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Soil Health Assessment 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 1: Biochemical analysis
For office use only Soil Sample 2: Physical analysis

Soil Health Analysis (check desired tests)

Price

Soil Sample 1: Biochemical analysis

- | | | |
|--------------------------|--|---------|
| <input type="checkbox"/> | 24-hour CO ₂ respiration (Solvita) | \$28.00 |
| <input type="checkbox"/> | Active carbon (POXC, permanganate-oxidizable carbon) | \$20.00 |
| <input type="checkbox"/> | Total organic carbon (total carbon minus inorganic carbon) | \$15.85 |
| <input type="checkbox"/> | Soil organic matter (loss-on-ignition) | \$ 3.90 |
| <input type="checkbox"/> | Bioavailable nitrogen (ACE protein, autoclave citrate extractable protein) | \$31.00 |

Soil Sample 2: Physical analysis

- | | | |
|--------------------------|--|---------|
| <input type="checkbox"/> | Soil texture (sand, silt, clay, USDA class) | \$23.30 |
| <input type="checkbox"/> | Available water capacity (water holding capacity: 1/3 bar, 15 bar) | \$42.60 |
| <input type="checkbox"/> | Soil aggregate stability (water-stable aggregate: 2000 µm, 250 µm, 53 µm sieves) | \$55.00 |
| <input type="checkbox"/> | Soil aggregate stability sand correction add-on (>53 µm) | \$20.80 |

*****DO NOT PLACE PAPER FORM INSIDE DAMP SOIL SAMPLE BAG*****



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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: 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: Physical analysis

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-gallon 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 tilling spade, trimmed down to 1-inch thick slice. Soil sample depth is 0-6 inch.