

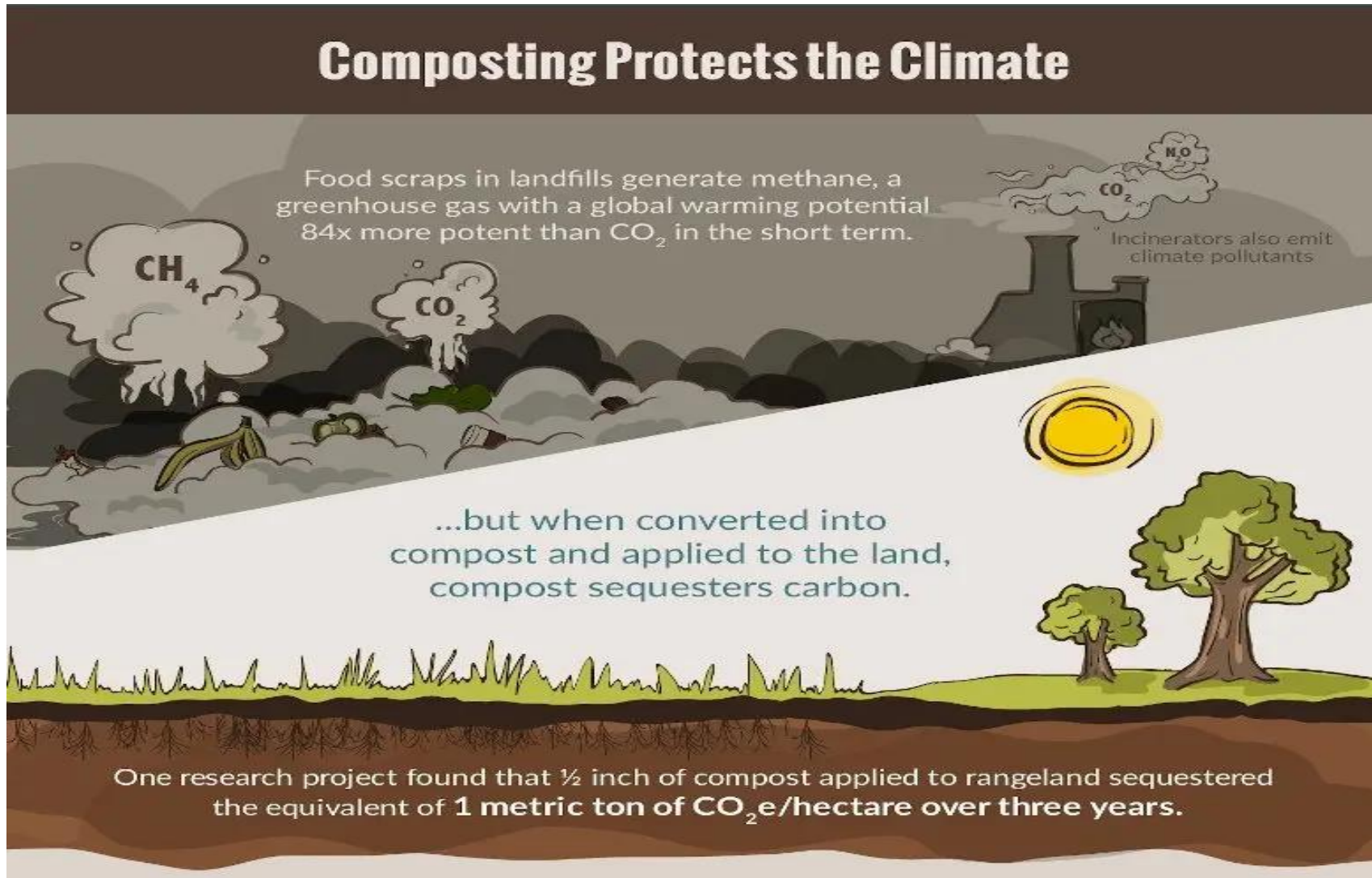
# Composting Protects the Climate

Food scraps in landfills generate methane, a greenhouse gas with a global warming potential 84x more potent than CO<sub>2</sub> in the short term.

Incinerators also emit climate pollutants

...but when converted into compost and applied to the land, compost sequesters carbon.

