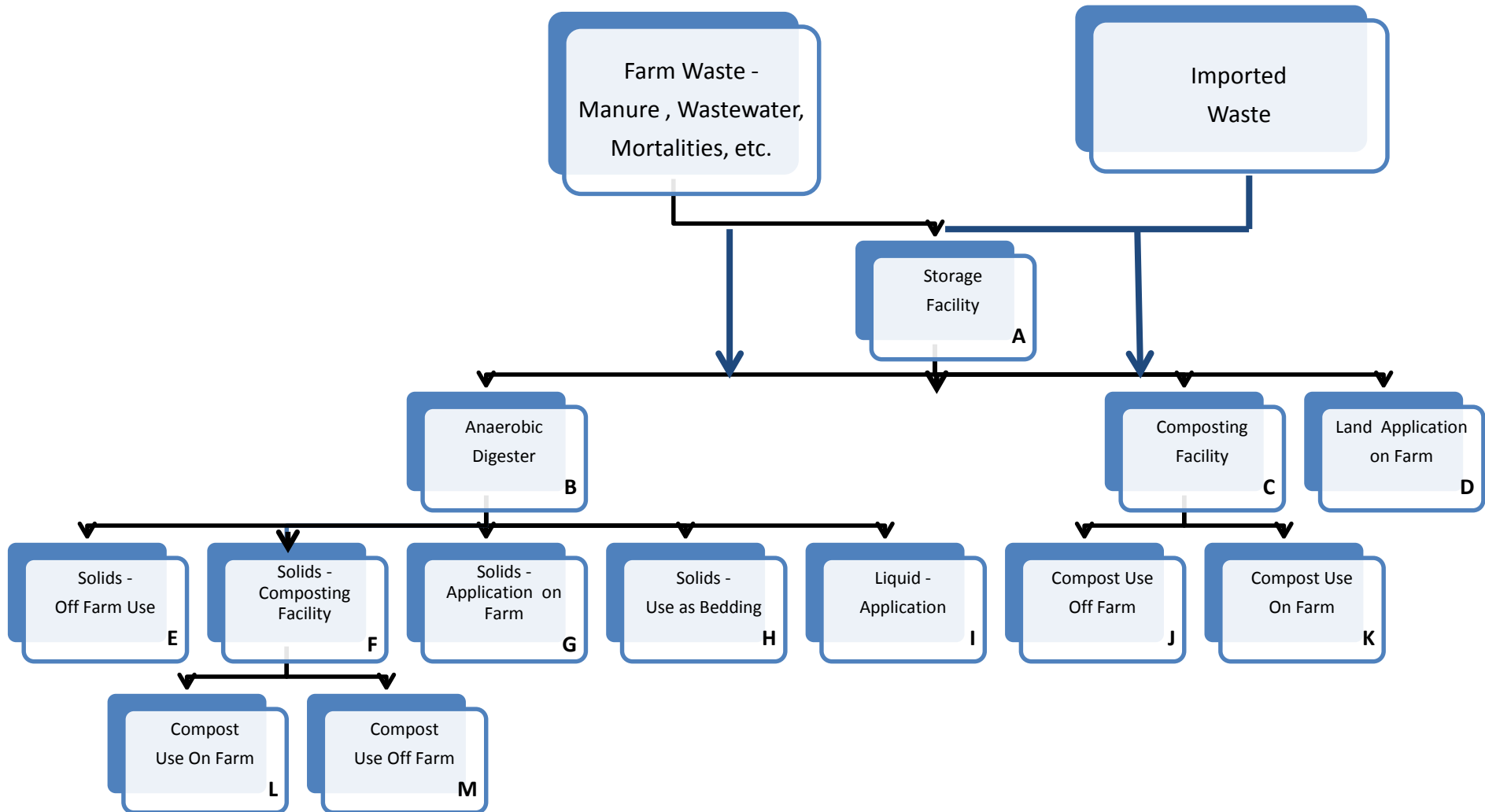


# Management of Wastes On A Farm – Water & Solid Waste Regulatory Requirements

NOTE: Facilities not located on a farm may be regulated differently

UPDATED: MAY 2015



## **UPDATED MAY 2015**

# **SOLID WASTE AND WATER REGULATORY REQUIREMENTS FOR WASTES MANAGED ON A FARM**

CAFO – Concentrated Animal Feeding Operation  
360 – 6 NYCRR Part 360 Solid Waste Management Facilities  
CNMP – Comprehensive Nutrient Management Plan  
NRCS – Natural Resources Conservation Services

NOTE: Farms not subject to CAFO regulations must still comply with the Part 360 criteria outlined below, although the CAFO criteria do not apply. In addition, they must not cause water quality violations.

