



DELAWARE DEPARTMENT OF
AGRICULTURE

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ANNUAL IMPLEMENTATION REPORT QUESTIONNAIRE

A glossary is provided at the end of the survey. Words with an * next to them have more information provided in the glossary.

ACRES AND CROPS

How many total acres did you farm in Delaware in 2023?

From the total acreage, please indicate the acreage breakdown among crop types. For other crop types, please indicate the specific crop type and the cumulative acres for each type. If you have more than what is listed or need more space, please attach an accompanying sheet.

Crop Type	Total Acreage of Crop Type
Corn	
Soybean	
Wheat	
Other:	
Other:	
Other:	

How many acres were double cropped on your farm in Delaware in 2023?

How many acres of cover crop* did you plant in 2023?

**Cost-Shared* Cover Crop
Acreage:**

**Non-Cost-Shared Cover Crop
Acreage:**

How many acres of irrigated land did you farm in Delaware in 2023?

How many acres did you fertigate* on your farm in Delaware in 2023?

How many acres of pasture did you have on your farm in Delaware in 2023?

FIELD BORDERS

Are your fields bordered by a minimum of a 10-foot grass or tree buffer*?

☐ Yes

☐ No

EQUIPMENT

For nutrient application, do you use (owned or contracted) GPS* guided equipment?

☐ Yes

☐ No

What equipment do you use (owned or contracted) that is variable rate*? Check all that apply.

☐ Planter

☐ Sprayer

☐ Spreader

☐ Irrigation

SOIL TESTING

How often are soil tests pulled on 100% of your acres?	<input type="checkbox"/> Annually	<input type="checkbox"/> Every 2 Years	<input type="checkbox"/> Every 3 Years
My soil samples are pulled by:	<input type="checkbox"/> Myself or an employee		<input type="checkbox"/> A consultant or a company
What season do you take soil samples? Check all that apply.			
<input type="checkbox"/> Fall	<input type="checkbox"/> Winter	<input type="checkbox"/> Spring	<input type="checkbox"/> Summer
What scale are your soil samples pulled? Check all that apply and provide the average acreage scale* for each type.			
Scale Type	Average Acreage Scale		
<input type="checkbox"/> Field*			
<input type="checkbox"/> Zone*			
<input type="checkbox"/> Grid*			

MANURE APPLICATION

How did you apply manure? Check all that apply.	<input type="checkbox"/> Broadcast*	<input type="checkbox"/> Inject*	<input type="checkbox"/> I did not apply manure. (Skip Manure Application Section)
Did you incorporate* your manure?	<input type="checkbox"/> Yes		<input type="checkbox"/> No
Within what time frame did you incorporate manure? Assume ideal conditions.	<input type="checkbox"/> Within 24 hours	<input type="checkbox"/> Within 48 hours	
Is your manure tested for nutrient composition?	<input type="checkbox"/> Yes		<input type="checkbox"/> No
How often do you test each source of manure?	<input type="checkbox"/> Annually		<input type="checkbox"/> Bi-Annually
What seasons do you typically apply manure? Check all that apply.			
<input type="checkbox"/> Spring	<input type="checkbox"/> Summer	<input type="checkbox"/> Fall	<input type="checkbox"/> Winter (excluding 12/7 through 2/15)

FERTILIZATION

How do you apply N and P fertilizer? Mark all that apply.	<input type="checkbox"/> Broadcast	<input type="checkbox"/> Banding*	<input type="checkbox"/> In-Furrow*
What percentage of your nutrients did you apply at the following times?	Pre-plant* percentage:	Starter* percentage:	Side-dress* percentage:
How did you determine your nitrogen side-dress rate? Check all that apply.	<input type="checkbox"/> PSNT (Pre-Sidedress Nitrate Test)*	<input type="checkbox"/> Nitrogen Modeling*	<input type="checkbox"/> According to my plan
Are there areas on your farm where you are careful not to place fertilizer?	<input type="checkbox"/> Yes		<input type="checkbox"/> No
Which of the following enhanced efficiency fertilizers* do you use?			
<input type="checkbox"/> Urease Inhibitor*	<input type="checkbox"/> Nitrification Inhibitor*	<input type="checkbox"/> Nitrogen Stabilizer*	<input type="checkbox"/> Other (humic, fulvic, biogrowth, etc.)
<input type="checkbox"/> None			

GLOSSARY

Average Acreage Scale: The unit area for which you are using to determine your sampling methods. For example, the soil test report(s) you received apply to fields/sections of a field with an average size of 10-20, 20-30 or 30-40 acres.

Banding: a fertilization practice that applies nutrients in rows at a predetermined distance from the planted crop seed

Broadcast: the practice of surface spreading fertilizers or manure on top of the field

Buffer: natural or artificial vegetated area maintained alongside agricultural fields to help mitigate and control the air, soil, and water quality

Cost-Share: a program that pays the grower to participate if all guidelines are met

Cover Crop: a crop planted during the winter months in fields that would otherwise be fallow to prevent the loss of soil nutrients, minimize soil erosion, and enhance soil properties; this crop is to benefit the soil and water quality and generally not to be harvested

Enhanced Efficiency Fertilizer

This is not a comprehensive listing of all products provided by the agricultural service providers. If you're unsure if the products you purchased fall into these categories, please reach out to your service provider for further details or refer to the product label.

Nitrification Inhibitor: a fertilizer additive that slows the conversion of ammonium to nitrate, which prolongs the period of time that nitrogen is in the "protected" form and reduces its loss from the soil by leaching and denitrification (below-ground protection).

Examples: Nitrapyrin, DCD, Eco N-D, and Eco n Total

Nitrogen Stabilizer: a fertilizer additive to decrease off-target movement of nitrogen – decreasing volatilization, leaching, and/or denitrification – allowing increased uptake by crops

Examples: Instinct, DCD, Agrotain Plus, Eco N-D, and Eco N Total

Urease Inhibitor: a fertilizer additive that slows the conversion of urea to ammonia, thus reducing the loss of nitrogen through volatilization (above-ground protection)

Examples: Agrotain Ultra, Anvol, NBPT, and Eco N-V

Fertigate: fertilization occurs by mixing fertilizer nutrients into the irrigation water

Field: a soil sample taken is used to represent the entire field

GPS (Global Positioning System): computer technology using satellites to identify a precise location

Grid: a uniform network of sectioned field areas, usually about 5 acres

In-Furrow: a narrow trenched row, typically where seed is planted

Incorporate: a practice that mixes manure or fertilizer into the soil profile (tillage, vertical tillage)

Inject: the application practice of placing manure and/or chemical fertilizer under the soil surface without tillage

Nitrogen Modeling: a management tool offered by consultants recommending nitrogen applications based on a variety of factors throughout a growing season

Pre-Plant: the application of fertilizer days or weeks prior to planting the crop

PSNT (Pre-Sidedress Nitrate Test): an in-season soil test used to determine if a yield response is likely from additional application of side-dress nitrogen

Side-dress: the application of fertilizer to crop in-season/during high nitrogen uptake, typically for corn between 12-24 inches tall

Starter: the application of fertilizer at roughly the same time as planting crop

Variable Rate: a type of application where the material (seed, fertilizer, irrigation, etc.) is applied based on a specific need-based prescription for differing areas within a field

Zone: a series of sectioned field areas that are grouped by similar characteristics. This may be done in the field by soil type, landscape positioning, drainage type, etc.