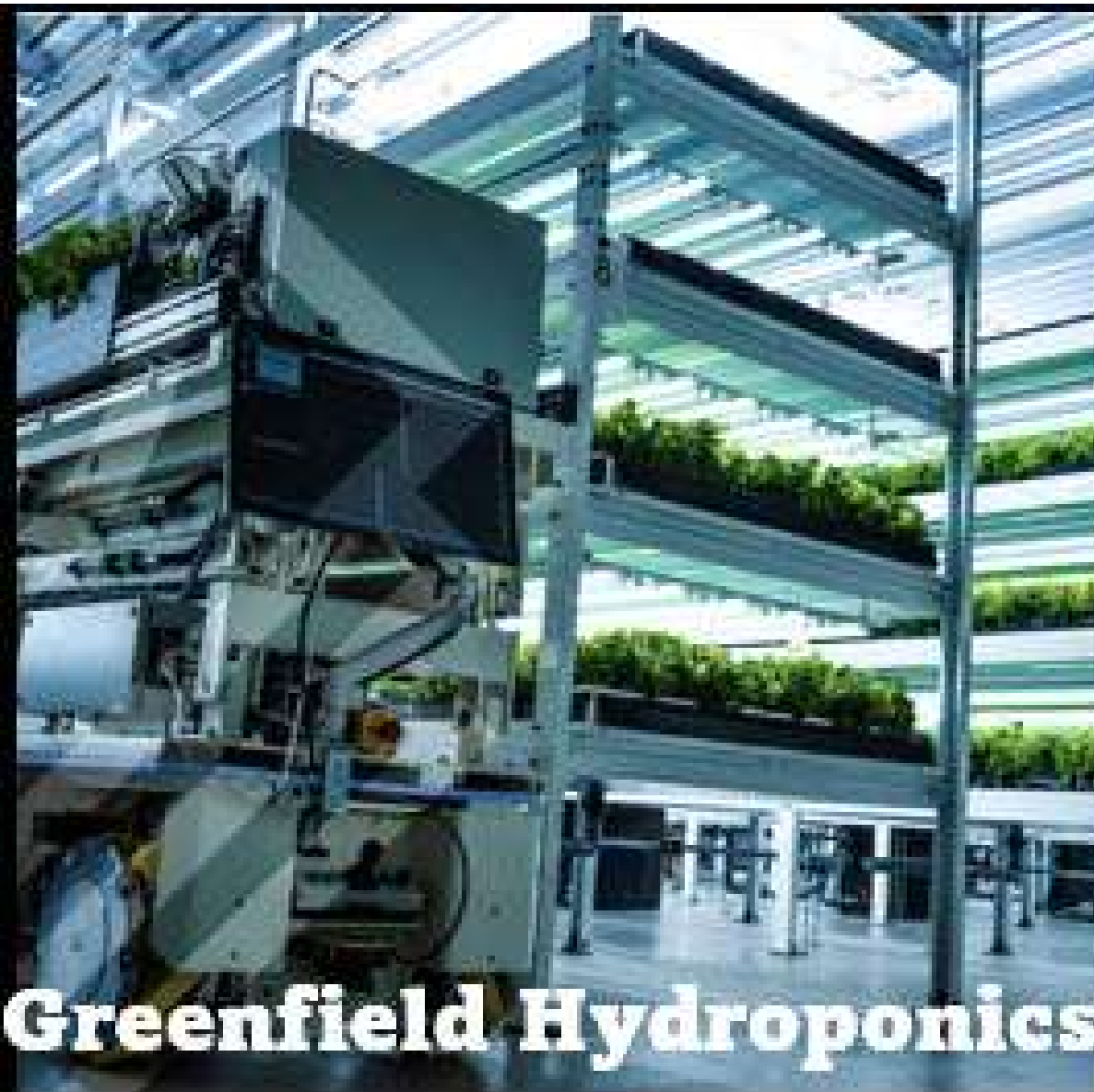




Greenfield Hydroponics



Welcome to Greenfield Hydroponics

- Controlled-environment vertical farming
- IoT-driven monitoring for water, pH, and nutrients
- Sustainable, pesticide-free produce year-round
- Complete system includes computer controls, fertigation (water & nutrients), illumination, and grow towers & channels

Greenfield Ag Smart APP

GHI's data APP remotely enables control of the cultivation in the controlled environment.