## **A – STORAGE FACILITIES**

1. Manure, Process Wastewater, other Farm Generated Waste Only (excludes farm generated sanitary waste)  
CAFO – CNMP, NRCS 313  
360 – Exempt 1.7(b)(4)
2. Recognizable Food Processing Waste with Farm Waste  
CAFO – CNMP, NRCS 313  
360 – Exempt 4.2(a)(2)
3. Nonrecognizable Food Processing Waste with Farm Waste  
CAFO- CNMP, NRCS 313  
360 – CAFO: Exempt (4.2(a)(5)) up to 50% by volume annually  
Non-CAFO: Registration 4.2(b)(1)(vii) required up to 40% by volume, liner certification required if greater than 10% by volume annually
4. Septage without Farm Waste  
CAFO – not applicable (no water quality violations)  
360- Registration for 1 or 2 trucks (4.2(b)(3)), lime addition required, Permit if more than 2 trucks (4.9, 4.10)
5. Septage with Farm Waste  
CAFO- not allowed  
360- Registration for 1 or 2 trucks (4.2(b)(3)) – lime addition required. Permit if more than 2 trucks (4.9, 4.10)
6. Biosolids (Sewage Sludge) without Farm Waste  
CAFO – not applicable (no water quality violations)  
360 – Permit (4.9, 4.10)

7. Biosolids with Farm Waste  
CAFO – CNMP, NRCS 313  
360 – Permit (4.9, 4.10)
  
8. Slaughter Waste/Mortalities/Fats/Oil/Grease Waste Generated Off Farm Mixed with Farm Waste  
CAFO – not allowed for slaughter waste and mortalities  
360 – CAFO: Exempt (4.2(a)(5)) up to 50% by volume annually  
Non-CAFO: Permit 1.9(b) – land application approval of material is unlikely due to lack of benefit
  
9. Slaughter Waste/Mortalities Generated On Farm Mixed With Farm Waste  
CAFO – not allowed  
360 – Exempt 1.7(b)(4)
  
10. Other Industrial/Commercial Waste Generated Off Farm Mixed with Farm Waste  
CAFO – CNMP, NRCS 313  
360 – CAFO: Exempt (4.2(a)(5)) up to 50% by volume annually  
Non-CAFO: Permit 1.9(b)

## **B – ANAEROBIC DIGESTION FACILITIES**

1. Manure, Process Washwater, other Farm Generated Waste Only (excludes farm generated sanitary waste)  
CAFO – CNMP, NRCS 313  
360 – Exempt 5.3(a)(5)(i)
  
2. Recognizable Food Processing Waste with Farm Waste  
CAFO – CNMP, NRCS 313  
360 – CAFO: Exempt 5.3(a)(5)(ii) if non-farm waste does not exceed 50% annually  
Non-CAFO: Registration 5.3(b)(3)(i) up to 50 tons per day
  
3. Nonrecognizable Food Processing Waste with Farm Waste  
CAFO- CNMP, NRCS 313  
360 – CAFO: Exempt 5.3(a)(5)(ii) if non-farm waste does not exceed 50% annually  
Non-CAFO: Registration 5.3(b)(3)(i) up to 50 tons per day
  
4. Septage without Farm Waste  
CAFO – not applicable (no water quality violation)  
360 - Permit 5.4 & 5.5
  
5. Septage with Farm Waste  
CAFO- not allowed  
360 - Permit 5.4 & 5.5
  
6. Biosolids without Farm Waste

- CAFO – not applicable (no WQV)  
360 – Permit 5.4 & 5.5
7. Biosolids with Farm Waste  
CAFO – CNMP, NRCS 313  
360 – Permit 5.4 & 5.5
  8. Slaughter Waste/Mortalities/Fats/Oil/Grease Waste Generated Off Farm Mixed with Farm Waste  
CAFO – not allowed unless it can be shown that the material can be digested effectively  
360 – CAFO: Exempt 5.3(a)(5)(ii) if non-farm waste does not exceed 50% annually  
Non-CAFO: Registration 5.3(b)(3)(i) up to 50 tons per day
  9. Slaughter Waste/Mortalities Waste Generated On Farm Mixed with Farm Waste  
CAFO – not allowed unless it can be shown that the material can be digested effectively  
360 – Exempt 5.3(a)(5)(i)
  10. Other Industrial/Commercial Waste Generated Off Farm Mixed with Farm Waste  
CAFO – CNMP, NRCS 313  
360 – CAFO: Exempt 5.3(a)(5)(ii) if non-farm waste does not exceed 50% annually  
Non-CAFO: Registration 5.3(b)(3)(i) up to 50 tons per day

