

## No-Till Farming Practices Observation Checklist

## Field Preparation & Initial Cover

Observations regarding the pre-planting conditions and initial cover crop/residue management.

Date of Observation				
Enter date				
Estimated Percent Crop F	Residue Cover (	0-100)		
Enter a number				
Type of Residue Dominan	nt (if applicable)			
Corn Stover				
Soybean Chaff				
Wheat Straw				
Cover Crop (Specify in Lon	g Text)			
Other (Specify in Long Text	·)			
Description of Initial Soil	Conditions (e.g	., compaction, n	oisture)	

Cover Crop Present? (Select all that apply)  Yes - Specify in Long Text No Unsure
If Cover Crop Present, Describe Species and Approximate Density  Write something
Evidence of Previous Tillage?  Yes No Unsure
Details on Any Evidence of Previous Tillage Observed  Write something
Planting Equipment & Technique  Assessment of the planter used and how no-till planting is being implemented.
Planter Type Used?  Row Planter  Air Seeder  Strip-Till Planter  Other (Specify in Long Text)

If 'Other' Planter Type, please specify:	
Write something	
Planter Row Spacing (inches)	
Enter a number	
Planting Depth (inches)	
Enter a number	
Techniques used to ensure adequate seed-to-soil contact?	
Press Wheels	
Closing Wheels	
Finned Closing Devices  None	
Other (Specify in Long Text)	
Cities (Opeciny in Long Text)	
If 'Other' Seed-to-Soil Contact Technique, please specify:	
Write something	
Is the planter equipped with residue clearing devices?	
Yes	
□ No	

Write something	
esidue Management & Distribution  luation of crop residue levels, distribution, and decomposition.	
idation of crop residue levels, distribution, and decomposition.	
stimated Residue Cover (%)	
Enter a number	
Residue Type(s) Present	
Corn Stover	
Soybean Straw	
Cover Crop (specify in LONG_TEXT)	
Other (specify in LONG_TEXT)	
f 'Cover Crop' selected, specify cover crop species and plantii	ng date.
Write something	
3	
Residue Distribution – is it uniform across the field?	
Uniform	
Patchy	

Write something	
Estimated % of field	with >50% residue cover
Enter a number	
Date of last residue	management operation (e.g., roller-crimping, chopping)
Enter date	
Describe any residu	e management equipment used and its effectiveness.
Write something	
3	
oil Health Inc	dicators
servations and measu	urements related to soil structure, water infiltration, and biologic
servations and measuivity.	urements related to soil structure, water infiltration, and biologic
servations and measurivity.  Soil Organic Matter (	urements related to soil structure, water infiltration, and biologic
servations and measurivity.  Soil Organic Matter (	urements related to soil structure, water infiltration, and biologic  (%)

Water Infiltration Rate (cm/hr)
Enter a number
Soil pH
Enter a number
Soil Structure (Visual Assessment)
Excellent (Granular, Porous)
Good (Slightly aggregated)
Fair (Some compaction)
Poor (Massive, Compacted)
Observations of Soil Aggregate Stability
Write something
Evidence of Earthworm Activity?
Abundant
☐ Moderate
Limited
Absent
Notes on Root Development (if visible)
Write something

## **Weed Management**

Assessment of weed control strategies employed in the no-till system.

What primary no till wood control mothods are being used?	
What primary no-till weed control methods are being used?  Cover Cropping	
Herbicides (Pre-emergent)	
Herbicides (Post-emergent)	
Mechanical Cultivation (minimal - spot treatments only)	
Crop Rotation	
Other (Specify in LONG_TEXT)	
If 'Other' was selected above, please specify the weed manage	ement method.
Write something	
Estimated % of field covered by weeds (visual assessment).	
Enter a number	
Dominant weed species observed (if any).	
☐ Broadleaf weeds	
Grass weeds	
Sedges	
Unknown	
Other (Specify in LONG_TEXT)	

If 'Other' was selected for dominant weed species, please specify.
Write something
Are cover crops being used for weed suppression? If so, what types?
Yes
□ No
Unsure
Describe any unusual weed pressure or challenges observed.
Write something
Post & Disease Management
Pest & Disease Management
Pest & Disease Management bservations regarding pest and disease prevalence and control methods.
bservations regarding pest and disease prevalence and control methods.
bservations regarding pest and disease prevalence and control methods.  Observed Pest Presence (Check all that apply)
Observed Pest Presence (Check all that apply)  No Pests Observed
Observed Pest Presence (Check all that apply)  No Pests Observed  Aphids
Observed Pest Presence (Check all that apply)  No Pests Observed Aphids Wireworms

Observed Disease Presence (Check all that apply)  No Disease Observed Fungal Disease (e.g., blight, rust) Bacterial Disease (e.g., wilt) Viral Disease Other (Specify in Long Text)
Detailed Description of Pest/Disease Observations (if any)
Write something
Primary Pest/Disease Management Strategy Used:  Crop Rotation  Cover Crops  Biological Control  Mechanical Control (e.g., hand weeding, trapping)  Chemical Control (Specify chemicals in Long Text)  Integrated Pest Management (IPM)  No Active Management
If Chemical Control Used, Specify Chemicals & Application Rates  Write something
Estimated Pest/Disease Damage Severity (Scale of 1-5, 1=No Damage, 5=Severe Damage)  Enter a number

write something  Verall System Health & Sustainability  eral assessment of the long-term viability and environmental impact of the no-till tices.  stimated Crop Yield (compared to conventional tillage)  Enter a number  stimated Fuel Consumption (compared to conventional tillage)  Enter a number  vidence of Soil Erosion (visual assessment)  No Erosion  Minor Rills  Moderate Rills	Enter date	
verall System Health & Sustainability eral assessment of the long-term viability and environmental impact of the no-till stices.  stimated Crop Yield (compared to conventional tillage)  Enter a number  stimated Fuel Consumption (compared to conventional tillage)  Enter a number  vidence of Soil Erosion (visual assessment)  No Erosion  Minor Rills	any Unusual Pest	Disease Patterns Observed?
eral assessment of the long-term viability and environmental impact of the no-till stices.  stimated Crop Yield (compared to conventional tillage)  Enter a number  stimated Fuel Consumption (compared to conventional tillage)  Enter a number  vidence of Soil Erosion (visual assessment)  No Erosion  Minor Rills	Write something	
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No Erosion  Minor Rills	Enter a number  Stimated Fuel Co	
	Enter a number  Stimated Fuel Co  Enter a number	nsumption (compared to conventional tillage)
Moderate Rills	Enter a number  Stimated Fuel Co Enter a number	nsumption (compared to conventional tillage)
	Enter a number  Stimated Fuel Co Enter a number  vidence of Soil E  No Erosion	nsumption (compared to conventional tillage)

Observed Benefits (select all that apply)    Improved Water Infiltration   Reduced Soil Compaction   Increased Organic Matter   Enhanced Biodiversity   Reduced Labor Costs   Improved Soil Health
Narrative Summary of System Health
Write something
Date of Lost Cail Health Assessment
Date of Last Soil Health Assessment  Enter date
Former Dercention of System Systemability (coals of 1.5)
Farmer Perception of System Sustainability (scale of 1-5)  1 - Very Unsustainable
2 - Unsustainable
3 - Neutral
4 - Sustainable
5 - Very Sustainable
Upload Photos of Field & Soil
4 Upload File