Traceability

Easy-to-use food
traceability tool



People management

Control the productivity of
your employees



Production management

Have more precise management
of your horticultural crop



Financial management

Have financial control over your
fruit and vegetable production

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Smart Growing Technology

Every crop is grown inside a fully instrumented, sensor-controlled environment.

Climate Control



Temperature & humidity
tuned automatically.

LED Lighting



Full-spectrum light on
optimized cycles.

Water Flow



Recirculating flow
monitored around the
clock.

Nutrient Dosing



Precise nutrient mix
delivered on demand.

pH & EC Levels



Sensors hold readings in
the ideal range.

Cloud Analytics



Live data streamed to the
dashboard.

Why Hydroponics?



95% Less Water

Closed-loop systems recirculate water, using a fraction of what soil farming demands.



No Pesticides

A controlled indoor environment keeps crops clean and pesticide-free.



Year-Round Yield

Harvest consistently in every season, independent of weather.



Higher Output

Vertical stacking delivers far more produce per square foot of floor space.



CULTIVATION TOWERS

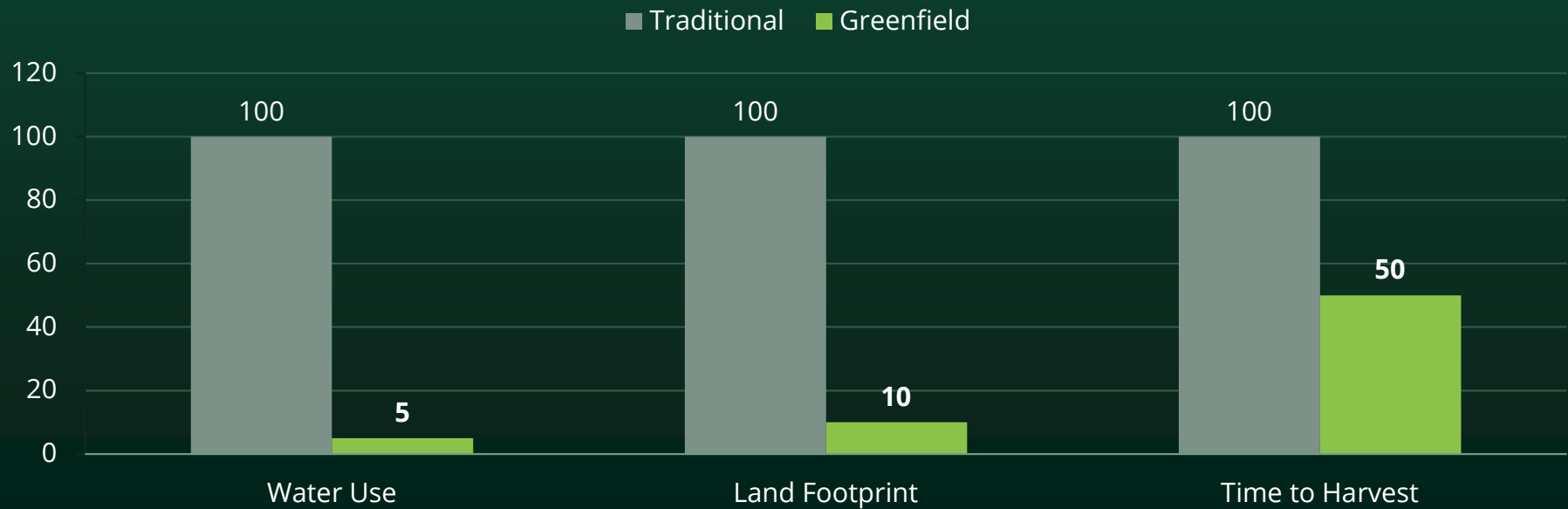


STRAWBERRIES

Our Impact vs. Traditional Farming

Indexed to traditional farming = 100 · lower is better

Resource Use & Time to Harvest



Crop Selection

A community farm grows fresh fruits, vegetables and herbs on-site — here's a sample of the crop programs.



