



# Farm Carbon Footprint Reduction Checklist

## Energy Consumption

Assess and reduce energy usage across farm operations.

### Total Electricity Usage (kWh)

### Diesel Consumption (Gallons)

### Propane Consumption (Gallons)

### Lighting Type (Barns/Buildings)

☐

LED

☐

Fluorescent

☐

Incandescent

### HVAC System Efficiency Rating

- ☐ High
- ☐ Medium
- ☐ Low

### Last Energy Audit Date

Enter date...

### Notes on Energy Saving Initiatives

Write something...

## Fuel Efficiency

Optimize fuel consumption for machinery and transportation.

### Average Fuel Consumption (Gallons/Acre)

Enter a number...

### Tractor Engine Hours Last Month

Enter a number...

### Tractor Maintenance Schedule Adherence

- ☐ Always
- ☐ Sometimes
- ☐ Never

### Fuel Saving Practices Implemented

- ☐ Proper Tire Inflation
- ☐ Reduced Speed
- ☐ Engine Load Optimization
- ☐ Fuel Additives
- ☐ None

### Last Fuel System Inspection Date

Enter date...

### Average Speed (MPH) During Field Operations

Enter a number...

## Fertilizer Management

Reduce fertilizer use and optimize application techniques to minimize nitrous oxide emissions.

### Total Fertilizer Applied (kg/ha)

Enter a number...

### Fertilizer Type Used

- ☐ Nitrogen
- ☐ Phosphorus
- ☐ Potassium
- ☐ Blended
- ☐ Organic

### Application Rate (kg/ha)

Enter a number...

### Date of Application

Enter date...

### Application Method

- ☐ Broadcasting
- ☐ Banding
- ☐ Side-dressing
- ☐ Fertigation

### Soil Test Result (N-P-K)

Enter a number...

### Observations & Notes

Write something...

# Soil Health & Carbon Sequestration

Implement practices to improve soil health and increase carbon sequestration.

## Organic Matter Percentage (%)

## Last Cover Crop Planting Date

## Soil Conservation Practices Implemented

- ☐ No-Till Farming
- ☐ Contour Farming
- ☐ Terracing
- ☐ Strip Cropping
- ☐ Windbreaks/Shelterbelts

## Detailed Description of Soil Management Techniques

## Soil Type

- ☐ Sandy
- ☐ Clay
- ☐ Silty
- ☐ Loamy
- ☐ Other

### Annual Compost Application Rate (tons/acre)

Enter a number...

### Last Soil Test Date

Enter date...

## Livestock Management

Reduce methane emissions from livestock through improved feeding and manure management.

### Average Daily Feed Intake (kg/animal)

Enter a number...

### Manure Production Rate (kg/animal/day)

Enter a number...

### Manure Storage Method

- ☐ Open Lagoon
- ☐ Composting
- ☐ Anaerobic Digestion
- ☐ Solid Storage

### Last Manure Analysis Date

Enter date...

### Feed Additives Used (to reduce methane)

- ☐ Seaweed Extracts
- ☐ 3-Nitrooxypropanol (3-NOP)
- ☐ Condensed Tannins
- ☐ No additives used

### Percentage of Feed from Sustainable Sources

Enter a number...

### Notes on Livestock Health and Welfare practices impacting carbon footprint

Write something...

## Crop Selection & Rotation

Choose crops and implement rotation strategies to enhance carbon sequestration and reduce emissions.

### Cover Crop Selection (Fall)

- ☐ Rye
- ☐ Oats
- ☐ Hairy Vetch
- ☐ Radish
- ☐ No Cover Crop

### Crop Rotation Length (Years)

Enter a number...

### Crop Types in Rotation

- ☐ Corn
- ☐ Soybeans
- ☐ Wheat
- ☐ Barley
- ☐ Alfalfa
- ☐ Oats

### Date of Crop Rotation Plan Review

Enter date...

### Justification for Crop Selection

Write something...

### No-Till or Conventional Tillage?

- ☐ No-Till
- ☐ Conventional Tillage

### Percentage of Land in Cover Crops

Enter a number...

## Waste Management

Minimize waste generation and implement sustainable waste disposal practices.



### Estimated Waste Generated (tons/year)

Enter a number...

### Waste Types Generated

- ☐ Organic Waste (Manure, Crop Residue)
- ☐ Plastic Film
- ☐ Chemical Containers
- ☐ Metal Scrap
- ☐ Paper/Cardboard
- ☐ Other (Specify)

### Details of 'Other' Waste (if applicable)

Write something...

### Current Waste Disposal Method

- ☐ Landfill
- ☐ Composting
- ☐ Recycling
- ☐ Animal Feed
- ☐ Other (Specify)

### Details of 'Other' Disposal Method (if applicable)

Write something...

