



# Maryland Department of Agriculture

Office of the Secretary

Larry Hogan, Governor  
Boyd K. Rutherford, Lt. Governor  
Joseph Bartenfelder, Secretary  
Julianne A. Oberg, Deputy Secretary

The Wayne A. Cawley, Jr. Building  
50 Harry S. Truman Parkway  
Annapolis, Maryland 21401  
www.mda.maryland.gov

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410.841.5880 Baltimore/Washington  
410.841.5914 Fax  
800.492.5590 Toll Free

February 1, 2022

The Honorable Lawrence J. Hogan, Jr.  
Governor  
100 State Circle  
Annapolis, MD 21401

The Honorable Adrienne A. Jones  
Speaker  
Maryland House of Delegates  
State House, H-101  
100 State Circle  
Annapolis, MD 21401

The Honorable Bill Ferguson  
President  
Maryland Senate  
State House, H-107  
100 State Circle  
Annapolis, MD 21401

## **RE: Report Required by AG § 8-807 - MSAR # 11904**

Dear Governor Hogan, Speaker Jones and President Ferguson:

AG § 8-807 states, “(a) On or before December 31 of each year, the Department of Agriculture shall report to the Governor, and, in accordance with § 2- 1257 of the State Government Article, the General Assembly, on:

(1) The farm acreage covered by nutrient management plans and the implementation and evaluation of those plans; and

(2) In consultation with the Nutrient Management Advisory Committee, the implementation of the requirements of the Water Quality Improvement Act of 1998.

(b) The report required under subsection (a) (2) of this section shall include information regarding:

(1) The level of participation in the nutrient management plan program;

(2) Additional resources that may be needed to meet the requirements of § 8–803.1 of this subtitle;

(3) The effectiveness of nutrient application education programs; and

(4) The effectiveness of the Manure Transportation Project set forth in § 8–704.2 of this title.

(c) (1) Beginning in 2020, the report required under this section shall include information on the production and use of animal manure by farm operations covered by nutrient management plans during the previous year, including:

(i) The amount of animal manure exported by farm operations to alternative use facilities or other farm operations in the State;

- (ii) The amount of animal manure exported out of the State by farm operations;  
and
  - (iii) The amount of animal manure land applied by farm operations in the State  
and the source of that manure.
- (2) The information required under this subsection shall be reported: (i) By geographic area, including by county or local watershed; and (ii) In a manner that protects the identity of individual farm operation.

I have enclosed the 2021 annual report. I hope you find the information contained in this report useful. Should you have any questions, please do not hesitate to reach out to Cassie Shirk, Director of Legislation and Government Affairs, at [cassie.shirk@maryland.gov](mailto:cassie.shirk@maryland.gov) or 410-841-5889.

Sincerely,



Joseph Bartenfelder  
Secretary, Department of Agriculture

## **Background**

The Water Quality Improvement Act of 1998 requires all farmers grossing \$2,500 a year or more or livestock producers with 8,000 pounds or more of live animal weight to run their operations using a nutrient management plan (NMP). NMPs help farmers manage fertilizers, animal waste, and other nutrient sources more efficiently in order to meet crop needs while protecting water quality in streams, rivers and the Chesapeake Bay. Plans that address both nitrogen and phosphorus inputs are required for all agricultural operations, which produce plants, food, feed, fiber, animals or other agricultural products.

Farmers are required to keep their NMPs current, take new soil samples a minimum of once every 3 years and file annual reports with MDA describing how they implemented their NMPs during the previous year.

Maryland farmers who own or manage 10 or more acres of agricultural land and apply their own nutrients, are required to attend a two-hour Maryland Department of Agriculture (MDA)-sponsored education program on nutrient application once every 3 years. Professionals and farmers certified to prepare NMPs are required to take continuing education courses in order to keep abreast of the latest nutrient management technologies and regulations.

## **Enforcement Activities**

MDA strives to maintain a staff of nine agricultural nutrient management specialists to ensure that farmers are complying with the Nutrient Management Law and that environmental objectives are being met. There was a vacant specialist position the last six months of 2021, but the vacancy has now been filled and a new specialist is being trained. The NM Program was staffed half of the year by eight agricultural nutrient management specialists and two urban nutrient management specialists. One of the urban specialists splits their time evenly between urban reviews and conducting reviews of certified consultants. The NM Program has determined a critical need for consultant reviews and the specialist completed 75 consultant reviews in 2021. The agricultural specialists review NMPs submitted by farmers, analyze annual reports describing how farmers implemented their plans during the previous year, and perform on-farm inspections to make certain that plans are up-to-date and being followed properly. MDA is authorized to issue fines and penalties, take administrative actions, and pursue judicial actions, including civil and criminal proceedings. In CY21, MDA issued \$2,400 in fines to seven farmers; all were given the \$350 fine. Two of the farmers paid the fine in 2021 for a total of \$700 received in penalties; the other operators were referred to the Central Collections Unit.

## **NMP Submissions**

Maryland farmers are required by law to submit NMPs to MDA that have been developed by an MDA certified consultant or farm operator who is trained and certified by MDA to develop a plan solely for his or her operation. As of December 2021, NMPs have been submitted for 5,295 farm operations. This represents a total farm acreage of 1,239,687 acres required to be protected by these plans.

