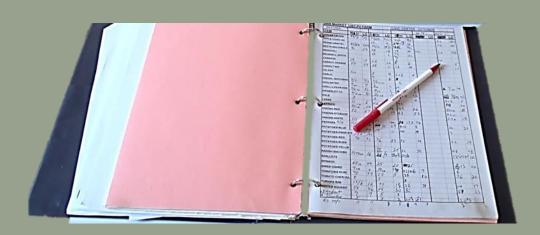






OWe put the value on one
level (per acre)

oCan only tell the value if
we have records





VALUE OF CROPS

WHY is RECORD Keeping important?

- OValidation of improvements
- OBusiness decisions
- OCrop decisions
- OReduces production waste

Acron miana aggirato

KEEPING

- Simple spreadsheets or Ipad or Iphone:
- Seeding Records Field space/rows
 - Harvest Records Total Crops Sold
- Timing Records for

RECORDS

- Very Important
- Simple notebook
- Note date, where seeded, what was seeded, how much, and seeder/plate #
- Experiment with trial varieties every year



SEEDING RECORDS

SEEDING RECORDS

- SPECIFIC FOR EACH FARM
- FIELD LAYOUTS

- CROP ROTATION RECORDS
- EFFICIENCY OF SEEDING





CROP/SEEDING F	2003								
Bean, Green	Provider	North Fld	A- May 1s	t 800ft the	en 400ft ev	ery other	week til Au	g 1	
Bean, Yellow	Indy Gold	North Fld	North Fld A-May 1st 800ft then 400ft every other week til Aug 1						
Beet, Red	Kestrel	StrodeA-	April 1st 12	200ft then	800ft every	other we	eek til July	15	
Peas, Sugar Snap	Sugar Ann	Main A-April 1st 800ft then 800ft every other week total 3 plantings							
Radish	Easter Egg	Main A-April 1st 800ft then 800ft April 15							
Spinach	Space	Main B-April 15th 400ft then 400ft EOW til 1200ft on 8-1							
SEEDING RECOR	DS	2003							
FIELD SEEDINGS		DATE:	1-May	DATE:	15-May	DATE:	2-Jun		
& TRANSPLANTS		Place	Quantity	Place	Quantity	Place	Quantity		
Bean, Green	Provider					NO-A1	800ft		
Bean, Yellow	Indy Gold					NO-A1	800ft		
Beet, Red	Kestrel	ST-A1	1200ft	ST-A2	800ft	ST-A3	800ft		
Peas, Sugar Snap	Sugar Ann	MN-A1	800ft	MN-A2	800ft	MN-A3	800ft		
Radish	Easter Egg	MN-A8	800ft	MN-A7	800ft				
Spinach	Space			MN-B1	400ft	MN-B2	400ft		

					11 1				
LIN				<u> </u>					
CROP	VARIETY	4/1	4/ 14	4/ 28	5/ 12	5/ 28	6/ 11	6/ 25	

TOTAL

8/7

7/9

Provider

Indy

Gold

Kestrel

Sugar

Easter

Space

Egg

Ann

Bean,

Green

Yellow

Bean

Beet,

Red

Pea,

Sugar

Snap

Radish

Spinach



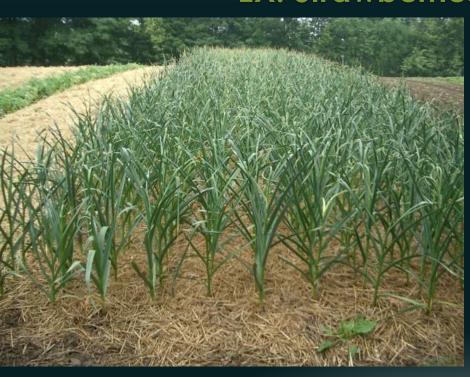
BED SYSTEMS

The standard bed size for us is 4 rows 14" apart with 2' paths. Each bed is 70" wide (using ½ paths) or 5.5 ft by 100' = 550 square feet

