Post-Harvest, Storage, and Marketing for Winter Profits

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February 2016 Paul & Sandy Arnold

OUR 10 KEY FACTORS TO REACHING OUR GOAL OF PROFITABLE FARMING INEXPENSIVE START-UP WITH SMART EXPENDITURES GOOD BUSINESS MANAGEMENT & RECORD KEEPING LABOR EFFICIENCIES TO MAXIMIZE PROFITS **EFFICIENT PRODUCTION SYSTEMS & SOIL MANAGEMENT MULCHING AND WEED CONTROL** PEST AND DISEASE MANAGEMENT SEASON EXTENSION-ROWCOVERS & FIELDHOUSES

- YEAR-ROUND HIGH TUNNEL PRODUCTION
- POST-HARVEST HANDLING AND CROP STORAGE
- CREATIVE MARKETING

Post-Harvest & Storage for Year-Round Sales

GROW QUALITY CROPS TO HAVE QUALITY PRODUCTS IN STORAGE



....AND QUALITY COMING OUT OF STORAGE

HARVEST AT PROPER TIME





Netting for Insects
3 types
Great investment
Biothrips netting for thrips, flea beetle

HIGH QUALITY AT HARVEST MEANS FASTER PROCESSING AND HIGHER POST-HARVEST QUALITY



Protek Netting 65 gram for Cabbage Moth Brussels Sprouts—no spraying & High Storage Quality



CLEAN CROPS MEAN FASTER HARVEST AND HIGHER QUALITY OF PRODUCE...

KEEP WEEDS OUT!







STORAGE

Pick the correct storage conditions for the Crop

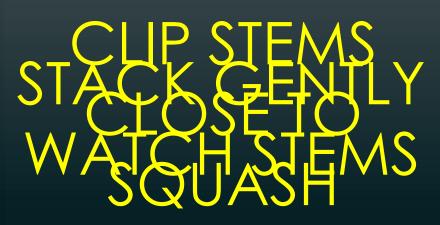
WALK-IN COOLER FOR SHORT TERM COOLING & LOW HUMIDITY STORAGE



- Winter Squash
- Sweet Potatoes
- Onions
- Garlic
- Brussels Sprouts
- Leeks
- Potatoes
- Brassicas
- Greens

CROPS FOR STORAGE







WORE M HELD
 TOREINISTORAGE
 ESSESEALD
 LOADING

WINTER SQUASH

WASH BEFORE OR AFTER??



SORT FOR 1ST & 2ND

WASHING



Find the right model of equipment for your needs

Roeters in Michigan

http://www.roetersfarmequipment.com

UNDER CUTTER BAR



• SOIL TEMP

SPACING

SOIL TYPE UNDER-CUTTER BAR



SWEET POTATOES



SWEET POTATOES

SWEET POTATOES

- PLANT SKYDD
- DEER
- HEAT

TYPAR ROWCOVER









Pay attention to details for maximum profits



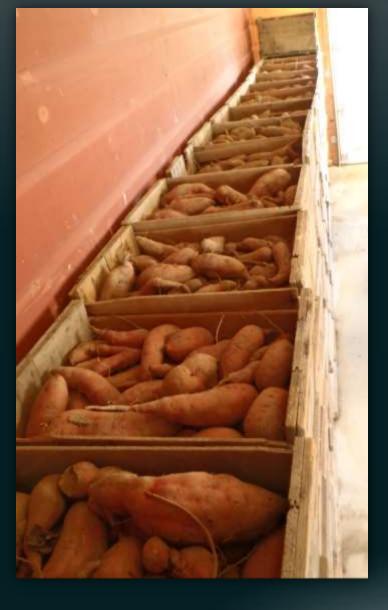
BETTER QUALITY MEANS A HIGHER PRICE

Multi-purpose always! "THE SHOP"





An insulated and heated shop Storage area for golf carts in winter Washing area in summer for TEW veg washer machine Curing/Storing area for crops



Optimum Curing for Sweet Potatoes:

- 85-90 degrees for 4-7 days at 80-90% humidity
- Longer if cooler
- Taste better with age

STORAGE AREA #3: When supply down, move to heated cooler



Optimum Curing for Winter Squash:

