



Irrigation System Checklist: Farm Water Management & Crop Yield Optimization

Pre-Season Inspection

Initial assessment before the irrigation season begins.

Last Inspection Date

Enter date...

System Pressure (PSI)

Enter a number...

Water Source Condition

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

Notes on Water Source

Write something...

Overall System Condition

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

Photo of Main Control Panel

 Upload File

Pump & Power System

Checks related to the pump, motor, and power supply.

Pump Horsepower

Enter a number...

Voltage (V)

Enter a number...

Amperage (A)

Enter a number...

Motor Phase (Single/Three)

- ☐ Single
- ☐ Three

Last Motor Serviced

Enter date...

Pump Startup Time (Record)

Pump Lubrication Type

- ☐ Oil
- ☐ Grease

Pump RPM

Enter a number...

Pipes & Connections

Inspection of pipes, fittings, and connections for leaks and damage.

Pipe Segment Start Location

 Set My Current Location



Pipe Diameter (inches)

Enter a number...

Pipe Material

- ☐ PVC
- ☐ HDPE
- ☐ Galvanized Steel
- ☐ Concrete

Connection Type

- ☐ Threaded
- ☐ Flanged
- ☐ Coupled
- ☐ Sleeve

Joint Leakage (gallons/minute)

Enter a number...

Description of Damage/Issue

Write something...

Date of Inspection

Enter date...

Condition

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

Filters & Screens

Assessment of filter functionality and cleanliness.

Filter Pressure Drop (PSI)

Enter a number...

Filter Inlet Pressure (PSI)

Enter a number...

Filter Outlet Pressure (PSI)

Enter a number...

Filter Type

- ☐ Sand Filter
- ☐ Media Filter
- ☐ Screen Filter
- ☐ Disc Filter

Screen Mesh Size

- ☐ 20 Mesh
- ☐ 40 Mesh
- ☐ 60 Mesh
- ☐ 80 Mesh
- ☐ 100 Mesh


Notes on Filter Condition

Write something...

Last Cleaning Date

Enter date...

Upload Photo of Filter

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Emitters & Sprinklers

Verification of emitter type, spacing, and performance.

Emitter Flow Rate (gallons/hour)

Enter a number...

Sprinkler Radius (feet)

Enter a number...

Emitter/Sprinkler Spacing (feet)

Enter a number...

Emitter/Sprinkler Type

- ☐ Drip Emitter
- ☐ Micro Sprinkler
- ☐ Pop-Up Sprinkler
- ☐ Other


Emitter/Sprinkler Issues Observed

- ☐ Clogging
- ☐ Broken/Damaged
- ☐ Uneven Distribution
- ☐ Low Pressure
- ☐ None

Detailed notes on emitter/sprinkler performance

Write something...

Photo/Video of Emitter/Sprinkler Area (optional)

 Upload File

Water Quality Monitoring

Evaluation of water source for salinity, pH, and contaminants.

pH Level

Enter a number...

Electrical Conductivity (EC)

Enter a number...

Salinity (ppm)

Enter a number...

Nitrate Levels (mg/L)

Enter a number...

Water Source

- ☐ Well
- ☐ Surface Water
- ☐ Municipal
- ☐ Reservoir

Sampling Date

Enter date...

Sampling Time

Observations/Notes

Write something...

Automation & Control System

Checks of timers, sensors, and controller functionality.

Controller Firmware Version

Enter a number...

Controller Operating Mode (Manual/Automatic)

- ☐ Manual
- ☐ Automatic

Scheduled Start Time for Automatic Irrigation

Date of Last System Software Update

Enter date...

Soil Moisture Sensor Readings (Avg.)

Enter a number...

Sensor Calibration Status

- ☐ Calibrated
- ☐ Needs Calibration

Notes/Observations on Controller Functionality

Write something...

Regular Operational Checks

Routine tasks during the irrigation season to ensure optimal performance.

Irrigation Start Time

Run Time (minutes)

Enter a number...

Water Pressure (PSI)

Enter a number...

Emitter Performance

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

Observed Issues

- ☐ Leaks
- ☐ Clogging
- ☐ Uneven Distribution
- ☐ Low Pressure
- ☐ None

Notes/Comments

Write something...

Post-Season Maintenance

Tasks performed after the irrigation season to prepare for the next year.

Date of Post-Season Maintenance

Enter date...

Notes on System Condition & Maintenance Performed

Write something...


Water Meter Reading (End of Season)

Enter a number...

Components Drained (Select all that apply)

- ☐ Pump
- ☐ Pipes
- ☐ Filters
- ☐ Emitters

Photos of System Condition (Optional)

 Upload File

Recommendations for Next Season's Upgrades or Repairs (Optional)

Write something...