One research project found that ½ inch of compost applied to rangeland sequestered the equivalent of **1 metric ton of CO<sub>2</sub>e/hectare over three years.**



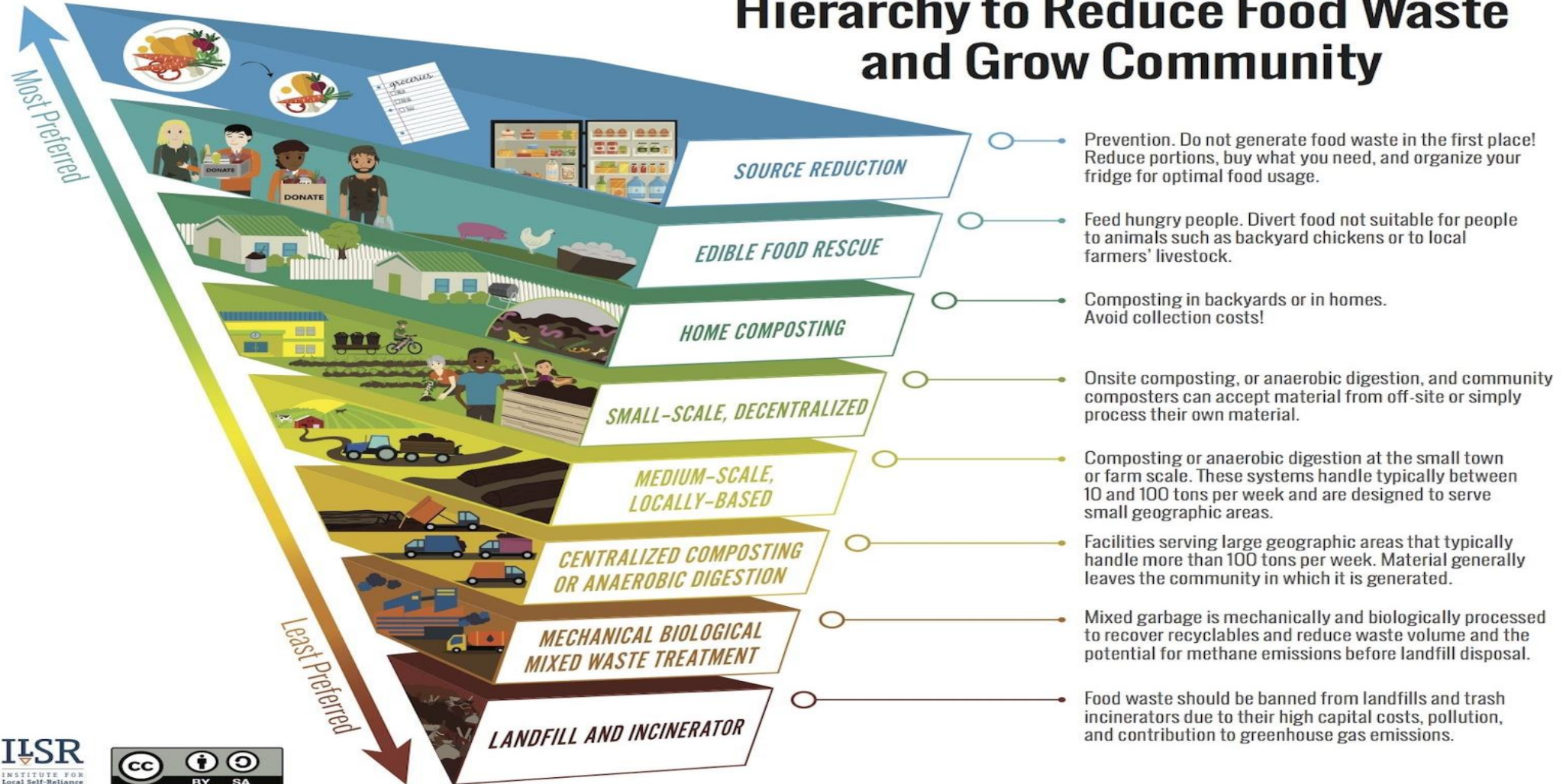
# COMPOSTING

our most local Circular Economy



# DEALING WITH FOOD WASTE....

## Hierarchy to Reduce Food Waste and Grow Community





# Backyard Composters

## Pallet Style

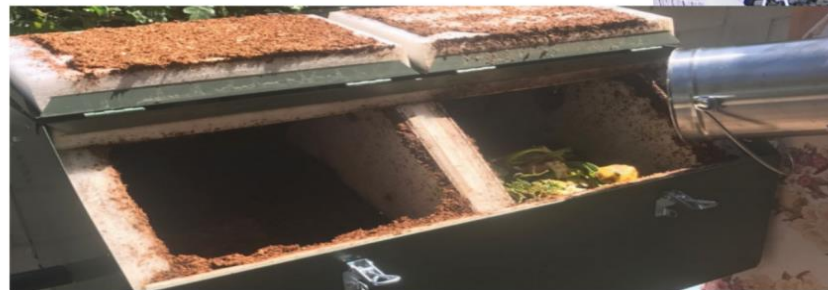


# Backyard Composters

**Tumbler ... Worm Bin ... Green Cone ... Earth Machine**

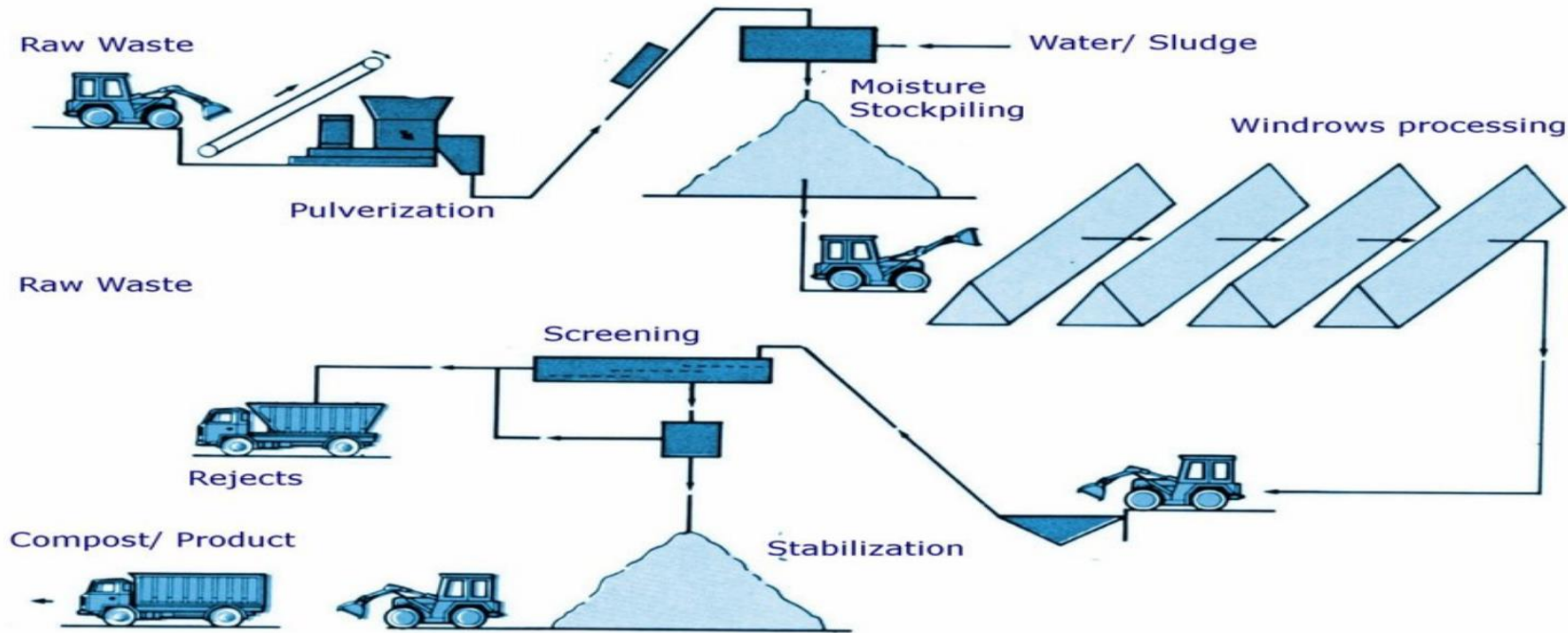


# Backyard Composting Insulated Tumbler





# Industrial Composting Windrows & Machinery



# Vermicomposting



Very little citrus  
No meats  
No dairy  
No sugars  
No gluten

Worm Poo  
Worm Poo Tea  
10x more rich  
Fun for kids  
Efficient





# BOKASHI COMPOSTING 'fading away'

**PROS...**  
pre ferment  
easy indoors  
meat & bones ok  
cheese & fats ok  
quick!

**NEGS...**  
only small items  
need to bury  
no mouldy food  
no rotten food



# Compost Piles Need 4 Things to Work Well.



***Air***



***Water***



***Green  
Material***



***Brown  
Material***

# layer that stuff like lasagne



# How to Compost: Browns & Greens

**Browns**

**Greens**



Fall leaves



Twigs, chipped tree branches



Sawdust



Paper



Cotton fabric



Corrugated cardboard

**C**  
**75%**  
Carbon

**N**  
**25%**  
Nitrogen



Grass clippings



Vegetable scraps



