

## Nutrient Management Annual Implementation Report (AIR) for CAFO and MAFO Operations

Due March 1, 2022

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Maryland Department of the Environment	

For Field Office Use

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	<b>8.</b> Zip	
Home_		
	utrient Management lan Information	t Consultant and
15	. Name of Nutrient Manage	ment Plan Writer:
16	c. Certificate #	
17	. License #	
18	B. Date NM Plan Written:	//
		,,
19	D. Date NM Plan Expires:	//
. 20		imal manure recommended ion by the nutrient n.
	<b>Inimals <i>other than po</i></b> 1. Number of head during 2	-
	Beef, cows and	hulls
-	Beef, feeder cat	
-	Beef, young sto	•
-	Dairy, cows	()
- 1	Dairy, heifers	
	Dairy, calves	
	Swine, sows an	d boars
_	Swine, growers	3
_	Sheep	
_	Goats	
_	Horses	
_	Other	
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2. MDA Op Number MDE AI Number
3. Operator/Owner Legal Name Last
First
4. Farm/Operation Name
5. Mailing Address
<b>6</b> . City
9. E-Mail address
10. Telephone Number(s) OfficeHo
Cell
11 Total Farmed Acres including Pastures
12. Operation Type (Check all that apply)
☐ Crop Production
☐ Hay / Pasture
☐ Nursery/Greenhouse ☐ Organic
☐ Animal
☐ No-Land (0 Managed Acres)
□ Other
13. Account ID updates - List changes to Account ID's, and check if added or deleted from operation since your previous AIR report. Attach additional pages if needed.  ☐ No change of account ID(s)
Added Deleted
o o
<b> </b>
14. Nutrient Sources Used (Check all that apply)
☐ Commercial Fertilizers
☐ Biosolids/Sewage Sludge
☐ Animal Manure
☐ Food Waste
☐ Other

Crop Production	Commercial Fertilizer						
22 Acres under conservation tillage with 30%-59% residue coverage at planting.	37 Acres using variable rate fertilizer application or split application.  38 Acres where Nitrogen was applied based on the recommendations of the Pre-Sidress Nitrogen Test (PSNT).  39 Acres where Commercial fertilizer Nitrogen was incorporated within 24 hours.						
23 Acres under conservation tillage with 60% or more residue coverage at planting.							
<b>24.</b> Acres of crop land under irrigation.	<b>40.</b> Acres where Commercial fertilizer Phosphorus was incorporated within 24 hours.						
Nursery / Greenhouse	Manure/Organics Storage						
25 Acres/sq.ft. Container nursery/ greenhouse irrigation runoff and leachate capture	41Number of manure/organics storage structures ☐Check if None						
and reuse.	<b>42</b> . Total available storage capacity:						
Poultry  26. Poultry (in 1,000s per flock)  Profilers (Posstors Pullets	Cu. Ft Gals Tons						
Broilers/Roasters Pullets Layers Turkeys	<b>43.</b> Yes ☐ No☐ Temporary stockpiling of manure/organics? <b>Manure/Organics</b> <i>other than poultry litter</i>						
27 Number of Flocks per year	<b>44.</b> Acres Liquid manure applied with injector or other sub-surface applicator.						
<b>28.</b> Poultry Integrator:	45 Acres Liquid manure incorporated within 48 hr with vertical tillage equipment (Ex: "Turbo Till" 46 Acres Manure application applied at the crops Phosphorus Removal Rate.						
29 Number of Poultry Houses 30 Total sq.ft. of all poultry houses	47 Tons Total On-Farm Collected manure/organics Gals						
Poultry Litter	<b>48.</b> Tons Total On-Farm Collected manure/organic Gals that remained stored or stockpiled						
<b>31.</b> Tons Poultry litter removed during crustouts in 2021. ☐ Check if Windrowed	from 2020.  49. On Farm Collected manure/organics that was land						
<b>32.</b> Tons Poultry litter removed during partial	applied to your farm operation in 2021.						
or total cleanout(s) in 2021.	Type of Manure/Organics Amount Land Application						
33 Tons of On-Farm Collected poultry litter that remained stored or stockpiled from 2020	0. Dairy Beef Swine  Horse Sheep Other:						
<b>34.</b> On-Farm Collected poultry litter that was land applied to your farm operation in 2021.	d Gals. Acres						
Tons Acres	□ Dairy □ Beef □ Swine Tons Acres □ Horse □ Sheep □ Other:						
<b>35.</b> Tons of imported poultry litter that remained stored	Gals. Acres						
or stockpiled from 2020 and was applied in 2021.	☐ Dairy ☐ Beef ☐ Swine ☐ Tons ☐ Acres ☐ Horse ☐ Sheep ☐ Other:						
Tons Acres	Gals. Acres						
<b>36.</b> Acres Poultry litter incorporated within 48 hrs with vertical tillage equipment	<b>50.</b> Total imported manure/organics that remained stored or stockpiled from 2020 and was applied in 2021.						
(Ex: "Turbo Till").	Tons/ Acres / Acres						

