







ARGYLE, NY ZONE 4

- Land purchased in 1988-60 Acres
- Rent Neighbors 120 Acres



2022 PRODUCTION

- 3 Acres Mixed Diverse Vegetables
- ♦ ½ Acre Large Fruits
- 1/4 Acre Small Fruits
- 3-4 Acres CoverCrops
- Hay fields used by Beefalo farmer
- CNG certified



2022 MARKETING

- -For 34 years did 90%+ at Farmers Markets
- -Year-round growing since 2006 (1992)
- -2020 2 Farmers Markets & Online Store
- -2022- 75% Online store (40% resold goods) 20% Wholesale and 5% Farmers'Mkt





HIGH TUNNEL CELERY PRODUCTION

- January-Seed
- March to tunnel
- Harvest Apr-Jan



GREENHOUSE SEEDINGS



SEEDS

GOOD SEEDS ARE CRITICAL TO SUCCESS QUALITY SEEDS DISEASE FREE





GRENHOUSE

SEEDS

CONSIDER HOT WATER TREATING





GREENHOUSE

Seeding Tips

Use white China Marker on trays



GREENHOUSE

Organic Soil Mix-Cornell:

- 2 bales horticultural grade peat moss (3.8 cu ft)
- 1 bag of perlite (21# bag course)
- 6# organic fertilizer 5-3-4 (not animal based)
- 2# lime
- *Test soil mix for pH and salts and nutrients
- *Test greenhouse water for pH
- *Work with professionals if issues



GREENHOUSE

SEED STRIPS, SPEEDLING, WINSTRIPS

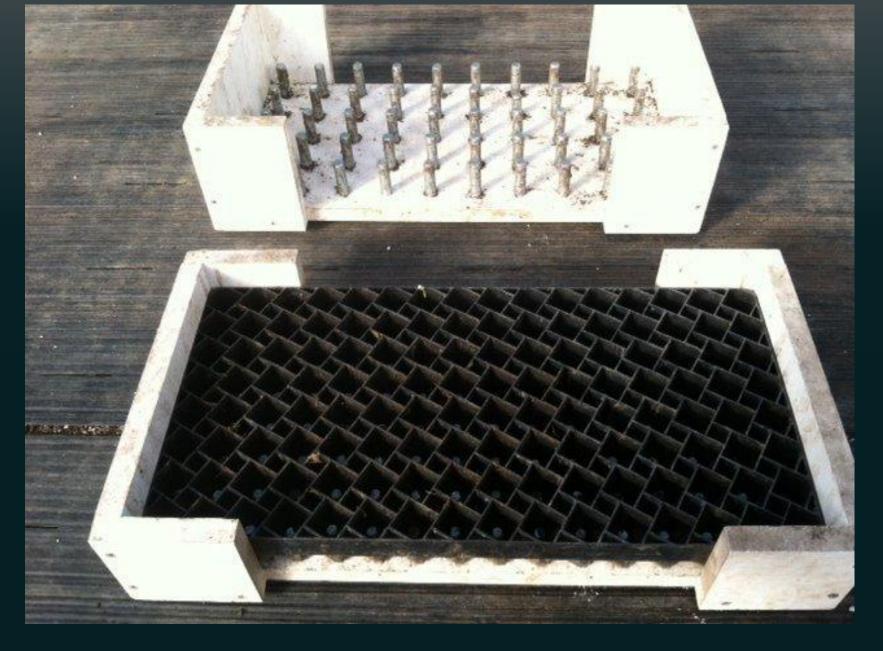


Seed 1 seed per cell into 128 Winstrip



Trays

SEEDING TRAYS



POPPERS—DIFFERENT SIZES--HOMEMADE

- Diseases-Root Shield and Root Shield Plus
- Actinovate-Fusarium
- Biological Stimulants
- Humic Acids