## **Annual Implementation Reports**

Farmers are required to maintain an updated NMP at the farm level to reflect changes in their operation. Annual Implementation Reports (AIRs) are required to be filed with MDA by March 1 of each year describing how nutrients were used on their operations. Every year MDA issues warning letters to farmers who fail to file the required AIR by the March deadline, followed by notification of pending fines. In cCY21, 5,016 farm operations (4,497 regular AIRs, 519 CAFO AIRs) had submitted AIRs to MDA. Eighty-three farmers remain out of compliance at the end of the calendar year, resulting in \$20,750 of pending, uncollected fines. Forty-one farmers have paid the \$250 fine for a total of \$10,250 collected. In December 2021, 65 farm operators were sent to the Central Collections Unit as part of the enforcement process. In 2021, 180 regular operations and 16 CAFO operations were made inactive after contacting the farm operators to confirm they no longer farm or no longer meet the Nutrient Management requirements of income or animal numbers. There were also new operators added, and some were farm transfers, so the net loss of operators is much less. The received implementation reports cover 1,238,514 acres of land.

## **On-Farm Plan Implementation Reviews and Inspections**

MDA conducted 783 plan implementation reviews and inspections in CY21 to verify that farmers' nutrient application records and receipts were in line with their NMPs. The inspections included both on-farm and virtual inspections due to the restrictions placed on in-person reviews because of COVID-19. The NM Program adopted a plan for virtual reviews in 2020 that continued throughout 2021, and a transition to virtual reviews has been successful. For those unable to provide records and plans electronically, farm reviews were scheduled using social distancing. During CY21, most reviews were in-person as both the NM specialists and the farm operators prefer in-person meetings. It is anticipated the NM Program will continue implementation reviews indefinitely using a hybrid of both virtual and in-person reviews. The NM Program reserved the right to return to the farm to inspect buffers and setbacks, and in-person meetings were required when responding to complaints. There are a surprising number of farm operations in Maryland that do not have access to computers, which continues to pose a challenge as the NM Program moves toward electronic submission of the AIR through the OneStop portal and virtual reviews are found to be an efficient method of review. Approximately 68% of those inspected were fully in compliance, 27% were determined to be out of compliance due to having no plan, an expired plan or incomplete plan. Two percent failed their inspections due to over application of nutrients and 3% failed due to inadequate records or nutrient application setback violations. MDA is working to bring these farmers into compliance. The compliance rate improved to 77% when violations were corrected by farmers within the given timeframe and re-inspected.

## **Production and Utilization of Animal Manures, Including Import and Export**

The following information is provided to meet the new AIR reporting requirements outlined below. The data is provided in three attachments and was compiled using the most recent complete AIR data, which is for the CY20.

**(c) Production and use of animal manure. --**

**(1)** Beginning in 2020, the report required under this section shall include information on the production and use of animal manure by farm operations covered by NMPs during the previous year, including:

**(i)** The amount of animal manure exported by farm operations to alternative use facilities or other farm operations in the State;

**(ii)** The amount of animal manure exported out of the State by farm operations; and

**(iii)** The amount of animal manure land applied by farm operations in the State and the source of that manure.

**(2)** The information required under this subsection shall be reported:

**(i)** By geographic area, including by county or local watershed; and

**(ii)** In a manner that protects the identity of individual farm operation.

Attachment 1- Manure Land Application in Maryland

Attachment 2- Manure Sent to Alternative Use / Manure Broker / Other Farm Operation

