

Hydroponics System Maintenance Checklist Template

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Reservoir & Nutrient Solution

Checks and maintenance related to the nutrient solution reservoirs, including water levels, pH, PPM, and temperature.

Reservoir Water Level (inches)

pH Level



PPM (Parts Per Million)

Enter a number...

Water Temperature (°C)

Enter a number...

Nutrient Solution Clarity

- Clear
- Slightly Cloudy
- Cloudy
- Opaque

Last Nutrient Solution Change Date

Enter date...

Notes on Nutrient Solution Condition

Write something...

EC (Electrical Conductivity - mS/cm)

Enter a number...

Water Pumps & Plumbing

Inspection and upkeep of water pumps, tubing, fittings, and irrigation lines.

Pump Flow Rate (GPH)

Enter a number...

Pump Voltage (V)

Enter a number...

Plumbing Pressure (PSI)

Enter a number...

Pump Noise Level

- Normal
- Slightly Elevated
- Excessive

Plumbing Issues Detected

- Leaks
- Clogs
- Kinks
- Cracks
- None

Notes on Pump & Plumbing Condition

Write something...

Last Filter Change Date

Enter date...

Grow Media & Root Zone

Examination of grow media (e.g., coco coir, rockwool) and observation of root health and signs of disease.

EC (Electrical Conductivity) Reading (mS/cm)

Enter a number...

pH Level

Enter a number...

Root Appearance Notes (color, health)

Write something...

Media Moisture Level Description (saturated, moist, dry)

Write something...

Media Condition

- Decomposition
- Algae Growth
- Compaction
- Salt Build-up
- No Issues

Root Health Assessment

- Excellent
- Good
- Fair
- Poor

Last Media Change Date

Enter date...

Lighting & Environmental Controls

Verification of proper lighting intensity, spectrum, and duration, along with temperature, humidity, and CO2 levels.

Light Intensity (PPFD)

Enter a number...

Ambient Temperature (°C)

Enter a number...

Relative Humidity (%)

Enter a number...

CO2 Level (ppm)

Last Bulb/LED Replacement Date

Light Cycle Start Time

Light Spectrum

- Blue
- Red
- Full Spectrum

HVAC Functioning?

- Yes
- No

pH & EC Monitoring

Calibration and accuracy checks of pH and Electrical Conductivity (EC) meters.

pH Reading

EC Reading (mS/cm)

Enter a number...

pH Adjustment Needed?

Yes

No

EC Adjustment Needed?

Yes

No

pH Adjustment Solution Used (if applicable)

Write something...

EC Adjustment Solution Used (if applicable)

Write something...

Calibration Date

Enter date...

Notes on Readings/Calibration

Write something...

Air & Ventilation

Maintenance of air pumps, fans, and ventilation systems to ensure adequate oxygenation and air circulation.

Air Pump CFM (Cubic Feet per Minute)

Fan RPM (Revolutions per Minute)

Air Filter Condition

- Excellent
- Good
- Fair
- Poor

Last Air Filter Replacement

Time of Ventilation System Check

Enter time...

Notes on Ventilation System Performance

Write something...

Structural Integrity & Leaks

Inspection of grow systems for leaks, cracks, or damage to structural components.

Reservoir Wall Thickness (mm)

Enter a number...

