

# STATE SUMMARIES

## TABLE OF CONTENTS

---

### OVERVIEW 3

---

### ILLINOIS 4

TABLE 1. LAND TENURE AND FARM SIZE	4
TABLE 2. INCOME	4
TABLE 3. CROP + LIVESTOCK INTEGRATION	4
TABLE 4. MANAGEMENT PHILOSOPHY	5
TABLE 5. PRIMARY FARM ENTERPRISE	5
TABLE 6. FARM ENTERPRISES	6
TABLE 7: <i>CROPS+LIVESTOCK</i> MANAGEMENT PRACTICES	8
TABLE 8: <i>CROPS+LIVESTOCK</i> OBSERVED BENEFITS OF INTEGRATION	9
TABLE 9. <i>CROPS+LIVESTOCK</i> OBSERVED CHALLENGES OF INTEGRATION	10
TABLE 10. SOIL MANAGEMENT PRACTICES	11
TABLE 11. FARM PROGRAM USE	12
TABLE 12. ORGANIZATIONS	13

---

### INDIANA 14

TABLE 1. LAND TENURE AND FARM SIZE	14
TABLE 2. INCOME	14
TABLE 3. CROP + LIVESTOCK INTEGRATION	14
TABLE 4. MANAGEMENT PHILOSOPHY	15
TABLE 5. PRIMARY FARM ENTERPRISE	15
TABLE 6. FARM ENTERPRISES	16
TABLE 7: <i>CROPS+LIVESTOCK</i> MANAGEMENT PRACTICES	18
TABLE 8: <i>CROPS+LIVESTOCK</i> OBSERVED BENEFITS OF INTEGRATION	19
TABLE 9. <i>CROPS+LIVESTOCK</i> OBSERVED CHALLENGES OF INTEGRATION	20
TABLE 10. SOIL MANAGEMENT PRACTICES	21
TABLE 12. ORGANIZATIONS	23

---

### IOWA 24

TABLE 1. LAND TENURE AND FARM SIZE	24
TABLE 2. INCOME	24
TABLE 3. CROP + LIVESTOCK INTEGRATION	24
TABLE 4. MANAGEMENT PHILOSOPHY	25
TABLE 5. PRIMARY FARM ENTERPRISE	25
TABLE 6. FARM ENTERPRISES	26
TABLE 6. FARM ENTERPRISES CONTINUED	27

TABLE 7: <i>CROPS+LIVESTOCK</i> MANAGEMENT PRACTICES	28
TABLE 8: <i>CROPS+LIVESTOCK</i> OBSERVED BENEFITS OF INTEGRATION	29
TABLE 9: <i>CROPS+LIVESTOCK</i> OBSERVED CHALLENGES OF INTEGRATION	30
TABLE 10. SOIL MANAGEMENT PRACTICES	31
TABLE 11. FARM PROGRAM USE	32
TABLE 12. ORGANIZATIONS	33

---

<b>MINNESOTA</b>	<b>34</b>
------------------	-----------

TABLE 1. LAND TENURE AND FARM SIZE	34
TABLE 2. INCOME	34
TABLE 3. CROP + LIVESTOCK INTEGRATION	34
TABLE 4. MANAGEMENT PHILOSOPHY	35
TABLE 5. PRIMARY FARM ENTERPRISE	35
TABLE 6. FARM ENTERPRISES	36
TABLE 6. FARM ENTERPRISES CONTINUED	37
TABLE 7: <i>CROPS+LIVESTOCK</i> MANAGEMENT PRACTICES	38
TABLE 8: <i>CROPS+LIVESTOCK</i> OBSERVED BENEFITS OF INTEGRATION	39
TABLE 9: <i>CROPS+LIVESTOCK</i> OBSERVED CHALLENGES OF INTEGRATION	40
TABLE 10. SOIL MANAGEMENT PRACTICES	42
TABLE 11. FARM PROGRAM USE	43
TABLE 12. ORGANIZATIONS	44

---

<b>WISCONSIN</b>	<b>45</b>
------------------	-----------

TABLE 1. LAND TENURE AND FARM SIZE	45
TABLE 2. INCOME	45
TABLE 3. CROP + LIVESTOCK INTEGRATION	45
TABLE 4. MANAGEMENT PHILOSOPHY	46
TABLE 5. PRIMARY FARM ENTERPRISE	46
TABLE 6. FARM ENTERPRISES	47
TABLE 6. FARM ENTERPRISES CONTINUED	48
TABLE 7: <i>CROPS+LIVESTOCK</i> MANAGEMENT PRACTICES	49
TABLE 8: <i>CROPS+LIVESTOCK</i> OBSERVED BENEFITS OF INTEGRATION	50
TABLE 9: <i>CROPS+LIVESTOCK</i> OBSERVED CHALLENGES OF INTEGRATION	51
TABLE 10. SOIL MANAGEMENT PRACTICES	52
TABLE 11. FARM PROGRAM USE	53
TABLE 12. ORGANIZATIONS	54

# Overview

Q1: Number of responses by state	Opened survey: count	Completed 90% of survey: count
Colorado ‡	2	2
Illinois	117	60
Indiana	33	15
Iowa	157	79
Minnesota	464	231
Missouri ‡	5	5
Wisconsin	181	92
Other‡	70	69
Total	1,029	553

‡ Due to the small sample size, responses from this state are not summarized.

## **Symbols used throughout the report:**

\*\* = statistically significant, p-value <0.05

\*\* = statistically significant (different from other states), p-value <0.00001

† = lower value than observed for other states

‡ = higher value than observed for other states

# ILLINOIS

TABLE 1. Land Tenure and Farm Size

Q2-Q3: How many acres of land that you farmed in 2022 did you ...	# Acres, Median	# Acres, Average	Count
Q2: Own	125	223	117
Q3: Rent	20	213	117

TABLE 2. Income

Q49: What farming enterprise is your <u>primary</u> source of farm income?	Grain crops	Livestock	Forage Crops	Other	Count
Primary source of income	28 (51)**†	20 (36)**†	5 (9)**†	2 (4)	55
Q50: In 2022, about how much was your gross farming income?	< \$25,000 (%)	\$25,000 - \$99,999 (%)	\$100,000 - \$1,000,000 (%)	>\$1,000,000 (%)	Count
Gross farm income	14 (25)	17 (30)	23 (41)	2 (4)	56
Q51: In 2022, about how much of your total household income was from off-farm sources?	0-24%	25-49%	50-74%	75-100%	Count
Income from off-farm	24 (43)	9 (16)	8 (14)	15 (27)	56

TABLE 3. Crop + Livestock Integration

Q19: Does your farm operation currently have:	Livestock only, no crops (%)	Both livestock and crops (%)	Crops only, no livestock (%)	Count
Currently have	9 (15)	42 (71)	8 (14)	59
Q20: For about how many years have both livestock and crops been on your farm?	0-2 years	3-5 years	> 5 years	Count
Number years	2 (5)	8 (19)	32 (76)	42

TABLE 4. Management Philosophy

Q16: How much do the following match your farming approach?	Not at all (%)	A little (%)	Somewhat (%)	Quite a bit (%)	A great deal (%)	Count
Q16_1: High yields, up-to-date technology & equipment	12 (21)	6 (10)	20 (35)	11 (19)	9 (16)	58
Q16_2: Practices that ensure eligibility for Farm Bill	13 (22)	9 (16)	15 (26)	11 (19)	10 (17)	58
Q16_3: Soil health practices that minimize soil loss and nutrient run off	1 (2)	1 (2)	11 (19)	18 (31)	27 (47)	58

TABLE 5. Primary Farm Enterprise

Q13: Which of the following do you consider your primary farming enterprise?	Grain crops (%)	Livestock (%)	Forage crops (%)	Other (%)	Count
Primary enterprise	27 (47)	23 (40)	5 (9)	2 (4)	57

TABLE 6. Farm Enterprises

Q4: In the last three years, did you raise any of the following grain crops? Did you grow ...	Yes (%)	No (%)	Count
Q4_1: Corn for grain	36 (62)	22 (38)	58
Q4_2: Corn for silage	11 (20)**†	43 (80)**†	54
Q4_3: Soybeans	36 (62)	22 (38)	58
Q4_4: Wheat	20 (36)	35 (64)	55
Q4_5: Other small grains, such as rye, barley, oats or triticale?	16 (30)**†	38 (70)**†	54
Q4_6: Oilseeds, such as canola, sunflower, safflower, or flax	3 (6)	49 (94)	52
Q5: For this question, consider pasture and forages for livestock as crops. In the last three years, did you grow any of the following forage crops? Did you grow ...	Yes (%)	No (%)	Count
Q5_1: Hay, such as alfalfa, clover, grass or mix	44 (75)	15 (25)	59
Q5_2: Annual forages for livestock	34 (60)	23 (40)	57
Q5_3: Perennial pasture	36 (74)	13 (26)	49
Q6: In the last three years, did you grow any of the following kinds of crops? Did you grow ...	Yes (%)	No (%)	Count
Q6_1: Single-species cover crops	26 (43)	34 (57)	60
Q6_2: Multi-species cover crops	25 (43)	33 (57)	58
Q6_3: Vegetables or fruit	12 (21)	46 (79)	58
Q6_4: Sugar beets	1 (2)	56 (98)	57
Q6_5: Any other crops	3 (9)	31 (91)	34

