2023 IOWA COMMERCIAL HORTICULTURE SURVEY FOR FOOD CROPS

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USDA/NASS

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Please make corrections to name, address and ZIP Code, if necessary.

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Section 1 - Crop Sales

1.	Did you grow fruits, vegetables, berries, nuts, honey, maple syrup, herbs, mushrooms, pumpkins, ornamental gourds in lowa in 2023 that were or will be for sale?	or
	1 Yes - Continue 3 No - Go to Section 6	
		Acres
2.	How many acres of land did you use in 2023 to produce the crops listed in question 1?	505
		Years
3.	How many years have you grown the crops or products mentioned in question 1 for sale?	506
		Dollars
4.	What was the total gross farm sales of the crops or products mentioned in question 1 in 2023? (EXCLUDE value added products or sales of products you purchased for resale.)	507
		Percent
5.	What percent of your gross household income in 2023 came from the sale of crops or products mentioned in question 1?	508
J.	What percent or your gross household moonle in 2020 dame norm the date of drops of products	

Section 1 - Crop Sales (continued)

6.	Were any of the fruits, vegetables, berries, nuts, honey, maple syrup, herbs, mushrooms, pumpkins, or ornamental gourds that you produced in 2023 covered by any federal crop insurance policy (including Whole Farm Revenue Protection and Micro Farm Insurance policies)?			
	509			
	1 Yes 3 No			
7.	7. In 2023, did you purchase any fruits, vegetables, berries ornamental gourds to resell?	, nuts, honey, maple syrup, herbs, mushrooms, pumpkins or		
	510 ₁ Yes - Continue ₃ No - Go	to Question 9		
8.	8. What was the dollar value of the crops or products you p	urchased to resell?		
	⁵¹¹ \$1 to \$1,000			
	\$1,001 to \$5,000			
	\$5,001 to \$10,000			
	\$10,001 to \$15,000			
	\$15,001 to \$20,000			
	\$20,001 to \$25,000			
	\$25,001 to \$30,000			
	\$30,001 to \$40,000			
	\$40,001 or above			

 Please indicate the value of your 2023 gross sales of processed, value-added food products which you processed yourself or someone else custom processed for you. EXCLUDE gross sales of products you custom processed for another grower. EXCLUDE processed products you purchased for resale.

Finished/Processed Product	Gross Sales of Processed Goods (Dollars)
a. Apple juice & cider	512
b. Hard cider	513
c. Red wine	514
d. White wine	515
e. Other fruit wines	516
f. All baked goods	517
g. Canned & jarred goods	518
h. All other products	519

10. In the table below, please identify the markets where you sold fruits, vegetables, berries, nuts, honey, maple syrup, herbs, mushrooms, pumpkins, or ornamental gourds and estimate the percentage of total sales value generated from that market in 2023. **Percentages by market type should add to 100%**.

	Market	202	the market or 3 did you sel ou grew thro market	l products ugh this	If yes, please estimate percentage of total sales value generated in this market (Percent)
a.	Auction	520	1 Yes	3 No	521
b.	Brokers and wholesalers	522	1 Yes	3 No	523
C.	Community Supported Agriculture (CSA)	524	1 Yes	з 🔲 No	525
d.	Farmers market	526	1 Yes	3 No	527
e.	Food hubs	528	1 Yes	3 No	529
f.	Institutions: hospitals and other care facilities	530	1 Yes	3 No	531
g.	Institutions: Pre K schools, K through 12 schools, and universities/colleges	532	1 Yes	3 No	533
h.	On-farm sales/own store	534	1 Yes	з 🔲 No	535
i.	Online sales	536	1 Yes	з По	537
j.	On-site farm processing	538	1 Yes	3 No	539
k.	Other growers	540	1 Yes	з 🔲 No	541
l.	Pick your own	542	1 Yes	3 No	543
m.	Processors (includes canneries, freezing, fresh cut processors, wineries and juice producers)	544	1 Yes	з 🔲 No	545
n.	Restaurants	546	1 Yes	3 No	547
0.	Retail stores and groceries	548	1 Yes	з 🔲 No	549
p.	Roadside stand	550	1 Yes	3 No	551
Tot	al (Should equal 100%)				100%
11.	How did you advertise fruits, vegetables, berries, no ornamental gourds you grew in 2023? (Choose all 552 Product labeling		pply.) 558 Televi	•	mushrooms, pumpkins, or
	553 Radio		559 Broch		
	Point of sale signage		-	ess website	
	Facebook or other social media outlet 556 Newspaper/magazine		561 Direct 562 None	mail	
	556 Newspaper/magazine 557 Word of mouth			(please spec	oifu:563
	Word of moduli		Other	(piease spec	الريان
12.	processor?	2023	to a processo	r, did you hav	ve a production contract with the
	⁵⁶⁴ ₁ Yes				
	3 No				
	2 Both (I sold some under a production con	tract a	and some with	out a contrac	et)

Section 2 - Feasibility of Processing Iowa - grown Fruits and Vegetables

1. Do you have any interest in selling raw farm products to local processors focused on

	minimally processed local fruits and vegetables, such as fresh-cut, frozen, or canned products?					
	⁵⁶⁵ ₁ Yes	2 Maybe	3 No - Go to Question 4			
2.	Of the crops you are currently producing	g, which would you be interested in selli	ing to a processor and estimate how			

Of the crops you are currently producing, which would you be interested in selling to a processor and estimate how much would you be willing to sell annually? (Using the Target Crops and Codes table below, please fill in the table on page 5 with your responses.)

