

Soil Health Assessment Checklist: Farm Fertility & Sustainable Practices

Visual Soil Assessment

Observe soil structure, color, and presence of organic matter.

Write something		
Describe Soil Structure (e.g., granular, blocky,	platy)	
Write something		
		J.
Presence of Standing Water or Puddling?		
Yes		
□ No		
Uncertain		
Visible Organic Matter (e.g., decaying leaves, n	nanure)	
Abundant	•	
Moderate Moderate		
Sparse		
Absent		

Write something	
Describe any unusual observations (e.g., discolorat	ion, unusual growth)
Write something	
oil Texture Analysis ermine the proportions of sand, silt, and clay.	
Percentage of Sand (0-100%)	
(° 2000)	
Enter a number	
Enter a number	
Enter a number	
Enter a number Percentage of Silt (0-100%)	

Soil Class (Based on % Sand, Silt, Clay)
Sandy
Loamy Sandy
Sandy Loam
Loam
Sandy Clay Loam
Clay Loam
Silty Clay Loam
Clay
Notes on Soil Feel (e.g., gritty, smooth, sticky)
Write something
Organia Mattar Cantant
Organic Matter Content
Measure the amount of organic material in the soil.
Estimated Organic Matter (%)
Enter a number
Mothod of Organia Mottor Dotormination
Method of Organic Matter Determination
Loss on Ignition
Loss on Ignition Walkley-Black
Loss on Ignition

Write something			
Loss on Ignition Val	ue (%)		
Enter a number			
Jpload Laboratory A	nalysis Report	(if available)	
4 Upload File			
oil pH Meası	ırement		
-			
sess the acidity or alk			
sess the acidity or alk			
sess the acidity or alk			
Sess the acidity or alk OH Reading Enter a number	alinity of the soil.		
pH Reading Enter a number	alinity of the soil.		
Measurement Metho Soil pH Meter Litmus Paper	alinity of the soil.		
sess the acidity or alk pH Reading Enter a number Measurement Methology Soil pH Meter	alinity of the soil.		
sess the acidity or alk pH Reading Enter a number Measurement Metho Soil pH Meter Litmus Paper	alinity of the soil.		

Write something	
Notes on pH Reading & Conditions	
Write something	
utrient Levels (N, P, K)	
st for essential nutrient deficiencies or excesses.	
Nitrogen (N) - Available (%)	
Enter a number	
Phosphorus (P) - Available (ppm)	
Enter a number	
Enter a number	
Potassium (K) - Available (ppm)	
Potassium (K) - Available (ppm)	
Potassium (K) - Available (ppm) Enter a number	
Potassium (K) - Available (ppm)	

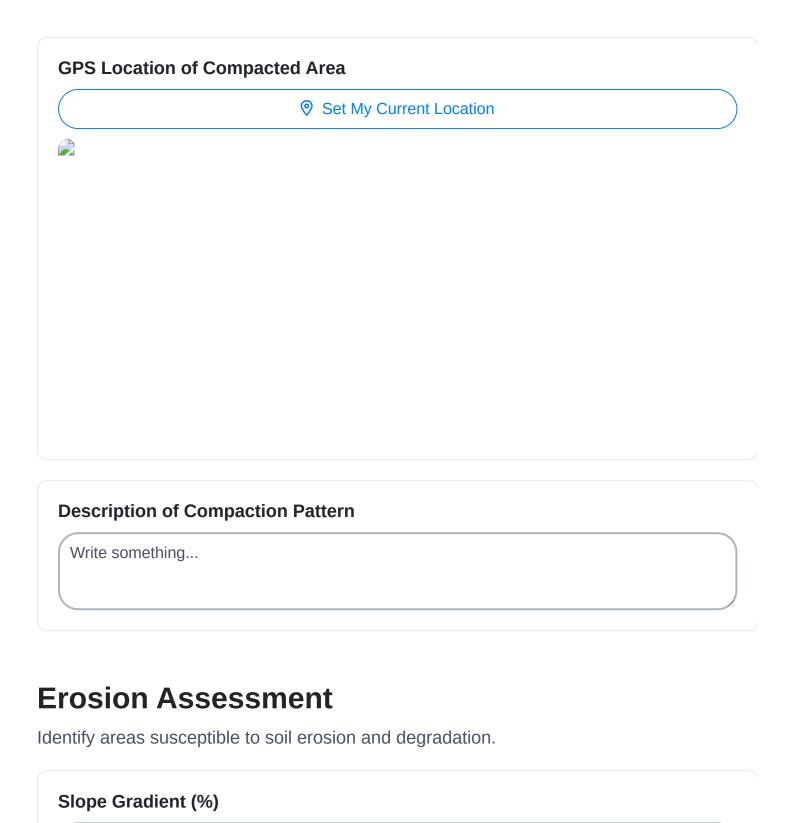
□No
Yes - Purple Stems
Yes - Delayed Maturity
Potassium Deficiency Signs?
□ No
Yes - Scorched Leaf Margins
Yes - Weak Stems
Notes on Nutrient Deficiencies/Excesses
Write something
Motor Infiltration Data
Water Infiltration Rate Evaluate how quickly water penetrates the soil. Initial Infiltration Rate (mm/hr) Enter a number
Evaluate how quickly water penetrates the soil. Initial Infiltration Rate (mm/hr)
Evaluate how quickly water penetrates the soil. Initial Infiltration Rate (mm/hr)
Evaluate how quickly water penetrates the soil. Initial Infiltration Rate (mm/hr) Enter a number
Initial Infiltration Rate (mm/hr) Enter a number After 30 Minutes (mm/hr)
Initial Infiltration Rate (mm/hr) Enter a number After 30 Minutes (mm/hr)