TABLE 6: Farm Enterprises Continued

Q7-Q8: Livestock enterprises managed during last three years	Yes (%)	No (%)	Count
Q7: Did you raise livestock during the last three years?	50 ( 83)	10 (17)	60
Q8: For each of the following kinds of livestock, please indicate if you have them on your farm operation, either owned or custom raised:	Yes (%)	No (%)	Count
Q8_1: Beef, cow-calf pairs	34 (68)	16 (32)	50
Q8_2: Beef or dairy feeders	26 (56)	20 (43)	46
Q8_3: Beef or dairy finish	25 (56)	20 (44)	45
Q8_4: Dairy heifers	4 (10)	37 (90)	41
Q8_5: Dairy cows, lactating and dry	2 (5)	39 (95)	41
Q8_6: Sheep, hair	4 (10)	36 (90)	40
Q8_7: Sheep, wool or dairy	6 (15)	34 (85)	40
Q8_8: Sheep, wool or meat	11 (26)	31 (74)	42
Q8_9: Goats, dairy	2 (5)	39 (95)	41
Q8_10: Goats, meat	4 (10)	37 (90)	41
Q8_11: Hogs	17 (39)	27 (61)	44
Q8_12: Poultry	19 (44)	24 (56)	43
Q8_13: Other	0 (0)	30 (100)	30

TABLE 7: *Crops+Livestock* Management Practices

Q10-Q11: When did you use the following practices?	Used between 2022 - 2020 (%)	Used before 2020 (%)	Never used (%)	Count
Q10_1: Managed rotational grazing	32 (52)	21 (34)	9 (15)	62
Q10_2: Graze cover crops	18 (33)	18 (33)	19 (35)	55
Q10_3: Graze winter annual crops	15 (28)	16 (30)*‡	23 (43)	54
Q10_4: Graze summer crops	13 (25)	11 (21)	28 (54)	52
Q10_5: Graze crop residues	19 (35)	16 (29)	20 (36)	55
Q10_6: Feed green-chop during growing season	3 (7)	9 (20)	33 (73)	45
Q10_7: Bale graze	16 (31)	14 (27)	22 (42)	52
Q11_1: Feed dry hay	33 (45)	36 (49)	4 (5)	73
Q11_2: Feed haylage, baleage, oatlage, or similar feed	16 (31)	16 (31)	20 (38)	52
Q11_3: Feed corn silage	7 (14)*†	17 (34)	26 (52)**‡	50
Q11_4: Feed grain	26 (40)	31 (48)	8 (12)	55
Q11_5: Feed non-grain energy sources such as molasses or beet pulp	10 (19)	12 (23)	30 (58)	52
Q11_6: Feed Total Mixed Ration (TMR)	10 (20)	10 (20)	29 (60)	49
Q11_7: Purchase some or all of your grain as concentrates	21 (34)	22 (36)	18 (30)	61
Q11_8: Purchase some or all of your hay and forages	19 (33)	20 (34)	19 (33)	58



TABLE 8: *Crops+Livestock* Observed Benefits of Integration

Q21: To what extent have you observed the following?	Not at all (%)	A little (%)	Somewhat (%)	Quite a bit (%)	A great deal (%)	Count
Q21_1: reduction of feed costs for livestock	4 (10)	4 (10)	15 (37)	8 (20)	10 (24)	41
Q21_2: diversification of income streams	4 (10)	7 (17)	13 (31)	8 (19)	10 (24)	42
Q21_3: reduced financial risk	4 (10)	6 (15)	18 (44)	7 (17)	6 (15)	41
Q21_4: improvement in seasonal labor distribution	18 (45)*‡	6 (15)	9 (23)	3 (8)	4 (10)	40
Q21_5: improved soil health	1 (2)	6 (14)	12 (29)	13 (31)	10 (24)	42
Q21_6: improved conservation outcomes	1 (2)	7 (17)	9 (21)	14 (33)	11 (26)	42
Q21_7: being able to use manure as fertilizer	0 (0)	4 (10)	8 (20)	14 (34)	15 (37)	41
Q21_8: being able to break crop pest or weed cycles	2 (5)	7 (17)	11 (27)	14 (34)	7 (17)	41
Q21_9: increased manure spreading	3 (8)	10 (25)	7 (18)	10 (25)	10 (10)	40

TABLE 9. *Crops+Livestock* Observed Challenges of Integration

Q23-Q26: How challenging has it been to ...	Not at all (%)	A little (%)	Somewhat (%)	Very (%)	Extremely (%)	Count
Q23_1: afford the cost of additional equipment needed	4 (10)	10 (24)	14 (34)	10 (24)	3 (7)	41
Q23_2: install and maintain fencing	2 (5)	10 (24)	11 (26)	13 (31)	6 (14)	42
Q23_3: provide watering facilities	5 (12)	2 (5)*†	13 (31)	17 (41)*†	5 (12)	42
Q23_4: provide livestock housing	5 (12)	12 (29)	8 (20)*†	13 (32)	3 (7)	41
Q24_1: find adequate land	8 (19)	8 (19)	11 (26)	8 (19)	7 (17)	42
Q24_2: obtain veterinary services	18 (43)	9 (21)	8 (19)	4 (10)	3 (7)	42
Q24_3: manage nutrients	13 (33)*‡	8 (20)	15 (38)	3 (8)	1 (3)	40
Q24_4: manage cropland compaction from livestock	16 (39)*‡	6 (15)*†	11 (27)	8 (20)	0 (0)	41
Q24_5: manage weed and pest problems in grazed crop fields	13 (31)	11 (26)	13 (31)	4 (10)	1 (2)	42
Q25_1: find information	14 (33)	7 (17)*†	15 (36)	6 (14)	0 (0)	42
Q25_2: find or maintain labor	5 (12)	12 (29)	10 (24)	6 (14)	9 (21)	42
Q25_3: manage your time	1 (2)	5 (12)	18 (43)	12 (29)	6 (14)	42
Q26_1: find financing	17 (41)	11 (26)	9 (21)	4 (10)	1 (2)	42
Q26_2: generate enough income	4 (10)	8 (19)	16 (38)	11 (26)	3 (7)	42
Q26_3: access markets	3 (7)	11 (27)	19 (46)	7 (17)	1 (2)	41
Q26_4: obtain a premium for your products	1 (2)	6 (15)	14 (34)	13 (32)	7 (17)	41
Q26_5: find adequate local processing	5 (13)	5 (13)	9 (23)	11 (28)	10 (25)	40

TABLE 10. Soil Management Practices

Q14. Please tell us <u>when</u> you used the following tillage practices. Check all that apply.	Used between 2022 and 2020	Used before 2020	Never used	Count
Q14_1: Fall tillage	16 (24)	25 (38)	25 (38)	66
Q14_2: Reduced tillage	27 (42)	22 (34)	16 (25)	65
Q14_3: No-till	33 (63)	7 (13)*†	12 (23)	52
Q14_4: Leave crop residue on fields	31 (40)	32 (42)	14 (18)	77
Q14_5: Winter cover crop and roller crimper	15 (25)	15 (25)*†	30 (50)	60
Q14_6: Untilled perennials	14 (22)	22 (36)	25 (41)	61
Q15. Please tell us <u>when</u> you used the following fertility management practices. Check all that apply.	Used between 2022 and 2020	Used before 2020	Never used	Count
Q15_1: Soil testing for NPK	34 (43)	40 (50)	6 (8)	80
Q15_2: Soil health testing	25 (38)	18 (27)	23 (35)	66
Q15_3: Used purchased synthetic fertilizers	32 (41)	32 (41)	14 (18)	78
Q15_4: Apply manure to fields or pastures	33 (41)	37 (46)	11 (14)**‡	81
Q15_5: Returned cover crops or legume forages to the soil as a nutrient source for subsequent crops	18 (27)	19 (28)	30 (45)**‡	67
Q15_6: Cover crop tissue testing to measure fertility value of cover crop	2 (4)	4 (7)	49 (89)	55

TABLE 11. Farm Program Use

Q47. In the last three years, have you used ...	Yes (%)	No (%)	Count
Q47_1 : Environmental Quality Incentives Program (EQIP)	12 (22)**†	43 (78)**‡	55
Q47_2 : Conservation Stewardship Program (CSP)	9 (17)	45 (83)	54
Q47_3: Conservation Reserve Program (CRP)	12 (22)	42 (78)	54
Q47_4: local or county conservation program	11 (20)*†	45 (80)*‡	56
Q47_5: state conservation program	12 (22)	42 (78)	54
Q47_6: program funded by non-governmental organization	10 (19)	43 (81)	53
Q47_7: program funded by private sector, such as input suppliers or food companies	12 (23)	41 (77)	53
Q47_8: federal crop subsidies	21 (39)	33 (61)	54
Q47_9: crop insurance	26 (46)	30 (54)	56

TABLE 12. Organizations

Q52. Did you hear about this survey from any of the following organizations?	Yes (%)	No (%)	Count
Q52_1 : Green Lands, Blue Waters	12 (26)	35 (75)	47
Q52_2 : Corn Growers Association	4 (8)	44 (92)	48
Q52_3: Soybean Growers Association	5 (10)	43 (90)	48
Q52_4: Cattlemen's Association	5 (10)**†	44 (90)**†	49
Q52_5: GrassWorks	8 (17)	40 (83)	48
Q52_6: Sustainable Farming Association	8 (16)	41 (84)	49
Q52_7: Practical Farmers of Iowa	4 (8)	45 (92)	49
Q52_8: Land Stewardship Project	5 (10)	43 (90)	48
Q52_9: University Extension	7 (14)**†	43 (86)**†	50
Q52_10: some other organization	18 (56)	14 (44)	32

