

Sec. 4-8

**SECTION 4:
FERTILIZERS,
CHEMICALS, AND
SOIL
CONDITIONERS
APPLIED**

**SECTION 5: LAND
USE PRACTICES**



**SECTION 6:
IRRIGATION**

**SECTION 7:
PRACTICES**

**SECTION 8: ORGANIC
AGRICULTURE**



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Fertilizer, Chemicals and soil conditioners include:

- Fertilizers
- Manure
- Herbicides
- Insecticides
- Fungicides
- Nematicides
- other pesticides
- growth regulators
- other chemicals used on this operation during 2022
 - *rock phosphate*
 - *Lime*
 - *gypsum*



	Mark "X" if None	Number of Acres
2. Acres to which commercial fertilizer and soil conditioners were applied –		
a. Cropland in 2022 – Exclude cropland used only for pasture 4555	<input type="checkbox"/>	
b. Pastureland and rangeland acres in 2022 – Include cropland used only for pasture or grazing 4556	<input type="checkbox"/>	
3. Acres of cropland and pastureland on which animal manure was applied . . . 4557	<input type="checkbox"/>	
4. Acres of cropland and/or pastureland treated with organic fertilizer according to USDA's National Organic Program (NOP) standards. 1570	<input type="checkbox"/>	



- Record acres treated for each category once, even if multiple applications were applied
- If a farm of 100 acres were treated in 2022 for:
- Insects twice, 100 acres
- Nematodes once, 100 acres
- Herbicide twice, 50 acres

5. Acres on which chemicals were applied to control the items listed below. The same acres can be reported in more than one item below. However, report acres only once for each item, regardless of the number of applications.		
a. Insects..... 4558	<input type="checkbox"/>	Number of Acres 100
b. Weeds, grass, or brush - Include both pre-emergence and post emergence..... 4559	<input type="checkbox"/>	50
c. Nematodes..... 4560	<input type="checkbox"/>	100
d. Diseases in crops and orchards such as blight, smut, rust, etc..... 4561	<input type="checkbox"/>	



Table 40. Fertilizers and Chemicals Applied: 2017 and 2012

[For meaning of abbreviations and symbols, see introductory text.]

Item	United States	
Commercial fertilizer, lime, and soil conditioners		
..... farms, 2017	881,431	
..... 2012	877,907	
..... acres treated, 2017	253,766,165	
..... 2012	247,802,465	
Cropland fertilized, except cropland pasture		
..... farms, 2017	703,670	
..... 2012	718,785	
..... acres treated, 2017	233,302,312	
..... 2012	228,657,493	
Pastureland and rangeland fertilized		
..... farms, 2017	281,367	
..... 2012	262,454	
..... acres treated, 2017	20,463,853	
..... 2012	19,144,972	
Manure		
..... farms, 2017	297,297	
..... 2012	275,420	
..... acres treated, 2017	23,888,525	
..... 2012	22,072,968	
Organic fertilizer (see text)		
..... farms, 2017	50,105	
..... 2012	(NA)	
..... acres treated, 2017	3,454,441	
..... 2012	(NA)	

<https://www.nass.usda.gov/AgCensus/index.php>



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SECTION 5 LAND USE PRACTICES

	Mark "X" if None	Number of Acres
1. During 2022, considering the total acres on this operation, how many acres –		
a. Were drained by tile? 4583	<input type="checkbox"/>	
b. Were artificially drained by ditches? 4584	<input type="checkbox"/>	
c. Were under a conservation easement? 4585	<input type="checkbox"/>	
2. During 2022, considering the cropland acres on this operation, [on] how many acres –		
a. Were no-till practices used? 4586	<input type="checkbox"/>	
b. Were conservation or reduced tillage, excluding no-till, practices used? 4587	<input type="checkbox"/>	
c. Were intensive or conventional tillage practices used? 4588	<input type="checkbox"/>	
d. Were planted to a cover crop? (Cover crops are planted primarily for managing soil fertility, soil quality, and controlling weeds, pests, and diseases.) Exclude CRP acres 4589	<input type="checkbox"/>	
3. At any time during 2022, did this operation use precision agriculture practices to manage crops or livestock? This would include the use of global positioning (GPS) guidance systems, GPS yield monitoring and soil mapping, variable rate input applications, use of drones for scouting fields or monitoring livestock, electronic tagging, precision feeding, robotic milking, etc. 1169	1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	



SECTION 6 IRRIGATION

1. Were any acres irrigated on this operation or were there any irrigation systems or irrigation equipment available on this operation in 2022?

INCLUDE

- Sprinklers, drip or trickle irrigation, etc.
- Ditches or furrows, controlled and uncontrolled flooding, etc.

EXCLUDE

- Water used exclusively for home use
- Water used exclusively for aquaculture

1177

1

☐

Yes - Continue

3

☐

No - Go to SECTION 7

Mark "X"
if None

Number of Acres

2. How many acres of harvested cropland were irrigated? 4031

☐

3. How many acres of all other land were irrigated? Include pasture and rangeland, CRP and failed cropland, and all other non-harvested cropland 4032

☐

4. How many acres on this operation have irrigation systems or equipment? Include all acres irrigated in 2022 and acres that could have been irrigated in 2022 using the existing irrigation systems available on the operation, regardless of water rights. 1167

☐


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SECTION 7 PRACTICES

1. At any time during 2022, did this operation have internet access, either on the operation or at an operator's residence?