NON-BED AREAS

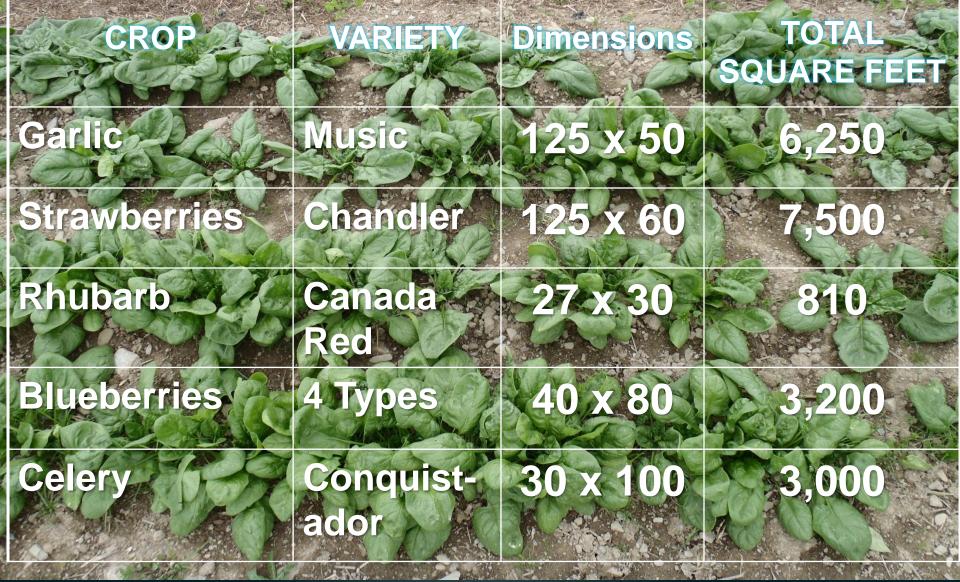
Calculate area by measuring length times width

EX: Strawberries, Squash, Garlic





CALCULATING SQUARE FOOTAGE

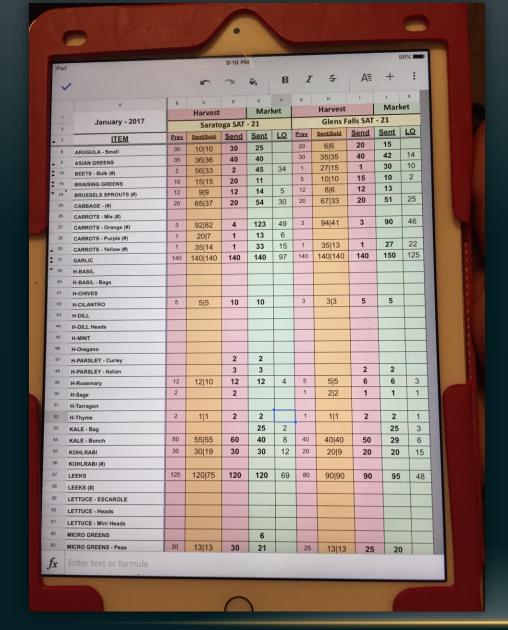


SQUARE FOOTAGE OF NON-BED CROPS

HARVESTRECORDS= (SIMPLENOTEBOOK)