Attachment 3- Manure Exported Out of State

2020 - Manure Land Application In Maryland

County	Type of Manure	On Farm Collected Manure *				Imported Manure				Total Land Application of Manure			
		Tons	Acres	Gallons	Acres	Tons	Acres	Gallons	Acres	Tons	Acres	Gallons	Acres
<b>Allegany</b>													
	Beef	1,335.0	320.0	0.0	0.0	0.0	0.0	0.0	0.0	1,335.0	320.0	0.0	0.0
	Compost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Dairy	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Horse	8.0	11.5	0.0	0.0	0.0	0.0	0.0	0.0	8.0	11.5	0.0	0.0
	Poultry	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Sheep	6.0	10.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	10.0	0.0	0.0
	Swine	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Other Animal Manure **	65.0	20.0	0.0	0.0	0.0	0.0	0.0	0.0	65.0	20.0	0.0	0.0
<b>Anne Arundel</b>													
	Beef	647.0	123.5	0.0	0.0	0.0	0.0	0.0	0.0	647.0	123.5	0.0	0.0
	Compost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Dairy	94.0	20.0	0.0	0.0	0.0	0.0	0.0	0.0	94.0	20.0	0.0	0.0
	Horse	1,029.0	258.0	59.1	10.6	17.0	2.0	0.0	0.0	1,046.0	260.0	59.1	10.6
	Poultry	1.1	1.0	0.0	0.0	550.0	216.0	0.0	0.0	551.1	217.0	0.0	0.0
	Sheep	90.0	20.0	0.0	0.0	0.0	0.0	0.0	0.0	90.0	20.0	0.0	0.0
	Swine	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Other Animal Manure **	135.0	25.0	0.0	0.0	0.0	0.0	0.0	0.0	135.0	25.0	0.0	0.0
<b>Baltimore / Baltimore City</b>													
	Beef	1,757.0	532.0	0.0	0.0	150.0	15.0	0.0	0.0	1,907.0	547.0	0.0	0.0
	Compost	0.0	0.0	0.0	0.0	4.0	0.0	0.0	0.0	4.0	0.0	0.0	0.0
	Dairy	1,899.0	170.5	5,129,505.0	625.4	0.0	0.0	0.0	0.0	1,899.0	170.5	5,129,505.0	625.4
	Horse	2,485.0	858.7	0.0	0.0	46.0	0.0	0.0	0.0	2,531.0	858.7	0.0	0.0
	Poultry	874.0	277.7	0.0	0.0	3,771.0	793.0	0.0	0.0	4,645.0	1,070.7	0.0	0.0
	Sheep	39.0	21.0	0.0	0.0	0.0	0.0	0.0	0.0	39.0	21.0	0.0	0.0
	Swine	2.0	8.0	295,100.0	66.5	0.0	0.0	0.0	0.0	2.0	8.0	295,100.0	66.5
	Other Animal Manure **	5,413.0	764.6	0.0	0.0	0.0	0.0	0.0	0.0	5,413.0	764.6	0.0	0.0
<b>Calvert</b>													
	Beef	198.0	58.3	0.0	0.0	0.0	0.0	0.0	0.0	198.0	58.3	0.0	0.0
	Compost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Dairy	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Horse	297.0	117.3	0.0	0.0	0.0	0.0	0.0	0.0	297.0	117.3	0.0	0.0
	Poultry	33.5	10.5	0.0	0.0	0.0	0.0	0.0	0.0	33.5	10.5	0.0	0.0
	Sheep	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Swine	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Other Animal Manure **	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>Caroline</b>													
