

University of Idaho Extension





Welcome to the an exploration of Sustainable Crop Production!

Today we will introduce you to:

- Enterprise Budgets
- Planning for Planting
- Healthy Soils
- Ecology of a Small Farm



Today's Presenters & Facilitators:



Marci + Greg



Jessica



Ariel



Diane



Jen



Checking In...

- Homework readings and assignments on the student webpage
- Supplemental readings and activities are there too!
- Cultivating Success Facebook page for joining, sharing and posting
- Cultivating Success Certificate available



Where are we on previous homework?

► Readings:

- Farming Alternatives: Read chapters 1,2 and 3
- Small-Scale Livestock Farming: Read pages 18-19
- ▶ The Market Gardener: Read Chapter 1
- Keys to Successfully Choosing Enterprises That Suit Your Small Farm

Assignments

- Download this Whole Farm Plan Template
- Complete Farming Alternatives marketing worksheets 3-1 through 3-6
- Optional: Evaluate your personal and family qualities and other resources in more detail using Farming Alternatives worksheets 2-1, 2-2, 2-3, 2-5, 2-6



Current Homework

(listed in your student syllabus and online)

Read:

- Farming Alternatives: Chapter 4
- The Market Gardener: Chapters 2-4 and 13.
- Small Scale Livestock Farming: Read Chapters 1 and 4.

Worksheets:

Start to work on worksheets 4-1 through 4-10 for a crop and /or livestock enterprise.

Whole Farm Plan:

Summarize worksheets completed so far into the Whole Farm plan template.



Cultivating Success Certificate

- First draft of your Whole Farm Plan by March 29th
- Attendance at all class sessions (intro webinar & 3 classes)
- Online quiz completion



Starting Your Sustainable Small Farm in Idaho

Introduction to Enterprise Budgets



Presented by Greg Freistadt, Deep Roots Farm, Moscow, Idaho









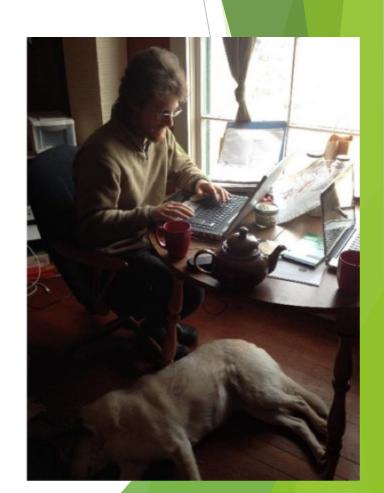
Marci Miller, Greg Freistadt, & Isaak Juyle Moscow, ID So many options!

How do you choose which crops or livestock to grow?



Multiple ways of choosing

- ■What you like to eat
- ■What you know and like to grow
- ■What people will buy
- ■What grows well in your climate
- ☑ How much time you have
- What pencils out or is profitable. . . .



Profit = Income - Expenses

How many enterprises make up a farms annual income?

Are these carrots all one enterprise?

To increase profit we need to:

- -Work efficiently and keep records
- -Outline costs, labor and income
- -Standardize space and production for comparisons
- -Find true cost of each product, including all farm overhead and your time