- INDOOR: 80-90 degrees for 7 days with ventilation
- OUTDOOR: Field cure in sun for 5-7 days-CAUTION
- Longer if cooler
- Taste better with age

Varieties vary for curing times



 Vent-less Propane Heater-Or Electric Dehumidifier Plastic Bins-Decade \$130 TEW Vegetable Washer



 Winnowed Field Cured Necks must be dried down well (at least 1 week in sun) Beware of sun scald Sorted as crated

Harvest time
New ideas
Labor saving





ALTERNATIVE

CURED IN GREENHOUSE ON RACKS or ON BENCHES



STORAGE TEMP 32 HUMIDITY 60-70% **SAME FOR SHALLOTS**

HARVEST

FORK **CAREFULLY OR UNDER CUTTER** BAR **CLIP OFF** ROOTS STACK GENTLY

GARLIC

WASH

POWER WASH VS **NO-WASH EASY TO ID SECONDS REDUCES PREP TIME**

GARLIC



RACKING

BUILD AS GARLIC COMES IN AMPLE SPACE FAN





RACKING

Alternative is in the High Tunnel Dries faster Shade cloth if needed





DRYING

EASY ACCESS READY FOR SELLING!

GARLIC



GARLIC STORAGE WITH ONIONS 32 DEGREES 60-70% HUMIDITY

MONITOR TEMPS ALARMS GREAT

WINTER STORAGE



- GREAT USE OF SECONDS
- PEEL AND PUT THROUGH
 FOOD PROCESSOR
- DEHYDRATE ABOUT 12 HRS
- GRIND MEDIUM COARSE
- BAG IN MINI-ZIPLOCK
- SELL AT \$1.50 FOR .03# (Heaping Tablespoon)
- VALUE ABOUT \$30 PER POUND
- STORE IN SEALED GLASS JARS IN COLD ROOM (35 DEGREES)

GROUND GARLIC



Dig with Fork or Under Cutter Bar Sickle or cut off some of roots & very top



PACK IN **GRAIN BAGS STORE FEB+ 32 DEGREES** 95-100% HUMIDITY LIGHT FOR GREEN WINTER LEEKS **STILL IN FIELD**

LEEKS



Equipment can make harvesting fast, fun and efficient

CARROT HARVEST

CARROT HARVEST



BREAK OFF TOPS SORT INTO GRAIN BAGS WINNOW BAGS LOAD BY VARIETY **STORE 32 DEGREES** 95-100% **HUMIDITY**



Carrot Harvester FMC Single row Bought Used Pros and Cons

CARROT HARVEST



1 ROW ΡΟΤΑΤΟ DIGGER CHECCI MAGGLI **1 BUCKET PER GRAIN BAG** LOAD BY VARIETY **GENTLE!**

POTATO HARVEST

LONG TERM STORAGE 6-8 MONTHS+

OTHER ROOT CROPS

CELERIACKOHLRABIRUTABAGA

 TRIM TOPS & ROOTS
 PACK IN GRAIN BAGS

OTHER ROOT CROPS

MEDIUM TO LONG TERM STORAGE



TURNIPS BEETS RADISHES— Small round red & winter

TRIM TOPS
PUT IN 5 GAL BUCKETS
POUR IN GRAIN BAGS



LONG TERM STORAGE 4-5 MONTHS

CABBAGE— RED & GREEN Storage #4 Reaction Super Red 80

 CUT AT BASE
 PEEL EXCESS LEAVES

PUT IN GRAIN
 BAGS

OTHER CROPS



Efficiency of 20 Bushel Bins

OTHER CROPS

SHORT TERM STORAGE **6-8 WEEKS**



- **MIST IF NEEDED**
- **LEAVES PUT IN STORAGE** • **BINS**
- **PEEL EXCESS**
- **CUT AT BASE**
- **ESCAROLE** \mathbf{O} **SPINACH** \mathbf{O}
- CELERY **SWISS CHARD** \mathbf{O}