	Beef	659.9	105.0	180,000.0	18.0	472.0	296.0	0.0	0.0	1,131.9	341.0	180,000.0	18.0
	Compost	4,780.0	1,050.0	0.0	0.0	6,796.0	2,173.0	0.0	0.0	11,576.0	3,223.0	0.0	0.0
	Dairy	8,597.0	480.4	9,105,000.0	591.0	0.0	0.0	905,000.0	181.0	8,597.0	480.4	10,010,000.0	772.0
	Horse	34.0	13.0	0.0	0.0	92.0	38.0	0.0	0.0	126.0	51.0	0.0	0.0
	Poultry	22,919.2	9,315.4	0.0	0.0	51,740.0	16,726.0	0.0	0.0	74,659.2	26,041.4	0.0	0.0
	Sheep	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Swine	0.0	0.0	20,000.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	20,000.0	30.0
	Other Animal Manure **	1,133.0	460.0	0.0	0.0	0.0	0.0	0.0	0.0	1,133.0	460.0	0.0	0.0
<b>Carroll</b>													
	Beef	18,929.0	4,256.3	828,000.0	299.0	201.0	175.0	0.0	0.0	19,130.0	4,431.3	828,000.0	299.0
	Compost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Dairy	32,843.9	4,663.5	33,853,072.0	4,408.8	3,290.0	17.20	6,523,600.0	846.0	36,093.9	4,835.5	40,376,672.0	5,256.8
	Horse	1,495.9	306.4	0.0	0.0	1,412.0	420.0	0.0	0.0	2,847.9	348.4	0.0	0.0
	Poultry	634.0	341.2	0.0	0.0	17,944.0	8,206.0	0.0	0.0	18,578.0	8,547.2	0.0	0.0
	Sheep	26.0	44.1	0.0	0.0	0.0	0.0	0.0	0.0	26.0	44.1	0.0	0.0
	Swine	199.3	61.3	360,000.0	73.0	0.0	0.0	1,060,000.0	337.0	199.3	61.3	1,420,000.0	410.0
	Other Animal Manure **	45.0	30.1	0.0	0.0	0.0	0.0	0.0	0.0	45.0	30.1	0.0	0.0
<b>Cecil</b>													
	Beef	6,053.0	656.8	284,325.0	43.0	273.0	80.0	0.0	0.0	6,326.0	736.8	284,325.0	43.0
	Compost	0.0	0.0	0.0	0.0	709.0	80.0	0.0	0.0	709.0	80.0	0.0	0.0
	Dairy	1,2091.0	894.6	26,700,745.0	2,339.1	253.0	25.0	5,407,500.0	527.0	1,2344.0	919.6	32,108,245.0	2,866.1
	Horse	488.0	123.5	0.0	0.0	0.0	0.0	0.0	0.0	488.0	123.5	0.0	0.0
	Poultry	1,213.5	324.0	0.0	0.0	7,445.0	2,493.0	0.0	0.0	8,658.5	2,817.0	0.0	0.0
	Sheep	116.0	34.0	0.0	0.0	0.0	0.0	0.0	0.0	116.0	34.0	0.0	0.0
	Swine	300.0	68.0	701,820.0	50.0	0.0	0.0	0.0	0.0	300.0	68.0	701,820.0	50.0
	Other Animal Manure **	748.0	482.0	0.0	0.0	0.0	0.0	0.0	0.0	748.0	482.0	0.0	0.0
<b>Charles</b>													
	Beef	268.0	94.4	0.0	0.0	0.0	0.0	0.0	0.0	268.0	94.4	0.0	0.0
	Compost	0.0	0.0	0.0	0.0	4.0	4.0	0.0	0.0	4.0	4.0	0.0	0.0
	Dairy	115.0	49.0	0.0	0.0	0.0	0.0	0.0	0.0	115.0	49.0	0.0	0.0
	Horse	248.3	51.9	0.0	0.0	0.0	0.0	0.0	0.0	248.3	51.9	0.0	0.0
	Poultry	0.0	0.0	0.0	0.0	494.0	277.0	0.0	0.0	494.0	277.0	0.0	0.0
	Sheep	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Swine	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Other Animal Manure **	109.0	80.0	0.0	0.0	0.0	0.0	0.0	0.0	109.0	80.0	0.0	0.0

