Composting
Butcher Residual

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Disposal Situation

- Lack of Services
- Parts That are Not Accepted
- Cost
- Access
INDUSTRY COST

- $20 per barrel for disposal of residuals
- Cattle generally yield 40% in retail cut, the processing of a 1,200 pound steer would produce approximately 720 pounds of non-retail residuals.
- 1.5-2 barrels or $30-$40 in disposal fees after the brains, spinal cord and paunch manure are removed.
Economics

- With 400 butchers in New York State each processing an average of 600 beef cattle per year.
- Average cost to each operation is $18,000 to $24,000 a year in disposal fees.

CAN IT BE PASSED ON TO THE CONSUMER
Well-drained, at least 200 ft from water courses, sinkholes, seasonal seeps or other landscape features that indicate the area is hydrologically sensitive.
Compost Outdoors on Improved Surface
Three-Bin Covered System
Sizing
Concrete & Block
Compost Bed
Livestock Disease
Dump Trailer
Butcher Waste
Recipe for Small Animals

For young and small animals, layer mortalities with a minimum of 2 feet of co-composting material.
Butcher Residual
Time it takes

- Well stacked pile should heat up in 12-24 Hours.
  - 1-2 Weeks- Cooked Meat
  - 2-6 Weeks-Meat is Digested
  - Month 3- Clean Bones and Meat is Gone
  - Mature Compost 6-9 Months or Reuse as Base

- Frozen Animals or Residuals placed in piles- Feb 2004 piles registered 40 F

- Late May-reached temperatures of 130 F
Static Aerated Pile
How Silage Is Made
Static Pile Aeration
Challenges

- Securing Carbon Source
- Reuse of Carbon Source
- Size of Pile
- Regulation/Policy
- Poor coverage
- Odor
Composting Liquids
PROCESS

- Let set for 4-6 months.
- Turn after 3 Months to Speed Process.
- Reuse Bones as Part of Next Base.
- Remove Large Bones and Spread.
Endless Applications

- Road kill
- Fish and Seafood Residuals
- Recalled Meat
- Source Reduction for Prion Diseases
- Mass Casualty
- Butcher Waste
- Beached Marine Animals
- Farm Mortality, etc…
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