FRESH MARKET VEGETABLE PRICING AND FUTURE TRENDS WISCONSIN FRESH FRUIT AND VEGETABLE CONFERENCE

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Overview

- Pricing and Cost of Production
- Briefly: Cost and food trends



Pricing and Cost of Production

- To estimate the prices needed to break even, you need to know your cost of production
- Many costs higher compared to 2022: fertilizer, energy, interest, labor, seed, ...
- Labor the largest cost for most small diversified vegetable farms
 - Not just wages, but availability
- Enterprise budgets: https://www.extension.iastate.edu/agdm/crops/html/a1-17.html
- Reality: cost varies a lot across growers, even similar types of operations, due to how they manage labor and their farming methods, inputs and equipment/facilities differ





Cost of Production: A Necessary Evil

- Veggie Compass spreadsheet tool: <u>http://www.veggiecompass.com/</u>
 - John Hendrickson at UW's CIAS leads, with help from Erin Silva and myself
- Makes it easier (not easy) to estimate your cost of production



SCHEDULE F (Form 1040)

Profit or Loss From Farming

Attach to Form 1040, Form 1040NR, Form 1041, or Form 1065.

Department of the Treasury Internal Revenue Service (99)

► Go to *www.irs.gov/ScheduleF* for instructions and the latest information.

OMB No. 1545-0074



Part	II Farm Expenses—Cash	and A	ccrual Method.	Do no	ot inclu	ide personal or living expenses. S	see ins	structions.
10	Car and truck expenses (see				23	Pension and profit-sharing plans	23	
	instructions). Also attach Form 4562	10			24	Rent or lease (see instructions):		
11	Chemicals	11			a	Vehicles, machinery, equipment	24a	
12	Conservation expenses (see instructions)	12			b	Other (land, animals, etc.)	24b	
13	Custom hire (machine work) .	13			25	Repairs and maintenance	25	
14	Depreciation and section 179				26	Seeds and plants	26	
	expense (see instructions) .	14			27	Storage and warehousing	27	
15	Employee benefit programs				28	Supplies	28	
	other than on line 23	15			29	Taxes	29	
16	Feed	16			30	Utilities	30	
17	Fertilizers and lime	17			31	Veterinary, breeding, and medicine	31	
18	Freight and trucking	18			32	Other expenses (specify):		
19	Gasoline, fuel, and oil	19			а		32a	
20	Insurance (other than health)	20			b		32b	
21	Interest (see instructions)				с		32c	
а	Mortgage (paid to banks, etc.)	21a			d		32d	
b	Other	21b			е		32e	
22	Labor hired (less employment credits)	22			f		32f	Division of Extens

SCHEDULE F (Form 1040)

Profit or Loss From Farming

OMB No. 1545-0074

Sequence No. 14

University of Wisconsin-Madiso

Attachment

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13	Custom hire (machine work) .	13			25	Repairs and maintenance	25		

You have strong incentives to track all your costs on Schedule F

• Take these costs and allocate them to your crops, marketing channels, other enterprises, and farm overhead

18	Freight and trucking	18		32	Other expenses (specify):		
19	Gasoline, fuel, and oil	19		a		32a	
20	Insurance (other than health)	20		b		32b	
21	Interest (see instructions)			c		32c	
а	Mortgage (paid to banks, etc.)	21a		d		32d	
b	Other	21b		e		32e	
22	Labor hired (less employment credits)	22		f		32f	Division of Extens
-				-		-	THE DIVISION OF EXTENS

What's missing from Schedule F?

- <u>Depreciation</u>: tax depreciation not always accurate (section 179)
 - If you have larger capital expenses for buildings or equipment, may want to estimate "true" costs and allocate to multiple seasons
- Prepaid Expenses: things you paid for in previous years
 - Add things bought early (before Jan 1) as per usual
 - Add things bought in previous years and put in inventory to be used over multiple seasons
 - Subtract things bought this year to use in later years
- <u>Accrued Expenses</u>: interest, property taxes, income taxes
- You can ignore any of these, especially if they are small