Other:

- Illinois Forage and Grassland Council: 19
- NRCS: 3
- Press article, google search, University, Center for Regenerative Ag: 10

# INDIANA

TABLE 1. Land Tenure and Farm Size

Q2-Q3: How many acres of land that you farmed in 2022 did you ...	# Acres, Median	# Acres, Average	Count
Q2: Own	30	82	33
Q3: Rent	0	121	33

TABLE 2. Income

Q49: What farming enterprise is your <u>primary</u> source of farm income?	Grain crops	Livestock	Forage Crops	Other	Count
Primary source of income	6 (38)	7 (44)	0 (0)	3 (19)	16
Q50: In 2022, about how much was your gross farming income?	< \$25,000 (%)	\$25,000 - \$99,999 (%)	\$100,000 - \$1,000,000 (%)	>\$1,000,000 (%)	Count
Gross farm income	6 (38)	6 (38)	3 (19)	1 (6)	16
Q51: In 2022, about how much of your total household income was from off-farm sources?	0-24%	25-49%	50-74%	75-100%	Count
Income from off-farm	4 (25)	0 (0)*†	4 (25)	8 (50)*†	16

TABLE 3. Crop + Livestock Integration

Q19: Does your farm operation currently have:	Livestock only, no crops (%)	Both livestock and crops (%)	Crops only, no livestock (%)	Count
Currently have	1 (6)	12 (75)	3 (19)	16
Q20: For about how many years have both livestock and crops been on your farm?	0-2 years	3-5 years	> 5 years	Count
Number years	2 (17)	0 (0)	10 (83)	12

TABLE 4. Management Philosophy

Q16: How much do the following match your farming approach?	Not at all (%)	A little (%)	Somewhat (%)	Quite a bit (%)	A great deal (%)	Count
Q16_1: High yields, up-to-date technology & equipment	3 (19)	5 (31)	5 (31)	3 (19)	0 (0)	16
Q16_2: Practices that ensure eligibility for Farm Bill	8 (50)**‡	2 (13)	2 (13)	1 (6)	3 (19)	16
Q16_3: Soil health practices that minimize soil loss and nutrient run off	0 (0)	1 (6)	2 (13)	3 (19)	10 (63)	16

TABLE 5. Primary Farm Enterprise

Q13: Which of the following do you consider your primary farming enterprise?	Grain crops (%)	Livestock (%)	Forage crops (%)	Other (%)	Count
Primary enterprise	5 (31)	6 (38)	2 (13)	3 (19)**‡	16

TABLE 6. Farm Enterprises

Q4: In the last three years, did you raise any of the following grain crops? Did you grow ...	Yes (%)	No (%)	Count
Q4_1: Corn for grain	5 (31)*†	11 (69)*‡	16
Q4_2: Corn for silage	0 (0)**†	16 (100)**‡	16
Q4_3: Soybeans	4 (25)*†	12 (75)*‡	16
Q4_4: Wheat	4 (25)	12 (75)	16
Q4_5: Other small grains, such as rye, barley, oats or triticale?	3 (19)*†	13 (81)*‡	16
Q4_6: Oilseeds, such as canola, sunflower, safflower, or flax	1 (6)	15 (94)	16
Q5: For this question, consider pasture and forages for livestock as crops. In the last three years, did you grow any of the following forage crops? Did you grow ...	Yes (%)	No (%)	Count
Q5_1: Hay, such as alfalfa, clover, grass or mix	9 (60)**†	6 (40)**‡	15
Q5_2: Annual forages for livestock	10 (63)	6 (38)	16
Q5_3: Perennial pasture	8 (67)	4 (33)	12
Q6: In the last three years, did you grow any of the following kinds of crops? Did you grow ...	Yes (%)	No (%)	Count
Q6_1: Single-species cover crops	6 (40)	9 (60)	15
Q6_2: Multi-species cover crops	10 (63)	6 (38)	16
Q6_3: Vegetables or fruit	5 (33)	10 (67)	15
Q6_4: Sugar beets	0 (0)	15 (100)	15
Q6_5: Any other crops	4 (27)*‡	11 (73)*†	15



TABLE 6: Farm Enterprises Continued

Q7-Q8: Livestock enterprises managed during last three years	Yes (%)	No (%)	Count
Q7: Did you raise livestock during the last three years?	14 (88)	2 (13)	16
Q8: For each of the following kinds of livestock, please indicate if you have them on your farm operation, either owned or custom raised:	Yes (%)	No (%)	Count
Q8_1: Beef, cow-calf pairs	7 (50)**†	7 (50)**†	14
Q8_2: Beef or dairy feeders	9 (64)	5 (36)	14
Q8_3: Beef or dairy finish	6 (43)	8 (57)	14
Q8_4: Dairy heifers	2 (14)	12 (86)	14
Q8_5: Dairy cows, lactating and dry	2 (14)	12 (86)	14
Q8_6: Sheep, hair	3 (21)	11 (79)	14
Q8_7: Sheep, wool or dairy	1 (7)	13 (93)	14
Q8_8: Sheep, wool or meat	5 (36)*†	9 (64)*†	14
Q8_9: Goats, dairy	1 (7)	13 (93)	14
Q8_10: Goats, meat	2 (14)	12 (86)	14
Q8_11: Hogs	4 (29)	10 (71)	14
Q8_12: Poultry	6 (43)	8 (57)	14
Q8_13: Other	0 (0)	12 (100)	12

TABLE 7: *Crops+Livestock* Management Practices

Q10-Q11: When did you use the following practices?	Used between 2022 - 2020 (%)	Used before 2020 (%)	Never used (%)	Count
Q10_1: Managed rotational grazing	8 (44)	7 (39)	3 (17)	18
Q10_2: Graze cover crops	6 (35)	5 (30)	6 (35)	17
Q10_3: Graze winter annual crops	6 (38)	4 (25)	6 (38)	16
Q10_4: Graze summer crops	6 (40)	5 (33)	4 (27)	15
Q10_5: Graze crop residues	4 (25)	4 (25)	8 (50)	16
Q10_6: Feed green-chop during growing season	1 (8)	1 (8)	10 (83)	12
Q10_7: Bale graze	7 (41)	5 (29)	5 (29)	17
Q11_1: Feed dry hay	12 (57)	8 (38)	1 (5)	21
Q11_2: Feed haylage, baleage, oatlage, or similar feed	4 (25)	3 (19)	9 (56)*†	16
Q11_3: Feed corn silage	0 (0)*†	2 (14)	12 (86)**‡	14
Q11_4: Feed grain	10 (56)	5 (28)	3 (17)	18
Q11_5: Feed non-grain energy sources such as molasses or beet pulp	3 (18)	4 (24)	10 (59)	17
Q11_6: Feed Total Mixed Ration (TMR)	1 (7)	2 (14)	11 (79)	14
Q11_7: Purchase some or all of your grain as concentrates	8 (47)	4 (24)	5 (29)	17
Q11_8: Purchase some or all of your hay and forages	8 (50)	6 (32)	5 (26)	19

TABLE 8: *Crops+Livestock* Observed Benefits of Integration

Q21: To what extent have you observed the following?	Not at all (%)	A little (%)	Somewhat (%)	Quite a bit (%)	A great deal (%)	Count
Q21_1: reduction of feed costs for livestock	1 (9)	3 (27)	1 (9)	4 (36)	2 (18)	11
Q21_2: diversification of income streams	1 (8)	1 (8)	4 (33)	4 (33)	2 (17)	12
Q21_3: reduced financial risk	1 (9)	4 (36)**	5 (46)	0 (0)**	1 (9)	11
Q21_4: improvement in seasonal labor distribution	6 (55)	1 (9)	3 (27)	0 (0)	1 (9)	11
Q21_5: improved soil health	0 (0)	1 (9)	2 (18)	5 (46)	3 (27)	11
Q21_6: improved conservation outcomes	0 (0)	2 (18)	2 (18)	4 (36)	3 (27)	11
Q21_7: being able to use manure as fertilizer	2 (18)**	1 (9)	2 (18)	3 (27)	3 (27)	11
Q21_8: being able to break crop pest or weed cycles	1 (9)	4 (36)	3 (27)	1 (9)	2 (18)	11
Q21_9: increased manure spreading	5 (46)**	2 (18)	1 (9)	2 (18)	1 (9)	11

