



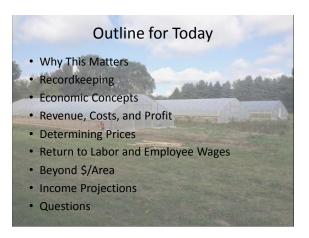






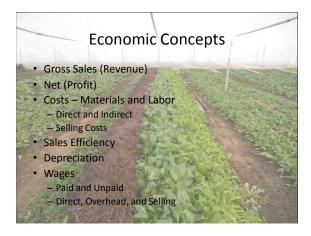
# Where are We Headed?

Crop: ARUGULA	No Depreciation	4 year Depreciation
Revenue	\$820	\$820
Costs	\$168	\$168
Selling Costs	\$141	\$141
Depreciation	0	\$108
Net Income	\$511	\$403
Profit/ft2 (528 ft2)	\$0.96	\$0.76
Profit/ft2/day (102 Days)	\$0.009	\$0.007
Return to Labor (10 hrs)	\$51.10	\$40.03
Yield/ft2	0.20 lbs/ft2	0.20 lbs/ft2
Sales Efficiency	100%	100%









# Determining Prices What other farmers charge Grocery store/terminal market prices Cost of production + % What you would pay What you would like to make

# Setting Goal \$20,000 gross in 2000 ft2 (\$436,600/A) \$5 Beds (Make \$4000/bed/yr) \$3 crops/yr = \$1,333/crop \$4 crops/yr = \$1,000/crop

# **Making Money**

### Carrots:

Bed: 352 ft2(4 ft x 88 ft) Spacing: 4" X 2" 6/ft X 88 ft = 528 carrots/row 528 X 12 rows = 6,336 X 0.80 = 5069 carrots 5069/10 = 507 bunches

\$1,000/507 = \$1.97/bunch

\$1,333/507 = \$2.62/bunch

# **Making Money**

### Baby Salad:

Bed: 352 ft2

Yield: 1 lb/6ft2 (or 0.15 ft2)

/6 = 58 lbs

X 3 cuttings = 176 lbs (0.50/ft2)

X 0.90 = 158 lbs

\$1,000/158 = \$6.32/lb

\$1,333/ = \$7.57/lb

# **Making Money**

### Tomatoes:

Bed: 352 ft2 (4 X 88 ft) Spacing: 2 rows @ 24" = 88 plants 12 lbs/plant (very conservative yield) 12lbs X 88 plants = 1,056 lbs

\$1,000/1,056 = \$0.95/lb \$1,333/1,056 = \$1.26/lb

# **Making Money**

Carrots: 507 Bunches X \$3/bunch = \$1,521

Baby Salad: 176 lbs X \$8/lb = \$1,408

Tomatoes: 1,056 lbs X \$2.50/lb = \$2,640

Total: \$5,569 (Goal = \$4,000)

What about costs?

@50% net = \$2,784.50

X 5 beds = \$13,992.50/House

# Cost of Production - Pre-Plant - Soil Prep

- Bed Prep
  - Fertility and Amendments
- Irrigation
- Labor
- Specific Tools
- Depreciation
  - Structure, Poly, Internal Cover

# Cost of Production - Pre-Plant

- Bed Prep (For 1 bed at 88ft X 4ft)
- Labor assumed at \$10/hr

Activity	Time or Amount	Cost
Tilling (Walk-behind)	20 Minutes	\$3.33
Blood Meal	4lbs	\$4.80
Potassium Sulfate	4 lbs	\$5.36
Mileage for Blood Meal	30 Miles (@ \$0.55/mile)	\$1.32 (\$0.33/lb)
Compost	0.30 yds3 (@\$20/yd3)	\$6
Labor –Amendments and Compost	45 minutes	\$7.50
Total Cost		\$28.31

# Cost of Production - Pre-Plant

• Irrigation (1 Bed)

Activity	Time or Amount	Cost
Labor for Drip Set Up	30 minutes	\$5
Hoses	\$60 total/3 houses	\$4
Barbs	\$2 each	\$8
Drip Tape	4 runs @ 90 ft	\$2.40
Total Cost		\$19.40



# Cost of Production - Pre-plant

Internal Cover (1 Tunnel)

Category	Price
Row Cover (AG-19)	\$70
Wire Strainers	\$12 (4 @ \$3)
High Tensile Wire	\$12
Labor	\$15 (\$10/hr at 1.5 hrs)
Total	\$109 (\$0.06/ft2 or \$21.80/bed)

# Cost of Production Per 4 ft X 88 ft Bed – Arugula Pre-Plant Summary

Category	Cost
Bed Prep and Fertility	\$28.31
Irrigation	\$19.40
Internal Covering	\$21.80
Total Cost/Bed	\$69.51
Total Cost/Ft2 (in production)	\$0.20

## Cost of Production – Pre-Plant

• Depreciation (4 Tunnels - 3 @ 30 X 96, 1 @ 30 X 48)

Activity	Time or Amount	Cost
Frames and Endwalls(Used)	10,080 ft2	\$4000
Ground Posts	172 posts plus shipping	\$3,117.74
Additional Materials	Roll-ups, lumber, etc.	\$4,368.18
Labor	Flat Rate	\$2,500
Total Cost		\$13,985.92 (\$1.39/ft2)

## Cost of Production - Pre-Plant

- Depreciation 4 yrs (length of loan)
   Economic vs. Tax Depreciation?
- \$13,985.92/4 yrs = \$3,496.48 per year (for all ft2)
- Production Space Only = 5,280 ft2 (1,760 ft2/tunnel)
   \$3,496.48/5280ft2 = \$0.66/ft2/yr (\$0.002/ft2/day)
- \$0.002 X 528 ft2 (planted area) X 102 days = \$107.71

