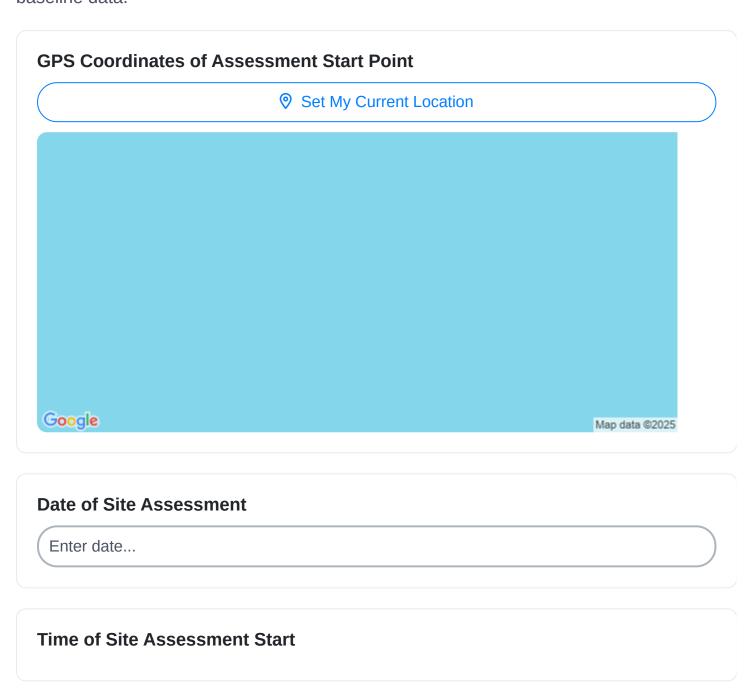


Water Runoff Analysis

Site Assessment & Data Collection

Initial assessment of the agricultural site to identify potential runoff sources and collect baseline data.



Area of Field/Farm Under Assessment (hectares/acres)
Enter a number
Detailed Description of Field/Farm Topography & Vegetation
Write something
Land Use Types within Assessment Area Cropland
Pasture
Orchard
Forest
Other (Specify)
Site Map/Sketch (indicating drainage patterns, key features) L Upload File
Dominant Soil Type(s) Observed
Sandy
Silty
☐ Clayey ☐ Loamy
Organic
Unknown

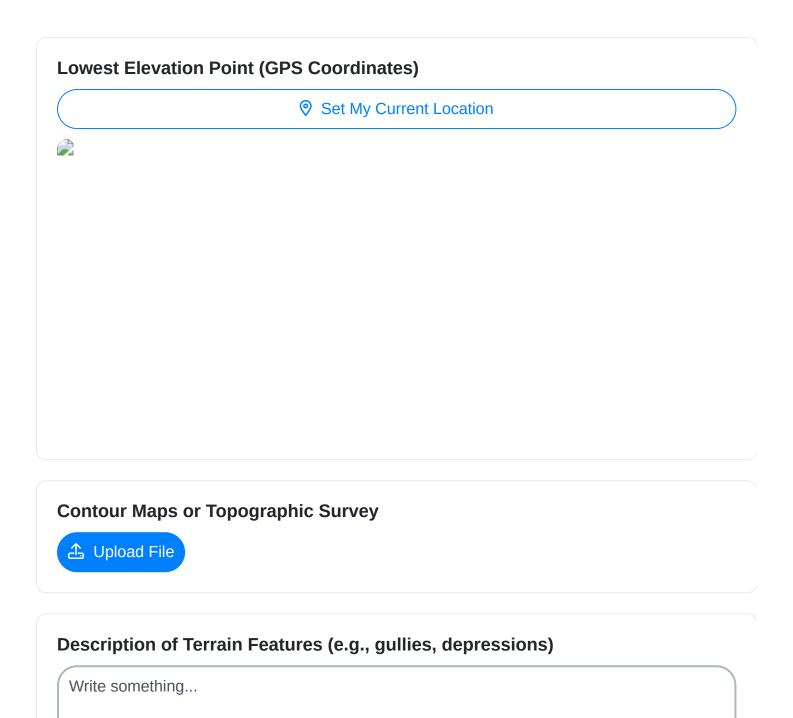
Write something	
Rainfall & Hydrologic Data Analy	/sis
eviewing rainfall patterns, intensity, and frequency, along r the area.	g with relevant hydrological data
Start Date of Rainfall Data Collection	
Enter date	
End Date of Rainfall Data Collection	
Enter date	
Average Annual Rainfall (mm/inches)	
Enter a number	
Maximum Hourly Rainfall Intensity (mm/inches/hr)	
Enter a number	
Rainfall Data Source	
Local Weather Station	
Regional Precipitation Network Satellite Data	
Other (Specify)	

Write something		
Rainfall Data File	es (e.g., CSV, Excel)	
♣ Upload File		
Pacurranca Inta	rval (for design storm - years)	
vecuirence inte		
Enter a number	cteristics & Infiltration s, permeability, and infiltration rates to und	derstand water absorption
Enter a number Dil Charac aluating soil types acity.	s, permeability, and infiltration rates to und	derstand water absorption
Enter a number Dil Charac aluating soil types	s, permeability, and infiltration rates to und	derstand water absorption
Enter a number Dil Charac aluating soil types acity. Soil Organic Mat	s, permeability, and infiltration rates to und	derstand water absorption