HARVEST LIS		EMBE			SAR		GF	
	SAR		GF			LO	The second second	LO
ITEM	12TH	LO	12TH	LO	19TH	LU	19111	hert
APPLE CIDER							-	
ARUGULA								
ASIAN GREENS						-		
P BEETS-BLLK	63	2						
BROCCOLI	20							
BROCCOLI RAMB	440	-	20					
N CABBAGE RED		1				- 1		
CABBAGE WHITE	20 15	-						
CARROT-ORANGE								
CARROTANOWFURP	3/1	18	1/82					
CAUL-CHEDWHITE	121		Mark .					
- CELERIAC	1							
GARLIC	100	10	00					
HICHANTROMINT								
NPARSLEY CI								
PHROSEMARY								
KILE	20	10		133				
KOHLRABI	1	19						
LEEKS	75	2.5	-					
LETTUCE ESCAPOLE	300 pe	780						
MERCLUN	20	15						
POTATO ADK RED								=
POTATO-BLUE	1.5	1 %						
POTATO ING RESIYEL	1	1						
POTATO-RED	2							
POTATO-HUSSETT	2	1/2						
POTATO-YELLW	2	1						
RACISH	1	11						
FUTABAGA		1 9						
ICALLION MALLOT		15.						
The state of the s	1	11						
	100	35		II II TO SERVICE		1		-1
The second secon	2	11						
URNIP RO-BIOHBLE	3.5	5-1						
SUR MERCHANTS		12						-
INTER SQUASH						1		-
MI-CH SOCIASM								
		1				1		
And the second				1		1		- 4

009 MARKET LI	STPVF	ARM	SARATOGA SATDEC						
	5TH	LO	12TH	LO	19TH	L.O	LO LO		
APPLE CIDER	- Committee		-						
ARUGULA									
ASIAN GREENS									
BEETS-BULK	53	7	574				THE REAL PROPERTY.	١.	
BROCCOLI	36		44					1	
BROCCOLI RAAB			1000				V = 10	1	
BRUS SPROUTS/ TOPS	40	7	40					1	
CABBAGE-RED			15					1	
CABBAGE-WHITE	27		35					-	
CARROT-ORANGE	62		76	W33				-1	
CARROT-RNBWIPURP	30/25	079	29/27	W-32				+	
CAUL-CHED/WHITE	5%	27	16					4	
CELERIAC		2.6	133		1			4	
GARLIC	100	53	150		100		1	н	
H/CILANTROIMINT	17/8	216	216					-1	
HIPARSLEY CA	8/2							-	
H/ROSEMARY	6	6	300					-	
KALE	15							8	
KOHLRABI	20	132	133					-	
LEEKS	24	6	75					-	
LETTUCE/ESCAROLE	259/20		Litera				1		
MESCLUN	25		17		1				
POTATO-ADK RED			- marin		-				
POTATO-BLUE	30		35						
POTATO-FNG RED/YE	1 29	21	3.7						
POTATO-RED	25	14	83						
POTATO-RUSSETT	9.3		37				1		
POTATO-YELLW	40		70						
RADISH	25		260						
RUTABAGA	31		8						
SCALLION	1.75		20						
SHALLOT	300		26		-				
SPINACH	24		125						
SWEET POTATO	155		57						
SWISS CHARD	2.8		37						
TURNIP RD-enchess			3.4						
TURNIP WH-INCHIS	8.K								
WINTER SQUASH	785		3.04						
X	1								
x x									
X					-				
2									



Columns:

- What you want to harvest
- What you harvested
- What was Leftover

Google Sheets on Ipad!

Weigh asWe go

Keeprecords!



WINTER HARVESTING

FROM THE IPAD:

- CALCULATES THE TOTAL QUANTITY SOLD
- CALCULATE THE TOTAL DOLLAR VALUE
 SOLD

• THEN....USE THAT DATA TO SEE IF IT FITS OUR BASIC FARM RULE FOR CROP VIABILITY....

\$30,000 per acre rule++

EXTRAPOLATING OUT THE GROSS VALUE PER ACRE:

Example: SALAD MIX

Income = 4621 bags@\$4/bag = \$18,484 Tunnel Space = 1,980 square feet

Acres planted = 1,980/43,560 = .045 acre Extrapolation:

\$18,484/.045 = \$406,648 per acre

\$30,000 per acre rule++

SPREADSHET FOR EFFICIENCY!

