Non-Typical Manure Export Situations

SCC Spring 2022 Roundtable Webinar

March 21 & 22, 2022

Mike Brubaker
State Conservation Commission
(717) 705-1688
mibrubaker@pa.gov

1

Typical

Typical

3

For today's presentation

❖ **"non-typical" manure export situations:**

  ➤ **Manure exported for use in making compost**

  ➤ **Manure exported to landfills**

  ➤ **Manure exported to another farm for use as bedding.**

  ➤ **Manure exported for use in making energy**

  ➤ **Manure exported using the open market system**

  ➤ **Manure exported using manure auctions**

4

What & Who

❖ **Normally dry / stackable manure**

- ➤ Heavy on bedding or litter
- ➤ Low % moisture
- ➤ Mostly poultry & equine
- ➤ Most often all-export farms, with little to no crops or pasture

❖ **Generally 2 groups of importers**

- ➤ Those whose main concern is *material volume*
- ➤ Those whose main concern is *nutrient content*

5

Those whose main concern is material *volume*

❖ **Importer primarily wants / is willing to take the *material***

❖ **Importer has little to no need for knowing analysis**

- ➤ **Manure used in making compost**
  - ✓ **Mushroom growers**
  - ✓ **Mulch and landscaping businesses**
- ➤ **Manure accepted at landfill**
- ➤ **Manure dried and used as bedding**
- ➤ **Manure used for making energy**
  - ✓ **Incinerators / burners**

6

Volume continued.......

❖**References**

➢ **83.301 (a) & (d)**

➢ **NM Tech Manual / App. 8 / Scenario 3**

✓**Need Signed Agreements (*but not NBSs*)**

▪ *Manure used for other than Ag land application*

✓**Haulers / brokers still need to be Act 49 cert.**

✓**NMP must include:**

▪ **Description of how exported manure will be managed**

▪ **Importer's name & site address**

▪ **Estimated amount & intended season**

7

Those whose main concern is *nutrients*

❖**Importer *wants the nutrients***

❖**Importer interested in analysis as much as volume**

➢ **Manure Auctions**

➢ **Manure dried, bagged, and sold @ retail outlets**

➢ **Possibly manure exported through an open market**

➢ **Manure digestors**

8

Nutrients continued......

❖**References**

➤ **83.301 (a-e) & (h)**

➤ **NM Tech Manual / App. 8 / Scenario 5**

✓**Exporter must be Act 49 broker certified**

✓**NBSs (*but not Signed Agreements*) needed for importer for Auctions & Open Market situations (those larger than small-quantity)**

✓**Signed Agreements (*but not NBSs*) needed with retailor for retail**

✓**Field application setbacks apply to Ag land application**

9

Nutrients continued......

➤**Exporter's NMP must include:**

✓**Estimated amounts**

✓**Proposed marketing scheme:**

▪ **Form of product**

▪ **Perspective markets**

▪ **General region material to be marketed**

▪ **Planned advertisement system**

10

Required Records

❖ **Manure generated**
   ➤ tons, gallons, cu. ft.

❖ **Manure export records**
   ➤ Manure Export Sheet
   ➤ Manure Transfer Summary Sheet is optional
      ✓ Exporter may use an Excel spreadsheet

❖ **Manure analysis _only_ needed when**
   ➤ Land applied (auctions & open markets)
   ➤ Packaged and sold through retail *(PDA requirement)*

11

Manure Export Sheet

Section 1

Name of Operation Exporting Manure _____
Name of Manure Importer/Broker _____
Address of Importer/Broker _____
_____
_____

County _____ Township _____

Type of Manure Transferred _____ (animal type)

Check here if manure will not be land applied

Analysis of Manure   N: _____   P$_2$O$_5$: _____   K$_2$O: _____

(Units: lbs/ton   lbs/100 gal   lbs/1,000 gal   other _____)

	Planned	**Actual**	
Total Amount of Manure Transferred	_____	_____	(tons or gal)

Date(s) Manure was Transferred _____

Check here if Importer has received manure informational packet

Section 2

(To be completed when the exporter, or a person working under the direction of the exporter, applies the manure.)

Applied to: _____   _____   _____   (field or crop group)

Number of Acres   _____   _____   _____

Rate of Application _____   _____   _____

Notes:
1. Use a separate Manure Export Sheet for each separate manure type
2. All manure applications within Pennsylvania shall be in accordance with the accepted practices described in the Pennsylvania Department of Environmental Protection Manure Management Manual. When manure application practices do not conform to those described in the Manual, DEP approval is required.

12

6

Summary of MANURE TRANSFERS
(Optional, see §83.301c)

Name of operator
exporting manure   _____

Date   _____

Time Frame
of Report   _____

Transfer Date	Name of importer or broker	Type of manure *1	Amount (Tons or gal)	No. of Acres *2	Application Rate *2 (per ac)

13

Other Possible Situations???

❖**Possible future situations:**

➢ **Centralized / regional litter burners**

➢ **Centralized / regional litter pelletizers**

➢ **Centralized methane digestors**

➢ **Manure co-ops**

14

Definitely Non-Typical!
Questions?

Purdue University 1997

15