TABLE 9. *Crops+Livestock* Observed Challenges of Integration

Q23-Q26: How challenging has it been to ...	Not at all (%)	A little (%)	Somewhat (%)	Very (%)	Extremely (%)	Count
Q23_1: afford the cost of additional equipment needed	0 (0)	3 (25)	3 (25)	6 (50)	0 (0)	12
Q23_2: install and maintain fencing	0 (0)	4 (33)	4 (33)	3 (25)	1 (8)	12
Q23_3: provide watering facilities	2 (17)	2 (17)	5 (42)	3 (25)	0 (0)	12
Q23_4: provide livestock housing	2 (17)	3 (25)	4 (33)	3 (25)	0 (0)	12
Q24_1: find adequate land	4 (36)**	1 (9)	2 (18)	3 (27)	1 (9)	11
Q24_2: obtain veterinary services	4 (36)	4 (36)	2 (18)	0 (0)	1 (9)	11
Q24_3: manage nutrients	3 (27)	3 (27)	5 (46)	0 (0)	0 (0)	11
Q24_4: manage cropland compaction from livestock	4 (36)	4 (36)	3 (27)	0 (0)	0 (0)	11
Q24_5: manage weed and pest problems in grazed crop fields	5 (46)	1 (9)	4 (36)	1 (9)	0 (0)	11
Q25_1: find information	2 (17)	2 (17)	8 (67)**	0 (0)	0 (0)	12
Q25_2: find or maintain labor	3 (27)	2 (18)	3 (27)	2 (18)	1 (9)	11
Q25_3: manage your time	0 (0)	4 (33)	3 (25)	3 (25)	2 (17)	12
Q26_1: find financing	4 (36)	2 (18)	1 (9)	4 (36)	0 (0)	11
Q26_2: generate enough income	0 (0)	1 (8)	3 (25)	6 (50)	2 (17)	12
Q26_3: access markets	0 (0)	3 (25)	7 (58)	2 (17)	0 (0)	12
Q26_4: obtain a premium for your products	1 (8)	2 (17)	3 (25)	5 (42)	1 (8)	12
Q26_5: find adequate local processing	4 (33)	0 (0)	1 (8)	6 (50)	1 (8)	12

TABLE 10. Soil Management Practices

Q14. Please tell us <u>when</u> you used the following tillage practices. Check all that apply.	Used between 2022 and 2020	Used before 2020	Never used	Count
Q14_1: Fall tillage	6 (30)	5 (25)	9 (45)	20
Q14_2: Reduced tillage	6 (38)*‡	6 (38)	4 (25)*‡	16
Q14_3: No-till	13 (62)	7 (33)	1 (5)	21
Q14_4: Leave crop residue on fields	12 (55)	7 (32)	3 (14)	22
Q14_5: Winter cover crop and roller crimper	4 (25)	1 (6)	11 (69)	16
Q14_6: Untilled perennials	6 (33)	5 (28)	7 (39)	18
Q15. Please tell us <u>when</u> you used the following fertility management practices. Check all that apply.	Used between 2022 and 2020	Used before 2020	Never used	Count
Q15_1: Soil testing for NPK	9 (43)	8 (38)	4 (19)	21
Q15_2: Soil health testing	6 (35)	3 (18)	8 (47)	17
Q15_3: Used purchased synthetic fertilizers	8 (38)	8 (38)	5 (24)	21
Q15_4: Apply manure to fields or pastures	8 (42)	7 (37)	4 (21)	19
Q15_5: Returned cover crops or legume forages to the soil as a nutrient source for subsequent crops	12 (55)*‡	6 (27)	4 (18)	22
Q15_6: Cover crop tissue testing to measure fertility value of cover crop	1 (6)	0 (0)	15 (94)	16

TABLE 11. Farm Program Use

Q47. In the last three years, have you used ...	Yes (%)	No (%)	Count
Q47_1 : Environmental Quality Incentives Program (EQIP)	5 (33)	10 (67)	15
Q47_2 : Conservation Stewardship Program (CSP)	2 (13)	14 (88)	16
Q47_3: Conservation Reserve Program (CRP)	2 (13)	14 (88)	16
Q47_4: local or county conservation program	4 (27)	11 (73)	15
Q47_5: state conservation program	4 (25)	12 (75)	16
Q47_6: program funded by non-governmental organization	2 (13)	14 (88)	16
Q47_7: program funded by private sector, such as input suppliers or food companies	2 (13)	14 (88)	16
Q47_8: federal crop subsidies	4 (25)	12 (75)	16
Q47_9: crop insurance	3 (19)	13 (81)	16

TABLE 12. Organizations

Q52. Did you hear about this survey from any of the following organizations?	Yes (%)	No (%)	Count
Q52_1 : Green Lands, Blue Waters	3 (23)	10 (77)	13
Q52_2 : Corn Growers Association	0 (0)	13 (100)	13
Q52_3: Soybean Growers Association	0 (0)	13 (100)	13
Q52_4: Cattlemen's Association	0 (0)	13 (100)	13
Q52_5: GrassWorks	0 (0)	13 (100)	13
Q52_6: Sustainable Farming Association	2 (15)	11 (85)	13
Q52_7: Practical Farmers of Iowa	0 (0)	13 (100)	13
Q52_8: Land Stewardship Project	1 (8)	12 (92)	13
Q52_9: University Extension	5 (38)	8 (62)	13
Q52_10: some other organization	8 (62)	5 (38)	13

Other:

- NRCS: 4
- PFF: 1
- Individual: 3

# IOWA

TABLE 1. Land Tenure and Farm Size

Q2-Q3: How many acres of land that you farmed in 2022 did you ...	# Acres, Median	# Acres, Average	Count
Q2: Own	180	282	157
Q3: Rent	92	276	157

TABLE 2. Income

Q49: What farming enterprise is your <u>primary</u> source of farm income?	Grain crops	Livestock	Forage Crops	Other	Count
Primary source of income	29 (39)	43 (57)	1 (3)	2 (7)	75
Q50: In 2022, about how much was your gross farming income?	< \$25,000 (%)	\$25,000 - \$99,999 (%)	\$100,000 - \$1,000,000 (%)	>\$1,000,000 (%)	Count
Gross farm income	15 (20)	19 (26)	32 (43)	8 (11)	74
Q51: In 2022, about how much of your total household income was from off-farm sources?	0-24%	25-49%	50-74%	75-100%	Count
Income from off-farm	34 (47)**†	8 (11)*†	17 (23)	14 (19)	73

TABLE 3. Crop + Livestock Integration

Q19: Does your farm operation currently have:	Livestock only, no crops (%)	Both livestock and crops (%)	Crops only, no livestock (%)	Count
Currently have	5 (6)	70 (89)	4 (5)	79
Q20: For about how many years have both livestock and crops been on your farm?	0-2 years	3-5 years	> 5 years	Count
Number years	4 (6)	3 (4)*†	63 (90)	70



TABLE 4. Management Philosophy

Q16: How much do the following match your farming approach?	Not at all (%)	A little (%)	Somewhat (%)	Quite a bit (%)	A great deal (%)	Count
Q16_1: High yields, up-to-date technology & equipment	8 (10)*†	17 (22)	26 (33)	18 (23)	10 (13)	79
Q16_2: Practices that ensure eligibility for Farm Bill	6 (8)**†	10 (13)	18 (24)	21 (28)	21 (28)**†	76
Q16_3: Soil health practices that minimize soil loss and nutrient run off	0 (0)	3 (4)	7 (9)*†	25 (32)	44 (56)**†	79

TABLE 5. Primary Farm Enterprise

Q13: Which of the following do you consider your primary farming enterprise?	Grain crops (%)	Livestock (%)	Forage crops (%)	Other (%)	Count
Primary enterprise	28 (35)	47 (60)	2 (3)	2 (3)	79

TABLE 6. Farm Enterprises

Q4: In the last three years, did you raise any of the following grain crops? Did you grow ...	Yes (%)	No (%)	Count
Q4_1: Corn for grain	60 (79)**‡	16 (21)**‡	76
Q4_2: Corn for silage	36 (49)*‡	37 (51)*‡	73
Q4_3: Soybeans	56 (75)**‡	19 (25)**‡	75
Q4_4: Wheat	4 (6)**‡	64 (94)**‡	68
Q4_5: Other small grains, such as rye, barley, oats or triticale?	34 (46)	40 (54)	74
Q4_6: Oilseeds, such as canola, sunflower, safflower, or flax	2 (3)	64 (97)	66
Q5: For this question, consider pasture and forages for livestock as crops. In the last three years, did you grow any of the following forage crops? Did you grow ...	Yes (%)	No (%)	Count
Q5_1: Hay, such as alfalfa, clover, grass or mix	73 (92)*‡	6 (8)*‡	79
Q5_2: Annual forages for livestock	53 (71)	22 (29)	75
Q5_3: Perennial pasture	63 (82)	14 (18)	77
Q6: In the last three years, did you grow any of the following kinds of crops? Did you grow ...	Yes (%)	No (%)	Count
Q6_1: Single-species cover crops	53 (68)**‡	25 (32)**‡	78
Q6_2: Multi-species cover crops	27 (36)	49 (65)	76
Q6_3: Vegetables or fruit	9 (13)	63 (88)	72
Q6_4: Sugar beets	2 (3)	71 (97)	73
Q6_5: Any other crops	1 (2)*‡	55 (98)*‡	56

TABLE 6. Farm Enterprises Continued

Q7-Q8: Livestock enterprises managed during last three years	Yes (%)	No (%)	Count
Q7: Did you raise livestock during the last three years?	75 (95)	4 (5)	79
Q8: For each of the following kinds of livestock, please indicate if you have them on your farm operation, either owned or custom raised:	Yes (%)	No (%)	Count
Q8_1: Beef, cow-calf pairs	67 (91)**	7 (10)**	74
Q8_2: Beef or dairy feeders	32 (47)	36 (53)	68
Q8_3: Beef or dairy finish	48 (72)**	19 (28)**	67
Q8_4: Dairy heifers	3 (5)**	60 (95)**	63
Q8_5: Dairy cows, lactating and dry	2 (3)	61 (97)	63
Q8_6: Sheep, hair	3 (5)	61 (95)	64
Q8_7: Sheep, wool or dairy	3 (5)	60 (95)	63
Q8_8: Sheep, wool or meat	8 (13)	55 (87)	63
Q8_9: Goats, dairy	2 (3)	62 (97)	64
Q8_10: Goats, meat	5 (8)	58 (92)	63
Q8_11: Hogs	18 (27)	48 (73)	66
Q8_12: Poultry	19 (3)	46 (71)	65
Q8_13: Other	5 (10)	45 (90)	50

