

ARMS 3 Commodity Version Questionnaires



United States Department of Agriculture
National Agricultural Statistics Service



Commodity Versions

- Cost of production surveys are conducted for selected commodities on a rotating basis, generally every 4-8 years.





OMB No. 0535-0275 Approval Expires 06/30/2026

2023 AGRICULTURAL RESOURCE MANAGEMENT SURVEY	
SURVEY CODE:	Peanuts Costs and Returns Report – Version 3 Project Code: 904 (09/27/2023)

OMB No. 0535-0275: Approval Expires 06/30/2026

2023 AGRICULTURAL RESOURCE MANAGEMENT SURVEY	
SURVEY CODE:	Soybeans Costs and Returns Report – Version 4 Project Code: 904 (09/27/2023)

OMB No. 0535-0275: Approval Expires 06/30/2026

2023 AGRICULTURAL RESOURCE MANAGEMENT SURVEY	
SURVEY CODE: <input type="text"/>	Oats Costs and Returns Report – Version 2 Project Code: 904 (09/27/2023)
www.agcounts.usda.gov	
	
	

Data Uses

- [Soybeans](#)
- [Oats](#)
- [Peanuts](#)

Soybeans	Base survey of 2018				
	2022	2021	2020	2019	2018
Gross value of production					
Primary product, soybeans	709.36	655.23	524.17	429.34	458.91
Total, gross value of production	709.36	655.23	524.17	429.34	458.91
Operating costs					
Seed	71.09	63.21	60.99	60.93	62.39
Fertilizer ¹	63.92	33.34	28.51	31.79	29.17
Chemicals	55.03	35.72	34.66	36.81	37.30
Custom services	14.86	13.10	12.68	12.74	12.45
Fuel, lube, and electricity	24.65	16.92	12.62	14.82	15.78
Repairs	35.03	31.43	29.18	28.69	28.13
Purchased irrigation water	0.02	0.01	0.01	0.01	0.01
Interest on operating capital	3.23	0.06	0.35	1.92	1.93
Total, operating costs	267.83	193.79	179.00	187.71	187.16
Allocated overhead					
Hired labor	5.87	5.37	5.06	4.84	4.72
Opportunity cost of unpaid labor	20.36	18.77	17.82	17.14	16.26
Capital recovery of machinery and equipment	130.97	125.39	106.88	105.57	107.55
Opportunity cost of land	166.00	154.97	151.46	151.81	150.33
Taxes and insurance	14.11	13.51	12.91	12.24	11.96
General farm overhead	22.31	19.97	18.69	18.33	17.88
Total, allocated overhead	359.62	337.98	312.82	309.93	308.70
Costs listed					
Total, costs listed	627.45	531.77	491.82	497.64	495.86
Net value					
Value of production less total costs listed	81.91	123.46	32.35	-68.30	-36.95
Value of production less operating costs	441.53	461.44	345.17	241.63	271.75

ERS Publications

The screenshot shows the ERS website header with the USDA logo and navigation menu. The main banner features a farm scene with a silo and barn, overlaid with the text: "Farm Sector Income and Farm Household Income Forecasts for 2023: November Update" and "Net farm income forecast to decrease 17.4 percent from 2022 in 2023; median farm household income forecast at \$99,802 in 2023". Below the banner is a navigation bar with "Reports", "Data", "Charts" (highlighted with a yellow arrow), and "Maps". The "Charts" section contains several articles, including "Charts of Note" and "Ag and Food Statistics: Charting the Essentials".

www.ers.usda.gov

ERS's data dissemination tool:

<https://www.ers.usda.gov/data-products/arms-farm-financial-and-crop-production-practices/>

ARMS Phases

- Phase 1: May – July 2023
 - Operators screened for target commodity
 - Previously Reported Data (PRD) used to reduce respondent burden.
- Phase 2: September 2023 – January 2024
 - Operators from Phase 1 with the target commodity were contacted for field level information.
- Phase 3: January – April 2024
 - ARMS 2 operators contacted to collect whole farm information.



Questionnaire Differences

- Direct Sales (Sec. G in the CRR) is not in the commodity specific questionnaires versions.
- There are additional target commodity expense questions in Sec. H (Operating & Capital Expenses).
- Drying Section (Sec. N) is not found in the CRR.



Sec. H: Expenses

- There are 16 additional questions for the target commodity.

SECTION H		OPERATING & CAPITAL EXPENDITURES					
<p>In 2023, how much was spent for each item by the PRODUCER(S) and PARTNER(S): <i>(Include only expenses related to this operation. Exclude expenses NOT related to this farm/ranch; expenses of performing custom work FOR others, if this is a separate business; and expenses on land rented to others.)</i></p>							
OPERATING EXPENSES in 2023							
1.	seeds, sets, plants, seed cleaning and treatments, transplants, trees and nursery stock? <i>(Include technology or other fees, seed treatments, and seed cleaning cost. Exclude items purchased for resale without additional growth.)</i> 0600	None <input type="checkbox"/>	<table border="1"> <thead> <tr> <th colspan="2">Dollars</th> </tr> </thead> <tbody> <tr> <td>\$</td> <td>.00</td> </tr> </tbody> </table>	Dollars		\$.00
Dollars							
\$.00						
a.	Of the (Item 1) dollars, how much was for the SOYBEAN enterprise? 0603	<input type="checkbox"/>	<table border="1"> <tbody> <tr> <td>\$</td> <td>.00</td> </tr> </tbody> </table>	\$.00		
\$.00						



Sec. H: Expenses continued...

- Item 15b(i) is a subset of Item 15b not Item 15.

