



Farm Irrigation System Performance Checklist

System Overview & Pre-Operation

Initial assessment and pre-operational checks before irrigation begins.

Date of Inspection

Time of Inspection

Irrigation System Type

- ☐ Drip
- ☐ Sprinkler
- ☐ Pivot
- ☐ Flood

Area Under Irrigation (Acres)

System Pressure (PSI) - Initial Reading

Weather Conditions Observed

Write something...

System Status Before Start

- ☐ Operational
- ☐ Needs Repair
- ☐ Out of Service

Pump Station Evaluation

Inspect and monitor the pump system for efficient operation.

Pump Inlet Pressure (PSI)

Enter a number...

Pump Discharge Pressure (PSI)

Enter a number...

Pump Motor Amperage

Enter a number...

Pump RPM

Enter a number...

Pump Noise Level

- ☐ Normal
- ☐ Slightly Elevated
- ☐ Excessive

Notes on Pump Operation

Write something...

Date of Inspection

Enter date...

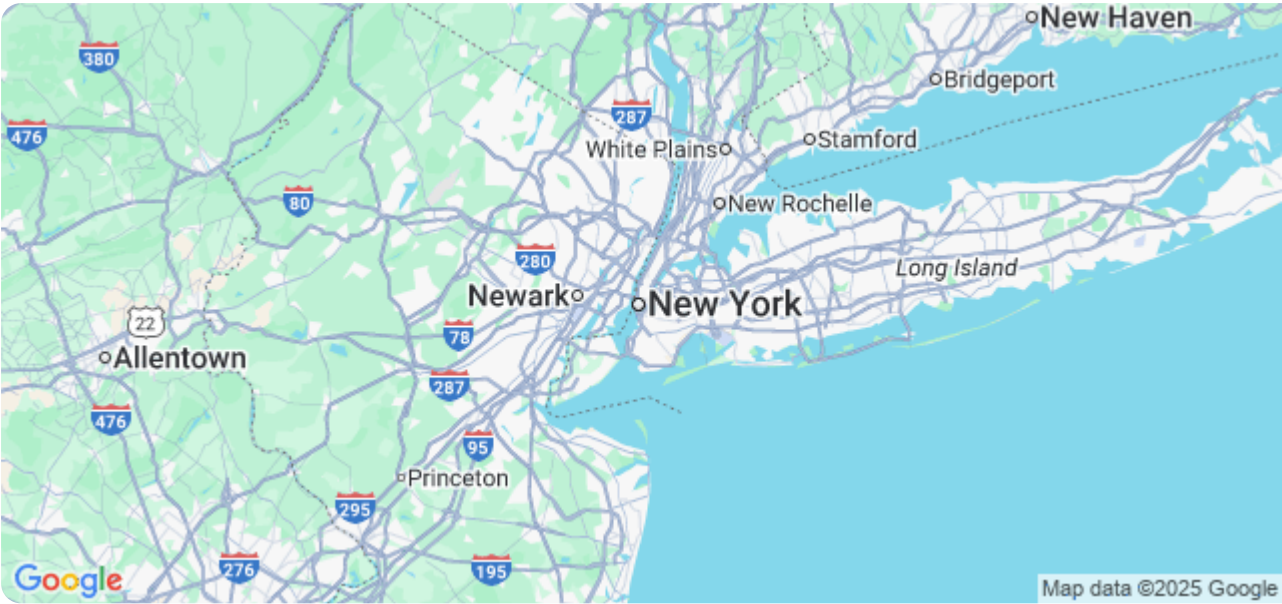
Time of Inspection

Pipe and Fittings Inspection

Check pipes, joints, and fittings for leaks and damage.

Pipe Section Location

 Set My Current Location



Pipe Diameter (inches)

Enter a number...

Pipe Material

- ☐ PVC
- ☐ HDPE
- ☐ Galvanized Steel
- ☐ Other

Fitting Type

- ☐ Elbow
- ☐ Tee
- ☐ Coupling
- ☐ Reducer
- ☐ Valve

Leak Rate (gallons/minute)

Enter a number...

Description of Damage (if any)

Write something...

Condition

- ☐ Excellent
- ☐ Good
- ☐ Fair
- ☐ Poor

Photo of Pipe/Fitting (if damaged)

 Upload File

Sprinkler/Emitter Performance

Evaluate the uniformity and effectiveness of sprinklers or emitters.

Sprinkler Throw Distance (feet)

Enter a number...

Emitter Flow Rate (gallons/hour)

Enter a number...

Sprinkler Pattern Uniformity (Visual)

- ☐ Excellent
- ☐ Good
- ☐ Fair
- ☐ Poor

Pressure at Sprinkler Head (PSI)

Enter a number...

Emitter Clogging?

- ☐ Yes
- ☐ No
- ☐ Possible

Notes on Sprinkler/Emitter Performance

Write something...

Water Source Quality

Assess the quality of the water source for potential issues affecting irrigation.

pH Level

Enter a number...

Electrical Conductivity (EC)

Enter a number...

Nitrate Concentration (ppm)

Enter a number...

Salinity (dS/m)

Enter a number...

Water Appearance

- ☐ Clear
- ☐ Slightly Cloudy
- ☐ Cloudy
- ☐ Murky

Additional Observations

Write something...

Sampling Date

Enter date...

Pressure and Flow Measurement

Verify pressure and flow rates at various points in the system.

System Pressure (PSI)

Enter a number...

Flow Rate (GPM)

Enter a number...

Elevation Head (Feet)

Enter a number...

Pressure at Sprinkler Head 1 (PSI)

Enter a number...

Flow Rate at Sprinkler Head 1 (GPM)

Enter a number...

Measurement Unit (Pressure)

- ☐ PSI
- ☐ kPa
- ☐ Bar

Measurement Unit (Flow)

- ☐ GPM
- ☐ LPM
- ☐ ACH

Post-Irrigation Assessment

Observe crop response and identify areas for improvement after irrigation.

Average Soil Moisture Reading (%),

Enter a number...

Crop Appearance - Overall Health

- ☐ Excellent
- ☐ Good
- ☐ Fair
- ☐ Poor

Detailed Observations on Crop Health (e.g., signs of stress, nutrient deficiencies)

Write something...

Irrigation Run Time (minutes)

Enter a number...

Water Penetration - Evenness

- ☐ Excellent
- ☐ Good
- ☐ Fair
- ☐ Poor

Date of Assessment

Enter date...

Maintenance & Repair Log

Record any maintenance performed and repairs needed.

Date of Maintenance/Repair

Enter date...

Time of Maintenance/Repair

Description of Issue/Maintenance Performed

Write something...

Parts Used (Quantity)

Enter a number...

Parts Used (Description)

Write something...

Labor Hours

Enter a number...

Technician Signature

Issue Resolved?

- ☐ Yes
- ☐ No