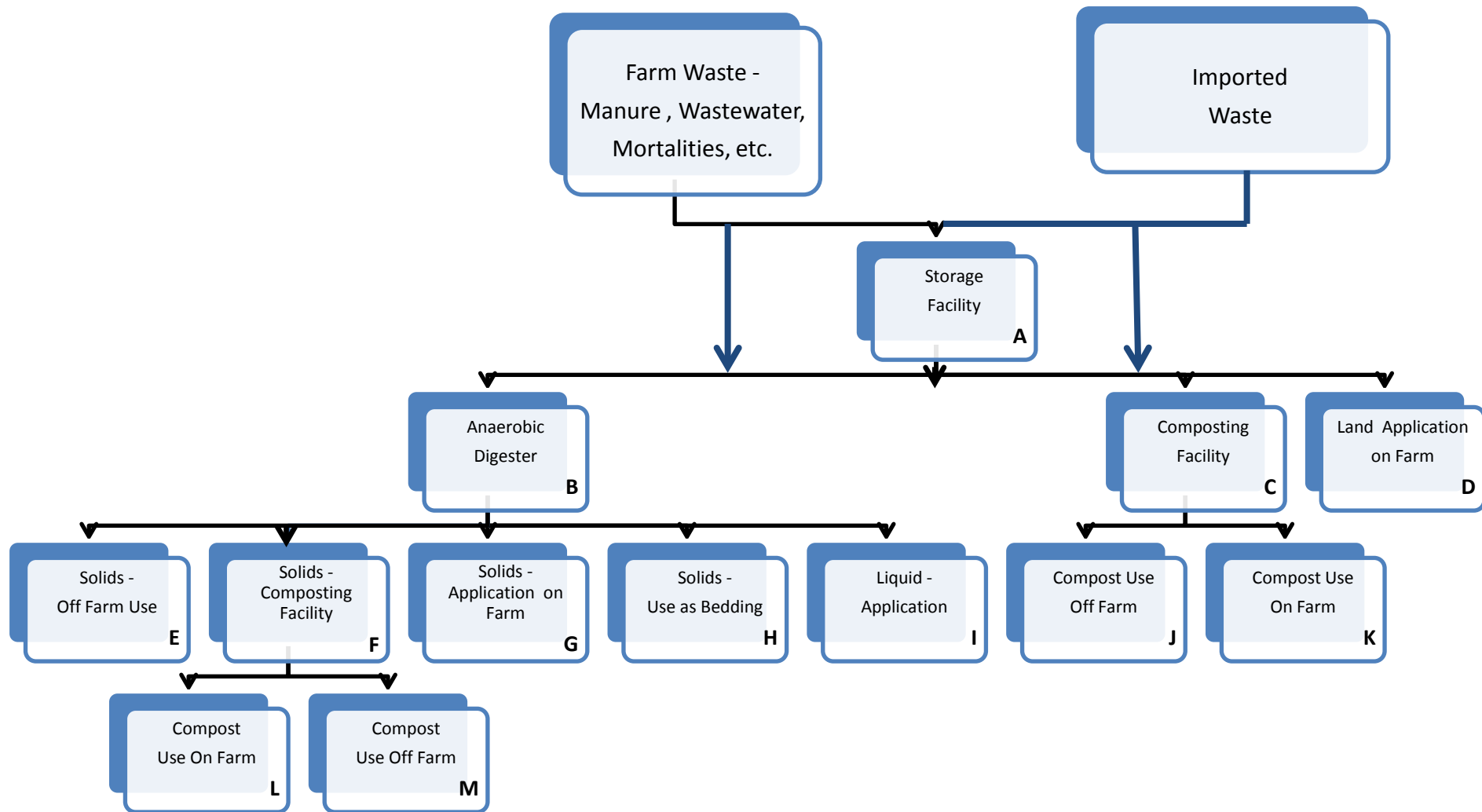


Management of Wastes On A Farm – Water & Solid Waste Regulatory Requirements

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



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 – Registration 4.2(b)(1)(vii) required up to 40% by volume, liner certification required if greater than 10% by volume annually, Permit if greater than 40% by volume annually
4. Septage without Farm Waste
CAFO – not applicable (no WQV)
360- Registration for 1 or 2 trucks [4.2(b)(3)], lime addition required – no volume limit, 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)] – no volume limit, lime addition. Permit if more than 2 trucks [4.9, 4.10]
6. Biosolids (Sewage Sludge) without Farm Waste
CAFO – not applicable (no WQV)
360 – Permit (4.9, 4.10)
7. Biosolids with Farm Waste
CAFO – CNMP, NRCS 313

- 360 – Permit (4.9, 4.10) – typically pathogen reduction prior to addition
8. Slaughter Waste/Mortalities/Fats/Oil/Grease Waste Generated Off Farm Mixed with Farm Waste
CAFO – not allowed for slaughter waste and mortalities
360 – 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 – 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 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 – Registration 4.2(b)(1)(vii) required up to 40% by volume, liner certification required if greater than 10% by volume, Permit if greater than 40% by volume
4. Septage without Farm Waste
CAFO – not applicable (no WQV)
360- Permit 1.9(b)
5. Septage with Farm Waste
CAFO- not allowed
360- Permit 1.9(b)
6. Biosolids without Farm Waste
CAFO – not applicable (no WQV)
360 – Permit 1.9(b)
7. Biosolids with Farm Waste
CAFO – CNMP, NRCS 313

360 – Permit 1.9(b)

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– Permit 1.9(b) – it must be demonstrated that the digester can handle the material
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 1.7(b)(4)
10. Other Industrial/Commercial Waste Generated Off Farm Mixed with Farm Waste
CAFO – CNMP, NRCS 313
360 – Permit 1.9(b) – must be able to be digested effectively

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 WQV)
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 – Permit (5.4, 5.6)

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 – 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 – Permit (4.6, 4.8) if a nutrient benefit can be demonstrated

E – OFF FARM USE OF DIGESTER SOLIDS

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 – Farm use – Exempt 4.2(b)(vii), Topsoil use – must demonstrate maturity
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 – Permit (4.6, 4.8) if nutrient benefit can be demonstrated or BUD 1.15(b)(2) if
maturity can be demonstrated
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

Same as C

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

I – LAND APPLICATION OF DIGESTER LIQUID ON THE FARM

CAFO – CNMP, NRCS 590

360 – not applicable if a CAFO farm, if an AFO same as D. except permit for slaughter/mortality and similar waste

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 – not applicable 1.15(b)(2)

3. CAFO Farm that stores manure and nonrecognizable food processing waste 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:
Registration (4.2(b)(1)(vii) if not more than 40% fpw by volume annually, liner certification if greater than 10%. Permit if greater than 40% fpw by volume annually.

Land Application : CAFO – CNMP, NRCS 590
360 – Registration 4.2(b)(1)

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 – Permit 1.9(b) – must be able to be digested effectively

Land Application : CAFO - CNMP, NRCS 590
360 – since it is both solids and liquid combined, the more stringent criteria apply – solids (G). If it can be demonstrated that the material is stable (unlikely with a liquid) it is covered under the BUD 1.15(b)(2), otherwise a permit is required under 4.6 and 4.8 (could be combined with digester permit).

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:
Registration (4.2(b)(1)(vii) if not more than 40% fpw by volume annually, liner certification if greater than 10%. Permit if greater than 40% fpw by volume annually

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

Liquid Land Applied : CAFO – CNMP, NRCS 590
360 – not applicable