Management History - Interview

The following questions are offered as examples to guide a conversation with the client and help the planner more thoroughly understand current conditions, the client's management and how these may contribute to existing soil health resource concerns. Answers to these and other similar questions will be helpful in assessing some of the indicators.

be	helpful in assessing some of the indicators.
1.	What is the crop rotation?
2.	Describe your tillage system?
3.	How long have you been in this management system and are you considering any changes?
4.	For how many months per year is the soil surface at least 75 percent (estimated) covered with plants, residue or mulch?
5.	Is cropland grazed? List animal type, number and weight.
6.	Are cover crops a consistent part of the cropping system? If yes, for how many years has the field been continually cover cropped?
7.	How are the cover crops terminated?

Management History – Interview Cont'd

8.	What integrated pest management strategies are used (e.g., crop scouting, selective spraying, treated seeds)?
9.	What nutrient management strategies are used (e.g., banding, split application, use of the 4Rs, manure/biochar/compost)?
10.	Is the field irrigated? If yes, what type of irrigation system and how many acre-inches are applied for each crop in the rotation described above?
11.	Does water pond or run off during or immediately after typical rainfall or irrigation events? Where in the field?
12.	Are there problems with crop emergence or early crop growth? Where in the field?
13.	Is water management a concern (i.e., field too wet or too dry at planting)?
	ner observations not captured in the assessment including plant condition and recent weather and dscape characteristics that may affect assessment results:

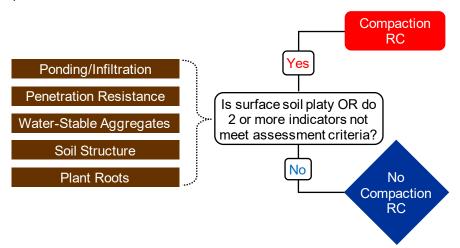
Cropland In-Field Soil Health Assessment Worksheet

Soil Health Resource Concerns CPT: Compaction SOM: Soil Organic Matter Depletion	Indicator Timing and Use Anytime ♣ After Rain or Irrigation ♣ With Adequate Moisture ♠ Before a Tillage Event ♣ Primarily No-Till Systems ♠ Before Growing Season ♠ During Growing Season ✔ Interview ♣	Meets Assessment Criteria (Yes/No)
AGG: Aggregate Instability HAB: Soil Organism Habitat Loss or Degradation Location	Soil Cover SOM, AGG, HAB • Surface cover from plants, residue or mulch; cover greater than 75% (estimated)	□Y□N
	Residue Breakdown	□Y□N
	Surface Crusts	□Y□N
ield/CMU	Ponding/Infiltration ♣ ♠ Ø ♠ CPT, AGG • No ponding on non-hydric soils within 24 hours following typical rainfall or surface irrigation event; • OR, no infiltration difference between assessment area and fencerow sample in the same soil type; • OR, soil infiltrates 1-inch of water in 30 minutes or less	□Y□N
Client/Customer	Penetration Resistance	□Y□N
Plan	 Water-Stable Aggregates CPT, SOM, AGG, HAB Strainer: soil structure remains intact with aggregates apparent; OR, Soil Quality Test Kit (SQTK)/Jornada slake box meets stability class 5 to 6; OR, Cylinder: At least 80% (estimated) remains intact after 5 minutes with little cloudy water 	□Y□N
	Soil Structure CPT, SOM, AGG, HAB • Granular surface soil structure and no platy or massive structure in top foot of soil	□Y□N
Date	Soil Color	□Y□N
Soil Map Units	Plant Roots	□Y□N
Soil Moisture	Biological Diversity	□Y□N
Surface Horizon Texture	Biopores	□Y□N

Cropland In-Field Soil Health Assessment Resource Indicator Decision Trees

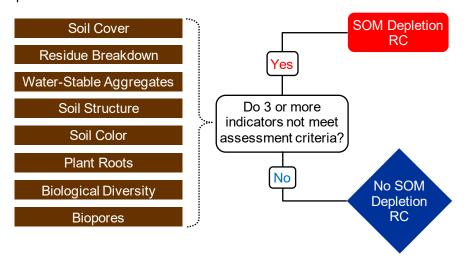
Compaction

Circle the indicators that do not meet assessment criteria during the evaluation and follow decision tree below to determine if the given resource concern (RC) is present. Document on worksheet.



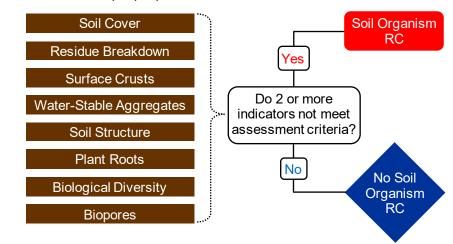
Soil Organic Matter Depletion

Circle the indicators that do not meet assessment criteria during the evaluation and follow decision tree below to determine if the given resource concern (RC) is present. Document on worksheet.



Soil Organism Habitat Loss or Degradation

Circle the indicators that do not meet assessment criteria during the evaluation and follow decision tree below to determine if the given resource concern (RC) is present. Document on worksheet.



Aggregate Instability

Circle the indicators that do not meet assessment criteria during the evaluation and follow decision tree below to determine if the given resource concern (RC) is present. Document on worksheet.