<b>51. Imported Manure, Bio</b> imported. Use additional she ☐ <b>Check if None</b>	•	m operation. Be sure to report COUNTY and STATE from which material was  MDA/MDE ID:						
Name	Address - Location where Manure/ Organics were Imported from?	Check Type of Imported Manure/ Organics	Amount	Amount Used	Land Application			
Name of person:	Street: City:	☐ Dairy ☐ Beef ☐ Poultry ☐ Swine ☐ Horse ☐ Sheep ☐ Compost ☐ Biosolids Class A ☐ Biosolids Class B ☐ Poultry Processing DAF	Gals.	Gals.	Acres			
Name of Farm/Entity:	County: State, Zip	Food Residuals Other Manure or Organics:	Tons	Tons	Acres			
Name of person:	Street: City:	☐ Dairy ☐ Beef ☐ Poultry ☐ Swine ☐ Horse ☐ Sheep ☐ Compost ☐ Biosolids Class A ☐ Biosolids Class B ☐ Poultry Processing DAF	Gals.	Gals.	Acres			
Name of Farm/Entity:	County: State, Zip	Food Residuals Other Manure or Organics:	Tons	Tons	Acres			
Name of person:	Street: City:	☐ Dairy ☐ Beef ☐ Poultry ☐ Swine ☐ Horse ☐ Sheep ☐ Compost☐ Biosolids Class A ☐ Biosolids Class B ☐ Poultry Processing DAF	Gals.	Gals.	Acres			
Name of Farm/Entity:	County: State, Zip	Food Residuals Other Manure or Organics:	Tons	Tons	Acres			
exported. Use additiona					- T			
Name	Address - Location where Manure/Organics were Exported to?	Check Type of Exported Manure/ Organics		ount Sous/Gals	ent To:			
Name of person:	Street: City:	□ Dairy □ Beef □ Poultry □ Swine □ Horse □ Sheep □ Compost □ Poultry Processing DAF		U:	Alternative se Facility Manure/			
Name of Farm/Entity:	County: State, Zip	Food Residuals Other Manure or Organic	Ton	' [	rganics Broker  Other Farm peration			
Name of person:	Street: City:	□ Dairy □ Beef □ Poultry □ Swine □ Horse □ Sheep □ Compost □ Poultry Processing DAI		U:	Alternative se Facility Manure/			
Name of Farm/Entity:	County: State, Zip	Food Residuals Other Manure or Organic	Ton		rganics Brokei Other Farm peration			
Name of person:	Street: City:	□ Dairy □ Beef □ Poultry □ Swine □ Horse □ Sheep □ Compost □ Poultry Processing DAF			Alternative se Facility Manure/			
Name of Farm/Entity:	County: State, Zip	Food Residuals Other Manure or Organic	Ton	S 0:	rganics Broker Other Farm peration			

**53. Summary of Nutrient Applications by Crop** See Instructions for help with this table.

**TOTAL pounds of AVAILABLE nutrients applied.** If you did not apply nutrients, list the crop, the crop acreage and draw a line through the rest of the boxes.

CROP		Commercial Fertilizer in pounds				Manure in pounds		Biosolids/Sewage Sludge in pounds			Other Organic Sources in pounds		
Include Pastures	Acres	N	=	K <sub>2</sub> O	N	$\left \begin{array}{c} P_2O_5 \end{array}\right $	$K_2O$	N	$P_2O_5$		N	$P_2O_5$	$K_2O$
Corn grain, dry land													
Corn grain, irrigated													
Corn silage													
Soybeans, full season													
Soybeans, double crop													
Small grains, Spring 2021													
Small grains, Fall 2021													
Hay, grass													
Hay, legume													
Pasture													
Vegetables													
Горассо													
List other crops:													
Report Certificatio	<b>n</b> :				<b>5</b> 4	l. Operato	r's Signa	ture					
All of the information con ment Annual Implementa knowledge. A valid nutrie calendar year 2022 will b	tion Repoi nt manage	rt (AIR) is ement plai	true to the n for my op	e best of my peration(s)	for	5. Operator	's Printe	d Name:					
MDA/MDE ID:					56	. Date sign	ied:						

**57. Summary of Nutrient Applications by Field** (See instructions).

List all fields that received manure in **2021**, whether generated on site or imported. Field names must correspond with the nutrient management plan field names. Use additional sheets if needed.

Field Name / Mgmt Unit	Field Name / L Crop & L 37: 11		Crop Yield	Soil Test results (ppm, mg/l or lbs/a)	Crop & Yield G	Nutrients recommended for Crop & Yield Goal (in lbs/acre)		rion rates from rocess Wastewa- t per acre)	Commercial fertilizer, sewage sludge, and other nutrient sources(in lbs nutrient per acre)		
l Wight Chit	110100	Yield Goal Harvested $P_2O_5$ Crop & Field Goal (In 168/ac) $P_2O_5$		$P_2O_5$	N	$P_2O_5$	Туре	N	$P_2O_5$		
A-1	30	corn grain 150 bu	130	81 ppm	150	20	7	20	urea	150	0

**58. Manure Nutrient Content. Attach Lab Sheets**. Samples must reflect manure used or exported manure in 2021.

59. Unpermitte	ed Discharges. List all times during 2021 that unpermitted discharges of contaminated water occurred from the production area to waters of
the State (surface	ce and ground water), along with date, time, quantity of discharge and the source, ex: chicken house, manure shed, swale between chicken
houses, etc.	☐ Check if no known discharge(s) occurred.