TABLE 7: *Crops+Livestock* Management Practices

Q10-Q11: When did you use the following practices?	Used between 2022 - 2020 (%)	Used before 2020 (%)	Never used (%)	Count
Q10_1: Managed rotational grazing	35 (36)*†	42 (44)	19 (20)	96
Q10_2: Graze cover crops	25 (29)	30 (35)*†	30 (35)	85
Q10_3: Graze winter annual crops	14 (19)	15 (21)	44 (60)	73
Q10_4: Graze summer crops	16 (22)	17 (24)	39 (54)	72
Q10_5: Graze crop residues	30 (33)	44 (48)**†	17 (19)*†	91
Q10_6: Feed green-chop during growing season	6 (9)	7 (10)	55 (81)	68
Q10_7: Bale graze	19 (26)	15 (21)	39 (53)	73
Q11_1: Feed dry hay	48 (43)	62 (55)	2 (2)	112
Q11_2: Feed haylage, baleage, oatlage, or similar feed	19 (23)	31 (38)	31 (38)	81
Q11_3: Feed corn silage	22 (26)	37 (43)	27 (31)	86
Q11_4: Feed grain	39 (39)	53 (52)*†	9 (9)	101
Q11_5: Feed non-grain energy sources such as molasses or beet pulp	12 (17)	16 (22)	44 (61)	72
Q11_6: Feed Total Mixed Ration (TMR)	24 (28)**†	31 (36)**†	30 (35)*†	85
Q11_7: Purchase some or all of your grain as concentrates	35 (38)	46 (49)*†	12 (13)*†	93
Q11_8: Purchase some or all of your hay and forages	30 (35)	31 (36)	24 (28)	85

TABLE 8: *Crops+Livestock* Observed Benefits of Integration

Q21: To what extent have you observed the following?	Not at all (%)	A little (%)	Somewhat (%)	Quite a bit (%)	A great deal (%)	Count
Q21_1: reduction of feed costs for livestock	6 (9)	3 (4)	15 (21)*†	25 (36)	21 (30)*‡	70
Q21_2: diversification of income streams	3 (4)	9 (13)	13 (19)	23 (33)	21 (30)**‡	69
Q21_3: reduced financial risk	9 (13)	9 (13)	23 (33)	18 (26)	11 (16)	70
Q21_4: improvement in seasonal labor distribution	15 (22)	9 (13)	25 (36)	14 (20)	6 (9)	69
Q21_5: improved soil health	2 (3)	3 (4)*†	17 (25)	29 (42)	18 (26)	69
Q21_6: improved conservation outcomes	1 (1)	6 (9)	15 (22)	30 (44)	17 (25)	69
Q21_7: being able to use manure as fertilizer	1 (1)	5 (7)	12 (17)	21 (30)	30 (44)	69
Q21_8: being able to break crop pest or weed cycles	4 (6)	13 (19)	23 (33)	13 (19)	16 (23)	69
Q21_9: increased manure spreading	4 (6)	10 (15)	20 (29)	16 (23)	19 (28)	69

TABLE 9. *Crops+Livestock* Observed Challenges of Integration

Q23-Q26: How challenging has it been to ...	Not at all (%)	A little (%)	Somewhat (%)	Very (%)	Extremely (%)	Count
Q23_1: afford the cost of additional equipment needed	6 (9)	10 (15)	30 (44)	17 (25)	6 (9)	69
Q23_2: install and maintain fencing	6 (9)	10 (15)	23 (34)	18 (27)	11 (16)	68
Q23_3: provide watering facilities	9 (13)	17 (25)*†	24 (35)	13 (19)	6 (9)	69
Q23_4: provide livestock housing	7 (10)	14 (21)	25 (37)	15 (22)	7 (10)	68
Q24_1: find adequate land	8 (12)	10 (15)	9 (13)*†	19 (28)	23 (33)	69
Q24_2: obtain veterinary services	40 (58)**‡	14 (20)	10 (15)	3 (4)	2 (3)	69
Q24_3: manage nutrients	16 (23)	31 (45)*†	18 (26)*†	3 (4)	1 (1)	69
Q24_4: manage cropland compaction from livestock	13 (19)	26 (38)	18 (26)	8 (12)	4 (6)	69
Q24_5: manage weed and pest problems in grazed crop fields	23 (34)**‡	21 (31)	17 (25)	5 (7)	2 (3)	68
Q25_1: find information	17 (25)	27 (40)	20 (29)	2 (3)*†	2 (3)	68
Q25_2: find or maintain labor	11 (16)	17 (25)	14 (21)	19 (28)	6 (9)	67
Q25_3: manage your time	4 (6)	17 (25)	29 (43)	11 (16)*†	7 (10)	68
Q26_1: find financing	29 (43)	17 (25)	12 (18)	6 (9)	4 (6)	68
Q26_2: generate enough income	4 (6)	18 (27)*†	23 (34)	14 (21)*†	9 (13)	68
Q26_3: access markets	17 (25)	20 (29)	20 (29)	6 (9)	5 (7)	68
Q26_4: obtain a premium for your products	5 (8)	10 (15)	19 (28)	23 (34)	10 (15)	67
Q26_5: find adequate local processing	9 (13)	13 (19)	17 (25)	19 (28)	9 (13)	67

TABLE 10. Soil Management Practices

Q14. Please tell us <u>when</u> you used the following tillage practices. Check all that apply.	Used between 2022 and 2020	Used before 2020	Never used	Count
Q14_1: Fall tillage	14 (16)	37 (44)	34 (40)**†	85
Q14_2: Reduced tillage	35 (42)	31 (37)	18 (21)	84
Q14_3: No-till	38 (36)	48 (46)	19 (18)	105
Q14_4: Leave crop residue on fields	42 (39)	56 (51)**‡	11 (10)**†	109
Q14_5: Winter cover crop and roller crimper	11 (15)	13 (18)	49 (67)	73
Q14_6: Untilled perennials	19 (23)	24 (29)	39 (48)	82
Q15. Please tell us <u>when</u> you used the following fertility management practices. Check all that apply.	Used between 2022 and 2020	Used before 2020	Never used	Count
Q15_1: Soil testing for NPK	39 (35)	59 (54)	12 (11)	110
Q15_2: Soil health testing	20 (24)	33 (39)	31 (37)	84
Q15_3: Used purchased synthetic fertilizers	39 (36)	59 (55)	9 (8)	107
Q15_4: Apply manure to fields or pastures	47 (41)	62 (54)	6 (5)	115
Q15_5: Returned cover crops or legume forages to the soil as a nutrient source for subsequent crops	32 (34)	39 (42)	22 (24)	93
Q15_6: Cover crop tissue testing to measure fertility value of cover crop	4 (6)	3 (4)	62 (90)	69

TABLE 11. Farm Program Use

Q47. In the last three years, have you used ...	Yes (%)	No (%)	Count
Q47_1 : Environmental Quality Incentives Program (EQIP)	36 (47)	40 (53)	76
Q47_2 : Conservation Stewardship Program (CSP)	25 (33)	51 (67)	76
Q47_3: Conservation Reserve Program (CRP)	32 (42)**†	44 (58)**†	76
Q47_4: local or county conservation program	20 (27)	55 (73)	75
Q47_5: state conservation program	28 (37)	48 (63)	76
Q47_6: program funded by non-governmental organization	16 (21)	60 (79)	76
Q47_7: program funded by private sector, such as input suppliers or food companies	5 (7)*†	71 (93)*†	76
Q47_8: federal crop subsidies	35 (46)	41 (54)	76
Q47_9: crop insurance	49 (65)*†	26 (35)*†	75



TABLE 12. Organizations

Q52. Did you hear about this survey from any of the following organizations?	Yes (%)	No (%)	Count
Q52_1 : Green Lands, Blue Waters	4 (6)**†	62 (94)**†	66
Q52_2 : Corn Growers Association	5 (8)	61 (92)	66
Q52_3: Soybean Growers Association	5 (8)	61 (92)	66
Q52_4: Cattlemen's Association	26 (38)	42 (62)	68
Q52_5: GrassWorks	2 (3)**†	55 (97)**†	57
Q52_6: Sustainable Farming Association	3 (5)**†	63 (95)**†	66
Q52_7: Practical Farmers of Iowa	20 (29)**†	48 (71)**†	68
Q52_8: Land Stewardship Project	9 (13)	59 (87)	68
Q52_9: University Extension	37 (57)	28 (43)	65
Q52_10: some other organization	6 (13)**†	40 (87)**†	46

Other:

- Iowa Beef Center: 2
- Soil & Water Conservation Service: 2
- Successful Farming Magazine: 1
- REGAIN Network: 1

# MINNESOTA

TABLE 1. Land Tenure and Farm Size

Q2-Q3: How many acres of land that you farmed in 2022 did you ...	# Acres, Median	# Acres, Average	Count
Q2: Own	185	313	458
Q3: Rent	130	275	456