<b>Dorchester</b>													
Beef	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Compost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Dairy	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Horse	2.0	6.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	6.7	0.0	0.0
Poultry	14,769.0	6,522.0	0.0	0.0	34,669.0	14,352.0	0.0	0.0	49,488.0	20,874.0	0.0	0.0	0.0
Sheep	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Swine	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other Animal Manure**	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>Frederick</b>													
Beef	25,299.8	3,814.7	6,896,592.0	1,651.0	0.0	0.0	0.0	0.0	25,299.8	3,814.7	6,896,592.0	1,651.0	0.0
Compost	0.0	0.0	0.0	0.0	9.0	3.0	0.0	0.0	9.0	3.0	0.0	0.0	0.0
Dairy	34,465.0	4,966.5	97,086,635.0	13,262.4	9,496.0	956.0	1,109,198.0	2526.0	48,951.0	5,922.5	98,146,833.0	15,788.4	0.0
Horse	2,927.8	762.7	0.0	0.0	1,240.0	69.0	0.0	0.0	4,167.8	831.7	0.0	0.0	0.0
Poultry	4,865.1	2,879.5	0.0	0.0	7,090.0	3,260.0	0.0	0.0	11,955.1	6,139.5	0.0	0.0	0.0
Sheep	525.5	185.0	0.0	0.0	0.0	0.0	0.0	0.0	525.5	185.0	0.0	0.0	0.0
Swine	1,191.2	174.0	632,000.0	269.0	0.0	0.0	0.0	0.0	1,191.2	174.0	632,000.0	269.0	0.0
Other Animal Manure**	908.2	189.4	0.0	0.0	0.0	0.0	0.0	0.0	908.2	189.4	0.0	0.0	0.0
<b>Garrett</b>													
Beef	47,708.4	3,425.1	336,000.0	70.0	397.0	76.0	0.0	0.0	48,100.4	3,501.1	336,000.0	70.0	0.0
Compost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Dairy	10,129.5	1,771.1	14,416,583.0	3,537.7	0.0	0.0	848,000.0	207.0	10,129.5	1,771.1	15,264,583.0	3,744.7	0.0
Horse	295.0	385.0	0.0	0.0	10.0	0.0	0.0	0.0	305.0	385.0	0.0	0.0	0.0
Poultry	7.0	1.0	0.0	0.0	4,659.0	2,514.0	0.0	0.0	4,666.0	2,515.0	0.0	0.0	0.0
Sheep	110.0	45.0	0.0	0.0	0.0	0.0	0.0	0.0	110.0	45.0	0.0	0.0	0.0
Swine	30.0	16.0	0.0	0.0	0.0	0.0	0.0	0.0	30.0	16.0	0.0	0.0	0.0
Other Animal Manure**	2,799.0	576.0	0.0	0.0	0.0	0.0	0.0	0.0	2,799.0	576.0	0.0	0.0	0.0
<b>Harford</b>													
Beef	7,008.6	1,286.8	652,400.0	213.0	0.0	0.0	0.0	0.0	7,008.6	1,286.8	652,400.0	213.0	0.0
Compost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Dairy	8,815.0	758.8	14,047,953.0	2,081.8	0.0	0.0	0.0	0.0	8,815.0	758.8	14,047,953.0	2,081.8	0.0
Horse	784.4	188.7	0.0	0.0	50.0	74.0	0.0	0.0	834.4	262.7	0.0	0.0	0.0
Poultry	1,346.9	575.0	0.0	0.0	5,759.0	1,984.0	0.0	0.0	7,105.9	2,559.0	0.0	0.0	0.0
Sheep	83.0	51.4	0.0	0.0	0.0	0.0	0.0	0.0	83.0	51.4	0.0	0.0	0.0
Swine	120.0	170.0	777,000.0	138.0	0.0	0.0	0.0	0.0	120.0	170.0	777,000.0	138.0	0.0
Other Animal Manure**	98.0	37.6	0.0	0.0	0.0	0.0	0.0	0.0	98.0	37.6	0.0	0.0	0.0
<b>Howard</b>													
Beef	1,342.5	293.8	0.0	0.0	58.0	15.0	0.0	0.0	1,400.5	308.8	0.0	0.0	0.0
Compost	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0
Dairy	528.0	118.3	3,205,159.0	289.3	200.0	0.0	0.0	0.0	728.0	118.3	3,205,159.0	289.3	0.0
Horse	579.0	178.1	0.0	0.0	0.0	0.0	0.0	0.0	579.0	178.1	0.0	0.0	0.0
Poultry	1.5	3.0	0.0	0.0	482.0	241.0	0.0	0.0	483.5	244.0	0.0	0.0	0.0
Sheep	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.1	0.0	0.0	0.0
Swine	50.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50.0	0.0	0.0	0.0	0.0
Other Animal Manure**	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>Kent</b>													
Beef	714.0	164.4	0.0	0.0	772.0	80.0	0.0	0.0	1,486.0	244.4	0.0	0.0	0.0
Compost	0.0	0.0	0.0	0.0	2,900.0	772.0	0.0	0.0	2,900.0	772.0	0.0	0.0	0.0
Dairy	12,922.1	1,355.2	64,640,113.9	2,413.2	0.0	0.0	580,085.0	177.0	12,922.1	1,355.2	65,220,198.9	2,590.2	0.0
Horse	255.5	71.0	0.0	0.0	0.0	0.0	0.0	0.0	255.5	71.0	0.0	0.0	0.0
Poultry	2,488.0	923.6	0.0	0.0	48,748.0	15,949.0	0.0	0.0	46,281.0	16,872.6	0.0	0.0	0.0
Sheep	8.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	8.0	3.0	0.0	0.0	0.0
Swine	0.0	0.0	6,449,640.0	559.0	0.0	0.0	0.0	0.0	0.0	0.0	6,449,640.0	559.0	0.0
Other Animal Manure**	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>Montgomery</b>													
Beef	984.0	377.4	0.0	0.0	0.0	0.0	0.0	0.0	984.0	377.4	0.0	0.0	0.0
Compost	0.0	0.0	0.0	0.0	60.0	5.0	0.0	0.0	60.0	5.0	0.0	0.0	0.0
Dairy	598.5	132.0	1,650,000.0	240.0	0.0	0.0	0.0	0.0	598.5	132.0	1,650,000.0	240.0	0.0
Horse	2,626.5	502.7	0.0	0.0	191.0	66.0	0.0	0.0	2,817.5	568.7	0.0	0.0	0.0
Poultry	3.0	3.1	0.0	0.0	200.0	160.0	0.0	0.0	203.0	163.1	0.0	0.0	0.0
Sheep	2.0	8.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	8.0	0.0	0.0	0.0
Swine	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other Animal Manure**	392.0	85.0	0.0	0.0	0.0	0.0	0.0	0.0	392.0	85.0	0.0	0.0	0.0
<b>Prince George's</b>													
Beef	306.0	71.0	0.0	0.0	0.0	0.0	0.0	0.0	306.0	71.0	0.0	0.0	0.0
Compost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Dairy	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Horse	313.5	207.1	0.0	0.0	0.0	0.0	0.0	0.0	313.5	207.1	0.0	0.0	0.0
Poultry	6.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	6.0	1.5	0.0	0.0	0.0
Sheep	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Swine	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other Animal Manure**	8.5	3.0	0.0	0.0	0.0	0.0	0.0	0.0	8.5	3.0	0.0	0.0	0.0