## **C – COMPOSTING FACILITIES**

1. Manure, Process Wastewater, other Farm Generated Waste Only (includes on-site generated mortalities)  
CAFO – CNMP, NRCS 316 & 317  
360 – Exempt 1.7(b)(4) or 5.3(a)(1)
2. Recognizable Food Processing Waste with Farm Waste  
CAFO – CNMP, NRCS 317  
360 – Registration 5.3(b)(1)
3. Nonrecognizable Food Processing Waste with Farm Waste  
CAFO- CNMP, NRCS 317  
360 – Registration 5.3(b)(1)
4. Septage without Farm Waste  
CAFO – not applicable (no WQV)  
360- Permit 5.4 & 5.5
5. Septage with Farm Waste  
CAFO- CNMP, NRCS 317  
360- Permit 5.4 & 5.5

6. Biosolids without Farm Waste  
CAFO – not applicable (no water quality violations)  
360 – Permit 5.4 & 5.5
7. Biosolids with Farm Waste  
CAFO – CNMP, NRCS 317  
360 – Permit 5.4 & 5.5
8. Slaughter Waste/Mortalities or Other Industrial/Commercial Waste Generated Off Farm Mixed with Farm Waste  
CAFO – CNMP, NRCS 317  
360 – Depends on type of waste

## **D – LAND APPLICATION FACILITIES**

1. Manure, Process Washwater, other Farm Generated Waste Only  
CAFO – CNMP, NRCS 590  
360 – Exempt 1.7(b)(1)
2. Recognizable Food Processing Waste with Farm Waste  
CAFO – CNMP, NRCS 590  
360 – Exempt 4.2(a)(2)
3. Nonrecognizable Food Processing Waste with Farm Waste  
CAFO- CNMP, NRCS 590  
360 – CAFO: Exempt 4.2(a)(5)  
Non-CAFO: Registration 4.2(b)(1)
4. Septage without Farm Waste  
CAFO – CNMP, NRCS 590  
360- Registration for 1 or 2 trucks (4.2(b)(2)), Permit if more than 2 trucks (4.6&4.7)
5. Septage with Farm Waste  
CAFO- CNMP, NRCS 590  
360- Registration for 1 or 2 trucks (4.2(b)(2)), Permit if more than 2 trucks (4.6&4.7)
6. Biosolids without Farm Waste  
CAFO – CNMP, NRCS 590  
360 – Permit 4.6 & 4.7
7. Biosolids with Farm Waste  
CAFO – CNMP, NRCS 590  
360 – Permit 4.6 & 4.7
8. Slaughter Waste/Mortalities/Fats/Oil/Grease Waste Generated Off Farm

CAFO – not allowed  
360 – not allowed (no benefit)

9. Other Industrial/Commercial Waste Generated Off Farm  
CAFO – CNMP, NRCS 590  
360 – Depends on the type of waste

## **E – OFF FARM USE OF DIGESTER SOLIDS**

### **INPUT TO DIGESTER:**

1. Manure, Process Wastewater, other Farm Generated Waste Only  
CAFO – CAFO Export Provisions  
360 – Exempt 1.7(b)(3) or BUD 1.15(b)(2)
2. Recognizable Food Processing Waste with Farm Waste  
CAFO – CAFO Export Provisions  
360 – Exempt 4.2(a)(2) or BUD 1.15(b)(2)
3. Nonrecognizable Food Processing Waste with Farm Waste  
CAFO- CAFO Export Provisions  
360 – CAFO: Exempt 5.3(a)(5)(ii)  
Non-CAFO: if digester is less than 50 tons per day – exempt for animal bedding, topsoil. Registration for land application (unless a CAFO) or composting 5.3(b)(3)(i)
4. Septage without Farm Waste  
CAFO – CAFO Export Provisions  
360- Registration for 1 or 2 trucks (4.2(b)(2)), Permit if more than 2 trucks (4.6&4.7)
5. Septage with Farm Waste  
CAFO- CAFO Export Provisions  
360- Registration for 1 or 2 trucks (4.2(b)(2)), Permit if more than 2 trucks (4.6&4.7)
6. Biosolids without Farm Waste  
CAFO – CAFO Export Provisions  
360 – Permit 4.6 & 4.7
7. Biosolids with Farm Waste  
CAFO – CAFO Export Provisions  
360 – Permit 4.6 & 4.7
8. Slaughter Waste/Mortalities/Fats/Oil/Grease or Other Industrial/Commercial Waste Generated Off Farm Mixed with Farm Waste  
CAFO – CAFO Export Provisions  
360 – CAFO: Exempt 5.3(a)(5)(ii)  
Non-CAFO: if digester is less than 50 tons per day – exempt for animal bedding, topsoil. Registration for land application (unless a CAFO) or composting 5.3(b)(3)(i)