Fruit scraps



Eggshells



Trimmings plants



Animal manure (no pet)



## *Brown* carbon-rich

- dry leaves
- straw and hay
- shrub prunings
- pine needles/cones
- chopped twigs/branches
- wood ash
- newspaper
- shredded paper (avoid glossy paper)
- cardboard (shredded)
- corn cobs, stalks
- dryer lint (from natural fibers)
- sawdust (from untreated wood)
- eggshells
- brown paper bags (shredded)

## *Green* nitrogen-rich

- table scraps
- fruit scraps
- vegetable scraps
- fresh grass clippings
- lawn and garden weeds (if they have not gone to seed)
- flowers
- seaweed and kelp
- chicken manure
- coffee grounds/filters
- tea leaves (loose or in bags)
- corn cobs, stalks
- hedge clippings
- garden waste
- fresh leaves

# Browns & Greens

Sources for Compost  
Use only organic materials

## Brown Materials



- Aged Hay
- Oat Hay
- Cardboard
- Dry, Shredded Leaves
- Sawdust
- Chipped Wood
- Cardboard Egg Cartons
- Shredded Paper
- Paper Towels
- Straw
- Toilet Paper Rolls
- Wood Ash (not coal)
- Dried Grass

## Green Materials



- Vegetable Trimmings
- Algae
- Green Leaves
- Grass Clippings
- Kelp or Seaweed
- Green Shrub Prunings
- Tea Bags
- Alfalfa Meal/Hay
- Coffee Grounds/Filter
- Animal Manure (herbivores only)
- Houseplants
- Weeds (without seed heads)
- Old Flower Bouquets
- Human/Animal Hair
- Aquarium Water (freshwater only)

Note: Small materials decompose faster. For best results, shred any paper products into strips.

