sar	For office use only
Section				
Quarter				For office use only
Acres			Soil Sample 2: Soil Aggregate Stability	

Please contact AGVISE to learn which soil health test options may be required for programs.

Soil Health Analysis (mark desired tests)			
Soil Sa	ample 1: Physical and Biochemical Analysis		
	24-hour CO ₂ respiration (Solvita)	\$31.15	
	4-day CO ₂ respiration	\$40.05	
	Active carbon (POXC, permanganate-oxidizable carbon)	\$22.55	
	Total organic carbon (total carbon minus inorganic carbon)	\$22.15	
	Soil organic matter (loss-on-ignition)	\$ 4.45	
	Bioavailable nitrogen (ACE protein, autoclave citrate extractable protein)	\$34.05	
	Total nitrogen	\$14.15	
	Soil texture (sand, silt, clay, USDA class)	\$26.50	
	Available water capacity (water holding capacity: 1/3 bar, 15 bar)	\$48.30	
Soil Sa	ample 2: Soil Aggregate Stability		
	Soil aggregate stability (water-stable aggregation: 2000 µm, 250 µm, 53 µm sieves)	\$62.10	
	Soil aggregate stability sand correction (>53 µm)	\$23.45	

DO NOT PLACE PAPER FORM INSIDE DAMP SOIL SAMPLE BAG

Pricing effective April 1, 2024; supersedes previous versions.



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Soil Health Assessment Soil Sampling 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 long-term university research, is still the approved practice for 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 in future years.

Soil Sample 1: Physical and Biochemical analysis

- 1. Record location with GPS. Take soil samples from 15 to 20 locations across the field or management zone.
- 2. Collect soil core with hand soil probe or hydraulic soil probe.
 - a. For conventional tillage: 0-6 inch soil depth
 - b. For reduced/no-till: 0-3 or 0-4 inch soil depth
- 3. Thoroughly mix soil cores in plastic container.
- 4. Place subsample in soil sample bag.
- 5. Write sample information on soil sample bag with permanent marker.

Soil Sample 2: Soil Aggregate Stability

- 1. Record location with GPS. Take soil samples from 3 to 5 locations across the field or management zone.
- 2. Collect soil slice with clean spade or bulb planter. Do not use standard soil probe.
 - a. For conventional tillage: 0-6 inch soil depth
 - b. For reduced/no-till: 0-3 or 0-4 inch soil depth
- 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. DO NOT dry, grind, or sieve the soil aggregate stability sample.
- 5. Write sample information on soil sample bag with permanent marker.



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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