OTHER CROPS

SHORT TERM STORAGE 6-8 WEEKS



- CUT
 PEEL OFF BAD LEAVES
 PUT IN OLDER STORAGE BINS
 MIST IF NEEDED
- LETTUCE KALE CAULIFLOWER BROCCOLI

VEGETABLE	TEMP F.	RELATIVE HUMIDITY	STORAGE LIFE	HIGHEST FREEZING TEMP.	
Beet, topped	32	98-100	4-6 mon.	30.3	
Brussel sprouts	32	95-100	3-5 weeks	30.5	
Cabbage, late	32	98-100	5-6 mon.	30.4	
Carrot, mature	32	98-100	7-9 mon.	29.5	
Celariac	32	97-99	6-8 mon	30.3	
Celery	32	98-100	2-3 mon.	31.1	
Garlic	32	65-70	6-7 mon.	30.5	
Kale	32	95-100	2-3 weeks	31.1	
Kohlrabi	32	98-100	2-3 mon.	30.2	
Leek	32	95-100	2-3 mon.	30.7	
Lettuce	32	98-100	2-3 weeks	31.7	
Onion, dry	32	65-70	1-8 mon.	30.6	
Potato, late	38-40*	90-95	5-10 mon.	30.9	
Radish, Winter	32	95-100	2-4 mon.		
Rutabaga	32	98-100	4-6 mon.	30.0	
Squash, Winter	50*	50-70	Varies	30.5	
Sweet Potato	55-60*	85-90	4-7 mon.	29.7	
Turnip	32	95	4-5 mon.	30.1	
* Require curing	http:	http://www.ba.ars.usda.gov/hb66/contents.html			

Adapted from Knott's Handbook for Vegetable Growers

ROOT CELLAR 20 FEET BY 30 FEET UNDER BARN

- 7 foot Ceilings
- Insulated
- Into bank on 2 ½ sides



Loaded via assembly line into the root cellar

2016-Revamp Root Cellar



All crops loaded by variety on separate pallet or section of pallets

Stored Unwashed

Root cellar is used all winter for crates ready for market

Enables us to shut off the small cooler & use it for other type storage space

\$10,000 System: Specialized for high humidity storage

Oversized condensor

Heating cycle to defrost

Adjust through the seasons

Compressor-- 3HP outside



Capacity is about
 24 pallets with 18"
 walkway

 Approximately 1 ton per pallet when stacked to ceiling

Total = 24 tons

 Value of produce stored: \$85,000++



2016 PROJECT

- Re-vamp the Root Cellar
- Cement Floor
- 4 foot door
- Bins with Crown pallet jack
- Plastic pallets

WEATHER STATION



SOLAR TEMP HUMIDITY WIND RAIN



REMOTE SENSORS

 TRANSMIT BACK TO THE HOUSE
 ALARMS

WEATHER STATION

WEATHER STATION



- Wireless
- 4 Stations
- Computer
- Davis Vantage
 Pro II
- Repeater

Scientific Sales, Inc.



Store fruits in different facility Ethylene gas causes maturity and bitterness

Keep Root Cellar Clean and Tidy Rotting produce also causes maturing

KEEPING QUALITY



ROOT CROPS



Potatoes

Beets

Kolhrabi

Turnips

Radishes

Rutabagas

Celeriac

WHAT WE STORE

WHAT WE STORE

MediumCELERYStorage CropsCAULIFLOWER







BRUSSELS SPROUTS



Short Term Storage Crops

Lettuce Kale **Swiss Chard** Spinach Escarole Broccoli

WHAT WE STORE

- ROOT CELLARING & STORAGE OF PRODUCE IS AN INEXPENSIVE WAY TO INCREASE SALES
- BENEFITS YEAR-ROUND MARKETING/INCOME
- SEPARATE STORAGE FACILITIES
 IMPORTANT
- MONITOR STORING CONDITIONS
- CURE PROPERLY FOR QUALITY
- **KEEP CUSTOMERS HAPPY**