## What to Compost?

LAYER YOUR COMPOST PILE WITH BROWNS AND GREENS!

### Browns

SHREDDED PAPER

PAPER BAGS

DRIED LEAVES

YARD TRIMMINGS

### Greens

GRASS CLIPPINGS

EGG SHELLS

TEA BAGS & COFFEE GROUNDS

VEGGIE SCRAPS

# HOW TO COMPOST

## Brown materials include:

- Leaves
- Pine needles
- Twigs, branches
- Straw, hay
- Paper
- Dryer lint
- Pinecones
- Napkins
- Used paper coffee filters
- Wood chips
- Cardboard

## Green materials include:

- Fruit & vegetable peels
- Citrus rinds
- Coffee grounds
- Tea bags
- Grass clippings
- Eggshells
- Weeds
- Meat, bones, seafood
- Stale bread
- Cooked plain rice, pasta
- Dairy products



# YES

- ✓ bread, pasta, rice, grains
- ✓ coffee grounds & filters
- ✓ compostable serveware
- ✓ dairy products
- ✓ eggshells, seafood shells, bones
- ✓ fats, oils, greases
- ✓ fruit & veggie scraps
- ✓ meat & fish scraps
- ✓ paper napkins & wooden stirrers
- ✓ tea bags

# NO

- ✗ baby & hand wipes
- ✗ cat litter, pet waste
- ✗ diapers
- ✗ glass
- ✗ medicines
- ✗ polystyrene/styrofoam
- ✗ rubber bands
- ✗ yard waste
- ✗ plastic, with exceptions\*

\*Food waste *may* be bagged in a clear or white plastic bag.

# NO

## Compost Right

Place all "COMPOST YES" items into your composting bin. Follow the chart below to compost the right way! Drop off compost at the Farmers Market or behind City Hall at no charge. Residents may also use their own composting bins.