15. maintenance and repair for the upkeep of all farm buildings, houses other than the producer's, land improvements, and all other farm/ranch improvements? 0714	<input type="checkbox"/>	\$.00
a. Of the (Item 15) dollars, how much was for specialized livestock production facilities such as dairies, feedlots, poultry houses, and swine buildings? 0717	<input type="checkbox"/>	\$.00
b. Of the (Item 15) dollars, how much was for maintenance and repair of irrigation equipment and pumps? 0720	<input type="checkbox"/>	\$.00
(i) Of the (Item 15b) dollars, how much was for the OATS for GRAIN enterprise? 0723	<input type="checkbox"/>	\$.00

- Expenses represent what was spent during 2023. If inputs were purchased in 2022, please exclude here (but include in beginning of year assets).



Sec. N - Drying Section

- Goal: Reduce grain moisture content to meet recommendations for safe, long-term storage.
- Drying costs can be significant in some years and certain locations due to annual weather conditions.
- Information collected about drying systems are used in engineering relationships to estimate the operating and ownership costs of the (target crop) drying facilities.



Sec. N – Initial Questions

SECTION N		PEANUT DRYING		1981	
				Office Use Only	
1.	Did the operation harvest peanuts in the 2023 crop year?				
1895	1 <input type="checkbox"/> Yes - Continue	3	<input type="checkbox"/> No - Go to Section O		
2.	In what month was the majority of the 2023 peanut crop harvested?	1826			
		Tons		OR	
		1860		1861	
		Percent		%	
3.	How much of the 2023 peanut crop was cleaned?				
		Dollars & Cents per Ton		OR	
		1862		1863	
		Total Dollars		.00	
a.	[if any] What was the cost of custom cleaning the 2023 peanut crop?				



How much was dried?

- Drying Systems
 - Fuel used for heat source
 - Electricity



Oats & Soybeans

3. How much of the 2023 soybean crop was (please report on a dry basis)		Bushels	OR	Percent	
a. custom dried?	1864		1865		%
b. dried by this operation?	1870		1871		%
c. not dried?	1876		1877		%
a + b + c = 100%					

Peanuts

4. How much of the 2023 peanut crop was —		Tons		OR	Percent	
a. custom dried?	1866		.	1865		%
b. dried other than custom dried (<i>such as on-farm drying in trailers/wagons</i>)?	1869		.	1871		%
c. not dried?	1875		.	1877		%

Custom Drying Expenses

All Commodity
Versions

3. How much of the 2023 oats crop was (please report on a dry basis)		Bushels	OR	Percent	
a. custom dried?	1864		1865		%
<p>[NOTE: If any of the 2023 oats crop was custom dried (Item 3a), go to Item 4; else go to Note above Item 5.]</p>					
4. How much was spent for custom drying the 2023 oats crop? 1829		Dollars & Cents per bushel		OR	Total Dollars
			.	1830	\$.00



Dried by the Operation

Oats & Soybeans

3. How much of the 2023 soybean crop was (please report on a dry basis)

	Bushels	OR	Percent	
a. custom dried?	1864	1865		%
b. dried by this operation?	1870	1871		%
c. not dried?	1876	1877		%

a + b + c = 100%

[NOTE: If any of the 2023 soybean crop was dried by this operation (Item 3b), go to Item 5; else go to Section O.]

5. What fuel type was used to dry the majority of the 2023 soybean crop? 1859

1 diesel 1859	Code
2 gasoline		
3 LP gas		
4 natural gas		
5 electricity		
6 other		

6. On average, what was the moisture percentage of the 2023 soybean crop at harvest? 2213

Percentage Points	
	%

Drying Labor

All Commodity
Versions

7. How many hours of each type of labor were used to dry the 2023 oats crop?
(**Include** hours to unload, fill and empty dryers, and to oversee drying.)
- a. Paid and unpaid operators, partners, and family members, and other unpaid workers? 1896
 - b. Full-time hired workers? (**Exclude** custom and contract labor.) 1897
 - c. Part-time or seasonal hired workers? (**Exclude** custom and contract labor.) 1898

Hours



Facilities and Capacity



Oats & Soybeans

8. What type of facility was used to dry the majority of the 2023 oats crop?	1 bins 1837	Code
	2 continuous flow dryer (<i>outside of bins</i>)		
	3 batch dryer (<i>outside of bins</i>)		
a. Of the (Item 8) type of facility, how many were used to dry the 2023 oats crop?		1838	Number
b. What was the TOTAL holding capacity of the type of facilities reported in 8a? (<i>For continuous flow or batch dryers, report the bushels per hour</i>)		1839	Bushels



Peanuts: Remaining Questions

8. How many trailers/wagons were used to dry the peanuts (*count each trailer/wagon only once even if it was used multiple times; include both owned and rented trailers/wagons*)?

NUMBER OF TRAILERS/WAGONS 1891

a. What was the length of the trailer/wagons that were used? *Mark one.*

⁵⁷⁶⁶
 1 Less than or equal to 30 ft. long 2 More than 30 ft. long 3 Both sizes were used

9. How many trailer/wagon loads of peanuts were dried? **NUMBER OF LOADS** 1892

10. What was the average drying time per trailer/wagon load of peanuts? **HOURS PER LOAD** 1893

11. What was the average initial moisture content for the peanuts that were being dried down? 5767

Number	
Number	
Hours	
Percent	
	%

Final Thoughts

- Please be familiar with the target commodity in the Expense and Drying sections.
- If the operation didn't have the target crop, complete the interview and skip target crop questions as appropriate.
- The first two questions of the Drying section related to the harvest and not drying!

