

# Simple Record Keeping 


owe put the value on one level (per acre)
ocan only tell the value if we have records

VATUTE
○區
CROPS

## WHY is RECORD

Keeping important?
oValidation of improvements
-Which crops are valuable
-Business decisions
©Crop decisions
©Reduces production waste
คなmon nlang fangmath

KPPPING

Simple spreadsheets or Ipad or Iphone: aseeding Records - Field space/rots Harvest Records -Total Crops Sold Liming 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 Date: 6/8/10 Field: Main
A Emu spinach 400' (PJ \#17)
B-C Bolero carrot 800' (EW carrot plate) Field: North
A-B Merlin Beet $800^{\prime}$
C Isar Y Bean 200 (EW beet plate)
D Jade G Bean 400'
(Jang bean plate)

## SEEDING RECORDS

# SEEDING RECORDS 

- SPECIFIC FOR EACH FARM


## - FIELD LAYOUTS



- CROP ROTATION RECORDS
- EFFICIENCY OF SEEDING


| CROP/SEEDING PLAN | 2003 |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Bean, Green | Provider | North Fld A- May 1st 800ft then 400ft every other week til Aug 1 |  |
| Bean, Yellow | Indy Gold | North Fld A-May 1st 800ft then 400ft every other week til Aug 1 |  |
| Beet, Red | Kestrel | StrodeA-April 1st 1200ft then 800ft every other week 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 RECORDS |  | 2003 |  |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| FIELD SEEDINGS |  | DATE: | 1-May | DATE: | 15-May | DATE: | 2-Jun |  |
| \& TRANSPLANTS |  | Place | Quantity | Place | Quantity | Place | Quantity |  |
|  |  |  |  |  |  |  |  |  |
| Bean, Green | Provider |  |  |  |  | NO-A1 | 800 ft |  |
| Bean, Yellow | Indy Gold |  |  |  |  | NO-A1 | 800 ft |  |
| Beet, Red | Kestrel | ST-A1 | 1200 ft | ST-A2 | 800 ft | ST-A3 | 800 ft |  |
| Peas, Sugar Snap | Sugar Ann | MN-A1 | 800 ft | MN-A2 | 800 ft | MN-A3 | 800 ft |  |
| Radish | Easter Egg | MN-A8 | 800 ft | MN-A7 | 800 ft |  |  |  |
| Spinach | Space |  |  | MN-B1 | 400ft | MN-B2 | 400 ft |  |


| $S E E D T N($ |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| LINEAL FEET/YEAR |  |  |  |  |  |  |  |  |  |  |  |  |
| CROP | VARIETY | 4/1 | $\begin{aligned} & 4 / \\ & 14 \end{aligned}$ | $\begin{aligned} & 4 / \\ & 28 \end{aligned}$ | $\begin{aligned} & 5 / \\ & 12 \end{aligned}$ | $\begin{aligned} & \hline 5 / \\ & 28 \end{aligned}$ | $\begin{aligned} & 6 / \\ & 11 \end{aligned}$ | $\begin{aligned} & 6 / \\ & 25 \end{aligned}$ | 7/9 | $\begin{aligned} & \hline 7 / 2 \\ & 3 \end{aligned}$ | 8/7 | TOTAL |
| Bean, Green | Provider |  |  | 800 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 3600 |
| Yellow Bean | Indy Gold |  |  | 800 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 3600 |
| Beet, Red | Kestrel | 1200 | 800 | 800 | 800 | 800 | 800 | 800 | 800 |  |  | 6400 |
| Pea, Sugar Snap | Sugar <br> Ann | 800 | 800 | 800 |  |  |  |  |  |  |  | 2400 |
| Radish | Easter Egg | 800 | 800 |  |  |  |  |  |  |  |  | 1600 |
| Spinach | Space |  | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 1200 | 4400 |

# CALCULATING: SU I 

## BEDSYSTEMS

## The stomoled bec size for tus ts 4 rowsela epon with 2 polits: Eech beolis 0 wide (using $1 / 2$ poths) of 5,5 thby 100

 550 square feet
# NON-BED AREAS Calculate area by measuring length times width 

## EX: Strawberries, Squash, Garlic



## CALCULATING SQUARE FOOTAGE



SQUARE_EOOTAGEOF

NON-BED CROPS



## Columns:

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


# -Weigh as 

 we go-Keep records!

WINTER HARVESTING

- 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++

## VALUE PER ACRE:

## Example: SALAD MIX

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

Acres planted $=1,980 / 43,560=.045$ acre Extrapolation: \$18,484/.045 = \$406,648 per acre


|  | A | B | C | D | E | F |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| CROP | SQU FT GROWN | ACRES | QUANTITY <br> SOLD | PRICE | TOTAL VALUE | \$ VALUE <br> PER ACRE |
|  |  | A/43560 |  |  | CXD | E/B |

Arug. $660 \quad .015 \quad 1616 \quad 2.50 \quad \$ 4040 \quad \$ 266,6$

| Kale | 660 | .015 | 1097 | 3.00 | $\$ 3291$ | $\$ 217,2($ |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| $\begin{array}{l}\text { Swiss } \\ \text { Chard }\end{array}$ | 1320 | .030 | 2480 | 3.00 | $\$ 7440$ | $\$ 245,5$ |

## SOUARE FOOT BASIS IF WANTED:

Field Space $=1980$ square fee $\dagger$
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

| ITEM | 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, bunching, etc. would be totalled then divided into total Example: Basil @\$7=\$84 worth readied in 1 hour (2 workers 1/2 hour each), therefore \$84/hol Example: Beans Total of 68\# readied in 2.75 hours; Value @\$4/pound=\$272; 272/2.75=\$99
Example: Blueberries @ $\$ 3.50=\$ 105$ worth picked in $11 / 2$ hours, therefore $\$ 70 /$ hour
Example: Raspberries @ $\$ 3.50=\$ 66.50$ worth picked in $11 / 2$ hours, therefore $\$ 66.50 / 1.5=\$ 44 /$ Example: Lettuce Total was 150 heads readied in 1.5 hours by Paul only=\$375; \$375/1.5hr=\$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 fułure 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 KEEPINGG SUMMAAYY



## Worksheet



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

Use your records to
$950508 \square 58($


## YIELD DATA



## -Kale <br> -Swiss chard <br> -Spinach <br> -Asian Greens <br> - Lettuce Mix <br> - Arugula <br> -Turnips <br> -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 \$1630 per week
-Markets
building every year


2010-11

# 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

-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!


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



TOTALS 2012-13

## Timing critical...Cloudiness Eliot Coleman-Frozen Ground



# More sun....Warm fall \& early winter Changeable weather January $5^{\text {th }}$ <br> Network 



FB: 4 Season Farming \& Winter Production

## 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 been $50 \%$ greens and $50 \%$ 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.
> Spinach-
Harvested 882\# of spinach Dec 23 ło 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


## 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 fo 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!







## DISPLAYS ARE EVERYTHING!



Front \& Center to move out!

## Change and move displays!





## Customers Buy with Their Eyes!

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

## WINTER MARKETS NOVEMBER $1^{\text {ST }}$ TO MAY 1ST

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





## NOVEMBER $22^{\text {ND }} 37$ 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!




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 NEWSLEITER

## 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




## Family member present



# 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!



## Alaska, Glacier 2011


-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!