### COMPOST YES

Nuts

Breads, Cereals, Rice and Pasta

Salad

Vegetables

Egg Shells

Fruit

Flowers

Tea Bags and Loose Tea

Coffee Grounds

Uncoated Paper Plates

Uncoated Paper Bags

Paper Towels and Napkins (Kitchen Only)

Compostable Bags

Compostable Kitchenware

### COMPOST NO

Plastic Bags or Wrappers

Foil

Plastic Coated Cardboard

Oil or Crisco

Styrofoam

## COMPOST



INCLUDE THE FOOD, PLANTS AND PAPER TOO!

**YES!** Plant based foods (raw or cooked scraps) and plant trimmings



**YES!** Compostable paper products (paper only – no plastic)



**NO!**



## SOIL FOOD!

We compost the following:

### YES!

- ALL FOOD
- Fruits
- Vegetables
- Meat
- Dairy
- Bones
- Grains
- Eggs and shells
- Coffee grounds
- SOME PAPER**
- Coffee filters
- Food-soiled paper
- Uncoated paper plates
- Tea bags
- Paper towels

### NO!

- NON-FOOD
- Plastic
- Metal
- Glass
- Styrofoam
- Liquids
- Coated paper
- Chemicals
- Frozen food boxes
- Produce stickers
- Staples in tea bags
- Waxed cardboard
- Grease



845-787-DIRT (3478)  
communitycompostco.com

# COMPOSTING BASICS

*What you can compost and what you should pitch*





# Compost Piles Need 4 Things to Work Well.



***Air***



***Water***



***Green  
Material***



***Brown  
Material***



**brown**

leaves, stew,  
woody materials...

+



**green**

grass, food scraps,  
manures...