TABLE 2. Income

Q49: What farming enterprise is your <u>primary</u> source of farm income?	Grain crops	Livestock	Forage Crops	Other	Count
Primary source of income	49 (25)**†	136 (69)**†	5 (3)	7 (4)	197
Q50: In 2022, about how much was your gross farming income?	< \$25,000 (%)	\$25,000 - \$99,999 (%)	\$100,000 - \$1,000,000 (%)	>\$1,000,000 (%)	Count
Gross farm income	44 (21)	77 (37)	75 (36)	11 (5)	207
Q51: In 2022, about how much of your total household income was from off-farm sources?	0-24%	25-49%	50-74%	75-100%	Count
Income from off-farm	69 (33)	48 (23)	39 (19)*†	54 (26)	210

TABLE 3. Crop + Livestock Integration

Q19: Does your farm operation currently have:	Livestock only, no crops (%)	Both livestock and crops (%)	Crops only, no livestock (%)	Count
Currently have	29 (13)	195 (85)	6 (3)**†	230
Q20: For about how many years have both livestock and crops been on your farm?	0-2 years	3-5 years	> 5 years	Count
Number years	7 (4)	15 (8)**†	171 (89)**†	193

TABLE 4. Management Philosophy

Q16: How much do the following match your farming approach?	Not at all (%)	A little (%)	Somewhat (%)	Quite a bit (%)	A great deal (%)	Count
Q16_1: High yields, up-to-date technology & equipment	48 (22)	62 (28)*†	55 (25)	32 (14)*†	25 (11)	222
Q16_2: Practices that ensure eligibility for Farm Bill	58 (26)*†	40 (18)	41 (19)	54 (24)	29 (13)	222
Q16_3: Soil health practices that minimize soil loss and nutrient run off	13 (6)**‡	25 (11)**‡	52 (23)*†	72 (32)	66 (29)**†	228

TABLE 5. Primary Farm Enterprise

Q13: Which of the following do you consider your primary farming enterprise?	Grain crops (%)	Livestock (%)	Forage crops (%)	Other (%)	Count
Primary enterprise	46 (22)**†	145 (70)**‡	8 (4)	9 (4)	208

TABLE 6. Farm Enterprises

Q4: In the last three years, did you raise any of the following grain crops? Did you grow ...	Yes (%)	No (%)	Count
Q4_1: Corn for grain	120 (54)	102 (46)	222
Q4_2: Corn for silage	91 (41)	130 (59)	221
Q4_3: Soybeans	94 (44)**†	122 (57)**†	216
Q4_4: Wheat	30 (14)**†	179 (86)**†	209
Q4_5: Other small grains, such as rye, barley, oats or triticale?	118 (53)	106 (47)	224
Q4_6: Oilseeds, such as canola, sunflower, safflower, or flax	7 (3)**†	198 (97)**†	205
Q5: For this question, consider pasture and forages for livestock as crops. In the last three years, did you grow any of the following forage crops? Did you grow ...	Yes (%)	No (%)	Count
Q5_1: Hay, such as alfalfa, clover, grass or mix	202 (89)*‡	25 (11)*†	227
Q5_2: Annual forages for livestock	134 (63)	78 (37)	212
Q5_3: Perennial pasture	175 (80)	45 (21)	220
Q6: In the last three years, did you grow any of the following kinds of crops? Did you grow ...	Yes (%)	No (%)	Count
Q6_1: Single-species cover crops	99 (45)**†	123 (55)**†	222
Q6_2: Multi-species cover crops	84 (39)**†	134 (62)**†	218
Q6_3: Vegetables or fruit	28 (13)**†	182 (87)**†	210
Q6_4: Sugar beets	1 (1)**†	208 (99)**†	209
Q6_5: Any other crops	11 (13)	74 (87)	85

TABLE 6. Farm Enterprises Continued

Q7-Q8: Livestock enterprises managed during last three years	Yes (%)	No (%)	Count
Q7: Did you raise livestock during the last three years?	227 (97)**†	6 (3)**†	233
Q8: For each of the following kinds of livestock, please indicate if you have them on your farm operation, either owned or custom raised:	Yes (%)	No (%)	Count
Q8_1: Beef, cow-calf pairs	195 (88)**†	27 (12)**†	222
Q8_2: Beef or dairy feeders	116 (56)	91 (44)	207
Q8_3: Beef or dairy finish	107 (54)	92 (46)	199
Q8_4: Dairy heifers	17 (9)**†	171 (91)**†	188
Q8_5: Dairy cows, lactating and dry	13 (7)**†	175 (93)**†	188
Q8_6: Sheep, hair	6 (3)**†	182 (97)**†	188
Q8_7: Sheep, wool or dairy	5 (3)**†	182 (97)**†	187
Q8_8: Sheep, wool or meat	15 (8)**†	172 (92)**†	187
Q8_9: Goats, dairy	7 (4)*†	178 (96)*†	185
Q8_10: Goats, meat	19 (10)	168 (90)	187
Q8_11: Hogs	44 (23)	145 (77)	189
Q8_12: Poultry	63 (33)*†	130 (67)*†	193
Q8_13: Other	13 (8)	158 (92)	171

TABLE 7: *Crops+Livestock* Management Practices

Q10-Q11: When did you use the following practices?	Used between 2022 - 2020 (%)	Used before 2020 (%)	Never used (%)	Count
Q10_1: Managed rotational grazing	136 (45)	128 (43)**‡	36 (12)	300
Q10_2: Graze cover crops	64 (29)	56 (25)	104 (46)*‡	224
Q10_3: Graze winter annual crops	29 (14)**†	29 (14)*†	148 (72)**‡	206
Q10_4: Graze summer crops	53 (24)	52 (24)	113 (52)	218
Q10_5: Graze crop residues	74 (31)	75 (32)	89 (38)	238
Q10_6: Feed green-chop during growing season	16 (8)*†	31 (15)	155 (77)	202
Q10_7: Bale graze	54 (24)	53 (23)	120 (53)**‡	227
Q11_1: Feed dry hay	157 (45)	183 (53)**‡	7 (2)	347
Q11_2: Feed haylage, baleage, oatlage, or similar feed	78 (30)	110 (43)*‡	69 (27)	257
Q11_3: Feed corn silage	69 (28)	97 (39)*‡	80 (33)	246
Q11_4: Feed grain	114 (40)	135 (47)	36 (13)	285
Q11_5: Feed non-grain energy sources such as molasses or beet pulp	43 (20)	54 (25)	120 (55)	217
Q11_6: Feed Total Mixed Ration (TMR)	39 (18)	48 (22)	131 (60)	218
Q11_7: Purchase some or all of your grain as concentrates	105 (37)	116 (41)*‡	62 (22)	283
Q11_8: Purchase some or all of your hay and forages	90 (35)	100 (39)	69 (27)	259

TABLE 8: *Crops+Livestock* Observed Benefits of Integration

Q21: To what extent have you observed the following?	Not at all (%)	A little (%)	Somewhat (%)	Quite a bit (%)	A great deal (%)	Count
Q21_1: reduction of feed costs for livestock	19 (10)	26 (14)*‡	60 (32)	50 (27)	32 (17)	187
Q21_2: diversification of income streams	17 (9)	28 (15)	62 (33)	56 (30)	23 (12)**†	186
Q21_3: reduced financial risk	24 (13)	29 (16)	62 (34)	56 (30)	14 (8)*†	185
Q21_4: improvement in seasonal labor distribution	58 (32)	22 (12)	63 (34)	34 (19)	7 (4)*†	184
Q21_5: improved soil health	5 (3)	24 (13)	46 (25)	787 (42)	35 (19)	188
Q21_6: improved conservation outcomes	9 (5)*‡	34 (18)	58 (31)	59 (32)	25 (14)**†	185
Q21_7: being able to use manure as fertilizer	3 (2)	8 (4)*†	40 (21)	75 (40)	62 (33)	188
Q21_8: being able to break crop pest or weed cycles	14 (8)	40 (22)	60 (32)	55 (30)	17 (9)**†	186
Q21_9: increased manure spreading	9 (5)*†	24 (13)	61 (33)	54 (29)	38 (20)	186

TABLE 9. *Crops+Livestock* Observed Challenges of Integration

Q23-Q26: How challenging has it been to ...	Not at all (%)	A little (%)	Somewhat (%)	Very (%)	Extremely (%)	Count
Q23_1: afford the cost of additional equipment needed	9 (5)	25 (13)	58 (31)	61 (32)	35 (19)**†	188
Q23_2: install and maintain fencing	11 (6)	34 (18)	75 (40)	60 (32)	8 (4)**†	188
Q23_3: provide watering facilities	19 (10)	30 (16)	69 (37)	49 (26)	21 (11)	188
Q23_4: provide livestock housing	20 (11)	32 (17)	66 (35)	41 (22)	28 (15)**†	187
Q24_1: find adequate land	18 (10)**†	28 (15)	42 (22)	61 (32)	39 (21)	188
Q24_2: obtain veterinary services	76 (41)	42 (23)	37 (20)	21 (11)	11 (6)	187
Q24_3: manage nutrients	30 (16)	67 (36)	75 (40)	14 (8)	1 (1)	187
Q24_4: manage cropland compaction from livestock	51 (27)	68 (36)**†	54 (29)	13 (7)**†	2 (1)**†	188
Q24_5: manage weed and pest problems in grazed crop fields	36 (19)	53 (28)	70 (37)	22 (12)	6 (3)	187
Q25_1: find information	57 (31)	61 (33)	57 (31)	9 (5)**†	2 (1)	186
Q25_2: find or maintain labor	41 (22)	44 (24)	45 (24)	35 (19)	20 (11)	185
Q25_3: manage your time	11 (6)	47 (25)	53 (28)**†	61 (33)	15 (8)	187
Q26_1: find financing	87 (46)**†	45 (24)	36 (19)	15 (8)	6 (3)	189
Q26_2: generate enough income	4 (2)**†	38 (20)	56 (30)	72 (38)**†	19 (10)	189
Q26_3: access markets	42 (22)**†	58 (31)	61 (32)	27 (14)	1 (1)**†	189
Q26_4: obtain a premium for your products	15 (8)	38 (20)	68 (36)	51 (27)	16 (9)	188
Q26_5: find adequate local processing	33 (18)	34 (18)	59 (31)	41 (22)**†	22 (12)	189



