

## Cropland In-Field Soil Health Assessment Worksheet

<p>Soil Health Resource Concerns</p> <p>CPT: Compaction</p> <p>SOM: Soil Organic Matter Depletion</p> <p>AGG: Aggregate Instability</p> <p>HAB: Soil Organism Habitat Loss or Degradation</p>	<p>Indicator Timing and Use</p> <p>Anytime    After Rain or Irrigation    With Adequate Moisture    Before a Tillage Event  </p> <p>Primarily No-Till Systems    Before Growing Season    During Growing Season    Interview </p>	<p>Meets Assessment Criteria (Yes/No)</p>
<p>Location</p>	<p><b>Soil Cover</b>    <b>SOM, AGG, HAB</b></p> <ul style="list-style-type: none"> <li>Surface cover from plants, residue or mulch; cover greater than 75% (estimated)</li> </ul> <p><b>Residue Breakdown</b>       <b>SOM, HAB</b></p> <ul style="list-style-type: none"> <li>Natural decomposition of crop residues or organic mulch is as expected with crop and conditions</li> </ul> <p><b>Surface Crusts</b>      <b>AGG, HAB</b></p> <ul style="list-style-type: none"> <li>Crusting on no more than 5% (estimated) of the field/CMU</li> </ul>	<p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p>
<p>Field/CMU</p>	<p><b>Ponding/Infiltration</b>       <b>CPT, AGG</b></p> <ul style="list-style-type: none"> <li>No ponding on non-hydric soils within 24 hours following typical rainfall or surface irrigation event;</li> <li>OR, no infiltration difference between assessment area and fencerow sample in the same soil type;</li> <li>OR, soil infiltrates 1-inch of water in 30 minutes or less</li> </ul> <p><b>Penetration Resistance</b>      <b>CPT</b></p> <ul style="list-style-type: none"> <li>Penetrometer rating &lt;150 psi within top 6-inch depth and &lt;300 psi in the 6 to 18-inch depth;</li> <li>OR, slight or no resistance with wire flag inserted to 12-inches</li> </ul> <p><b>Water-Stable Aggregates</b>    <b>CPT, SOM, AGG, HAB</b></p> <ul style="list-style-type: none"> <li>Strainer: soil structure remains intact with aggregates apparent;</li> <li>OR, Soil Quality Test Kit (SOTKY)Jomada slake box meets stability class 5 to 6;</li> <li>OR, Cylinder: At least 80% (estimated) remains intact after 5 minutes with little cloudy water</li> </ul>	<p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p>
<p>Tract #</p>	<p><b>Soil Structure</b>    <b>CPT, SOM, AGG, HAB</b></p> <ul style="list-style-type: none"> <li>Granular surface soil structure and no platy or massive structure in top foot of soil</li> </ul> <p><b>Soil Color</b>    <b>SOM</b></p> <ul style="list-style-type: none"> <li>No color difference between assessment area and fencerow sample in same soil type;</li> <li>OR, value is on the darker range using color chart and official series description</li> </ul> <p><b>Plant Roots</b>    <b>CPT, SOM, AGG, HAB</b></p> <ul style="list-style-type: none"> <li>Roots covered in a soil film (rhizosheaths) or are part of soil aggregates;</li> <li>OR, living roots if present are healthy, fully branched, extended and unrestricted</li> </ul> <p><b>Biological Diversity</b>      <b>SOM, AGG, HAB</b></p> <ul style="list-style-type: none"> <li>Evidence of more than 3 different types of organisms observed or biological hotspots present</li> </ul> <p><b>Biopores</b>     <b>SOM, AGG, HAB</b></p> <ul style="list-style-type: none"> <li>Presence of multiple intact root or earthworm channels that extend vertically through the soil with some connecting to the surface</li> </ul>	<p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p> <p><input type="checkbox"/> Y <input type="checkbox"/> N</p>
<p>Client/Customer</p>		
<p>Plan</p>		
<p>Date</p>		
<p>Soil Map Units</p>		
<p>Soil Moisture</p>		
<p>Surface Horizon Texture</p>		