=



**compost**



**water**

**COMPOST**

**HAPPENS**

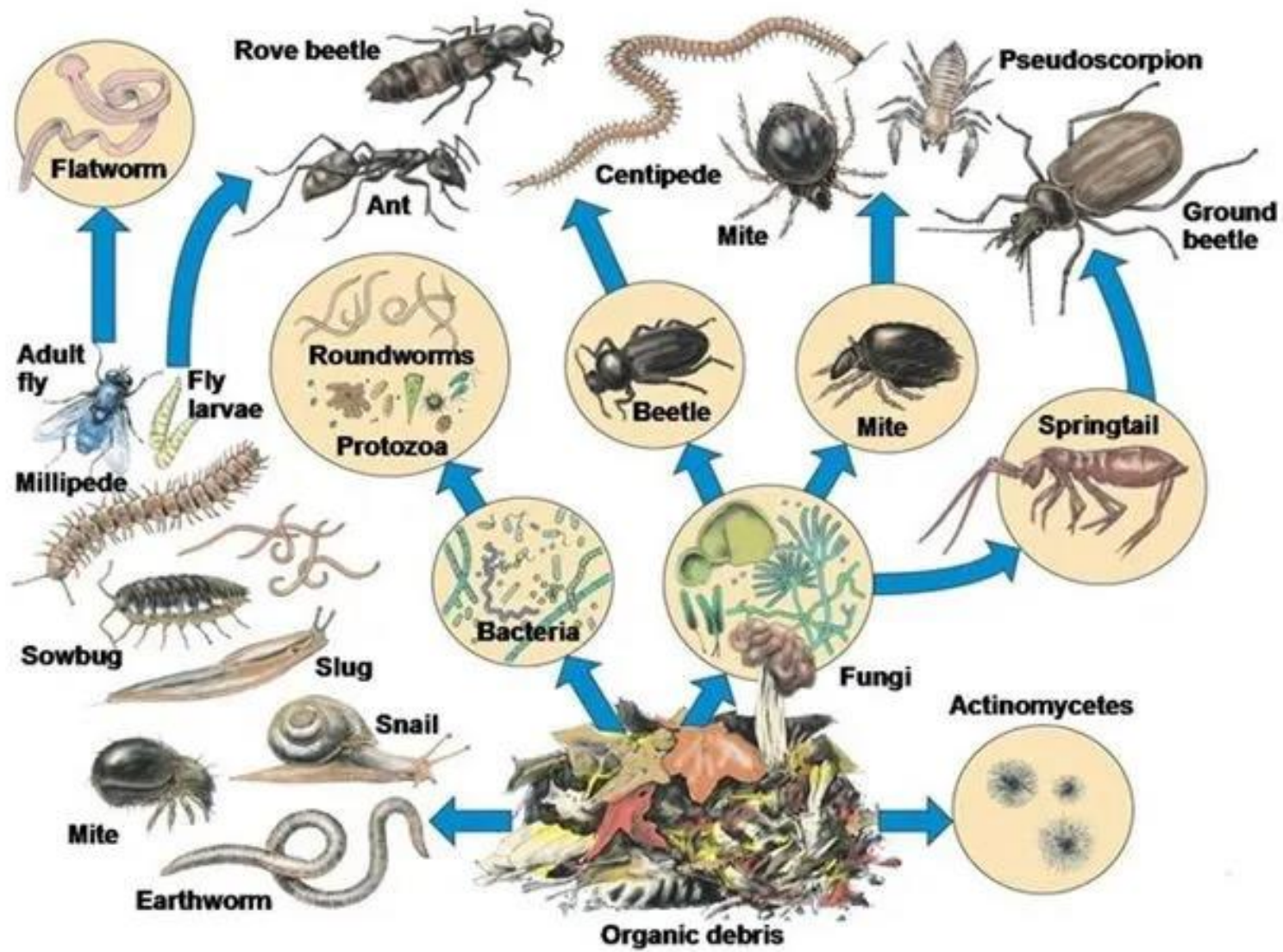
**air**

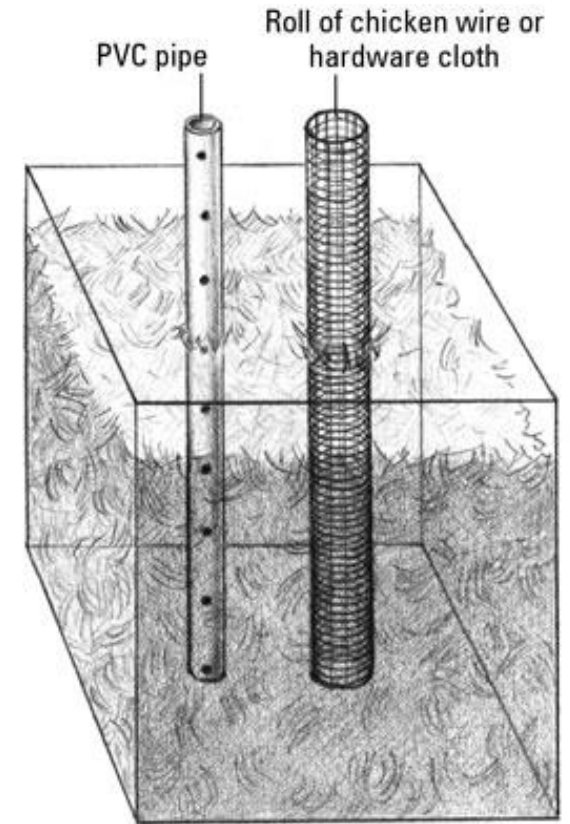
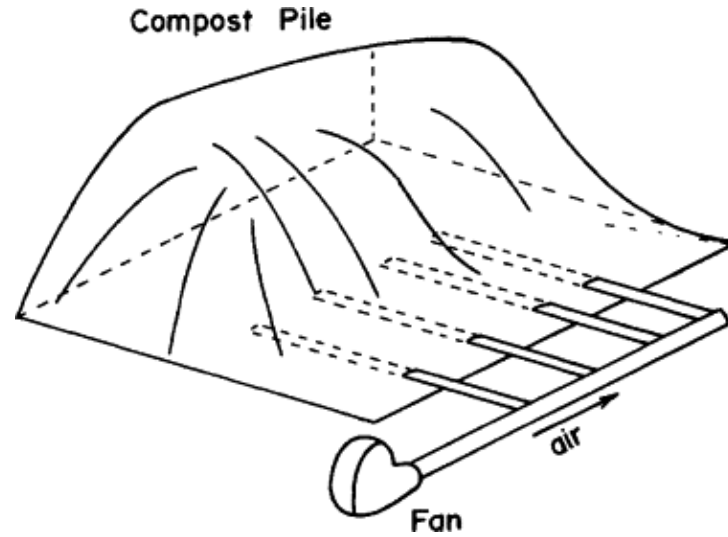