<b>Queen Anne's</b>													
Beef	1,500.8	684.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,500.8	684.5	0.0	0.0
Compost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Dairy	4,157.0	357.0	11,963,215.0	1,260.5	3,200.0	40.0	600,000.0	100.0	0.0	4,477.0	397.0	12,563,215.0	1,360.5
Horse	448.2	165.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	448.2	165.2	0.0	0.0
Poultry	7,025.0	3,383.0	0.0	0.0	41,730.0	17,533.0	0.0	0.0	0.0	48,755.0	20,916.0	0.0	0.0
Sheep	14.3	13.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.3	13.9	0.0	0.0
Swine	180.0	22.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	180.0	22.0	0.0	0.0
Other Animal Manure**	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>St. Marys</b>													
Beef	1,414.0	425.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,414.0	425.9	0.0	0.0
Compost	0.0	0.0	0.0	0.0	1.0	2.0	0.0	0.0	0.0	1.0	2.0	0.0	0.0
Dairy	429.0	48.0	266,000.0	96.0	0.0	0.0	0.0	0.0	0.0	429.0	48.0	266,000.0	96.0
Horse	911.6	308.4	0.0	0.0	100.0	20.0	0.0	0.0	0.0	1,011.6	328.4	0.0	0.0
Poultry	584.1	157.1	0.0	0.0	8,478.0	3,191.0	0.0	0.0	0.0	9,062.1	3,288.1	0.0	0.0
Sheep	57.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	57.0	40.0	0.0	0.0
Swine	25.0	22.0	24,000.0	20.0	0.0	0.0	0.0	0.0	0.0	25.0	22.0	24,000.0	20.0
Other Animal Manure**	63.0	17.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	63.0	17.8	0.0	0.0
<b>Somerset</b>													
Beef	150.0	27.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	150.0	27.8	0.0	0.0
Compost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Dairy	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Horse	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Poultry	4,285.3	2,349.6	0.0	0.0	7,326.0	4,375.0	0.0	0.0	0.0	11,611.3	6,724.6	0.0	0.0
Sheep	5.5	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	4.5	0.0	0.0
Swine	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other Animal Manure**	5.5	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	4.5	0.0	0.0
<b>Talbot</b>													
Beef	955.0	168.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	955.0	168.5	0.0	0.0
Compost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Dairy	2,569.0	401.0	2,239,990.0	382.6	150.0	18.0	1,073,000.0	225.0	0.0	2,719.0	419.0	3,312,990.0	607.6
Horse	505.0	73.7	0.0	0.0	151.0	54.0	0.0	0.0	0.0	657.0	127.7	0.0	0.0
Poultry	3,883.0	2,426.6	0.0	0.0	20,545.0	10,730.0	0.0	0.0	0.0	24,428.0	13,156.6	0.0	0.0
Sheep	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Swine	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other Animal Manure**	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>Washington</b>													
Beef	14,450.0	2,346.2	1,818,085.0	576.0	833.0	157.0	0.0	0.0	0.0	15,283.0	2,500.2	1,818,085.0	576.0
Compost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Dairy	53,605.5	8,444.1	104,317,041.0	16,405.0	1,932.0	348.0	4,253,250.0	924.0	0.0	55,538.5	8,787.1	108,570,291.0	17,329.0
Horse	709.0	54.8	0.0	0.0	200.0	17.0	0.0	0.0	0.0	909.0	71.8	0.0	0.0
Poultry	3,588.5	2,086.0	0.0	0.0	10,153.0	3,976.0	0.0	0.0	0.0	13,741.5	6,012.0	0.0	0.0
Sheep	191.0	59.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	191.0	59.0	0.0	0.0
Swine	882.5	174.0	7,27,000.0	139.0	0.0	0.0	0.0	0.0	0.0	882.5	174.0	7,27,000.0	139.0
Other Animal Manure**	2,507.5	739.0	75,000.0	15.0	120.0	1.0	450,000.0	1,666.0	0.0	2,519.5	740.0	525,000.0	1,681.0
<b>Wicomico</b>													
Beef	386.0	93.0	0.0	0.0	20.0	5.0	0.0	0.0	0.0	406.0	98.0	0.0	0.0
Compost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Dairy	500.0	40.0	740,000.0	150.5	0.0	0.0	0.0	0.0	0.0	500.0	40.0	740,000.0	150.5
Horse	109.0	17.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	109.0	17.2	0.0	0.0
Poultry	2,829.0	1,601.0	0.0	0.0	10,397.0	5,600.0	0.0	0.0	0.0	13,226.0	7,201.0	0.0	0.0
Sheep	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Swine	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other Animal Manure**	15.0	16.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.0	16.4	0.0	0.0
<b>Worcester</b>													
Beef	77.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	77.0	30.0	0.0	0.0
Compost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Dairy	0.0	0.0	1,950,000.0	133.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,950,000.0	133.0
Horse	167.6	23.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	167.6	23.0	0.0	0.0
Poultry	3,291.7	3,185.6	0.0	0.0	19,868.0	11,052.0	0.0	0.0	0.0	23,159.7	14,247.6	0.0	0.0
Sheep	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Swine	20.0	16.0	540,000.0	54.0	0.0	0.0	0.0	0.0	0.0	20.0	16.0	540,000.0	54.0
Other Animal Manure**	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>State Totals 2020</b>													
Beef	132,137.0	19,352.4	10,995,352.0	2,810.0	3,176.0	839.0	0.0	0.0	0.0	135,313.0	20,191.4	10,995,352.0	2,810.0
Compost	4,780.0	1,050.0	0.0	0.0	10,424.0	3,089.0	0.0	0.0	0.0	15,204.0	4,089.0	0.0	0.0
Dairy	184,344.4	24,670.0	391,261,011.9	48,166.3	15,601.0	1,554.0	21,299,633.0	5,715.0	0.0	199,945.4	26,224.0	412,560,644.9	53,881.3
Horse	16,610.2	4,684.5	0.0	59.1	10.6	3,509.0	382.0	0.0	0.0	20,119.2	5,056.5	0.0	10.6
Poultry	74,648.5	36,317.4	0.0	0.0	297,063.0	129,578.0	0.0	0.0	0.0	371,711.5	159,895.4	0.0	0.0
Sheep	1,273.7	538.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,273.7	538.9	0.0	0.0
Swine	3,008.0	731.3	10,466,560.0	1,398.5	0.0	0.0	1,050,000.0	337.0	0.0	3,008.0	731.3	11,526,560.0	1,735.5
Other Animal Manure**	14,444.7	3,530.4	75,000.0	15.0	120.0	1.0	450,000.0	1,666.0	0.0	14,456.7	3,531.4	525,000.0	1,681.0