	A	В	С	D	E	F
CROP	SQU FT GROWN	ACRES	QUANTITY SOLD	PRICE	TOTAL VALUE	\$ VALUE PER ACRE
		A/43560			CXD	E/B
Arug.	660	.015	1616	2.50	\$4040	\$266,64
Kale	110	015	1007	2.00	¢2201	¢017.00

 Kale
 660
 .015
 1097
 3.00
 \$3291
 \$217,20

 Swiss Chard
 1320
 .030
 2480
 3.00
 \$7440
 \$245,52

COULD ALSO PUT VALUES ON SOUARE FOOT BASIS IF WANTED:

- Field Space = 1980 square feet
- Value per square foot = \$18,484/1980 = \$9.36
- With this type of calculation, to make our minimum of \$30,000 per acre, the crop must gross at least \$.69 per square foot So, Does production & Labor matter?

\$30,000 per acre rule++

Market Prep is Our Biggest Expense

- TO MANAGE IT, WE USE A SYSTEM TO EVALUATE THE WORKERS AND OUR TECHNIQUES TO SEE HOW WE CAN IMPROVE PROFIT
- WE WANT TO KNOW THE TOTAL TIME IT TAKES
 THE EMPLOYEES TO HARVEST, WASH, AND
 PACK AN ITEM TO BE SOLD AT THE MARKET.
- WE USE A SIMPLE TIMING RECORD SHEET TO FIGURE THIS OUT...DONE ONLY A FEW TIMES EACH YEAR.

 We want each worker to be earning us a minimum of \$40 per hour while working on the harvest days!

- EXAMPLE: BEANS
- AN AVERAGE PICKER CAN PICK, WASH & PACK 25 POUNDS PER HOUR.
- AT \$3.50 PER POUND, THE VALUE IS \$87.50 PER HOUR AND FALLS WITHIN OUR LIMITS FOR PROFITABILITY.

Data gathered only 2 or 3 times each year during harvest day to get data on all crops									
<u>ITEM</u>	START	END	QUANTITY	JOB DESCRIPTION	TOTAL	TOTAL			
				INITIALS	VALUE	TIME			
BASIL-BAG @\$7	3:15	3:45	12 bags	pick/bag SH & TJ	\$84	1			
BEANS @ \$4/#	10:00	11:15	30#	pick TJ					
	10:00	11:15	38#	pick PA					
	11:15	11:30	68# total	wash,crate HR	\$272	2.75			
LETTUCE @ \$2.50	7:00	8:30	150 Heads	Pick, wash,crate-PA	\$375	1.5			
BLUEBERRY @ 3.50	9:10 AM	10:40 AM	30 (1/2pts)	Picking & to cooler TJ	\$105	1.5			
RASPBERRY @3.50	9:30	11:00	19 (1/2 pts)	Picking & to cooler PJ	\$66.50	1.5			
All times for picking,	washing	,crating, b	ounching, et	c. would be totalled ther	n divided i	nto total			
Example: Basil @\$7:	=\$84 wor	th readied	d in 1 hour (2 workers 1/2 hour each), therefor	e \$84/hou			
Example: Beans Tota	al of 68#	readied in	2.75 hours;	Value @\$4/pound=\$272	2; 272/2.75=	\$99			
Example: Blueberrie	Example: Blueberries @ \$3.50 =\$105 worth picked in 1 1/2 hours, therefore \$70/hour								
				ed in 1 1/2 hours, therefo					
Example: Lettuce To	otal was	150 heads	readied in	1.5 hours by Paul only=\$	375; \$375/ <i>′</i>	1.5hr=\$25			

WHAT WE LEARN FROM THIS

- Who are the best workers for the task
- What crop is costing us the most to prepare THEN:
- What can we change
- Who is chosen for future jobs
- What equipment is needed to improve

- Keep simple records or hire a worker to keep them if necessary!
- Review your records and make educated decisions based on them
- Know what crops make you money but...
- Grow one just for yourself!
- Don't be afraid to change systems to make a crop profitable
- Make the farm profitable, then it will be enjoyable

RECORD KEEPING SUMMARY



Value=\$100,000 per acre or \$2.30 per

Worksheet



Which crop makes you the most money on YOUR farm per acre???