Target Crops and Codes

Vegetable crop	Code	Fruit crop	Code
Asparagus	418	Apples	125
Beans (green)	381	Pears	233
Beets	383	Peaches	227
Broccoli	385	Tart Cherries	589
Cabbage	391	Watermelons	473
Cauliflower	399	Cantaloupe/Muskmelons	395
Carrots	397	Other Melons	480
Corn (sweet)	461	Chestnuts	326
Cucumbers	411	Hazelnuts	329
Eggplant	415	Walnuts	359
Kohlrabi	870	Aronia berries	2207
Lettuce	428	Blueberries	2212
Okra	437	Blackberries	2209
Onions (dry)	433	Raspberries	4270
Peas	441	Strawberries	2236
Peppers (hot)	445		
Peppers (sweet)	443	Honey	841
Potatoes	97	Maple Syrup	800
Radish	451	Other	481
Rhubarb	440		
Rutabaga	477		
Spinach	457		
Squash (summer)	459		
Squash (winter)	460		
Sweet Potatoes	100		
Tomatoes 463			
Turnips	465		
Zucchini	450		

Section 2 - Feasibility of Processing Iowa - grown Fruits and Vegetables (continued)

3. Of the crops you are currently producing, do you have any interest in selling to a processor and estimate how much would you be willing to sell annually?

1 L I N E	2 Crop Name	3 Crop code (from list on Page 4)	4 Potential annual sales to processor per year in pounds (Pounds)
01	•	566	567
02		566	567
03		566	567
04		566	567
05		566	567
06		566	567
07		566	567
08		566	567
09		566	567
10		566	567
11		566	567
12		566	567
13		566	567
14		566	567
15		566	567
16		566	567
17		566	567
18		566	567
19		566	567
20		566	567
21		566	567
22		566	567

TABLE 001

	OFFICE USE LINES IN TABLE	
568		

Section 2 - Feasibility of Processing Iowa - grown Fruits and Vegetables (continued)

1.	Are you interested in utilizing custom processing services (co-packing/co-bottling) to further process the products yo grow, where you would own and sell the final product?
	⁵⁶⁹ 1 Yes
	₂ Maybe
	3 No - Go to Question 1 Section 3
5.	What types of processing services are you interested in accessing from a custom processor (co-packer/co-bottler)? (Choose all that apply.)
	570 Frozen
	571 Canned
	572 Fresh cut (slice and dice)
	573 Dried
	574 Bottled
	Other (please specify ⁵⁷⁶)
3.	Do you have markets identified for the processed products you're interested in having made at a custom processor?
	⁵⁷⁷ ₁ Yes ₃ No
7.	Do you have in place any of the following activities that may support your readiness for selling wholesale to a processor? (Choose all that apply.)
	⁵⁷⁸ ₁ Understanding of USDA grade standards and standard packaging requirements
	⁵⁷⁹ ₂ Liability insurance
	⁵⁸⁰ ₃ On-farm food safety plan
	⁵⁸¹ ₄ Pre season planning

Section 3 - Irrigation

1.	Did you use irrigation in 2023?
	582 $_1$ Yes - Continue $_3$ No - Go to Section 4
2.	Please select the type(s) of irrigation used at your farm in 2023. (Choose all that apply.)
	⁵⁸³ ₁ Drip irrigation
	Overhead irrigation (stationary sprinkler, hose pull sprinkler, etc.)
3.	Have you ever used overhead irrigation for frost protection?
	⁵⁸⁴ ₁ Yes ₃ No
4.	In 2023, what was the source of your irrigation water? (Choose all that apply.)
	⁵⁸⁵ Pond or lake
	⁵⁸⁶ Driven/sand point well
	587 Bored or drilled well
	588 Stream
	⁵⁸⁹ Municipal Water
	590 Rainwater collection