	Step 1: Expense Input Page																
Veggie Compass - Whole Farm Profit Management	labor may be \$ harvest & pack	\$15,000 but tha k labor should b	at should be dist	tributed over Ge he Pink Produc	eneral Mgnt. & A tion Labor colur	Admin, CSA, Fa mn. Be sure and	armer's Marke d allocate repa	t, Wholesale, I air and mainte	Restaurant, Res nance of buildir	ell as appropria gs and equipme	r wages, the total o te. All greenhouse int over the variuos	, field growing a	ind	Division of Ex University of Wisco			
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Wages:		1											0				
Clerical & Office													0	eggie Co	mpass		
Management (owner/other)													0		· · ·		
Machine Shop													0 h	tn://\ʌʌʌʌ/	veggiecom	inass cor	
Production Labor			1													1000.001	
Distribution Labor			1										0				
Work Exchange Labor	-		-										0				
Worker Bonuses/Gifts			No labo	r costs shoul	d be allocated	I to these							0				
Employee Benefits: Food			categories	because Vegg	gie Compass p	performs this							0				
Employee Housing			calculation	in later steps		ormation you							0				
Visa h2A expense			1	include i	n STEP 3.								0				
Health & other Personal Ins.			1										0				
Retirement Plan			1			1											
Retirement Plan Other												s	tep 3: Prod	uction Input	Page		
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Let's look briefly at Veggie Compass

Pricing and Cost of Production

- Once you know your costs, you can think more strategically about pricing
- Does your cost of production include
 - Paying yourself and your family for management and labor? (Salary/Wages)
 - Paying for assets like land, equipment and buildings? (Rent, Depreciation)
- Labor is largest cost for most small vegetable growers, but yield also matters
 - Think about how adjusting labor changes yield
 - If cut labor, but yields also falls, you may not reduce labor per pound
- Do you lose money on some products because they help you make more money on other products? (Loss Leaders)
- What are you a low-cost producer for? Should you expand in those products?
- Do you invest in mechanization to reduce labor use per pound?



1. Why you need your cost of production

- Study in 2010 of small diversified vegetable farmer's labor use
 - Detailed tracking of labor time by crop
- Labor cost per pound varied tremendously across farms in WI

2. Can mechanization or expansion reduce labor costs?

- Labor productivity on <u>organic</u> vegetable farms: 10 farms in WI over 2 years (2014-2015), sizes from 2.5 to 48 acres (Weil et al. 2017)
 - "Pulse" study of Transplanting, Harvesting and Wash/Pack
- Labor use varied tremendously across farms in Wisconsin



Labor Minutes per Pound by Crop and Farm (2010)



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Activity	Crop	Size	Mechanization
	Broccoli	0	0
	Carrot	nd	nd
Transplant	Lettuce	+	+
	Pepper	0	+
	Squash	nd	+
	Broccoli	nd	0
	Carrot	+	+
Harvest	Lettuce	+	nd
	Pepper	+	nd
	Squash	0	0
	Broccoli	nd	nd
	Carrot	0	+
Wash/Pack	Lettuce	+	nd
	Pepper	0	0
	Squash	+	0

+ Increased, 0 no consistent effect, nd no data

Can I expand or mechanize to reduce labor costs?

- Mechanization increased labor productivity for Lettuce, Pepper and Squash transplanting and Carrot harvest and wash/pack
- Why is Broccoli transplanting different?
- Do similar crops have similar effects?
 - Potatoes & Beets like Carrots?
- Larger farms (20+ acres) had higher labor productivity for all Lettuce activities, plus Carrot and Pepper harvest and Squash wash/pack
- Weil et al. 2017





Price information during the season

- <u>Auction Reports</u>
 - Recent <u>wholesale</u> prices
 - Track trends over time
- Central WI Produce Auction, Withee
 <u>http://www.cwpauction.com/index.ph</u>
 <u>p/cwpa-auction-reports</u>
- Fennimore Produce Auction
- Platteville Produce Auction
- Growers Produce Auction, Cashton
- Tri-County Produce Auction, Dalton