Use your records to

i mporata



YIELD DATA



DECEMBER TO APRIL

- Kale
- Swiss chard
- •Spinach
- Asian Greens
- Lettuce Mix
- Arugula
- Turnips
- Herbs

Increased weekly sales by \$450 in 08-09



FIRST WINTER 2007 Plastic on in January 11 Rows of Spinach Gross over \$10,000 Just one crop!

SPINACH



2009-10 Gross \$16,000 and \$150,000 per acre 2010-11 Winter 9 Variety Trial





SWISS CHARD: 800 square feet yielded \$4998 for one winter season

- Perfecting the systems
- More per square foot
- Yielded \$1630per week
- Marketsbuilding everyyear



Highest Winter Market Sales April 4=\$5345 and Tunnel Greens=\$2866

Lowest Winter Market Sales Feb 4=\$3864 and Tunnel Greens=\$1970

Average Tunnel
Sales
Per week from
Nov 12 to June 1
is \$1732



TOTALS 2011-12

- •Asian Greens 11/12 to 5/19 \$4,116
- •Arugula 11/19 to 4/28 \$4,039
- •Spinach 11/25 to 4/3 \$12,858
- •Swiss Chard 12/17 to 6/20 \$7,440
- •Salad Mix 1/1 to 6/1 \$18,484
- •Kale 1/28 to 5/12 \$3,291

TOTAL: \$50,228 Gross 2 Tunnels-6 Crops!



TOTALS 2011-12

Averaged approximately 120 pounds of greens weekly out of the three tunnels



TOTALS 2012-13

Timing critical...Cloudiness Eliot Coleman-Frozen Ground



Lower Yields but still profitable



2013-14 CHALLENGES

More sun....Warm fall & early winter Changeable weather January 5th



2015-16 NEW CHALLENGES

One week harvested 272# of greens

Total value: \$2088

3 Tunnels-7 Crops



2015-16 HARVESTS

Fairly sunny, moderate temperatures, some swings, and the star producers were salad mix, Asian greens & kale.

- Average greens
 production has
 been about 210#
 per week with ave
 value \$2000
- Sales have been50% greens and50% storage crops



2016-17 SEASON

Very cold, lots of salad mix loss, low on chard, but star producers were salad mix, Asian greens & kale. Learned that the

heaters are valuable.

Finach—Harvested 882# of spinach Dec 23 to April 28. Value was \$11,962 so \$630 per week.



2017-18 SEASON

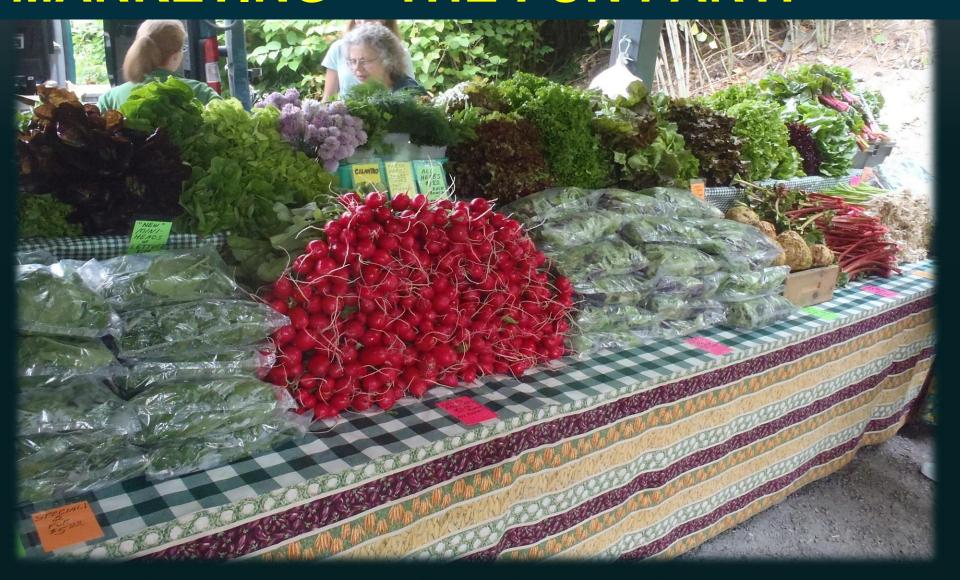
Very cold in late Oct, Nov, Dec, and very cloudy. Spinach minimal growth, cut salad mix earliest ever but regrowth amazingly good, Kale and Asian Greens, star producers.

