

Poultry Litter Nutrient Distribution Producer Survey 2020

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NATIONAL
 AGRICULTURAL
 STATISTICS
 SERVICE

USDA/NASS
 9700 Page Avenue, Suite 400
 St. Louis, MO 63132-1547
 Phone: 1-888-424-7828
 Fax: 855-415-3687
 Email: NOC-Administration-
 NASS@nass.usda.gov

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

The information you provide will be used for statistical purposes only. Your responses will be kept confidential and any person who willfully discloses ANY identifiable information about you or your operation is subject to a jail term, a fine, or both. This survey is conducted in accordance with the Confidential Information Protection provisions of Title V, Subtitle A, Public Law 107-347 and other applicable Federal laws. For more information on how we protect your information please visit: <https://www.nass.usda.gov/confidentiality>. Response is voluntary.

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB number is 0535-0264. The time required to complete this information collection is estimated to average 25 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

Instructions: This survey should be completed by the person who makes the MOST nutrient management decisions for this operation.

In 2019, Did this operation produce crops on land that you owned or leased?

xxxx 1 Yes - Continue 3 No - Go to Conclusion on back page

- | | |
|---|----------------------------|
| | Number of Cropped
Acres |
| 1. In 2019, How many OWNED cropped acres did this operation manage?..... | xxxx |
| 2. In 2019, How many LEASED cropped acres did this operation manage?..... | xxxx |

3. In which county and state is the cropland that this operation manages located?

Include owned and leased acreage

If more than one, please list the top two and the estimated acreage in each county.

County:	xxxx _____	State:	xxxx _____	Estimated Acres
a. What is the estimated acreage in this county?.....	xxxx			

County:	xxxx _____	State:	xxxx _____	Estimated Acres
b. What is the estimated acreage in this county?.....	xxxx			

4. In 2019, What were the top three crops this operation managed?

CROP NAME 1/	Number of Total Acres	Number of Acres Certified Organic	Number of Acres Irrigated	Yield (Bushels per Acre)
xxxx	xxxx	xxxx	xxxx	XXXX
xxxx	xxxx	xxxx	xxxx	xxxx
xxxx	xxxx	xxxx	xxxx	xxxx

1/ Please write double crop acreage on one line, Example: wheat/soybeans

5. What is the most common crop rotation on this operation? Check one.

- xxxx 1 Corn, continuous
- 2 Corn, full-season soybean
- 3 Corn, wheat, double crop soybean
- 4 Corn, wheat, double crop beans, vegetables
- 5 Fruit, vegetable, flower - specify: ^{xxxx} _____
- 6 Other - specify: ^{xxxx} _____

6. Does this operation use the following tillage practices on the cropland it manages:

- a. Conventional tillage? Cropland Acres
 xxx 3 No 1 Yes - On how many cropland acres?..... xxxx
- b. Conservation or minimal tillage?
 xxx 3 No 1 Yes - On how many cropland acres?..... xxxx
- c. No till?
 xxx 3 No 1 Yes - On how many cropland acres?..... xxxx
- d. Other?
 xxx 3 No 1 Yes - specify: ^{xxxx} _____ On how many cropland acres?..... xxxx

7. How often does this operation take a soil sample to test soil nutrient levels? Check one.

- xxxx 1 Every year
- 2 Every two years
- 3 Every three years
- 4 Other - specify: ^{xxxx} _____

8. Approximately what percent of this operation's cropped farm acreage is in the low, medium or optimum soil test phosphorus (P) range?

Maryland or Delaware: Indicate the percent of cropped acreage with soil P levels below 100 Fertilizer Index Value (FIV) as measured by the Mehlich 3 analysis. Check one.

Virginia: Indicate the percent of cropped acreage with soil P levels below 110 lb/acre as measured by the Mehlich 1 analysis. Check one.

- xxxx
- 1 0 %
- 2 1 - 25 %
- 3 26 - 50%
- 4 51 - 75 %
- 5 76 - 100 %
- 6 Don't Know

9. Does this operation follow nutrient management recommendations about manure and/or fertilizer applications from any of the following sources? Check all that apply.

- xxxx
- 1 Do not receive any recommendations from others
- 2 County Conservation District
- 3 University Cooperative Extension
- 4 Private Consulting Company
- 5 Fertilizer Dealer
- 6 Friend or Family Member
- 7 Other - specify: xxxx _____

10. What blended fertilizer (nitrogen, phosphorus, and potassium) options does this operation prefer to use, across all crops, for general fertilizer broadcast applications? Check one.