Reservoir Material Condition

- Excellent
- Good
- Fair
- Poor

Pipe/Tubing Condition

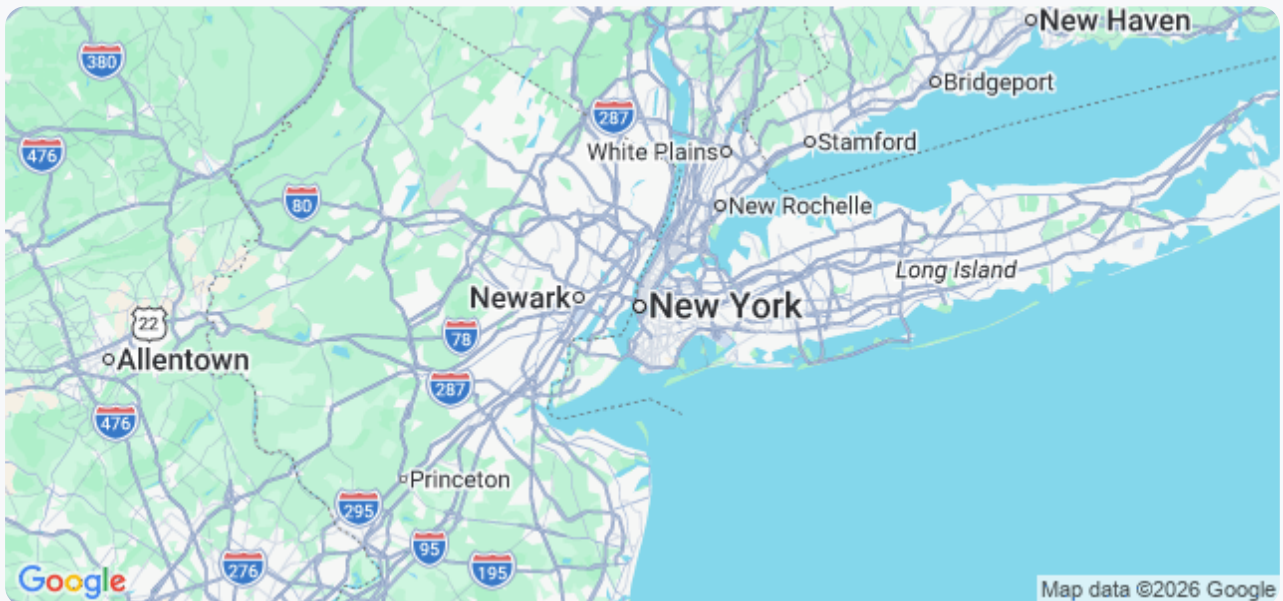
- Excellent
- Good
- Cracked/Damaged
- Kinked

Detailed Leak Description (if applicable)

Write something...

Leak Location (if applicable)

 [Set My Current Location](#)



Pipe Diameter (mm)

Enter a number...

Date of Last Structural Repair

Enter date...

Pest & Disease Control

Monitoring and treatment of potential pests and diseases.

Observed Pests (Check all that apply)

- Aphids
- Spider Mites
- Thrips
- Whiteflies
- Fungus Gnats
- None Observed

Observed Diseases (Check all that apply)

- Root Rot
- Powdery Mildew
- Botrytis (Grey Mold)
- Leaf Spot
- None Observed

Detailed Description of Observations (Pests/Diseases)

Write something...

Treatment Applied (if any)

- Neem Oil
- Insecticidal Soap
- Biological Control (e.g., beneficial insects)
- Fungicide
- None

Concentration of Treatment Applied (if applicable)

Enter a number...

Date of Treatment Application

Attach Photos/Evidence (if applicable)

 Upload File

Cleaning & Sanitation

Regular cleaning and disinfection of the hydroponic system to prevent contamination.

Last Cleaning Date

Cleaning Solutions Used (List)

Amount of Disinfectant Used (liters/gallons)

Enter a number...

Areas Cleaned (Check all that apply)

- Reservoir
- Grow Media
- Pipes/Tubing
- Pump Housing
- Drainage System

Any unusual observations during cleaning (e.g., Algae, residue)

Write something...

Cleaning start time

Enter time...

Cleaning end time

Enter time...

System-Specific Components

Checks of components unique to your specific hydroponic system (e.g., drip emitters, flood and drain timers).

Drip Emitter Flow Rate (ml/min)

Flood and Drain Timer Duration (minutes)

Last Filter Replacement Date

Automated Nutrient Dosing Schedule Start Time

Pump Noise Level (Normal/Increased/Alarming)

- Normal
- Increased
- Alarming

Photo of Nutrient Solution Clarity

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