SUMMARY

WASHING STATION



1990 EARLY YEARS: PUTTING \$10,000 EACH YEAR BACK INTO THE FARM—SPEND \$ TO MAKE \$



MORE WINTER WORK-LOOK AHEAD



1995 REVISION 2: Heated Washing Station Insulated Overhead Doors



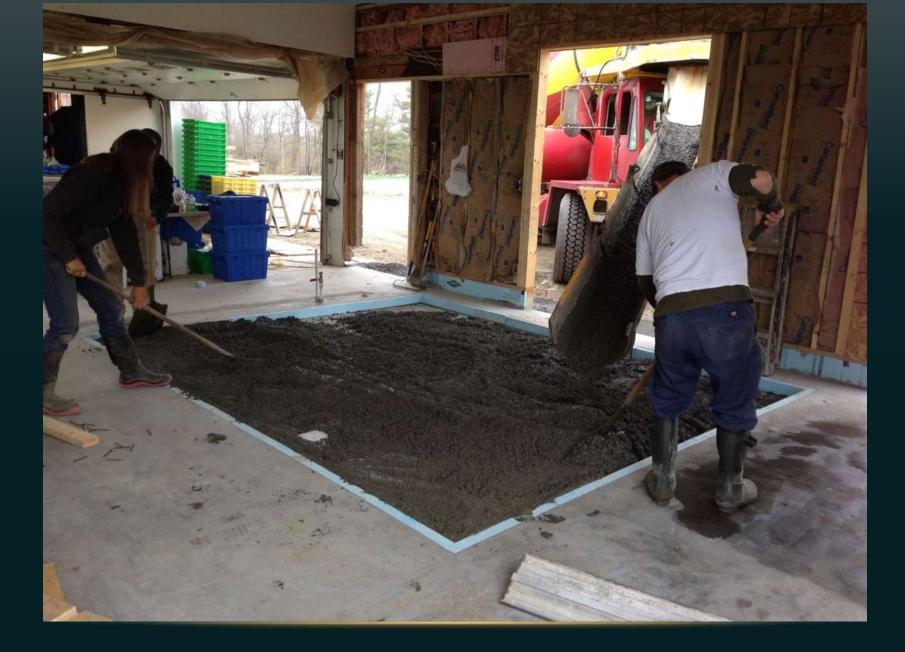
FINAL REVISION!! 2015



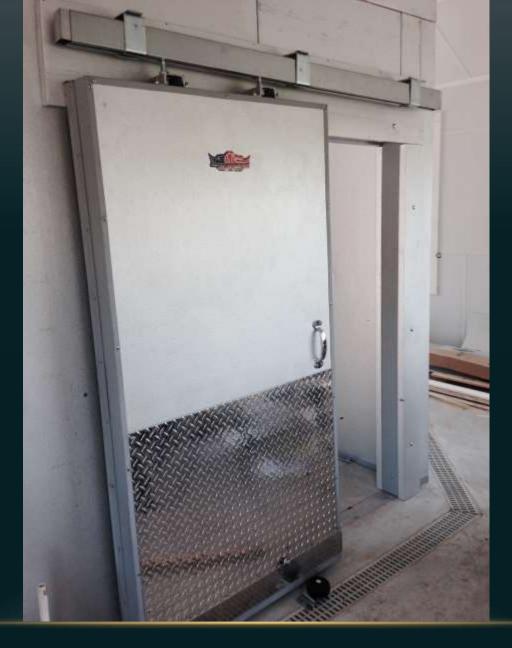
FINAL REVISION!! 2015



12x14 cooler-Insulation-Radiant Heat



Drains-Cooler Insulation



American-Slider Doors



ACCESS DOORS-Auto keypad openers







LOADING FOR MARKETS MADE EFFICIENT



Barrel Roots Washer-Winch



Switches-Water, On/Off both ends, Lights



Setup for Efficiency-Drain



Lights-Platform (Soon!)-Golf Cart storage POWER WASHER for root crops



BARREL WASHER-CRATES-OLD SYSTEM



Can wash over 400 pounds of root crops in an hour with 3 workers!

\$1000 AND 2
 WEEK
 PAYBACK

Get more done in less time...can keep price down.



Air heat-Reznor-2 Days

SYSTEMS-READY TO GO FOR WASH/PACK DAY!