\_\_\_\_\_

TABLE 10. Soil Management Practices

Q14. Please tell us <u>when</u> you used the following tillage practices. Check all that apply.	Used between 2022 and 2020	Used before 2020	Never used	Count
Q14_1: Fall tillage	92 (33)**†	134 (48)**‡	55 (20)**†	281
Q14_2: Reduced tillage	80 (31)	106 (41)	74 (28)	260
Q14_3: No-till	77 (32)**†	65 (27)**†	100 (41)**‡	242
Q14_4: Leave crop residue on fields	90 (35)**†	87 (34)**†	80 (31)**‡	257
Q14_5: Winter cover crop and roller crimper	34 (16)**†	25 (12)**†	150 (72)	209
Q14_6: Untilled perennials	53 (23)**†	42 (18)**†	133 (58)**‡	228
Q15. Please tell us <u>when</u> you used the following fertility management practices. Check all that apply.	Used between 2022 and 2020	Used before 2020	Never used	Count
Q15_1: Soil testing for NPK	122 (39)	156 (50)	31 (10)	309
Q15_2: Soil health testing	76 (30)	86 (34)	89 (35)	251
Q15_3: Used purchased synthetic fertilizers	115 (37)	154 (50)	39 (13)	308
Q15_4: Apply manure to fields or pastures	153 (44)	179 (52)	13 (4)	345
Q15_5: Returned cover crops or legume forages to the soil as a nutrient source for subsequent crops	74 (30)**†	77 (31)**†	94 (38)**‡	245
Q15_6: Cover crop tissue testing to measure fertility value of cover crop	8 (4)**†	7 (4)**†	183 (92)	198

TABLE 11. Farm Program Use

Q47. In the last three years, have you used ...	Yes (%)	No (%)	Count
Q47_1 : Environmental Quality Incentives Program (EQIP)	75 (38)**†	124 (62)**‡	199
Q47_2 : Conservation Stewardship Program (CSP)	38 (19)**†	159 (81)**‡	197
Q47_3: Conservation Reserve Program (CRP)	38 (19)**†	158 (81)**‡	196
Q47_4: local or county conservation program	52 (26)**†	145 (74)**‡	197
Q47_5: state conservation program	45 (23)**†	151 (77)**‡	196
Q47_6: program funded by non-governmental organization	14 (7)**†	182 (93)**‡	196
Q47_7: program funded by private sector, such as input suppliers or food companies	9 (5)**†	186 (95)**‡	195
Q47_8: federal crop subsidies	97 (49)	101 (51)	198
Q47_9: crop insurance	106 (54)	92 (47)	198

TABLE 12. Organizations

Q52. Did you hear about this survey from any of the following organizations?	Yes (%)	No (%)	Count
Q52_1 : Green Lands, Blue Waters	9 (6)**†	151 (94)**†	160
Q52_2 : Corn Growers Association	8 (5)**†	150 (95)**†	158
Q52_3: Soybean Growers Association	10 (6)**†	149 (94)**†	159
Q52_4: Cattlemen's Association	59 (35)	112 (66)	171
Q52_5: GrassWorks	4 (3)**†	154 (98)**†	158
Q52_6: Sustainable Farming Association	27 (17)	134 (83)	161
Q52_7: Practical Farmers of Iowa	8 (5)**†	149 (95)**†	157
Q52_8: Land Stewardship Project	13 (8)**†	147 (92)**†	160
Q52_9: University Extension	114 (60)**†	75 (40)**†	189
Q52_10: some other organization	178 (86)**†	30 (14)**†	208

Q52\_10 Other:

- CCD (?) = 160
- SFA = 11
- NRCS = 3
- Minnesota Farmers Union = 2
- Podcasts, news article, Morning Ag Clips, personal email, listserve = 32

# WISCONSIN

TABLE 1. Land Tenure and Farm Size

Q2-Q3: How many acres of land that you farmed in 2022 did you ...	# Acres, Median	# Acres, Average	Count
Q2: Own	95	192	181
Q3: Rent	40	218	181

TABLE 2. Income

Q49: What farming enterprise is your <u>primary</u> source of farm income?	Grain crops	Livestock	Forage Crops	Other	Count
Primary source of income	28 (32)	50 (58)	3 (3)	6 (7)	87
Q50: In 2022, about how much was your gross farming income?	< \$25,000 (%)	\$25,000 - \$99,999 (%)	\$100,000 - \$1,000,000 (%)	>\$1,000,000 (%)	Count
Gross farm income	23 (27)	27 (32)	27 (32)	8 (9)	85
Q51: In 2022, about how much of your total household income was from off-farm sources?	0-24%	25-49%	50-74%	75-100%	Count
Income from off-farm	21 (24)	18 (21)	21 (24)	26 (30)	86

TABLE 3. Crop + Livestock Integration

Q19: Does your farm operation currently have:	Livestock only, no crops (%)	Both livestock and crops (%)	Crops only, no livestock (%)	Count
Currently have	7 (8)	76 (83)	9 (10)	92
Q20: For about how many years have both livestock and crops been on your farm?	0-2 years	3-5 years	> 5 years	Count
Number years	4 (5)	5 (7)	66 (88)	75

TABLE 4. Management Philosophy

Q16: How much do the following match your farming approach?	Not at all (%)	A little (%)	Somewhat (%)	Quite a bit (%)	A great deal (%)	Count
Q16_1: High yields, up-to-date technology & equipment	23 (25)	21 (23)	24 (26)	13 (14)	11 (12)	92
Q16_2: Practices that ensure eligibility for Farm Bill	21 (23)	18 (20)	21 (23)	14 (15)	18 (20)	92
Q16_3: Soil health practices that minimize soil loss and nutrient run off	2 (2)	0 (0)**†	8 (9)**†	25 (27)	57 (62)**‡	92

TABLE 5. Primary Farm Enterprise

Q13: Which of the following do you consider your primary farming enterprise?	Grain crops (%)	Livestock (%)	Forage crops (%)	Other (%)	Count
Primary enterprise	25 (27)	53 (58)	7 (8)	7 (8)	92

TABLE 6. Farm Enterprises

Q4: In the last three years, did you raise any of the following grain crops? Did you grow ...	Yes (%)	No (%)	Count
Q4_1: Corn for grain	52 (57)	40 (44)	92
Q4_2: Corn for silage	27 (30)	62 (70)	89
Q4_3: Soybeans	41 (45)	51 (55)	92
Q4_4: Wheat	22 (24)	69 (76)	91
Q4_5: Other small grains, such as rye, barley, oats or triticale?	39 (43)	51 (57)	90
Q4_6: Oilseeds, such as canola, sunflower, safflower, or flax	3 (3)	84 (97)	87
Q5: For this question, consider pasture and forages for livestock as crops. In the last three years, did you grow any of the following forage crops? Did you grow ...	Yes (%)	No (%)	Count
Q5_1: Hay, such as alfalfa, clover, grass or mix	85 (92)*†	7 (8)*†	92
Q5_2: Annual forages for livestock	56 (62)	34 (38)	90
Q5_3: Perennial pasture	77 (86)*†	13 (14)*†	90
Q6: In the last three years, did you grow any of the following kinds of crops? Did you grow ...	Yes (%)	No (%)	Count
Q6_1: Single-species cover crops	55 (62)	34 (38)	89
Q6_2: Multi-species cover crops	47 (52)	44 (48)	91
Q6_3: Vegetables or fruit	17 (19)	72 (91)	89
Q6_4: Sugar beets	1 (1)*†	88 (99)*†	89
Q6_5: Any other crops	3 (4)	69 (96)	72

TABLE 6. Farm Enterprises Continued

Q7-Q8: Livestock enterprises managed during last three years	Yes (%)	No (%)	Count
Q7: Did you raise livestock during the last three years?	82 (89)	10 (11)	92
Q8: For each of the following kinds of livestock, please indicate if you have them on your farm operation, either owned or custom raised:	Yes (%)	No (%)	Count
Q8_1: Beef, cow-calf pairs	57 (70)*†	25 (31)*‡	82
Q8_2: Beef or dairy feeders	43 (54)	37 (46)	80
Q8_3: Beef or dairy finish	50 (62)	31 (38)	81
Q8_4: Dairy heifers	18 (23)	61 (77)	79
Q8_5: Dairy cows, lactating and dry	15 (19)*‡	64 (81)*†	79
Q8_6: Sheep, hair	8 (10)	71 (90)	79
Q8_7: Sheep, wool or dairy	3 (4)	75 (96)	78
Q8_8: Sheep, wool or meat	12 (15)	66 (85)	78
Q8_9: Goats, dairy	3 (4)	76 (96)	79
Q8_10: Goats, meat	2 (3)*†	77 (98)*‡	79
Q8_11: Hogs	20 (25)	60 (75)	80
Q8_12: Poultry	37 (46)	43 (54)	80
Q8_13: Other	4 (6)	65 (94)	69