\* 0 in Farm Collected Manure = Includes manure that produced on the farm and was collected in 2020 and also includes any manure that was in storage or stockpiled from 2013

\*\* Other Animal Manure = This category includes manure from other minor animal types not listed as well as animal manure that have been combined (mixed together) and



Attachment 2

2020 Manure Sent to Alternative Use / Manure Broker / Other Farm Operation

County	Type of Manure	Alternative Use		Manure Broker		Other Farm Operation		Total	
		Tons	Gallons	Tons	Gallons	Tons	Gallons	Tons	Gallons
<b>Allegany</b>	Beef	0.0	0.0	0.0	0.0	17.0	0.0	17.0	0.0
<b>Anne Arundel</b>	Horse	10,229.0	0.0	20.0	0.0	910.0	0.0	11,159.0	0.0
<b>Baltimore</b>	Beef	0.0	0.0	0.0	0.0	150.0	0.0	150.0	0.0
	Horse	3,580.0	0.0	20,721.0	0.0	101.0	0.0	24,402.0	0.0
	Poultry	0.0	0.0	0.0	0.0	1.0	0.0	1.0	0.0
	Sheep	0.0	0.0	0.0	0.0	24.0	0.0	24.0	0.0
<b>Calvert</b>	Beef	0.0	0.0	0.0	0.0	22.0	0.0	22.0	0.0
	Horse	5.0	0.0	0.0	0.0	0.0	0.0	5.0	0.0
<b>Caroline</b>	Horse	0.0	0.0	0.0	0.0	199.0	0.0	199.0	0.0
	Poultry	0.0	0.0	10,950.0	0.0	20,240.0	0.0	31,190.0	0.0
<b>Carroll</b>	Beef	1.0	0.0	0.0	0.0	1,207.0	0.0	1,208.0	0.0
	Dairy	0.0	0.0	0.0	0.0	2,445.6	4,586,200.0	2,445.6	4,586,200.0
	Horse	269.0	0.0	264.0	0.0	489.0	0.0	1,022.0	0.0
	Poultry	0.0	0.0	0.0	0.0	6,113.0	0.0	6,113.0	0.0
	Sheep	2.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0
	Swine	0.0	0.0	0.0	0.0	0.0	1,044,000.0	0.0	1,044,000.0
<b>Cecil</b>	Beef	0.0	0.0	0.0	0.0	273.0	0.0	273.0	0.0
	Dairy	0.0	0.0	0.0	0.0	0.0	100,000.0	0.0	100,000.0
	Horse	1,008.0	0.0	970.0	0.0	372.0	0.0	2,350.0	0.0
	Poultry	0.0	0.0	115.0	0.0	25,764.0	0.0	25,879.0	0.0
<b>Charles</b>	Horse	0.0	0.0	0.0	0.0	123.0	0.0	123.0	0.0
<b>Dorchester</b>	Horse	0.0	0.0	0.0	0.0	48.0	0.0	48.0	0.0
	Poultry	0.0	0.0	2,007.0	0.0	4,763.0	0.0	6,770.0	0.0
<b>Frederick</b>	Beef	0.0	0.0	0.0	0.0	54.0	0.0	54.0	0.0
	Dairy	0.0	0.0	0.0	0.0	0.0	1,105,000.0	0.0	1,105,000.0
	Horse	110.0	0.0	0.0	0.0	942.0	0.0	1,052.0	0.0
	Poultry	0.0	0.0	0.0	0.0	451.0	0.0	451.0	0.0
	Swine	0.0	0.0	0.0	0.0	103.0	0.0	103.0	0.0
<b>Garrett</b>	Dairy	0.0	0.0	0.0	0.0	13.0	0.0	13.0	0.0
	Horse	0.0	0.0	0.0	0.0	98.0	0.0	98.0	0.0

<b>Harford</b>	Beef	0.0	0.0	0.0	0.0	100.0	0.0	100.0	0.0
	Dairy	0.0	0.0	0.0	0.0	0.0	35,000.0	0.0	35,000.0
	Horse	148.0	0.0	1,673.0	0.0	510.0	0.0	2,331.0	0.0
<b>Howard</b>	Beef	3.0	0.0	0.0	0.0	0.0	0.0	3.0	0.0
	Dairy	0.0	0.0	0.0	0.0	200.0	0.0	200.0	0.0
	Horse	660.0	0.0	543.0	0.0	1,420.0	0.0	2,623.0	0.0
<b>Kent</b>	Beef	0.0	0.0	0.0	0.0	122.0	0.0	122.0	0.0
	Dairy	0.0	0.0	0.0	0.0	432.0	1,190,000.0	432.0	1,190,000.0
	Horse	505.0	0.0	0.0	0.0	57.0	0.0	562.0	0.0
	Poultry	0.0	0.0	0.0	0.0	4,019.0	0.0	4,019.0	0.0
<b>Montgomery</b>	Horse	2,177.0	0.0	1,896.0	0.0	1,486.0	0.0	5,559.0	0.0
	Other Manure*	10.0	0.0	0.0	0.0	0.0	0.0	10.0	0.0
<b>Prince George's</b>	Beef	0.0	0.0	0.0	0.0	2.0	0.0	2.0	0.0
	Horse	97.0	0.0	0.0	0.0	105.0	0.0	202.0	0.0
	Other Manure*	0.0	0.0	0.0	0.0	172.0	0.0	172.0	0.0
<b>Queen Anne's</b>	Beef	0.0	0.0	0.0	0.0	869.0	0.0	869.0	0.0
	Dairy	0.0	0.0	0.0	0.0	0.0	600,000.0	0.0	600,000.0
	Horse	0.0	0.0	0.0	0.0	133.0	0.0	133.0	0.0
	Poultry	60.0	0.0	537.0	0.0	20,801.0	0.0	21,398.0	0.0
<b>St. Mary's</b>	Beef	55.0	0.0	0.0	0.0	0.0	0.0	55.0	0.0
	Horse	0.0	0.0	0.0	0.0	47.0	0.0	47.0	0.0
	Other Manure*	0.0	0.0	0.0	0.0	0.0	10,000.0	0.0	10,000.0
<b>Somerset</b>	Poultry	3,000.0	0.0	14,245.0	7,937.0	4,948.4	0.0	22,193.4	7,937.0
<b>Talbot</b>	Dairy	0.0	0.0	0.0	0.0	150.0	1,099,000.0	150.0	1,099,000.0
	Horse	27.0	0.0	360.0	0.0	6.0	0.0	393.0	0.0
	Poultry	0.0	0.0	0.0	0.0	3,859.0	0.0	3,859.0	0.0
<b>Washington</b>	Beef	0.0	0.0	0.0	0.0	790.0	0.0	790.0	0.0
	Dairy	0.0	0.0	0.0	0.0	2,452.0	3,214,000.0	2,452.0	3,214,000.0
	Horse	0.0	0.0	0.0	0.0	418.0	0.0	418.0	0.0
	Poultry	0.0	0.0	0.0	0.0	304.0	0.0	304.0	0.0
	Other Manure*	0.0	0.0	0.0	0.0	0.0	604,000.0	0.0	604,000.0
<b>Wicomico</b>	Horse	0.0	0.0	23.0	0.0	65.0	0.0	88.0	0.0
	Poultry	0.0	0.0	6,288.0	0.0	8,211.0	175.0	14,499.0	175.0
<b>Worcester</b>	Horse	1.0	0.0	0.0	0.0	5.0	0.0	6.0	0.0
	Poultry	0.0	0.0	10,607.0	0.0	10,747.0	0.0	21,354.0	0.0
	Swine	0.0	0.0	0.0	0.0	90.0	0.0	90.0	0.0