**macro-organisms**  
earthworms, Insects, etc.



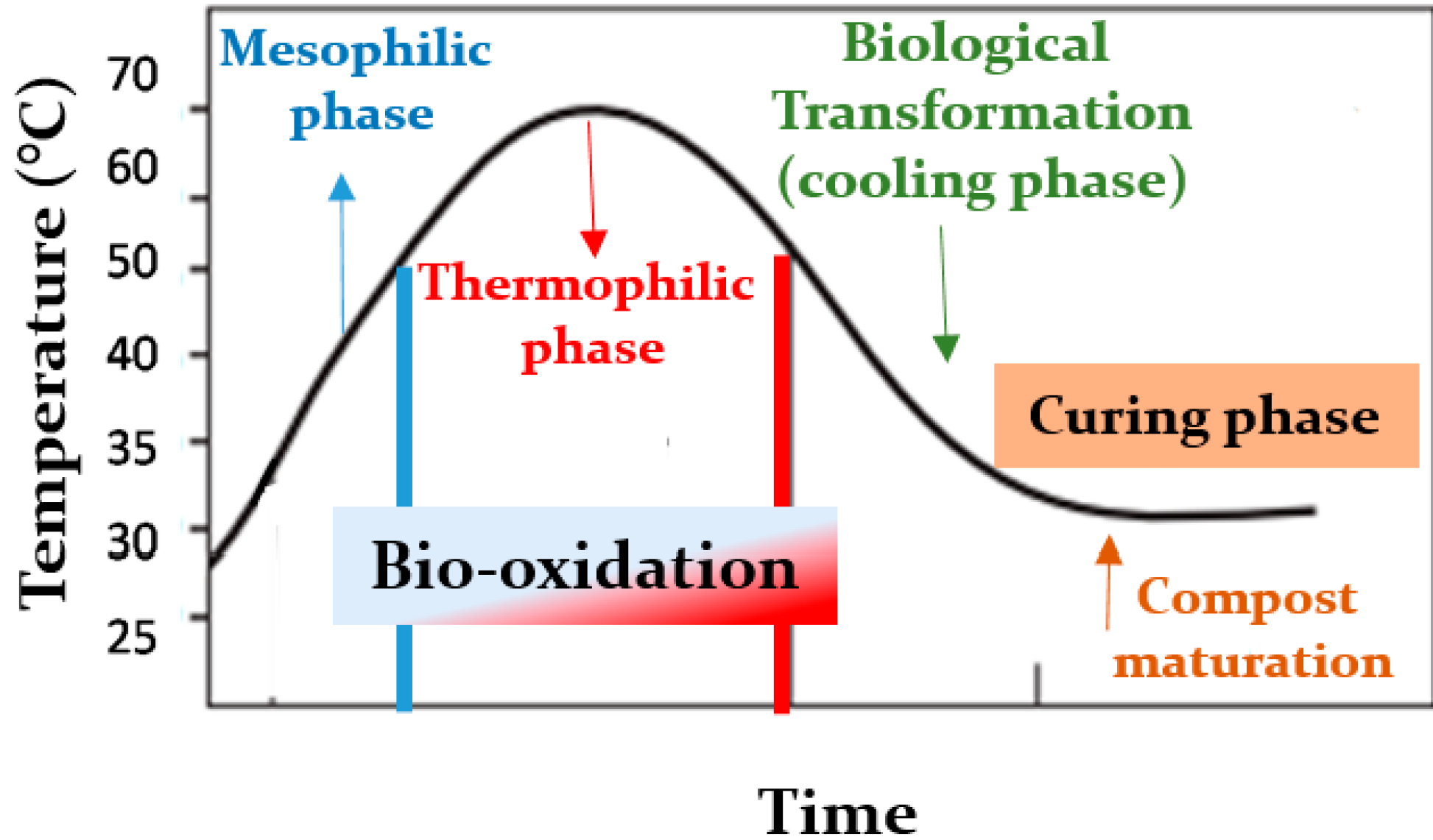
**micro-organisms**  
Bacteria, fungi, microbes





**AIR → aerating your composting pile**





# BENEFITS OF COMPOSTING

## RETAINS MORE WATER



Compost helps strengthen soil's ability to retain water. This causes plants to not need to be watered as frequently.

