



LEAFY GREEN MACHINE™

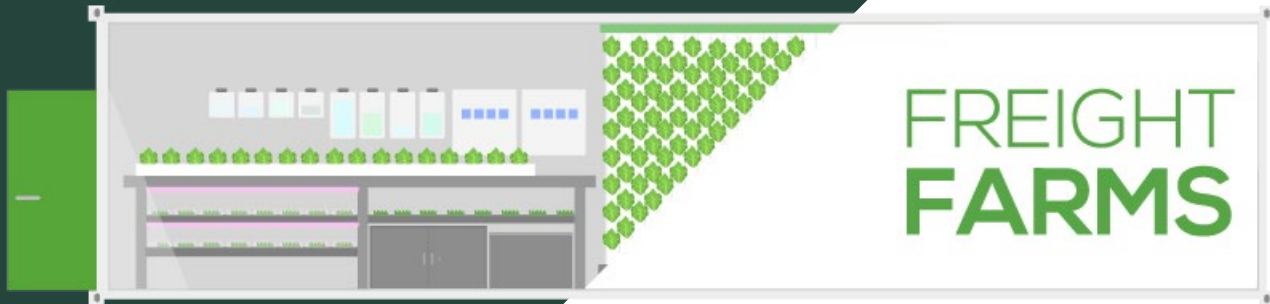
A fully assembled, vertical hydroponic farming system built inside a 40-ft. shipping container.

The LGM™ is capable of growing lettuces, herbs, and hearty greens at commercial scale in any climate or location. It enables any individual, community, or organization to grow fresh produce year-round.



Farm-in-a-box

The LGM™ is outfitted with all the tools needed for high-volume, consistent harvests. With innovative climate control technology and growing equipment, the perfect environment is achievable 365 days a year, regardless of geographic location.



LEAFY GREEN MACHINE FEATURES

Insulated Container

Three inches of insulation protects plants from harsh weather conditions, allowing farm to stay operational 365 days a year.

Nutrient-Rich Water

A closed-loop hydroponic system delivers water and the perfect nutrient mixtures directly to the plants' roots.

Vertical Growing Space

The LGM™ has 256 lightweight crop columns with up to 4,500 growing sites, allowing the 320-sq. ft. container to produce 2-4 tons of produce annually.

Temperature Control

Environmental sensors constantly measure temperature and automatically correct unwanted changes to maintain the optimum temperature.

High Efficiency LED Lights

LEDs provide seedlings and mature plants with 18 hours of optimal light wavelengths. This encourages plants to grow at an accelerated rate.

Farmhand™ Automation

The farmhand® platform allows farmers to automate functions using real-time data from sensors and in-farm cameras. Control your LGM™ remotely at your convenience.



How It Works


The Leafy Green Machine is designed for easy operation and requires no previous farming experience. With water, electricity, supplies, and some hard work, Freight Farmers can harvest up to 100 lbs. of produce a week.


2-4
tons of produce per year


52
harvests per year


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gallons of water per day

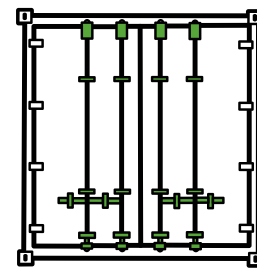
INPUT

 125 kWh / day
 Electricity

 5 gal / day
 Water

 \$300 / month
 Nutrients

 15-20 hrs / week
 Labor



 500 Full Head /week
 1,000 Mini Head /week
 Lettuce

or

 60-100 lbs /week
 Hearty Greens

or

 35-100 lbs /week
 Herbs

OUTPUT

What Can Grow

From crispy greens to delicate herbs, the LGM can grow over 180 varieties of produce at commercial scale. With controlled-environment agriculture, choose your crops according to demand, not outdoor temperatures.

LETTUCE WEEKLY YIELDS*

Crop Type	Full Heads	Pounds
Bibb	500	115 lbs
Butterhead	500	115 lbs
Leaf	500	144 lbs
Lollo Rossa	500	95 lbs
Crop Type	Mini Heads	Pounds
Bibb	1,000	115 lbs
Butterhead	1,000	115 lbs
Leaf	1,000	130 lbs
Lollo Rossa	1,000	80 lbs

LEAFY GREENS WEEKLY YIELDS*

Crop Type	Pounds
Arugula	80 lbs
Collards	70 lbs
Kale	85 lbs
Mustard Greens	110 lbs
Orach	50 lbs
Pac Choi	45 lbs
Radicchio	50 lbs
Spinach	23 lbs
Swiss Chard	32 lbs
Watercress	23 lbs

HERBS WEEKLY YIELDS*

Crop Type	Pounds
Basil	100 lbs
Cutting Celery	82 lbs
Chervil	35 lbs
Chives	40 lbs
Cilantro	50 lbs
Dill	45 lbs
Fennel Leaf	50 lbs
Marjoram	23 lbs
Mint	32 lbs
Oregano	23 lbs

**These are average yields based on single crop production.*





Start Growing Today

Here's everything you need to get growing with the Leafy Green Machine™.



Site

You'll need a 50 x 10 ft. plot per Leafy Green Machine. Select level ground with a maximum 3% grade and utilities access nearby.



Water

You may hire a licensed plumber to hard-plumb the water supply. We recommend insulated pipes for regions that experience freezing



Electricity

The LGM requires a 60 amp 120/240 volt single phase connection, or a 120/208 volt three phase connection.



Access

The Freight Farms logistics team can handle all details related to delivery, but the site must be accessible by crane.