Soil Texture Class
Sandy
☐ Loamy Sand
Sandy Loam
Silt Loam
Clay Loam
Sandy Clay Loam
Silty Clay Loam
Clay
Silty Clay
Sandy Clay
Initial Infiltration Rate (mm/hr) Enter a number
Steady-State Infiltration Rate (mm/hr)
Enter a number
Description of Soil Profile (layers, colors, consistencies)
Write something
Soil Texture Analysis Report (if available)
4 Upload File

Enter a number... **Topography & Slope Analysis** Analyzing the land's slope and elevation to determine runoff pathways and potential accumulation areas. **Maximum Slope (%)** Enter a number... **Average Slope (%)** Enter a number... **Highest Elevation Point (GPS Coordinates)** Set My Current Location

Saturated Hydraulic Conductivity (cm/hr)



Dominant Aspect (Direction Slope Faces)
North
Northeast
☐ East
Southeast
South
Southwest
West
Northwest
Agricultural Practices Evaluation Assessing farming techniques (tillage, irrigation, fertilization, crop selection) and their impact on runoff.
Tillage Method Employed?
Conventional Tillage
Reduced Tillage
☐ No-Till
Fertilizer Application Rate (lbs/acre)
Enter a number
Types of Fertilizer Used (Select all that apply) Nitrogen Phosphorus
Potassium
Organic
Compost

Irrigation Volume (gallons/acre/irrigation) Enter a number Crop Rotation Practices? Monoculture Rotation - Describe below Cover Cropping - Describe below	
Crop Rotation Practices? Monoculture Rotation - Describe below	
Monoculture Rotation - Describe below	
Rotation - Describe below	
Cover Cropping - Describe below	
Describe Crop Rotation/Cover Cropping (if applicable)	
Write something	
Upload Field Map/Layout (showing planting areas)	

Runoff Modeling & Estimation

Using appropriate models (e.g., NRCS Curve Number method, SWAT) to estimate runoff volume and peak flow rates.

Modeling Approach Selected
NRCS Curve Number Method
SWAT
HEC-RAS
Other (Specify in LONG_TEXT)
Rainfall Intensity (in/hr)
Enter a number
Curve Number (CN)
Enter a number
Area (acres)
Enter a number
Estimated Runoff Volume (acre-feet)
Enter a number
Peak Flow Rate (cfs)
Enter a number
Model Input Data Description (e.g., data sources, assumptions)
Write something

Model Input File(s)



Water Quality Assessment

Sampling and analyzing runoff water for pollutants (sediment, nutrients, pesticides) to determine water quality impacts.

pH Level	
Enter a number	
Turbidity (NTU)	
Enter a number	
Total Suspended Solids (TSS) (mg/L)	
Total Suspended Solids (TSS) (mg/L) Enter a number	
Enter a number	
Total Suspended Solids (TSS) (mg/L) Enter a number Nitrate-N (mg/L) Enter a number	
Enter a number Nitrate-N (mg/L)	

Pesticide Concentration (Specify Pesticide) (µg/L)
Enter a number
Indicators of Fecal Contamination Present?
E. coli
Fecal Coliforms
None Detected
Observations of Color or Odor
Write something
Sampling Date
Enter date
Sampling Time

Mitigation Measures Evaluation

Identifying and evaluating potential runoff control measures (e.g., cover crops, terraces, riparian buffers).

Potential Cover Crop Options Considered (Select all that apply)
Cereal Rye
Oats
Buckwheat
Crimson Clover
Hairy Vetch
Other (Specify in LONG_TEXT)
If 'Other' cover crop was selected, please specify:
Write something
Estimated Terracing Slope Reduction (%)
Enter a number
Riparian Buffer Type (If Applicable)
Native Vegetation
Grassed
None
Other (LONG_TEXT)
If 'Other' Riparian Buffer type was selected, please specify:
Write something

Estimated width of Riparian Buffer (meters)
Enter a number
Conservation Tillage Practices Considered (Select all that apply)
☐ No-Till
Reduced Till
Ridge Tillage
Conventional Tillage
Other (LONG_TEXT)
If 'Other' Conservation Tillage was selected, please specify:
Write something
Nutrient Management Plan Review Required? Yes No
Reporting & Documentation
Compiling findings into a clear report with recommendations and maintaining detailed ecords of the analysis.
Executive Summary of Findings
Write something

Estimated Runoff Volume (cubic meters)	
Enter a number	
Peak Runoff Flow Rate (m³/s)	
Enter a number	
Runoff Modeling Output Files (e.g., simulation results) Lupload File	
Overall Risk Level (Based on analysis)	
Low Moderate High	
Detailed Description of Recommended Mitigation Measures	
Write something	
Date of Report Completion	
Enter date	
Analyst Signature	

Write something			