Auction Report for July 20, 2022

	-		
	High_Price	Low_Price	Avg_Price
225	\$1.85	\$0.05	\$0.96
429	\$3.00	\$0.50	\$1.48
13	\$33.00	\$24.00	\$27.67
115	\$25.00	\$5.00	\$14.50
70	\$1.60	\$0.50	\$1.05
107	\$25.00	\$8.00	\$17.47
15	\$21.00	\$9.00	\$14.17
561	\$2.50	\$0.40	\$1.28
21	\$17.00	\$10.00	\$13.60
12	\$6.00	\$6.00	\$6.00
8	\$43.00	\$43.00	\$43.00
11	\$23.00	\$17.00	\$20.00
44	\$36.00	\$1.00	\$24.40
120	\$11.00	\$5.00	\$7.89
43	\$26.00	\$7.00	\$18.13
21	\$13.00	\$10.00	\$11.60
44	\$24.00	\$17.00	\$20.50
54	\$0.50	\$0.50	\$0.50
12	\$31.00	\$31.00	\$31.00
2	\$16.00	\$16.00	\$16.00
14	\$27.00	\$24.00	\$25.50
5	\$40.00	\$40.00	\$40.00
131	\$52.00	\$35.00	\$40.68
25	\$37.00	\$18.00	\$31.17
285	\$4.50	\$3.50	\$3.83
	429 13 115 70 107 15 561 21 12 8 11 44 120 43 21 44 54 12 2 14 5 131 25	225 \$1.85 429 \$3.00 13 \$33.00 115 \$25.00 70 \$1.60 107 \$25.00 15 \$21.00 561 \$2.50 21 \$17.00 12 \$6.00 8 \$43.00 11 \$23.00 44 \$36.00 120 \$11.00 43 \$26.00 21 \$13.00 44 \$24.00 54 \$0.50 12 \$31.00 2 \$16.00 14 \$27.00 5 \$40.00 131 \$52.00 25 \$37.00	429 \$3.00 \$0.50 13 \$33.00 \$24.00 115 \$25.00 \$5.00 70 \$1.60 \$0.50 107 \$25.00 \$8.00 15 \$21.00 \$9.00 561 \$2.50 \$0.40 21 \$17.00 \$10.00 12 \$6.00 \$43.00 44 \$36.00 \$1.00 120 \$11.00 \$5.00 43 \$26.00 \$7.00 21 \$13.00 \$10.00 43 \$26.00 \$7.00 21 \$13.00 \$10.00 43 \$26.00 \$7.00 21 \$13.00 \$10.00 44 \$24.00 \$17.00 54 \$0.50 \$0.50 12 \$13.00 \$10.00 44 \$24.00 \$17.00 54 \$0.50 \$0.50 12 \$31.00 \$31.00 2 \$16.00

All Producers in the Economy are Paying Higher Costs

(Inflation = Higher Costs)







Source: USDA, Economic Research Service, Farm Income and Wealth Statistics Data as of Decemeber1, 2022



- Corn and Soybean costs for 2023 up 10% to 20% from 2022
- Margins are getting thin even with high prices

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Farmers Markets Selling Vegetables by State in 2020



Farmers Markets Selling Vegetables per Million People



Farmers Markets National Trend



Notes: Data from 1994 to 2008 are available only for even-numbered years. Odd-numbered years were estimated by taking the average of the prior and following year, denoted by the lighter green color.

Source: USDA, Economic Research Service using data from USDA, Agricultural Marketing Service, National Agricultural Statistics Service, Farmers Market Surveys and National Farmers Market Directory, accessed July 6, 2022.

- Nationally farmers markets are saturating
- Wisconsin has a farmers market culture
- Wisconsin farmers markets may be getting more competitive
- Caveat: these data are all from before the pandemic



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2023 Food Trends

- Climate Conscious or Climate Smart
 - Get your farm story clear
- Plant-based proteins
- Mushrooms
- Thrifty foods: SNAP/EBT, small sizes
- Nostalgic foods
- Mocktails, low alcohol, medicinal drinks
- Purple yams (ube)
- New cultures: Nigerian, Filipino, ...





Efo ewuro Bitter leaf





Efo amunututu Malabar spinach

Winged Beans

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Summary

- Estimate cost of production while doing taxes and update for 2023
- Lots of variably across farms, why you need <u>your cost</u>
- Veggie Compass <u>may</u> help: <u>http://www.veggiecompass.com/</u>
- Do some strategic thinking
- Mechanization seems to reduce labor costs for transplanting and root vegetable harvest and wash/pack
- Larger farms seem to have lower labor costs for lettuce

- Are farmers markets getting more competitive?
- You may need to up your game with new ideas, new products

Questions? Comments?

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