Leafy Greens & Lettuces

Crisp salad greens harvested daily.



Fresh Herbs

Aromatic culinary herbs, cut to order.



Microgreens

Nutrient-dense shoots, ready in days.



Vine Tomatoes

Vine-ripened tomatoes, year-round.



Fresh Fruits

Seasonal fruiting crops grown on-site.



Wheatgrass Green Juice

Fresh wheatgrass for cold-pressed juice.



CABBAGE



BROCCOLI



PEPPERS



ZUCCINI



TOMATOES



CELERY



ZUCCINI / COURGETTE



MELONS

1

WHAT CAN WE GROW IN THE TOWERS?

Fruit and Vegetables

Amaranth (vegetable type)

Arugula

Bayam

Beans: Lima, Bush, Pole, Shell, Fava, Green

Broccoli

Broccoli Raab

Brussels Sprouts

Cabbage & Chinese Cabbage

Cauliflower

Chard, all types

Chicory

Collards

Cucumbers

Cress

Dandelion, Italian

Eggplant, European & Asian

Endive

Escarole

Garbanzo Beans

Courds, edible & ornamental

Kale

Kinh Giol

Kohlrabi

Komatsuna

Leeks

Lettuce, all types

Mesclun varieties

Melons, all types

Misome

Mizuna

Mustard Greens

Ngo Fai

Okra

Pak Choy

Peas, all types

Peppers, all types

Radicchio

Sorrel

Spinach

Squash, all types

Strawberries

Tomatoes, all types







TOMATOES

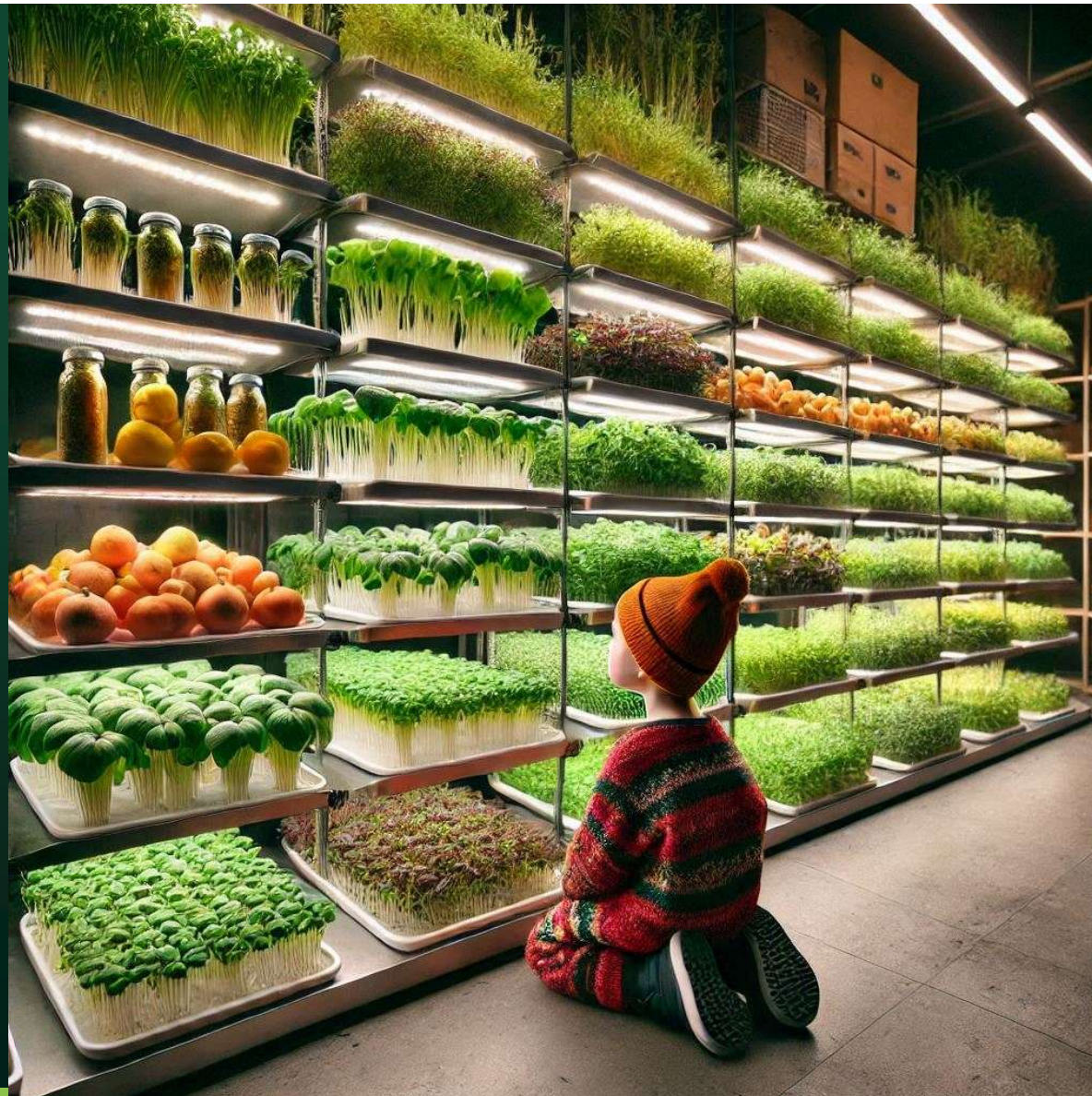
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WHAT CAN WE GROW IN THE TOWERS?

