

Hydroponics System Maintenance Checklist Template

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Default 

Reservoir & Nutrient Solution

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

Reservoir Water Level (inches)

Enter a number...

pH Level

Enter a number...



PPM (Parts Per Million)

Water Temperature (°C)

Nutrient Solution Clarity

- ☐ Clear
- ☐ Slightly Cloudy
- ☐ Cloudy
- ☐ Opaque

Last Nutrient Solution Change Date

Notes on Nutrient Solution Condition

EC (Electrical Conductivity - mS/cm)

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)

Enter a number...

Fan RPM (Revolutions per Minute)

Enter a number...

Air Filter Condition

☐ Excellent

☐ Good

☐ Fair

☐ Poor

Last Air Filter Replacement

Enter date...

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

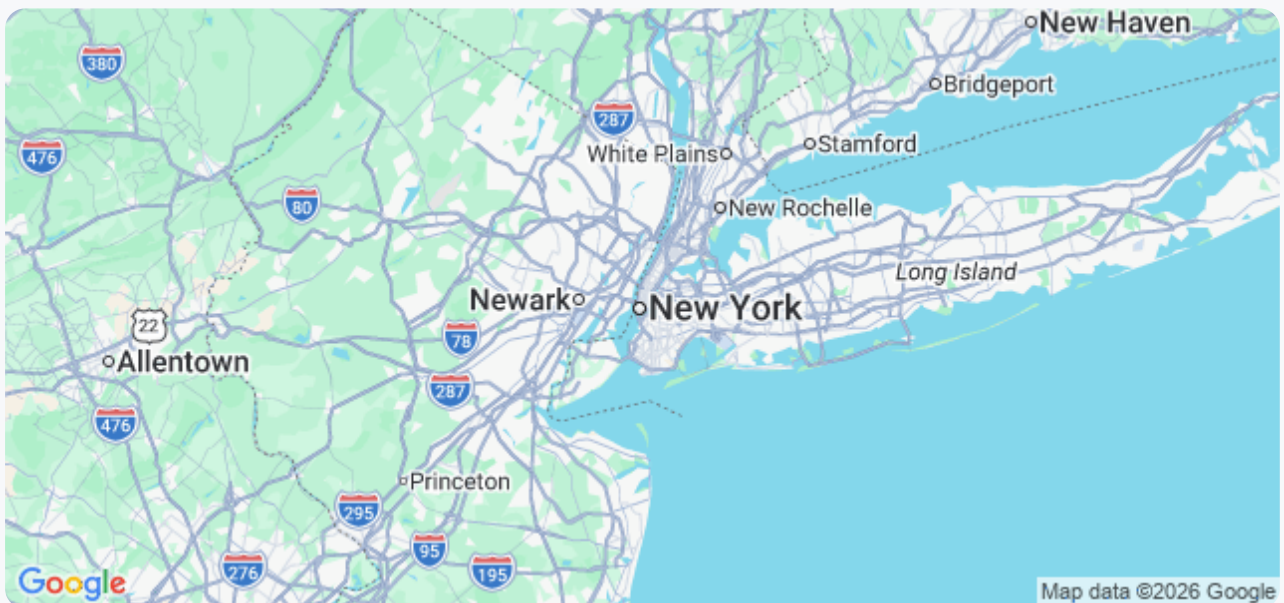
- ☐ Excellent
- ☐ Good
- ☐ Cracked/Damaged
- ☐ Kinked

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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