- Spinach—Worse ever
- Always learning & challenged



2018-19 **SEASON**

MARKETING - THE FUN PART!



Must be a Better Marketer than Grower

What Farmers Markets Mean to Us

- Year-round income for stability
- Year-round workers
- Providing year-round local produce to our customers
- Work less in the summer-Vacations!
- Have fun farming in all seasons—what we enjoy!





FARMERS MARKET BUILDINGS

1998 Saratoga building went up

2005 Glens Falls building went up





FEEDING FOLKS EVERY WEEK OF THE YEAR







Lots to learn!

22 years ago!



- Silver Tarps
- White Tarp

Red and White Awning so we stand out



Diversity
Is Our Key for
Marketing...
One stop shopping!





DRESS UP THE TABLE!



WHAT IT TAKES..... 4 TO 6 MAN-HOURS!

Enclosed Vehicle
Necessary for Winter
Markets

Load just before market





Back-stock available...and lots of trials!

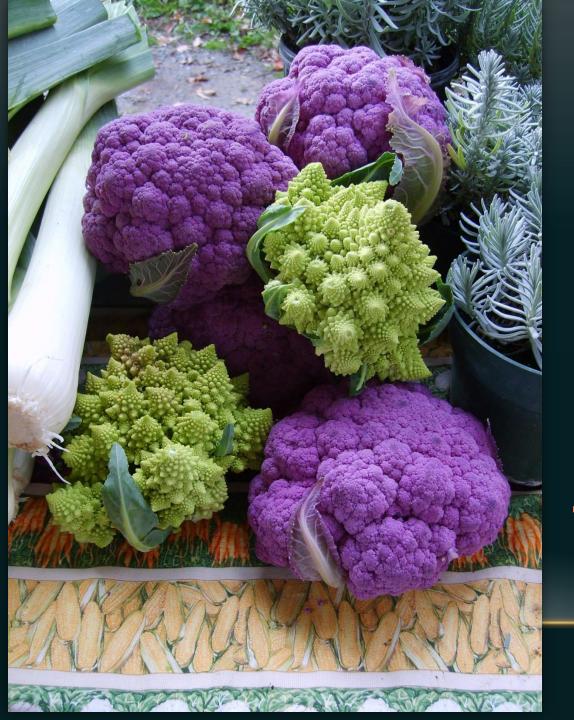


DISPLAYS ARE EVERYTHING!



Front & Center to move out!

Change and move displays!



Color catches their eye....

Flavor brings them back....





Customers Buy with Their Eyes!

Diversity of Lettuce...mini and full size heads.



WINTER MARKETS NOVEMBER 1ST TO MAY 1ST

Can be inside or outside after November 1st... weather dependent





SATURDAY BEFORE THANKSGIVING

HIGHEST
SALES DAY OF
THE YEAR!!!





NOVEMBER 22ND 37 DIFFERENT ITEMS FOR SALE!



Special events and press releases
Cooking demos with market products

2 Winter Markets: Range \$3000-\$4500/Week



DIVERSITY AND BIG DISPLAYS!

TAKEN IN MID - JANUARY!



Feel good about serving customers abundant, healthy produce all winter!