# Cost of Production - Planting

## • Arugula

- 8 Rows at 132ft (1.5 beds) 528 ft2
- Approximately 12 seeds/ft = 12,672 seeds per row
- $X 8 = ^100,000$  seeds
- @ 14,600/oz
- $-\frac{1}{2}$  lb = 116,800 seeds @ \$20 = \$17.12 in seed
- @ 10 minutes to seed = \$1.67 in labor
- Total Cost for seeding = \$18.79

# Cost of Production – Arugula Thru Planting With Depreciation

Category	Cost
Bed Prep and Fertility	\$28.31
Irrigation	\$19.40
Internal Covering	\$21.80
Total Cost/Bed	\$69.51
Total Seed for 1.5 beds	\$18.79
Total Cost for 1.5 beds (528 ft2)	\$123.06
Depreciation	\$107.71
Total Cost for 1.5 Beds w/Depreciation	\$230.77

# Yields and Sales (Actual from Fall 2012)

Crop	Area (ft2)/Market	Lbs	Yield/ft2 (Lbs)/Price
Arugula	528	105.5	0.20
Arugula	Restaurant	94	\$7.50/\$705
Arugula	Farmers Market	11.5	\$10/\$115

Yields are lower than previous experience due to later planting date (September 21) only producing around 1.5 on cut-and-come-again arugula



# Additional Costs – Weeding, Harvesting, and Packing Direct Labor and Materials

Category	Hours	Total \$ (@ \$10/hr)
Weeding	0.5	\$5
Harvesting	2.7	\$27
Packing	1.3	\$13
Total	4.5	\$45

# Additional Costs – Mileage and Delivery or Market Labor

Mileage	Mileage \$	Hrs	Hrs Cost	# of Items	Total \$	\$/Item
61	\$33.85	2	\$20	6	\$53.85	\$8.98
	Market		Mileage a	nd Labor		
	Farmers M	larket	\$36.13			
	ľ	61 \$33.85 Market	61 \$33.85 2	61 \$33.85 2 \$20 Market Mileage at	61 \$33.85 2 \$20 6  Market Mileage and Labor	61 \$33.85 2 \$20 6 \$53.85  Market Mileage and Labor

\$138.09

Category	Cost	Total
Bags	24 @ \$0.09	\$2.16
Bags	35 @ \$0.03	\$1.05
Total		\$3.21
Total Selling Costs		\$141.30

Crop: ARUGULA	No Depreciation	4 year Depreciation
Revenue	\$820	\$820
Costs	\$168	\$168
Selling Costs	\$141	\$141
Depreciation	0	\$108
Net Income	\$511	\$403
Profit/ft2 (528 ft2)	\$0.96	\$0.76
Profit/ft2/day (102 Days)	\$0.009	\$0.007
Return to Labor (10 hrs)	\$51.10	\$40.03
Yield/ft2	0.20 lbs/ft2	0.20 lbs/ft2
Sales Efficiency	100%	100%

# What Now?

Crop: ARUGULA	No Depreciation	4 year Depreciation
Revenue	\$820	\$820
Costs	\$168	\$168
Selling Costs	\$141	\$141
Depreciation	0	\$108
Net Income	\$511	\$403
Profit/ft2 (528 ft2)	\$0.96	\$0.76
Profit/ft2/day (102 Days)	\$0.009	\$0.007
Return to Labor (10 hrs)	\$51.10	\$40.03
Yield/ft2	0.20 lbs/ft2	0.20 lbs/ft2
Sales Efficiency	100%	100%

# Beyond \$/Area – Why Days Matter?

Crop: ARUGULA	Fall 2012 (4 yr depreciation)	Spring 2013 (Estimates)
Revenue	\$820	\$1845 (@ 90%)
Costs	\$168	\$278 (+3 hrs weeding, +8 hrs harvesting and packing)
Selling Costs	\$141	\$150
Depreciation	\$108 (102 days)	\$52 (49 days)
Net Income	\$403	\$1446
Profit/ft2 (528 ft2)	\$0.76	\$2.74
Profit/ft2/day	\$0.007 (102 days)	\$0.056 (49 days)
Return to Labor	\$40.03 (10 hrs)	\$68.86 (21hrs)
Yield/ft2	0.20 lbs/ft2	0.50/ft2
Sales Efficiency	100%	90%
Net/Gross	50%	78%

# **Determining Prices**

Crop: ARUGULA	Fall 2012 (4 yr depreciation)	Spring 2013 (Estimates)
Revenue	\$820	\$1845 (@ 90%)
Net Income	\$403	\$1446
Yield/ft2	0.20 lbs/ft2	0.50/ft2

Crop:	ARUGULA	Revenue (105.5 lbs)	Net (if costs are same as 4 yr)
\$4.00		\$422	\$5
\$6.00		\$633	\$216
\$8.00		\$844	\$427
\$10.00		\$1,055	\$638

# Return to Labor/ What Can I Pay Someone?

No Depreciation	4 year Depreciation
\$820	\$820
\$168	\$168
\$141	\$141
0	\$108
\$511	\$403
\$0.96	\$0.76
\$0.009	\$0.007
\$51.10	\$40.03
0.20 lbs/ft2	0.20 lbs/ft2
100%	100%
	\$820 \$168 \$141 0 \$511 \$0.96 \$0.009 \$51.10 0.20 lbs/ft2