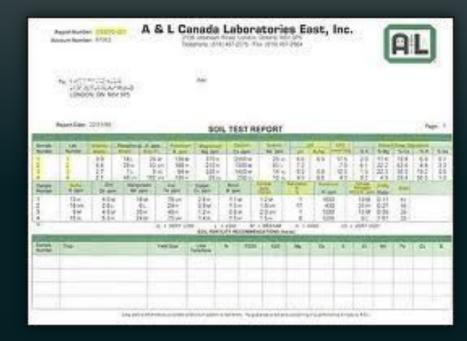
TRANSPLANT SOLUTIONS

Water in

GREENHOUSE CARE

Soil Tests

- Amend as needed or get custom fertilizers (2 opinions)
- Know how to calculate what is needed
- Know crop needs (Knott's Handbook)
- Soil Test as Soil Media maybe for high tunnels



- Each Lab is individual
- Logan-extra micronutrients
- Extension-Resource

SOIL HEALTH



Peat Moss

16 bales per tunnel or 2 per bed

BED PREP

March-Tear out winter greens crop in one bed



OUR FERTILIZER

- NO ANIMAL PRODUCTS
- Use plant-based for tunnels
- Nitrogen: Peanut Meal, Soybean Meal, Feather Meal
- CELERY: 120# N
- Boron optimum



Peat Moss

Rotary Plow



BED FORMING



BED FORMING

Raking out



ALTERNATIVE – ADD PEAT MOSS & FERTILIZER THEN TILL & PLANT



RE-MAKE BEDS

PREPARE TRANSPLANT BEDS



- 7 BEDS IN 30' WIDE TUNNEL
- 8 BEDS IN 34' WIDE TUNNEL
- ROTOTILL AND FORM BEDS with Rotary Plow
- BEDS ABOUT 3 FT WIDE
- LAY DRIP TUBES
- LAY BIOTELLO BY HAND TO SAVE SPACE

ROCK DOWN BIOTELLO



Waterwheel axle for marking

PLANT TRANSPLANTS



- 3 Rows per bed
- 12" in row...Some do 10"

Celery- March

ADD STRAW TO PATHS



- Paths weed-free
- Cushion on knees
- Clean & neat
- Organic matter
- Row-cover stays cleaner
- Install via buckets or plastic
- Note-tape measure

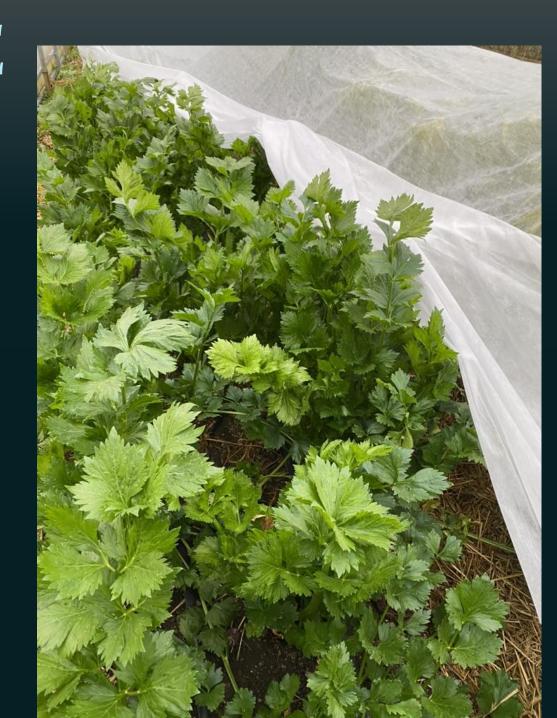
HARVEST STARTS APRIL OR MAY

HARVEST OUTSIDE STALKS ONLY



FERTILIZE

Weekly summer fertilizing program with **Enviro 5-0-20** 2 cups per tunnel per week High fertility needs