9. Slaughter Waste/Mortalities Generated on Farm Mixed with Farm waste  
CAFO – CAFO Export Provisions  
360 – Exempt 1.7(b)(1)

## **F – COMPOSTING FACILITIES FOR DIGESTER SOLIDS**

CAFO - Same as C  
360 – Same as C. except Exempt for solids from farms wastes 5.3(a)(5)(i) and for a digester at a CAFO with no sanitary waste and no more than 50% non-farm waste annually; Registration for digester subject to registration

## **G – LAND APPLICATION OF DIGESTER SOLIDS ON THE FARM**

CAFO – CNMP, NRCS 590  
360 – Same as E except if all wastes were generated on-site or nonrecognizable food processing-site land application is exempt

## **H – USE OF DIGESTER SOLIDS AS BEDDING**

CAFO – not applicable (CAFO CNMP, NRCS 590 applies to land application after use as bedding)  
360 – see E.

## **I – LAND APPLICATION OF DIGESTER LIQUID ON THE FARM**

CAFO – CNMP, NRCS 590  
360 – See E.

## **J & M – COMPOST USE OFF THE FARM**

CAFO – not applicable unless taken to a CAFO  
360 – not applicable [BUD 1.15(b)(2)]

## **K & L – COMPOST USE ON THE FARM**

CAFO – CNMP, NRCS 590  
360 – not applicable [BUD 1.15(b)(2)]

# CAFO/360 MATRIX EXAMPLES

## NOTES:

- If all the waste is generated on the farm (no imported waste) – Part 360 is not applicable
- If the facility (digester, etc.) is not located on a farm, the matrix may not work for Part 360
- There may be some scenarios that the matrix doesn't address
- If confused – seek clarification
- If there are multiple facilities involved (such as storage and digestion), there are regulatory criteria that apply to each facility
- Part 360 regulates facilities, so there can be multiple Part 360 facilities at one farm

## EXAMPLES:

1. CAFO Farm that land applies manure directly from the barn on their own land (no imported waste)

MATRIX: Box D. – Land Application on Farm

D.1. Manure, Process Washwater, other Farm Generated Waste Only

Regulation: CAFO – CNMP, NRCS 590  
360 – Exempt 1.7(b)(1)

2. CAFO Farm that composts their manure and uses the compost on the farm (no imported waste)

MATRIX: Boxes C and K. – Composting Facility / Compost Use on Farm



C.1. and K.

Regulation : Compost Facility : CAFO – CNMP, NRCS 316&317  
360 – Exempt 1.7(b)(4)  
Compost Use: CAFO – CNMP, NRCS 590  
360 – BUD 1.15(b)(2)

3. CAFO Farm that stores manure and nonrecognizable food processing waste (fpw) in a lagoon then land applies the mixture on their own land.

MATRIX: Boxes A and D. Storage Facility / Land Application on Farm

A.3. and D.3.

Regulation: Lagoon : CAFO – CNMP, NRCS 313  
360 – depends on the amount of fpw: Exempt (4.2(a)(5)) if not more than 50% fpw by volume annually. Permit if greater than 50% fpw by volume annually.

Land Application : CAFO – CNMP, NRCS 590  
360 – Exempt 4.2(a)(5)

4. CAFO Farm that has a digester for their manure and FOG from off-site. Land application of the combined liquids and solids from the digester on their farm.

MATRIX : Boxes B , G , and I.

B.8. and G and I

Regulation: Digester : CAFO – not allowed unless it can be shown that the material can be digested effectively

360 – Exempt 5.3(a)(5)(ii)

Land Application : CAFO - CNMP, NRCS 590

360 – Exempt 5.3(a)(5)(ii)

5. CAFO Farm that has a digester for their manure and nonrecognizable food processing waste. Use of solids as bedding, liquid used on farm.

MATRIX: Boxes B, H, I.

B.3 and H and I

Regulation : Digester : CAFO – CNMP, NRCS 313

360 - depends on the amount of fpw:

Exempt (5.3(a)(5)(ii)) if not more than 50% fpw by volume annually.

Solids as Bedding : CAFO – not applicable (land application of bedding – CNMP, NRCS 590 applies)

360 – Exempt 5.3(a)(5)(ii)

Liquid Land Applied : CAFO – CNMP, NRCS 590

360 – Exempt 5.3(a)(5)(ii)