EMPLOYEE HANDBOOK FOR FARMERS' MARKET

Customers are always right & everything is guaranteed 100%

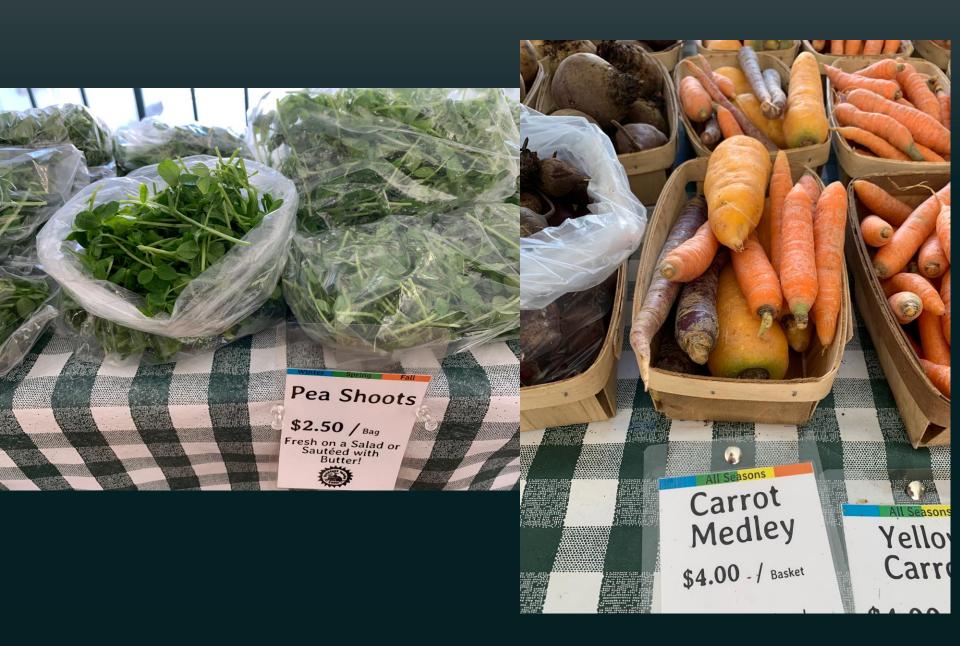


SIGNS AND INFORMATION IMPORTANT
Homemade wooden bins fit in our Buckhorn crates



NEW DESIGN.....FINALLY 2019

- Seasons on top
- Logo
- Give information





High Quality and Good Preparation



Give recipes for unusual items
Cut up samples to try like Kohlrabi

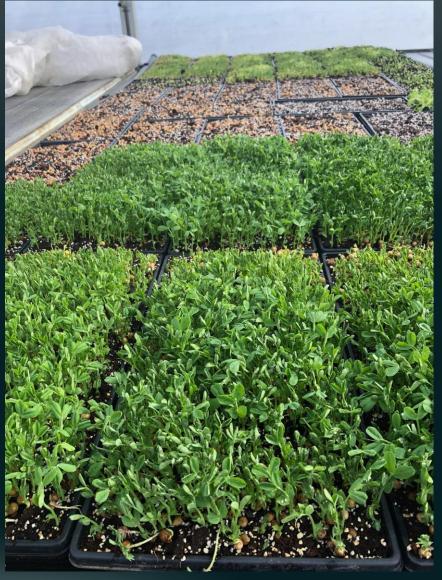


"Large-Leafed Salad Mix" not Asian Greens



Mixed Kale Bunches Very Popular





Adding new products to keep customers HAPPY!