4645 1 ☐ **Yes** - Report the type of service that was used to access the internet. Mark all that apply:

4651 ☐ Cellular data plan for a smartphone or other mobile device

4652 ☐ Satellite Internet service installed

1775 ☐ Don't know

1277 ☐ Broadband (high speed) Internet service such as cable, fiber optic, or DSL service installed

4647 ☐ Dial-up Internet service installed

4654 ☐ Other, specify below

4655

3 ☐ **No**

2. At any time during 2022, did this operation –

- | | | | | | |
|---|------|---|------------------------------|---|-----------------------------|
| a. Receive irrigation water supplied by a U.S. Bureau of Reclamation project or facility? Include reclamation water delivered by a local district. | 4590 | 1 | <input type="checkbox"/> Yes | 3 | <input type="checkbox"/> No |
| b. Practice rotational or management-intensive grazing? | 4591 | 1 | <input type="checkbox"/> Yes | 3 | <input type="checkbox"/> No |
| c. Practice alley cropping, silvopasture, or forest farming, or have riparian forest buffers or windbreaks? | 4595 | 1 | <input type="checkbox"/> Yes | 3 | <input type="checkbox"/> No |
| d. Harvest any biomass (crop residue, grasses, woody biomass, etc.) for use in the production of renewable energy? Exclude grains, oilseeds, and firewood | 4596 | 1 | <input type="checkbox"/> Yes | 3 | <input type="checkbox"/> No |
| e. Have an on-farm packing facility for distributing vegetables, potatoes, fruit, nuts, berries, or other crops? | 4598 | 1 | <input type="checkbox"/> Yes | 3 | <input type="checkbox"/> No |
| f. Raise or sell veal calves? | 4594 | 1 | <input type="checkbox"/> Yes | 3 | <input type="checkbox"/> No |
| g. Have a barn that was built prior to 1960? | 1730 | 1 | <input type="checkbox"/> Yes | 3 | <input type="checkbox"/> No |



Table 43. Selected Practices: 2017 and 2012

[For meaning of abbreviations and symbols, see introductory text.]

Item	United States
Received irrigation water from the U.S. Bureau of Reclamationfarms, 2017	36,407
2012	42,545
Practiced alley cropping, silvopasture, forest farming, or had riparian forest buffers or windbreaks (see text)farms, 2017	30,853
2012 ¹	2,725
Harvested biomass for use in renewable energyfarms, 2017	9,530
2012	11,759
Practiced rotational or management-intensive grazingfarms, 2017	265,162
2012	288,719
Raised or sold veal calvesfarms, 2017	7,609
2012	16,230
On-farm packing facilityfarms, 2017	16,035
2012	23,274
Had a barn that was built prior to 1960 (see text)farms, 2017	481,195
2012	(NA)
Aware of right to appeal an adverse program decision to USDA's National Appeals Division (see text)farms, 2017	670,827
2012	(NA)



SECTION 8 ORGANIC AGRICULTURE

1. During 2022, did this operation produce organic products according to USDA's National Organic Program (NOP) standards or have acres transitioning into USDA NOP production? Exclude processing and handling.

4563 1 ☐ **Yes** - Complete this section 3 ☐ **No** - Go to SECTION 9

2. Report type of production. Mark all that apply.

4564 ☐ USDA NOP certified organic production 4565

4566 ☐ USDA NOP organic production exempt from certification (exempt is production normally less than \$5,000 in sales).

4567 ☐ Acres transitioning into USDA NOP organic production.

4568 ☐ Production according to USDA NOP standards but NOT certified or exempt.

3. What was the value of USDA NOP certified or exempt organically produced commodities sold from this operation in 2022? 4569

Mark "X"
if None

☐

Specify Certifying Agency

Gross Value of Sales
(Dollars)

\$.00



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Table 42. Organic Agriculture: 2017 and 2012

[For meaning of abbreviations and symbols, see introductory text.]

Item	United States	Alabama	Alaska	Arizona
VALUE OF SALES OF CERTIFIED OR EXEMPT ORGANICALLY PRODUCED COMMODITIES				
Total organic product salesfarms, 2017	18,168	37	17	74
2012	14,326	27	20	75
\$1,000, 2017	7,277,350	979	(D)	97,958
2012	3,120,717	(D)	(D)	54,503
By value of sales:				
\$1 to \$4,999farms, 2017	3,867	25	11	25
2012	4,289	22	14	46
\$1,000, 2017	7,585	26	17	49
2012	8,044	(D)	(D)	(D)
\$5,000 or morefarms, 2017	14,299	12	6	49
2012	10,037	5	6	29
\$1,000, 2017	7,289,765	953	(D)	97,908
2012	3,112,674	(D)	(D)	(D)
TYPE OF PRODUCTION				
USDA National Organic Program certified organic productionfarms, 2017	17,741	15	9	67
2012	12,771	10	6	42
USDA National Organic Program organic production exempt from certificationfarms, 2017	3,065	42	9	17
2012	3,754	34	17	37
Acres transitioning into USDA National Organic Program organic productionfarms, 2017	3,723	20	4	22
2012	3,240	17	3	9





Thank You!!