Section 4 - Production Practices

1. Did you implement a pesticide spray schedule in 2023?

604

c. Plant tissue testing

	⁵⁹¹ ₁ Yes, calendar based					
	2 Yes, pest modeling bas	sed				
	3 No					
2.	If you grew fruits, vegetables, ber did you plant on fields used for ho horticultural crops in 2023 please	orticultural crop p				
	⁵⁹² None - Go to Question 4	1				
	⁵⁹³ Cereal rye					
	⁵⁹⁴ Hairy vetch					
	⁵⁹⁵ Oats					
	⁵⁹⁶ Field peas					
	⁵⁹⁷ Buckwheat					
	⁵⁹⁸ Cowpea					
	⁵⁹⁹ Sorghum sudangrass					
	600 Other (Please specify:60	1)		
3.	What month(s) did you establish	a cover crop in 2	023? (Choose all	that apply.)		
	⁷⁰⁰ January					
	⁷⁰¹ February					
	⁷⁰² March					
	⁷⁰³ April					
	⁷⁰⁴ May					
	⁷⁰⁵ June					
	⁷⁰⁶ July					
	⁷⁰⁷ August					
	⁷⁰⁸ September					
	⁷⁰⁹ October					
	⁷¹⁰ November					
	⁷¹¹ December					
	II	t Al f. IIt.				
4.	How often do you test for fertility	using the followin	ig metnods?			
			More than once			
	<u> </u>	Never	per year	Annually	Every 2 years	Every 3 years
	a. Soil testing 602	1	2	3	4	5
	b. Plant sap testing 603	1 🔲	2	3	4	5

Section 4 - Production Practices (continued)

5. Do you use any of these technologies or mechanizations on your farm? (Choose all that apply.)					
605 Automatic weeder					
606 Mechanical cultivator					
⁶⁰⁷ Flame weeder					
608 Finger/rotary weeder					
609 Electrical weeder (aka weed zapper)					
610 Large volume sprayer					
611 Small volume sprayer					
⁶¹² Precision sprayer					
613 Pest/disease forecasting					
614 Weather station					
615 Soil moisture sensor					
616 Temperature sensor					
⁶¹⁷ Frost protection					
618 Mechanical harvester					
619 Post-harvest washer/sorter					
620 Post-harvest refrigeration					
621 Plasticulture					
622 Drip irrigation					
623 Fertilizer injector					
624 Mechanical transplanter					
625 Aerial drones					
626 None of the above					
Section 5 - Labor	Section 5 - Labor				
1. Did you utilize any of the following forms of unpaid labor on your farm in 2023? (Choose all that apply.)				
627 Regular volunteers, 10 or more	,				
628 Regular volunteers, fewer than 10					
629 Unpaid family members					
630 Work days, 10 or more volunteers					
631 Word days, fewer than 10 volunteers					
632 Work trade (such as trading labor with other farmers or exchanging produce for labor)					
633 None of the above					
2. In 2023, how much did you spend for hired labor solely to produce:	Dollars				
	656				
a. Vegetables and melons?					
	657				
b. Fruits, berries, and nuts?					

Section 5 - Labor (continued)

3.	How has your reliance on unpaid labor changed compared with pre-COVID prior to March 2020?
	634 Increased significantly
	☐ Increased a little
	Stayed the same
	Decreased a little
	Decreased significantly
	☐ Not applicable
4.	Since the COVID-19 pandemic (March 2020) has it been more difficult to find and pay labor?
	635 ₁ Yes
	₂ No, my operation has always had challenges with finding and paying labor.
	₃ No, pandemic disruptions have not impacted my ability to find and pay labor.
5.	Which challenges, if any, have you experienced in accessing paid labor? (Choose all that apply.)
	636 Cannot afford paid labor/paying labor cuts into profits
	637 Small labor pool
	638 Lack of quality labor
	Gost of hourly labor has gone up
	640 None of the above
6.	Which of the following do you/your farm participate in? (Choose all that apply.)
	⁶⁴¹ We accept Supplemental Nutrition Assistance Program (SNAP aka food stamps) as payment
	⁶⁴² We accept Double Up Food Bucks as payment
	⁶⁴³ We accept WIC and Senior Farmers Market Nutrition Program vouchers as payment
	⁶⁴⁴ We donate fruits or vegetables to food banks, pantries, or other community food entities
	⁶⁴⁵ We allow people with lower incomes to barter or trade labor for produce
	⁶⁴⁶ We participate in the Local Food Procurement Program
	None of the above

Section 6 - Conclusion

If you answered "No" to Section 1, Question 1, please specify the reason(s) you did NOT grow or sell fruits, vegetables, berries, nuts, honey, maple syrup, herbs, mushrooms, pumpkins, or ornamental gourds in lowa in 2023 (Choose all that apply.)
648 I quit farming.
⁶⁴⁹ I retired from farming.
650 \square I farmed in 2023, but quit producing the aforementioned crops.
⁶⁵¹ I grew those crops in a state OTHER than Iowa.
652 I grew those crops but did NOT sell them.
653 My crops failed in 2023.
Other (please specify: 655)

Thank you for your time. Please return this questionnaire in the enclosed envelope.

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Response		Respondent		Mode		Enum.	Eval.	Change	Office Use for POID			
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7-Off Hold – Est				19-Other			9921		9907	9908	9906	9916