Method Used (Double Ring, Single Ring, Ponded) Double Ring Single Ring Ponded	
Ring Diameter (cm) - If Applicable	
Enter a number	
Observations During Test (Standing Water, Uneven Saturation) Write something	
Test Location Coordinates	
Set My Current Education	

Date of Test	
Enter date	
Compaction Assessment	

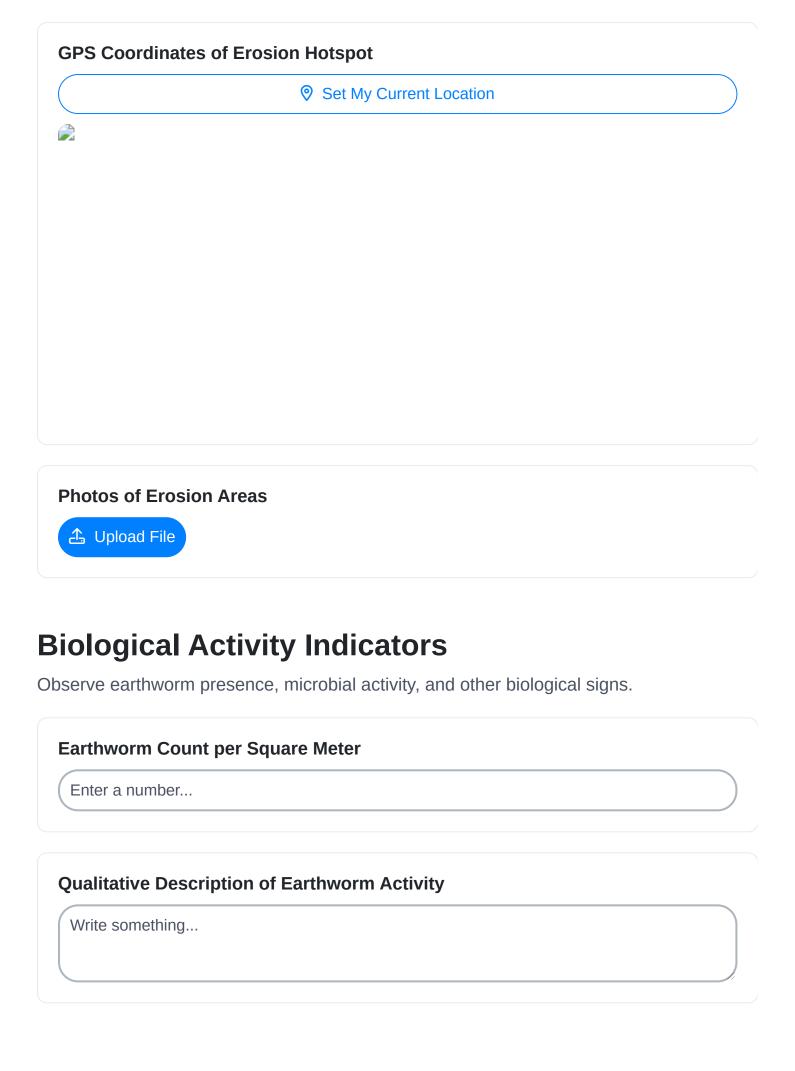
Check for signs of soil compaction, hindering root growth.

Soil Bulk Density (g/cm³)	
Enter a number	
Penetration Resistance (MPa)	
Enter a number	
Compaction Severity	
None	
Mild	
Moderate	
Severe	



Enter a number...

Dominant Soil Type Sandy Silty Clayey Loamy
Observed Erosion Features Gullies Rills Sheet Erosion Ravines Exposed Roots Sediment Deposition
Detailed Description of Erosion Signs Write something



Presence of Visible Fungal Hyphae? Yes No Unsure	
Root Biomass Indicators (Select all that apply)	
Abundant Fine Roots	
Large Root Mass	
☐ Visible Root Nodules	
Sparse Root Growth	
Notes on Microbial Activity (e.g., Smell, Color)	
Write something	
Previous Management Practices Record past fertilizer application, tillage methods, and crop rotation.	
Last Tillage Date	
Enter date	
Last Fertilizer Application Rate (lbs/acre)	
Enter a number	

Previous Crops Grown (last 3 years) Corn Soybeans Wheat Alfalfa Barley Canola Canola Other
Average Yield (last 3 years) Enter a number
Tillage Method Conventional No-Till Reduced Tillage
Details on Pest & Disease Management Write something
Last Cover Crop Planting Date Enter date