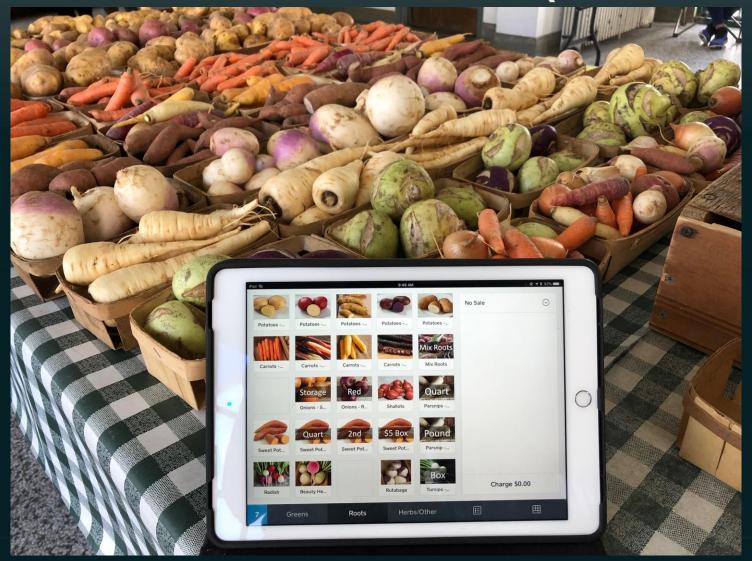
WIC, FOOD STAMPS (EBT) & TOKENS For Extra Income





CUSTOMER EMAIL NEWSLETTER

USE IPAD AT MARKETS (SQUARE)



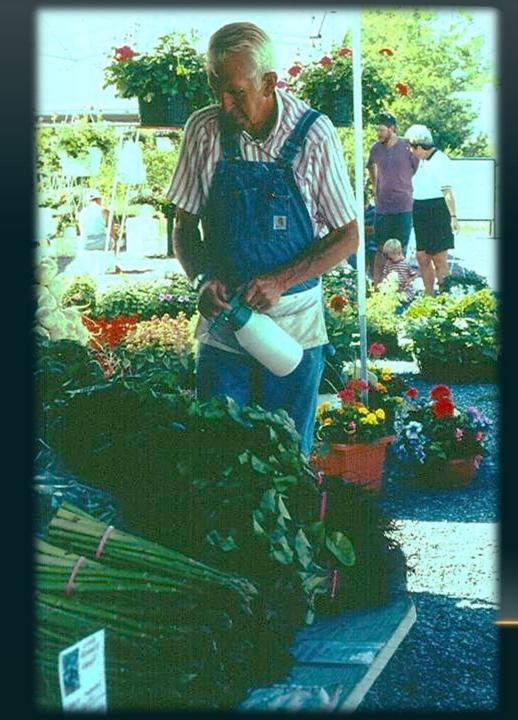
Benefit: Tells sales during/right after, ave sales, # cust

USE SQUARE FOR CREDIT CARD SALES





- Cost of doing business
 - Give extra money
 - No fees to customers



Summary for marketing essentials:

- Misting
- Quality control
- •Pile High
- Color coordinate
- Diversity
- Back stock
- Smile
- •110%
- Guarantee
- •Learn names
- Take orders
- Tarp
- Signage
- Recipes
- Knowledge



Family member present





Serving our friends every week and enjoying the farming lifestyle!

SUMMARY OF TIPS & TRICKS FOR PROFIT

- LEARN HOW TO KEEP THE GOBS
- VISIT FARMS
- GO TO CONFERENCES
- READ....READ....READ
- TRY NEW THINGS
- NETWORK



HOW WE GET OUR ELECTRICITY FOR OUR WHOLE FARM....

SOLAR, SOLAR & MORE SOLAR! 2007-10kW 2012-19kW

NETMETERED



NO BETTER WAY OF LIFE: RAISING FOOD YEAR-ROUND AND RAISING CHILDREN ON THE GREATEST PLACE ON GOD'S EARTH: A FARM!!



THANKS AND HAVE A GREAT WINTER & 2019 SEASON!





- •Questions? Email us at : arnold.pvf@gmail.com
- Call us! 518-638-6501
- •Come visit anytime! Food and beds available always!
- •Come be an intern or work on our farm for any time frame!