HOSE RETRACTOR-NEAT & TIDY



BUBBLER •200 gallon **Milk bulk tank** Jacuzzi Motor •Efficient •400 bags spinach in 90 minutes=\$1200 •OR \$800/hour with 4 workers

BUBBLER GREENS WASHER



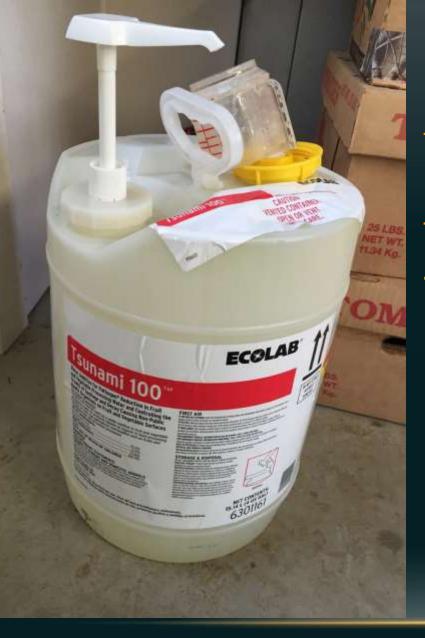


3" PVC PIPE WITH ¼" HOLES FACING UP

SPECIAL BARS WELDED IN



Motor in attic-Warm water



Liz.Cashman@ecolab.com

<u>\$97 for 5 gal pail shipped</u>

Test Strips

SANITIZE? STORAGE LIFE

BUBBLER GREENS WASHER





Efficient assembly line

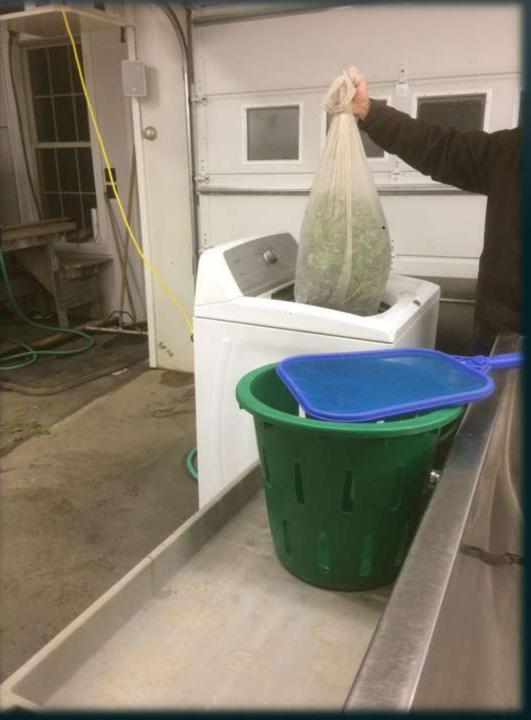
Load vented baskets...

Then netted bags



- Washing machine
- Spin cycle on switch 8 Sec
- Arugula, Salad Mix & baby spinach





• Washer on wheels

• Retractable cord



- Everything at hand
- Vented bags
- Standard count per crate

• Market crates never on floor





Wash Greens first Cleanest to start

 Use test Strips to retest if more sanitizer needed





Crates on wheels
Floor Drains
Knife racks
Auto front door
Cement to cooler



EFFICIENT SYSTEMS IN THE WASHING STATION

- Rubber bands prebunched
- Backup Scales
- Two per market





WARM WASH WATER

Hand-washing Sink-Instant Hot Water-Stiebel



WHITEWASH BOARD LABOR POSTERS

• HARVEST/RECORDS

- IPAD
- SCALE
- CAMERA





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CARBAGE-WHITE	27		25				
CARROT-ORANGE	12		76		1		
CARROT-RNEWIPLEP	20/28	024	29/27	W 25	-		
CAUL-CHED/WHITE	89	37	1 K	1.1.			
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HIGHANTROMINT	12/6	216	216				
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KALE	15		29				
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LEEKS	124 1	6	75				
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MESCLUN	35		17				
POTATO-ADK RED			1				
POTATO-BLUE	30		35				
POTATO-FNO REDITO			137				
POTATO-RED	10	4	62				
POTATO-RUSSETT	120		37				
POTATO-YELLW	60	-	120				
RADISH	125		268				
RUTABAGA	81		1 2				
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Use prior to harvest