Herbs

Angelica	Echinacea (Coneflower)	Nettle
Anise Hyssop	Epazote	Oregano
Basil, all types	Feverfew	Parsley (leafy types only)
Bee Balm	Flax	<u>Passion Flower</u>
Borage	Garlic Chives	Pleurisy Root
Calendula	Goldenseal	Pyrethrum
Catmint	Hyssop	Rosemary
Catnip	Lavender	Rue
Chamomile	Leaf Fennel	Sage
Chervil	Lemon Balm	Salad Burnet
Chives	Lemon Grass	Saltwort
Cilantro (Coriander) & Culantro	Lovage	Savory
Citrus Basil	Marjoram	Shiso
Cumin	Mexican Mint Marigold	Stevia
Cutting Celery	Mibura	Thyme
Dandelion	Milk Thistle	Valerian Wormwood
Dill	Mint, all varieties	





1

WHAT CAN WE GROW IN THE TOWERS?

Flowers

Edible

Calendula
 Carthamus
Dainthus
 Hyacinth Bean
 Marigolds
 Monarda
 Nasturtiums
 Pansies
 Salvia
 Scarlet Runner Bean
 Sunflowers (warf varieties only)
 Violas



Ornamental

Ageratum	Celosia	Impatiens	Rudbeckia
Agrostemma	Coleus	Kale, ornamental	<u>Sanvitalia</u>
Ammi	Cosmos	Morning Glory	Scabiosa
Amaranth, globe	<u>Craspedia</u>	Nigella	Snapdragon
Amaranthus	Datura	Petunia	Statice
Artemisia	<u>Delphinium</u>	Phlox	Stock
Aster	Digitalis	Poppy	Strawflower
Bells of Ireland	Eucalyptus	Polygonum	Sweet Peas
Bupleurum	<u>Eurphobia</u>	Ptilotus	Thunbergia
Cardoon	Forget Me Not	Safflower	Verbena
Centaurea	Hibiscus	<u>Salpiglossis</u>	Yarrow
			Zinnia

Let's Grow Together

Bringing fresh, local, pesticide-free produce to your community — every day of the year.



www.greenfieldhydroponics.com



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