TABLE 7: *Crops+Livestock* Management Practices

Q10-Q11: When did you use the following practices?	Used between 2022 - 2020 (%)	Used before 2020 (%)	Never used (%)	Count
Q10_1: Managed rotational grazing	47 (43)	49 (45)	13 (12)	109
Q10_2: Graze cover crops	21 (25)	19 (23)	44 (52)	84
Q10_3: Graze winter annual crops	11 (13)	16 (20)	55 (67)	82
Q10_4: Graze summer crops	20 (23)	25 (28)	43 (49)	88
Q10_5: Graze crop residues	17 (20)*†	26 (31)	42 (49)*‡	85
Q10_6: Feed green-chop during growing season	9 (11)	13 (16)	60 (73)	82
Q10_7: Bale graze	29 (30)	28 (29)	40 (41)	97
Q11_1: Feed dry hay	58 (46)	65 (51)	4 (3)	127
Q11_2: Feed haylage, baleage, oatlage, or similar feed	34 (33)	42 (41)	27 (26)	103
Q11_3: Feed corn silage	20 (22)	30 (32)	43 (46)*‡	93
Q11_4: Feed grain	42 (40)	50 (47)	14 (13)	106
Q11_5: Feed non-grain energy sources such as molasses or beet pulp	22 (24)	19 (20)	52 (56)	93
Q11_6: Feed Total Mixed Ration (TMR)	8 (9)*†	17 (20)	60 (71)*‡	85
Q11_7: Purchase some or all of your grain as concentrates	30 (31)	32 (33)	34 (35)**‡	96
Q11_8: Purchase some or all of your hay and forages	35 (35)	39 (39)	27 (27)	101

TABLE 8: *Crops+Livestock* Observed Benefits of Integration

Q21: To what extent have you observed the following?	Not at all (%)	A little (%)	Somewhat (%)	Quite a bit (%)	A great deal (%)	Count
Q21_1: reduction of feed costs for livestock	6 (8)	5 (7)	19 (25)	28 (37)	17 (23)	75
Q21_2: diversification of income streams	9 (12)	11 (15)	17 (23)	20 (27)	18 (24)	75
Q21_3: reduced financial risk	5 (7)	12 (16)	29 (39)	18 (24)	11 (15)	70
Q21_4: improvement in seasonal labor distribution	16 (22)	18 (25)**†	15 (21)*†	16 (22)	8 (11)	73
Q21_5: improved soil health	0 (0)	9 (12)	13 (17)	29 (39)	24 (32)	75
Q21_6: improved conservation outcomes	1 (1)	12 (16)	14 (19)	24 (32)	24 (32)**†	75
Q21_7: being able to use manure as fertilizer	1 (1)	9 (12)	11 (15)	20 (27)	34 (45)*†	75
Q21_8: being able to break crop pest or weed cycles	3 (4)	15 (20)	17 (23)	15 (20)	24 (32)**†	74
Q21_9: increased manure spreading	12 (16)*†	10 (13)	17 (23)	19 (25)	17 (23)	75

TABLE 9. *Crops+Livestock* Observed Challenges of Integration

Q23-Q26: How challenging has it been to ...	Not at all (%)	A little (%)	Somewhat (%)	Very (%)	Extremely (%)	Count
Q23_1: afford the cost of additional equipment needed	4 (5)	16 (21)	27 (36)	17 (23)	11 (15)	75
Q23_2: install and maintain fencing	6 (8)	12 (16)	33 (44)	15 (20)	9 (12)	75
Q23_3: provide watering facilities	8 (11)	12 (16)	27 (36)	18 (24)	10 (13)	75
Q23_4: provide livestock housing	15 (20)*†	17 (23)	22 (29)	17 (23)	4 (5)	75
Q24_1: find adequate land	12 (16)	13 (17)	16 (21)	20 (27)	14 (19)	75
Q24_2: obtain veterinary services	35 (47)	13 (17)	19 (25)	7 (9)	1 (1)	75
Q24_3: manage nutrients	18 (24)	26 (35)	28 (38)	2 (3)	0 (0)	74
Q24_4: manage cropland compaction from livestock	22 (30)	15 (20)*†	24 (32)	9 (12)	4 (5)	74
Q24_5: manage weed and pest problems in grazed crop fields	15 (20)	25 (34)	28 (38)	6 (8)	0 (0)	74
Q25_1: find information	18 (24)	27 (36)	24 (32)	6 (8)	0 (0)	75
Q25_2: find or maintain labor	20 (27)	19 (25)	17 (23)	13 (17)	6 (8)	75
Q25_3: manage your time	6 (8)	17 (23)	30 (40)	14 (19)*†	8 (11)	75
Q26_1: find financing	27 (36)	15 (20)	20 (27)	11 (15)	2 (3)	75
Q26_2: generate enough income	5 (7)	9 (12)	24 (32)	24 (32)	12 (16)	74
Q26_3: access markets	13 (18)	24 (32)	24 (32)	10 (14)	3 (4)	74
Q26_4: obtain a premium for your products	6 (8)	13 (18)	28 (38)	18 (24)	9 (12)	74
Q26_5: find adequate local processing	7 (9)	13 (17)	14 (19)	23 (31)	18 (24)	75

TABLE 10. Soil Management Practices

Q14. Please tell us <u>when</u> you used the following tillage practices. Check all that apply.	Used between 2022 and 2020	Used before 2020	Never used	Count
Q14_1: Fall tillage	17 (17)**†	33 (33)	49 (49)**†	99
Q14_2: Reduced tillage	26 (29)	32 (36)	31 (35)	89
Q14_3: No-till	51 (41)*†	56 (45)**†	18 (14)*†	125
Q14_4: Leave crop residue on fields	52 (40)	63 (48)**†	16 (12)	131
Q14_5: Winter cover crop and roller crimper	14 (15)	15 (16)	66 (70)*†	95
Q14_6: Untilled perennials	42 (35)**†	42 (35)**†	36 (30)	120
Q15. Please tell us <u>when</u> you used the following fertility management practices. Check all that apply.	Used between 2022 and 2020	Used before 2020	Never used	Count
Q15_1: Soil testing for NPK	54 (41)	71 (54)	7 (5)	132
Q15_2: Soil health testing	35 (33)	36 (34)	36 (34)	107
Q15_3: Used purchased synthetic fertilizers	48 (37)	64 (49)	18 (14)	130
Q15_4: Apply manure to fields or pastures	60 (43)	72 (52)	6 (4)	138
Q15_5: Returned cover crops or legume forages to the soil as a nutrient source for subsequent crops	45 (37)	51 (41)**†	27 (22)	123
Q15_6: Cover crop tissue testing to measure fertility value of cover crop	11 (12)	7 (8)	75 (81)	93

TABLE 11. Farm Program Use

Q47. In the last three years, have you used ...	Yes (%)	No (%)	Count
Q47_1 : Environmental Quality Incentives Program (EQIP)	35 (40)	53 (60)	88
Q47_2 : Conservation Stewardship Program (CSP)	28 (32)	60 (68)	88
Q47_3: Conservation Reserve Program (CRP)	12 (14)**†	76 (86)**†	88
Q47_4: local or county conservation program	42 (48)*†	46 (52)*†	88
Q47_5: state conservation program	32 (36)	56 (64)	88
Q47_6: program funded by non-governmental organization	22 (25)	66 (75)	88
Q47_7: program funded by private sector, such as input suppliers or food companies	7 (8)	81 (92)	88
Q47_8: federal crop subsidies	30 (34)*†	58 (66)*†	88
Q47_9: crop insurance	37 (42)*†	51 (58)*†	88

TABLE 12. Organizations

Q52. Did you hear about this survey from any of the following organizations?	Yes (%)	No (%)	Count
Q52_1 : Green Lands, Blue Waters	14 (17)	70 (83)	84
Q52_2 : Corn Growers Association	4 (5) <sup>*†</sup>	79 (95) <sup>*‡</sup>	83
Q52_3: Soybean Growers Association	7 (8)	76 (92)	83
Q52_4: Cattlemen's Association	11 (13) <sup>***†</sup>	72 (87) <sup>***‡</sup>	83
Q52_5: GrassWorks	23 (27) <sup>**‡</sup>	63 (73) <sup>***†</sup>	86
Q52_6: Sustainable Farming Association	7 (8) <sup>***†</sup>	76 (92) <sup>**‡</sup>	83
Q52_7: Practical Farmers of Iowa	8 (10)	75 (90)	83
Q52_8: Land Stewardship Project	6 (7) <sup>*†</sup>	77 (93) <sup>*‡</sup>	83
Q52_9: University Extension	33 (40) <sup>*†</sup>	50 (60) <sup>*‡</sup>	83
Q52_10: some other organization	17 (26) <sup>***‡</sup>	49 (74) <sup>***†</sup>	66

Other:\*

- County conservation office: 12
- Marbleseed: 2
- WWASH: 2
- Watershed Groups: 3
- Farmers for Lake County: 1
- CIAS: 1
- Great River Graziers: 1
- Pasture walk group: 1
- Grassland 2.0: 1
- Midwest Farm Report: 1

\* Does not match tally of those reporting "some other organization" for Q52\_10. Some respondents entered "other" without selecting this option.