Write in what we want the crew to harvest and how much of each

Shows leftover that can be sent after sorting and recleaning

Harvest prep list

ACTUAL HARVEST MARKET SHEET

										·	
<u>2010 MARKET</u>					<u>SAR</u>	<u>. SAT</u>	<u>URD</u>	<u>AY - </u>	MAY		
WEATHER:											
<u>ITEM</u>	<u>1ST</u>	<u>LO</u>	<u>8TH</u>	<u>LO</u>	<u>15TH</u>	<u>L.O</u>	<u>22ND</u>	LO	<u>29TH</u>	<u>LO</u>	
ARUGULA	80		94		77	11	80	4	80		
CARROTS-RC	<mark>88</mark>		<mark>92</mark>		<mark>92</mark>		93				
LETT-MINI			125		300	10	400	162	200	37	
LETTUCE-HEAD	250		125		100		200	55	275	50	
MESCLUN-MILD	122		125	55	106		160	68	161	65	
POTATO-FNG Y-RC	73	40	71	14	<mark>68</mark>	9	74		75	10	
RADISHES					100	3	195	48	100		
SPINACH	202	19	190	54	250	85	214	75	180	31	
STRAWBERRIES							24		120		
PERENNIALS-SM	600	420	600	340	600	150	800	430	900	320	
We use one sheet for each market for each month.											
Therefore, only 26 sheets with all our sales data for the entire season.											
Easy to add up total sales for the year for each product.											

Year-Round Washing Station for Energy Savings & Efficiency

STAINLESS STEEL NEXT TO ROOT COOLER

GOLF CARTS



•Move lots quickly from field to wash area to maintain produce quality

USE SEPARATE CONTAINERS FOR HARVESTING VS MARKETS



CRATES FOR EVERY PURPOSE HIGH QUALITY BUCKHORN CRATES





WASHING CRATES

•High Pressure Washer

•Clean weekly or bi-weekly

•All harvest & market crates





CLEAN UP EACH DAY!

•BUBBLER PIPES BRUSHED OUT AFTER EACH USE & PIPES DRY



Reduce risk of contamination with washable walls, floors, equiptment, etc.

EMPLOYEE HANDBOOK-MARKET & FARM SAFETY REQUIREMENTS BATHROOM & HANDWASHING RULES **SICKNESS WASH STATION PROTOCOL** ✤ATTIRE REQUIREMENTS **SHOE/BOOT RULES** ✤FIRST AID/CUTS POSTERS & REGULATIONS POSTED NEW HIRE SAFETY TRAINING ✤ANNUAL REVIEWS http://producesafetyalliance.comell.edu HAVE A FARM SAFETY PLAN

MARKETING – THE FUN PART!

HUMAN THE IST AND



FEEDING FOLKS EVERY WEEK OF THE YEAR





Lots to learn!

22 years ago!

Great tarp system Wide table for displays Color coordination Signage **Banana boxes** Inexpensive system

Messy with banana boxes



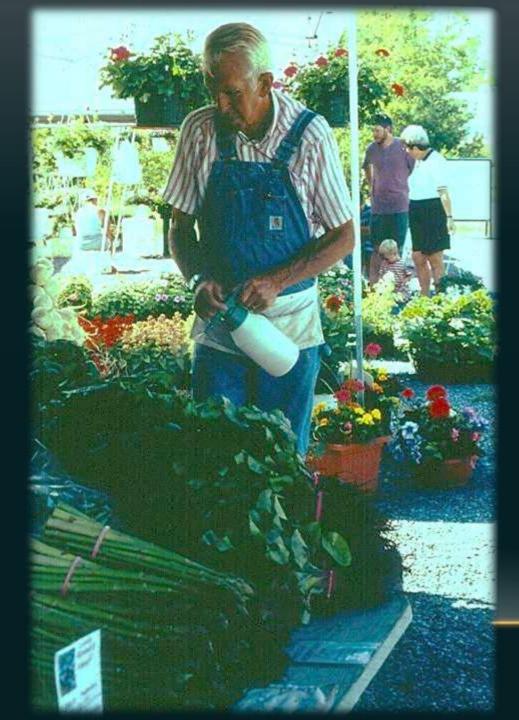
Good and Bad



Red and White Awning so we stand out

•Silver Tarps •White Tarp





Always work To be done!