DISEASES INSECTS

Minor Issues

- -Some virus but minimal
- -Rogue out plants
- -Aphids-rarely
- -Slugs Sluggo



HARVEST TILL DEC-JAN **OFF SAME BED 135' LONG 33" WIDE**



Bunches
.5 to .8 #
Mostly retail
\$3-\$4



Plants can be huge

- -Kelvin (Tall)
- -Tango



Tunnel transitions to winter crops



November + use minimal heat at night with row-covers to continue harvests

- -Thermostat
- -Probe



Final harvest

- -Too cold
- -Store in crates in root cellar
- -3 to 5 weeks



ECONOMICS = PROFIT

- One bed 88'x3' produced 1300# of celery May 1 to Sep 1
- Harvest 50-90 bunches per week
- Value at \$6 per pound is \$7800 or \$6500 at \$5 per pound
- Extrapolated over \$1 million per acre!!

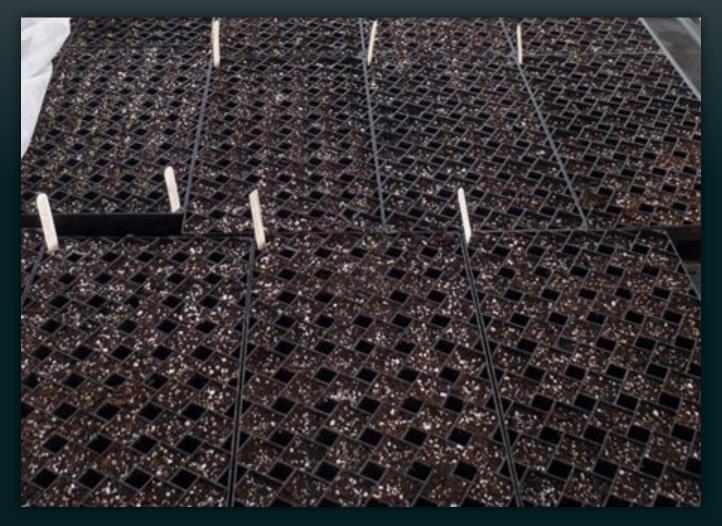


AMAZING HIGH VALUE CROP!!

GREENHOUSE CELERY PRODUCTION

- July-Seed
- Transplant up
- Harvest Jan-May





Seed 1 seed per cell into 128 Winstrip
Trays in mid to late July

TRANSPLANT UP



- Pot up to 4" pots
- Keep fertilityup

RADIANT HEATED BENCHES



UTILIZE ALL LATE FALL & WINTER FOR GROWTH

TRANSPLANT UP



- Final Pot up to quart pots
- Keep fertilityup
- Sress-X &
 Chilean in dosatron

HARVEST



- Outside stalks only
- Keep well watered
- Scout often for insects

PESTS

- Aphids: Mpede
- Fungus gnats:
 Beneficial
 nematodes Arbic
 - weekly through dosatron
- Yellow sticky traps



HARVEST

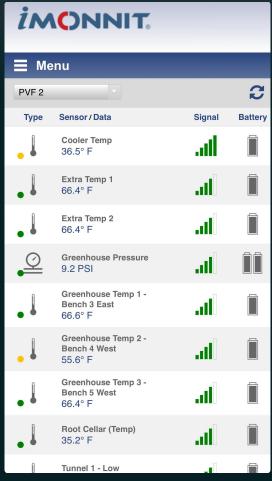
- Bunches of Celery Sprigs!
- Popular & nice flavor
- January till May when tunnel ready
- \$2.50 to \$3 per bunch



TECHNOLOGY AT WORK WITH EACH CROP WE GROW







Temp Monitoring & Alarms- prevents Disasters

THANKS AND HAVE A GREAT WINTER & 2023 SEASON!





- •Questions? Email us at : arnold.pvf@gmail.com
- Call us! 518-955-6922
- Come visit anytime! Food and beds available always!
- Come be an intern or work on our farm for any time frame!