<b>State Totals 2020</b>	Beef	59.0	0.0	0.0	0.0	3,606.0	0.0	3,665.0	0.0
	Dairy	0.0	0.0	0.0	0.0	5,692.6	11,929,200.0	5,692.6	11,929,200.0
	Horse	18,816.0	0.0	26,470.0	0.0	7,534.0	0.0	52,820.0	0.0
	Poultry	3,060.0	0.0	44,749.0	7,937.0	110,221.4	175.0	158,030.4	8,112.0
	Sheep	2.0	0.0	0.0	0.0	24.0	0.0	26.0	0.0
	Swine	0.0	0.0	0.0	0.0	193.0	1,044,000.0	193.0	1,044,000.0
	Other Manure*	10.0	0.0	0.0	0.0	172.0	614,000.0	182.0	614,000.0
	<b>Total</b>	<b>21,947.0</b>	<b>0.0</b>	<b>71,219.0</b>	<b>7,937.0</b>	<b>127,443.0</b>	<b>13,587,375.0</b>	<b>220,609.0</b>	<b>13,595,312.0</b>

\* Other Manure - is for animal types not listed or animal manures that have been mixed together.

Attachment 3

2020 - Manure Exported Out of State

County	Type of Manure	Pennsylvania		Deleware		New Jersey		Virginia		West Virginia		total (All States)	
		Gallons	Tons	Gallons	Tons	Gallons	Tons	Gallons	Tons	Gallons	Tons	Gallons	Tons
<b>Anne Arundel</b>													
	Horse		663.0									0.0	663.0
<b>Baltimore</b>													
	Beef		4.0									0.0	4.0
	Horse	98.0	2,188.0									98.0	2,188.0
	Sheep		5.0									0.0	5.0
<b>Caroline</b>													
	Beef				20.0							0.0	20.0
	Horse		514.0									0.0	514.0
	Poultry				3,784.0							0.0	3,784.0
<b>Carroll</b>													
	Beef		157.0									0.0	157.0
	Horse		60.0									0.0	60.0
<b>Cecil</b>													
	Beef				27.0							0.0	27.0
	Dairy	1,343,000.0										1,343,000.0	0.0
	Horse		13,604.0		12.0							0.0	13,616.0
	Poultry						2,375.0					0.0	2,375.0
<b>Charles</b>													
	Horse								50.0			0.0	50.0
<b>Dorchester</b>													
	Poultry				11,188.0							0.0	9,171.0
<b>Frederick</b>													
	Sheep									98.0		0.0	98.0
<b>Harford</b>													
	Dairy	36,000.0	150.0									36,000.0	150.0
	Horse		1,323.0									0.0	1,323.0
<b>Howard</b>													
	Beef								1.0			0.0	1.0
	Horse		82.0									0.0	82.0
<b>Kent</b>													
	Poultry				125.0							0.0	125.0
<b>Montgomery</b>													
	Horse		1,457.0						5.0			0.0	1,462.0
<b>Prince George's</b>													
	Horse		37.0									0.0	37.0
<b>Queen Anne's</b>													
	Horse		318.0									0.0	318.0
	Poultry				484.0							0.0	484.0
<b>Somerset</b>													
	Poultry		96.0		6,440.0							0.0	6,536.0
<b>Talbot</b>													
	Horse		375.0									0.0	375.0

<b>Washington</b>												
Beef										120.0	0.0	120.0
Dairy	1,754,000.0	2,296.0									1,754,000.0	2,296.0
Horse		7.0								30.0	0.0	37.0
Poultry		310.0									0.0	310.0
<b>Wicomico</b>												
Poultry				35,787.0							0.0	35,787.0
<b>Worcester</b>												
Poultry		360.0		22,718.0				1,196.0			0.0	24,274.0
<b>State Totals 2020</b>												
Beef	0.0	161.0	0.0	47.0	0.0	0.0	0.0	1.0	0.0	0.0	120.0	
Dairy	3,133,000.0	2,446.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Horse	98.0	20,628.0	0.0	12.0	0.0	0.0	0.0	55.0	0.0	0.0	30.0	
Poultry	0.0	766.0	0.0	80,526.0	0.0	2,375.0	0.0	1,196.0	0.0	0.0	0.0	
Sheep		5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.0	
<b>Total</b>	<b>3,133,098.0</b>	<b>24,006.0</b>	<b>0.0</b>	<b>80,585.0</b>	<b>0.0</b>	<b>2,375.0</b>	<b>0.0</b>	<b>1,252.0</b>	<b>0.0</b>	<b>0.0</b>	<b>248.0</b>	
<b>Out of State - Total Gallons</b>		<b>3,133,098.0</b>										
<b>Out of State - Total Tons</b>		<b>108,466.0</b>										