Overhead Expenses 2016

Mortgage annual payment	3530.56	farm % of total bill. Does not include house and house site portion.
Depreciation		to account for replacement costs, excluding machinery in Worksheet 4
Property taxes	777.00	
Insurance	367.00	on farm injury \$115/yr, \$126/6mo ford, no health, workers' comp.
Office		supplies, postage, subscriptions \$3/mo NYFA
Website, Internet		\$8/mo=\$96 plus fees and maintenance, internet \$19.02/mo=\$228.24
Travel/conferences/daily gas		F2FX \$400, daily gas =\$1400
Professional services		CPA, organic certification, snowplowing
Electric		farm 37%=35.15/mo=421.80, includes GH but not seperate
Water		\$657 for 2015 225 water, 75 for Ish but entered 150 for future (\$25/mo for 6 mo)
Landfill	20.00	
Telephone	552.00	farm % = \$26/mo for marci + I \$120/yr + G \$120/yr
Advertising		\$30 signage, \$100 box and jar labels
Shop, wash supplies, misc. repairs		tractor, implement, irrigation repairs already accounted for in Worksheet 4
Labor: management		average 5 hrs/week, 200 hrs/year; annual labor for overseeing farm operation \$8/hr
Labor: office	2080.00	average 5 hrs/week, 260 hrs/year; annual labor for office duties
Labor: maintenance		average 1 hr/week, 52 hrs/year; annual labor for nonassigned maintenance work
Total overhead costs:	14845.60	Allocation: GH seedlings \$2397, GH tomatoes \$2397, 5A (100 beds) \$14,385 = \$144 per bed
Overhead for GH seedlings:	2000.00	
Overhead per HH:		
MH	1000.00	\$333/HH bed
UH	1000.00	\$333/HH bed
LH	1000.00	\$333/HH bed
ISH 4 beds	1000.00	\$333/HH bed
Balance for field beds:	8845.60	
50' Field Beds in Production:	192.00	2015
Overhead per 50' bed:	46.07	Per two 350' beds, for 5A (100 beds) planted to row crops. Enter on line 69 on Crop Enterprise Budge

Overhead Expenses 2018

Mortgage annual payment		farm % of total bill. Does not include house and house site portion.
Depreciation	1000.00	to account for replacement costs, excluding machinery in Worksheet 4
Property taxes	343.62	farm %
Insurance	367.00	on farm injury \$115/yr, \$126/6mo ford, \$126/6mo toyota, no health, workers' comp.
Office	300.00	supplies, postage, subscriptions \$3/mo NYFA
Website, Internet	324.24	\$8/mo=\$96 plus fees and maintenance, internet \$19.02/mo=\$228.24
Travel/conferences/daily gas	1000.00	F2FX \$400, daily gas =\$600
Professional services	850.00	450 CPA, 200 cng cert, 200 my snowplowing
Electric	421.80	farm 37%=35.15/mo=421.80, includes GH but not seperate
Water	657.00	\$657 for 2015 225 water, NOT INCLUDED for 2017 ISH 150 for future (\$25/mo for 6 mo)
Landfill	20.00	
Telephone	120.00	farm % = G \$120/yr NOT INCLUDED for 2017 ISH \$120/yr + \$26/mo for marci
Advertising		\$30 signage, \$100 box and jar labels
Shop, wash supplies, misc. repairs		tractor, implement, already accounted for in Worksheet 4
Labor: management	512.00	average 2 hrs/week, 64hrs/year; annual labor for overseeing farm operation w: \$8/hr
Labor: office		average 2 hrs/week, 104 hrs/year; annual labor for office duties 2016 was 260 hrs/yr
Labor: maintenance		average 1 hr/week, 52 hrs/year; annual labor for nonassigned maintenance work
Total overhead costs:	10780.72	Allocation: GH seedlings \$2397, GH tomatoes \$2397, 5A (100 beds) \$14,385 = \$144 per bed
Overhead for GH seedlings:	2000.00	
Overhead per HH:		
MH (4.6 beds)	1150.00	\$250/HH bed
UH (4 beds)	1000.00	\$250/HH bed
LH (3 beds)	750.00	\$250/HH bed
ISH (12 beds)	0.00	\$250/HH bed
Balance for field beds:	5880.72	
50' Field Beds in Production:	50.00	
Overhead per 50' bed:	117.61	Per two 350' beds, for 5A (100 beds) planted to row crops. Enter on line 69 on Crop Enterprise Bu

Record Keeping

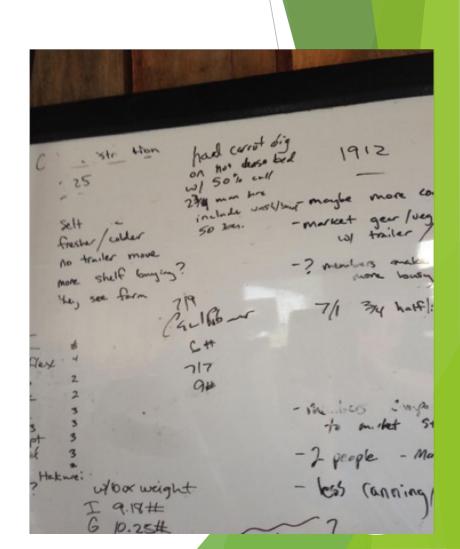
All farms are different.