### Date of last waste audit

Enter date...

## Renewable Energy Adoption

Explore and implement renewable energy sources for farm operations.

### Current Energy Source(s)

- ☐ Grid Electricity
- ☐ Propane
- ☐ Diesel
- ☐ Solar
- ☐ Wind
- ☐ Biomass

### Renewable Energy Option Considered

- ☐ Solar Panels (Photovoltaic)
- ☐ Wind Turbine
- ☐ Biogas Digester
- ☐ Hydroelectric
- ☐ None Currently Planned

### Estimated Solar Panel Capacity (kW)

Enter a number...

### Estimated Wind Turbine Size (kW)

Enter a number...

### Target Implementation Date

Enter date...

### Estimated Project Cost (\$)

Enter a number...

### Notes/Comments

Write something...

## Transportation & Logistics

Optimize transportation routes and logistics to reduce fuel consumption and emissions.

### Average Fuel Consumption (liters/km)

Enter a number...

### Total Kilometers Driven (vehicles)

Enter a number...

### Vehicle Maintenance Schedule Adherence

- ☐ Always
- ☐ Sometimes
- ☐ Rarely
- ☐ Never

### Transportation Optimization Strategies Implemented

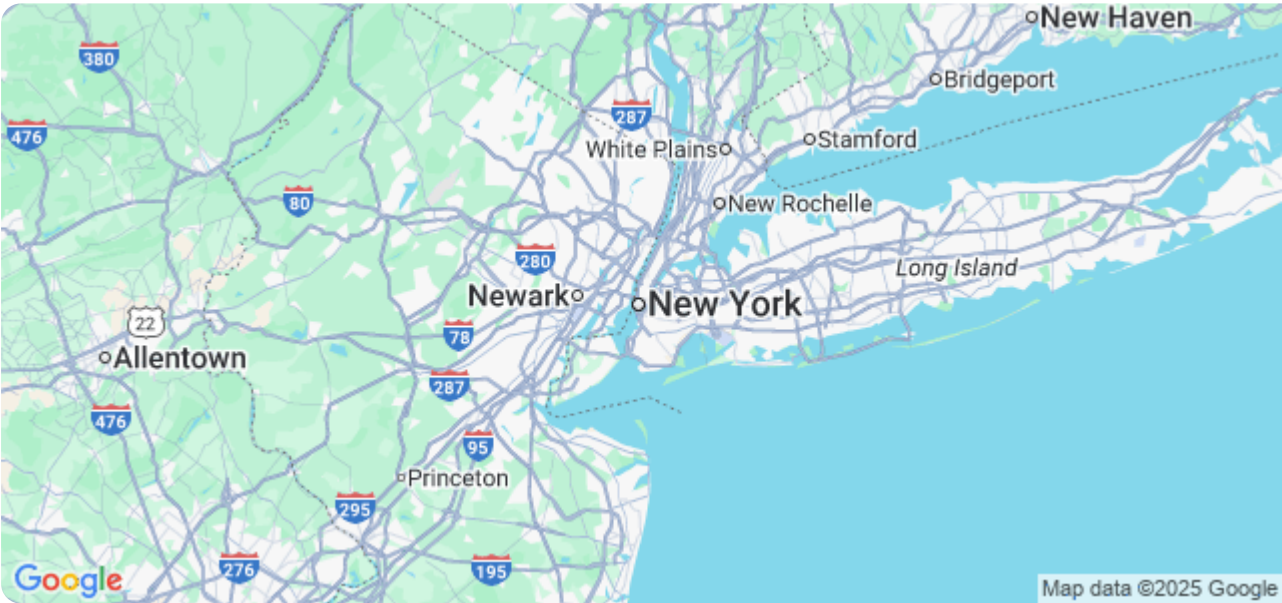
- ☐ Route Optimization
- ☐ Vehicle Load Optimization
- ☐ Combined Trips
- ☐ Alternative Fuel Vehicles
- ☐ None

### Last Transportation Route Review Date

Enter date...

### Primary Transportation Hub Location

 [Set My Current Location](#)



## Monitoring & Reporting

Track carbon footprint and report progress towards reduction goals.

### Last Carbon Footprint Assessment Date

Enter date...

### Total Greenhouse Gas Emissions (tonnes CO2e)

Enter a number...

### Summary of Monitoring Methods Used

Write something...

### Reduction Target (Percentage)

Enter a number...

### Reporting Frequency

- ☐ Monthly
- ☐ Quarterly
- ☐ Annually

### Supporting Documentation (e.g., Data Spreadsheets)

 Upload File

**Notes on Data Collection Challenges or Improvements**

Write something...