Misting the table constantly to keep quality of produce up



Color...color...unique varieties

JUNE Root Cellar crops/Strawberries Bags hanging & handy



Pile it High and Watch it FLY!



Greet! Have Fun! Smile! Give 110% to Customers!





High Profit.... Low Profit



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





How Does a Brussels Sprout Grow?



Pre-bagged instead of weighing at market Vented bags for spinach & salad mix



EMPLOYEE HANDBOOK FOR FARMERS' MARKET Customers are always right & everything is guaranteed 100%

LAMINATE THE SIGNS

BANCH

REANIC



WALLA-WALLA

ONION \$100 EACH

WHITE SWEET

.

ETTUCE

LOTS OF

VARIETIES

Smaller Heads



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



- Back-stock baskets ready to go on table
- Hire one person to be full-time stocking
- Have table look full from beginning to end

DRESS UP THE TABLE!



Build shelves for multiple levels

More display space

Go up rather than out More visual





Customers Buy with Their Eyes! Diversity of Lettuce...mini and full size heads.

SPRING DIVERSITY: PLANT FOR COLOR & CUSTOMERS' WANTS-ALL GREENS FROM TUNNELS



High value plant starts—Herbs very popular



High Quality and Good Preparation



DISPLAYS ARE EVERYTHING!



Front & Center to move out!

Change and move displays!

High quality leads to good prices, satisfied customers and loyal customers

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



CUSTOMER EMAIL NEWSLETTER

End of regular season October 31st!

Dressing up the Display with seasonal colors!



WINTER MARKETS NOVEMBER 1ST TO MAY 1ST

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





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

Enclosed Vehicle Necessary for Winter Markets

Load just before market



November!! We don't fit inside yet! 30+ feet long!





Color catches their eye....

Flavor brings them back....



Have scales (2) charged & ready Place basket on & tare for ease



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



"Large-Leafed Salad Mix" not Asian Greens



Mixed Kale Bunches Very Popular

November!!

Still need 5 people on the table

1. II II II

TT

SATURDAY BEFORE THANKSGIVING

HIGHEST SALES DAY OF THE YEAR!!!



NOVEMBER 22ND 37 DIFFERENT ITEMS FOR SALE!





DECEMBER

BOTH MARKETS NOW INSIDE UNTIL SPRING!!

Very Popular:

7 Winter Markets within one hour

High tunnel fresh produce makes winter markets come alive!!



WINTER MARKETS NOVEMBER 1ST TO MAY 1ST

DIVERSITY CAN BE AN AMAZING DRAW

Special events and press releases Cooking demos with market products

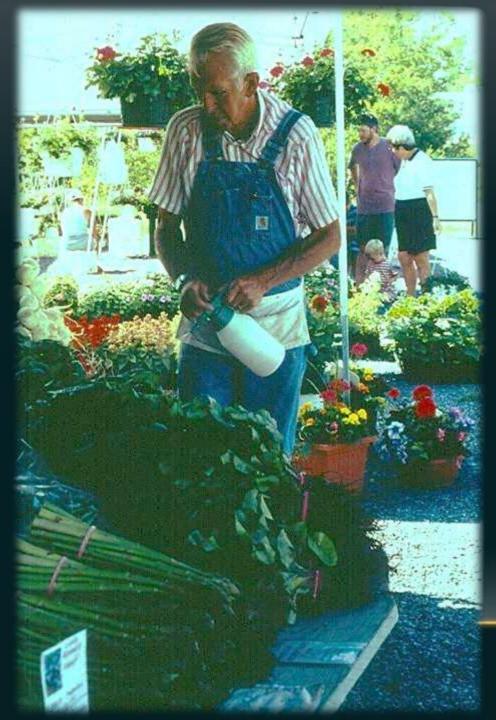


Saratoga Market Jan 7th 35 Vendors-Gym costs \$700 per day



Family member present

DIVERSITY AND BIG DISPLAYS! TAKEN IN MID - JANUARY!



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

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!





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

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



THANKS AND HAVE A GREAT WINTER & 2016 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!