What is profitable on one may not be on another.

Records are specific to your farm.

Keep records of:

- -Yield per standard unit of space
- -All time spent maintaining individual enterprises and all work needed to operate farm
- -Volumes sold at markets



What enterprise budgets do for you?

Compare sources of income on your farm.







Value-Added
Products
Basil Pesto
Spicy Cilantro
Pesto
Salsa
Pickled
Jalapenos

Understand your operating costs





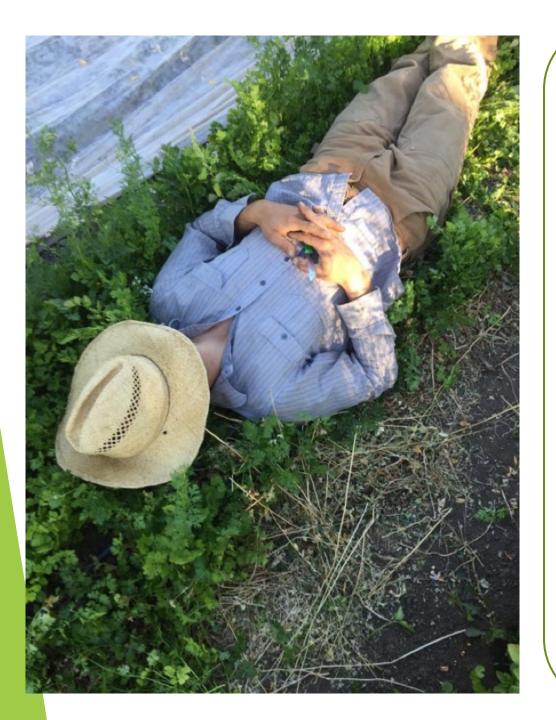
Inform decisions on what and how much to produce



Mid-July CSA Share



Cucumber Taste Trial



Place a value on what your space and time is worth

It might be better to take a nap on that cilantro rather than cut it.

Not guaranteed to help you cull napping laborers

Pinpoint your cost per unit





Cost per Unit and Net Profit for Winter Squash

Total Costs:			
Crop & Overhead Total:	131.36		
Sales:	# of units	Price per unit	Total \$
Retail:	150.00	1.50	225.00
Wholesale:		1.25	0.00
		1.00	0.00
Total units	150.00		
Total Sales:			225.00
Net Profit:			
Total sales - total costs =		93.64	
Net Profit/Acre: 208 (50's)		19477.12	
Cost/Unit:		0.88	
Net Profit/Unit:		0.62	

- -Know your price point
- -Don't dump produce at below cost prices
- -Value your time



Identify ways to potentially improve production



Budgets are the reason we reduced the amount of Brassica crops on our small acreage farm





Year 1 Head Lettuce Budget

Simple but not true cost -

no overhead included

	Head Lettuce		
			Small Heads
	50' Bed	Hrs	Hrs
	tillage/prep	1	1
	seeding	0	0
	plug flats	0.25	0.5
	watering	0.5	0.5
	transplanting	0.75	1.5
	irrigation	1	1
	weeding	1.5	2
	2nd weed	1	2.5
	3rd weed	0.25	0.5
	harvest	0.3	0.5
[?]	wash	0.5	1
E			
	total hrs	7.05	11
	wage \$8/hr	\$56	\$88
	150 seeds	\$1	\$2
	compost	\$3	\$3
[S]			
?	yield (heads)	150	300
	Gross Retail	* 450	****
	\$3 per large	\$450	\$600
	\$2 per small		
?	Net	\$389	\$507
	Growth	5	
	1=worst, 5=great		
	Customer Demand	4	
	Amount of Work	3	

Detailed Head Lettuce Budget

Includes farm overhead and marketing costs



Detailed Mini Head Lettuce Budget

How does profitability compare to full size head lettuce?





BACKYARD CHICKENS



THE GATEWAY DRUG TO FARMING

⇒ eatlocalgrown.com ->





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Irrigation leaks are easier to spot, but much less costly than unprofitable enterprises



Questions for Greg?