- xxxx
- 1 A set blend from the manufacturer (i.e, 5-10-30, 10-10-10, etc.)
- 2 A prescription blend per field based on soil test
- 3 Variable rate
(blends change as the multi-bin spreader moves across the field).
- 4 Do not use blended fertilizer source
- 5 Other - specify: xxxx _____

11. What are the primary sources of nutrients this operation uses on their cropland? Check all that apply.

- xxxx 1 Commercial inorganic nitrogen (Liquid UAN, urea, etc.)
- 2 Commercial inorganic phosphorus (triple super phosphate, DAP, MAP, etc.)
- 3 Commercial inorganic potash (potassium chloride, KMag, etc.)
- 4 Commercial fertilizer blends (10-10-10, 5-10-30, custom blend, etc.)
- 5 Poultry litter
- 6 Animal manure (other than poultry litter)
- 7 Biosolids
- 8 Other compost (municipal, food waste)
- 9 Certified Organic Fertilizer
- 10 Fertilizer from other organic sources
- 11 Green manure (example: cover crops)
- 12 Other - specify: xxxx _____

12. Who applies this operation's nutrient sources (manure, fertilizer, etc.)? Check all that apply.

- xxxx 1 This operation applies the nutrient source
- 2 A custom applicator
- 3 Other - specify: xxxx _____

13. If this operation applies its own nutrients, what type of equipment is used? Check all that apply.

- xxxx 1 Liquid manure spreader
- 2 Liquid manure injector
- 3 Poultry litter spreader
- 4 Commercial fertilizer broadcast spreader
- 5 Equipment to band or knife in commercial fertilizer
- 6 Liquid commercial fertilizer application equipment
- 7 Single rate spreader (that applies a pre-made blend)
- 8 Multi-bin spreader or single bin that applies fertilizer at a variable rate
- 9 Other - specify: xxxx _____

14. Does this operation currently use poultry litter as a nutrient source for crop production?

- xxxx 1 Yes - Continue 3 No - Go to question 18

15. How many total tons of poultry litter are applied to your operation's cropland each year?.....
EXCLUDE all other manure.

Total Tons

xxxx

16. What is the typical application rate (tons/acre) of poultry litter your operation applies to
cropland each year?.....
EXCLUDE all other manure.

Tons per Acre

xxxx

17. Does this operation purchase poultry litter from a broker or another farmer?

xxxx

1 Yes - Continue 3 No - Go to question 18

- a. If question 17 is yes for a broker?.....
 b. If question 17 is yes for another farmer?.....

Number of Tons purchased per year		Average price per ton (litter only) Dollars per Ton	Average price per ton (litter plus application) Dollars per Ton
xxxx	Tons	xxxx \$	xxxx \$
xxxx	Tons	xxxx \$	xxxx \$

18. Please consider each statement about **POULTRY LITTER** listed below, and check agree, disagree or don't know.

- a. I am familiar with using poultry litter as a nutrient source
 xxxx 1 Agree 3 Disagree 2 Don't Know
- b. Poultry litter is available in my area in general
 xxxx 1 Agree 3 Disagree 2 Don't Know
- c. Poultry litter is available in my area during times when I need fertilizer
 xxxx 1 Agree 3 Disagree 2 Don't Know
- d. Soil phosphorus levels on my operation allow the use of poultry litter
 xxxx 1 Agree 3 Disagree 2 Don't Know
- e. The cost of poultry litter is affordable compared to other nutrient sources
 xxxx 1 Agree 3 Disagree 2 Don't Know
- f. I am concerned about environmental regulations related to poultry litter
 xxxx 1 Agree 3 Disagree 2 Don't Know
- g. I am concerned about neighbor and community complaints about using poultry litter
 xxxx 1 Agree 3 Disagree 2 Don't Know
- h. Applying poultry litter is compatible with my current tillage practices
 xxxx 1 Agree 3 Disagree 2 Don't Know
- i. I have the necessary equipment to apply poultry litter
 xxxx 1 Agree 3 Disagree 2 Don't Know
- j. I know how to properly store poultry litter
 xxxx 1 Agree 3 Disagree 2 Don't Know
- k. I have considered using poultry litter as a nutrient source
 xxxx 1 Agree 3 Disagree 2 Don't Know
- l. I have used poultry litter as a nutrient source in the past
 xxxx 1 Agree 2 Don't Know 2 Don't Know
- m. I am interested in learning more about the use of poultry litter as a nutrient source
 xxxx 1 Agree 3 Disagree 2 Don't Know
- n. Are there other factors that impact the use of poultry litter on this operation?
 xxxx 1 Yes - Please describe below 3 No
 xxxx _____

19. If this operation had the opportunity to use **POULTRY LITTER** as a nutrient source, would they be interested?
 Check one.

- xxxx 1 Already use poultry litter
 2 Yes - interested
 3 No - not interested

4 Unsure

Note: POULTRY LITTER CO-PRODUCTS are nutrient sources derived from poultry litter such as poultry litter ash (with N-P-K ranging from 0-10-10 to 0-20-20).

