

Lesson 5: Sources and Types of Organic Materials

Learning Objectives:

- Know the types and sources of organics materials that can be handled at registration facilities
- Understand the typical physical, chemical, and biological characteristics of these materials



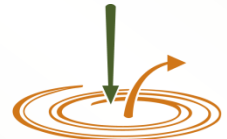
“Feedstocks” Are Organic Materials

- Feedstocks are the primary materials being composted at a site
- Types of feedstocks for registration facilities are:
 - Yard Trimmings (YT)
 - Food Waste (FW)
 - Vegetative Waste (VW) & Animal By-products (AB)
 - Manures (M)



Yard Trimmings

- Generator Sources:
 - Households
 - Landscapers & arborists
 - Storm debris
 - Land clearing debris companies
- Types:
 - Grass clippings
 - Leaves
 - Brush & Wood

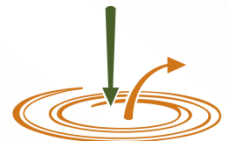


Yard Trimmings

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Key Characteristics:

Source	C:N Ratio %N	Moisture Content	Potential Contaminants
Grass Clippings	12-19:1 2% - 4%	High	Plastic bags Chemicals
Leaves	50-60:1 <1.0%	Low - Moderate	Plastic bags
Brush & Wood	500-700:1 0.1%	Low	Plastic bags Metals



Types of Food Waste

Types:

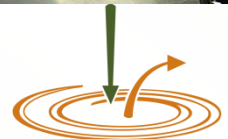
- **Vegetative Waste (VW):**
 - Fruits, vegetables, grains, breads, etc.
- **Animal By-products (AB):**
 - Meat, fat, dairy, eggs, etc.
- **Pre-consumer Vegetative Waste:**
 - Vegetative waste that has not come in contact with the end user, such as, grocery stores, packing and canning operations, out-of-date items, and restaurant prep



Sources of Food Waste

Sources:

- Grocery stores
(excluding AB from butcher shops)
- Restaurants
- Institutional kitchens
- Food processors & manufacturers
(excluding animal by-products from manufacturing or packaging plants, abattoirs, and butcher shops)

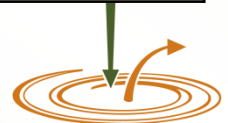


Food Waste

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Key Characteristics:

Source	C:N Ratio %N	Moisture Content	Potential Contaminants
Pre-consumer Vegetative Waste	10 – 30:1 2% – 5%	High	Plastics Non-degradable packaging
Post-consumer Vegetative Waste	10 – 30:1 2% – 5%	High	Plastics Service ware Pathogens
Animal By- products	5 – 10:1 5% - 10%	High	Plastics Non-degradable packaging Pathogens



Manure

■ Sources

- Farms & feedlots
- Horse stables
- Zoos

■ Types

- Cow
- Horse
- Poultry
- Other



Manure

(continued)

Key Characteristics:

Source	C:N Ratio %N	Moisture Content	Potential Contaminants
Cow	20:1 2%	High	Pathogens
Horse	25 – 30:1 2%	Moderate	Pathogens
Poultry	5 – 15:1 8%	Low – Moderate	Pathogens