20. Please consider each statement about **POULTRY LITTER CO-PRODUCTS** listed below, and check agree, disagree or don't know.

a. I am familiar with using poultry litter co-products (ex: poultry litter ash) as a nutrient source

xxxx 1 Agree 3 Disagree 2 Don't Know

b. Poultry litter co-products are available in my area in general

xxxx 1 Agree 3 Disagree 2 Don't Know

c. Poultry litter co-products are available in my area during times when I need fertilizer

xxxx 1 Agree 3 Disagree 2 Don't Know

d. Soil phosphorus levels on my operation allow the use of poultry litter co-products

xxxx 1 Agree 3 Disagree 2 Don't Know

e. The cost of poultry litter co-products is affordable compared to other nutrient sources

xxxx 1 Agree 3 Disagree 2 Don't Know

f. I am concerned about environmental regulations related to poultry litter co-products

xxxx 1 Agree 3 Disagree 2 Don't Know

g. I am concerned about neighbor and community complaints about using poultry litter co-products

xxxx 1 Agree 3 Disagree 2 Don't Know

h. Applying poultry litter co-products is compatible with my current tillage practices

xxxx 1 Agree 3 Disagree 2 Don't Know

i. I have the necessary equipment to apply poultry litter co-products

xxxx 1 Agree 3 Disagree 2 Don't Know

j. I know how to properly store poultry litter co-products

xxxx 1 Agree 3 Disagree 2 Don't Know

k. I have considered using poultry litter co-products as a nutrient source

xxxx 1 Agree 3 Disagree 2 Don't Know

l. I have used poultry litter co-products as a nutrient source in the past

xxxx 1 Agree 3 Disagree 2 Don't Know

m. I am interested in learning more about the use of poultry litter co-products as a nutrient source

xxxx 1 Agree 3 Disagree 2 Don't Know

n. Does this operation have other factors that impact the use of poultry litter co-products?

xxxx 1 Yes - Please describe below 3 No

21. If this operation had the opportunity to use **POULTRY LITTER CO-PRODUCTS** such as poultry litter ash (0-10-10 to 0-20-20 fertilizer grade), would they be interested? Check one.

xxxx 1 Already use poultry litter co-products

2 Yes - interested

3 No - not interested

4 Unsure

For the next questions, assume that NITROGEN from commercial fertilizer costs \$0.50 per pound.

22. Would this operation be willing to pay \$0.50 per pound for nitrogen that comes from applying poultry litter?

xxxx 1 Yes - Go to item 24 3 No - Continue 2 Don't Know - Continue

23. Would this operation be willing to pay \$0.35 per pound for nitrogen that comes from applying poultry litter?

xxxx 1 Yes - Go to item 25 3 No - Go to item 25 2 Don't Know - Go to item 25

24. Would this operation be willing to pay \$0.65 per pound for nitrogen that comes from applying poultry litter?

xxxx 1 Yes - Continue 3 No - Continue 2 Don't Know - Continue

For the next questions, assume that PHOSPHORUS from commercial fertilizer costs \$0.50 per pound.

25. Would this operation be willing to pay \$0.50 per pound for phosphorus that comes from applying poultry litter?

xxxx 1 Yes - Go to item 27 3 No - Continue 2 Don't Know - Continue

26. Would this operation be willing to pay \$0.35 per pound for phosphorus that comes from applying poultry litter?

xxxx 1 Yes - Go to item 28 3 No - Go to item 28 2 Don't Know - Go to item 28

27. Would this operation be willing to pay \$0.65 per pound for phosphorus that comes from applying poultry litter?

xxxx 1 Yes - Continue 3 No - Continue 2 Don't Know - Continue

28. Is any land that this operation owns or manages currently enrolled in any of the following programs:

a. Conservation Stewardship Program (CSP)

xxxx 3 No 1 Yes - On how many acres?.....

Acres

xxxx

b. Environmental Quality Incentives Program (EQIP)

xxxx 3 No 1 Yes - On how many acres?.....

xxxx

c. Conservation Reserve Program (CRP) or Conservation Reserve Enhancement Program (CREP)

xxxx 3 No 1 Yes - On how many acres?.....

xxxx

d. State Conservation/Environmental Program

xxxx 3 No 1 Yes - specify:xxxx _____ On how many acres?.....

xxxx

e. Other Conservation/Environmental Program

xxxx 3 No 1 Yes - specify:xxxx _____ On how many acres?.....

xxxx

CONCLUSION

These next questions are directed to the person who filled out the survey.

29. How many years have you been farming?.....Number of Years
xxxx

30. What is your sex?
 xxxx 1 Male 3 Female

31. What proportion of your household's gross income in 2019 was earned through farming?
 xxxx 1 Less than 25%
 2 25% - 50%
 3 51% - 75%
 4 76% - 100%

32. What is the highest level of education you have completed?
 xxxx 1 Less than 12 years
 2 High School or GED
 3 Some College
 4 Associate Degree and/or Technical Training
 5 Bachelor Degree
 6 Graduate Degree

33. In what year were you born?.....Year
xxxx

This completes the survey. Thank you for your help.

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Response		Respondent		Mode		Enum.	Eval.	Change	Office Use for POID	
1-Comp	9901	1-Op/Mgr	9902	1-PASI (Mail)	9903	9998	9900	9985	9989	
2-R		2-Spouse		2-PATI (Tel)					_____ - _____ - _____	
3-Inac		3-Acct/Bkpr		3-PAPI (Face-to-Face)						
4-Office Hold		4-Partner		6-Email						
5-R – Est		9-Other		7-Fax						
6-Inac – Est				19-Other						
7-Off Hold – Est										
						Optional Use				
						9921	9907	9908	9906	9916
S/E Name										