## REDUCES SOIL EROSION



Erosion occurs when top soil is blown or washed away causing infertile topsoil. Compost can restore topsoil and build stable soil structure.

## HELPS CARBON SEQUESTRATION



Carbon is stored in the top 3 feet of soil and is released into the atmosphere when soil structure is poor. Applied compost helps improve soil structure to combat against this.

## REDUCES LANDFILL WASTE



Composting helps divert materials from going to the landfills, minimizing the amount of greenhouse gas emissions released into the atmosphere and lengthening the capacity of landfills.

## REDUCES NEED FOR SYNTHETIC FERTILIZERS



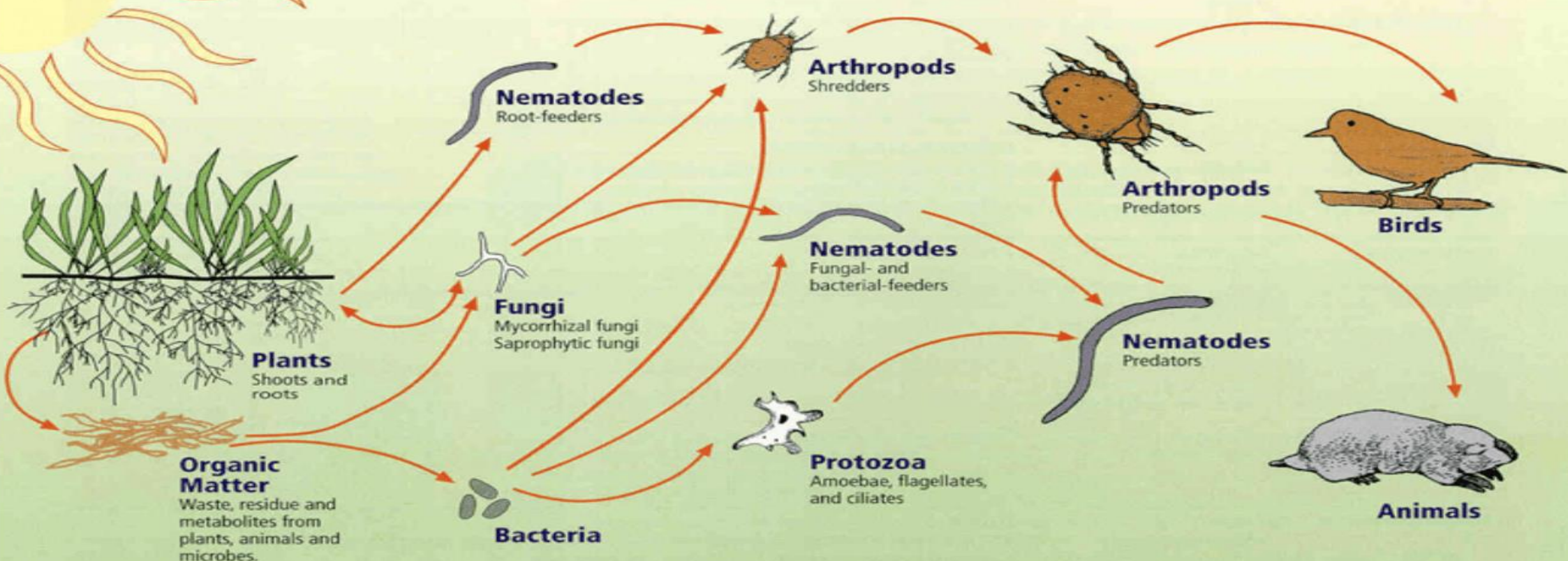
Compost sufficiently supplies soil with nutrients like phosphorus and nitrogen. This reduces the need for additional fertilizer because compost naturally provides the necessary nutrients for the soil.

# 10 REASONS TO COMPOST

- 1) Improves plant growth
- 2) Reduces soil erosion
- 3) Allows soil to retain more water
- 4) Enhances soil fertility
- 5) Reduces waste landfilled & burned
- 6) Benefits soil structure
- 7) Allows soil to retain more nutrients
- 8) Stores carbon in soil to protect the climate
- 9) Builds community resilience & power
- 10) Is something everyone can do!



# The Soil Food Web



**First trophic level:**  
Photosynthesizers

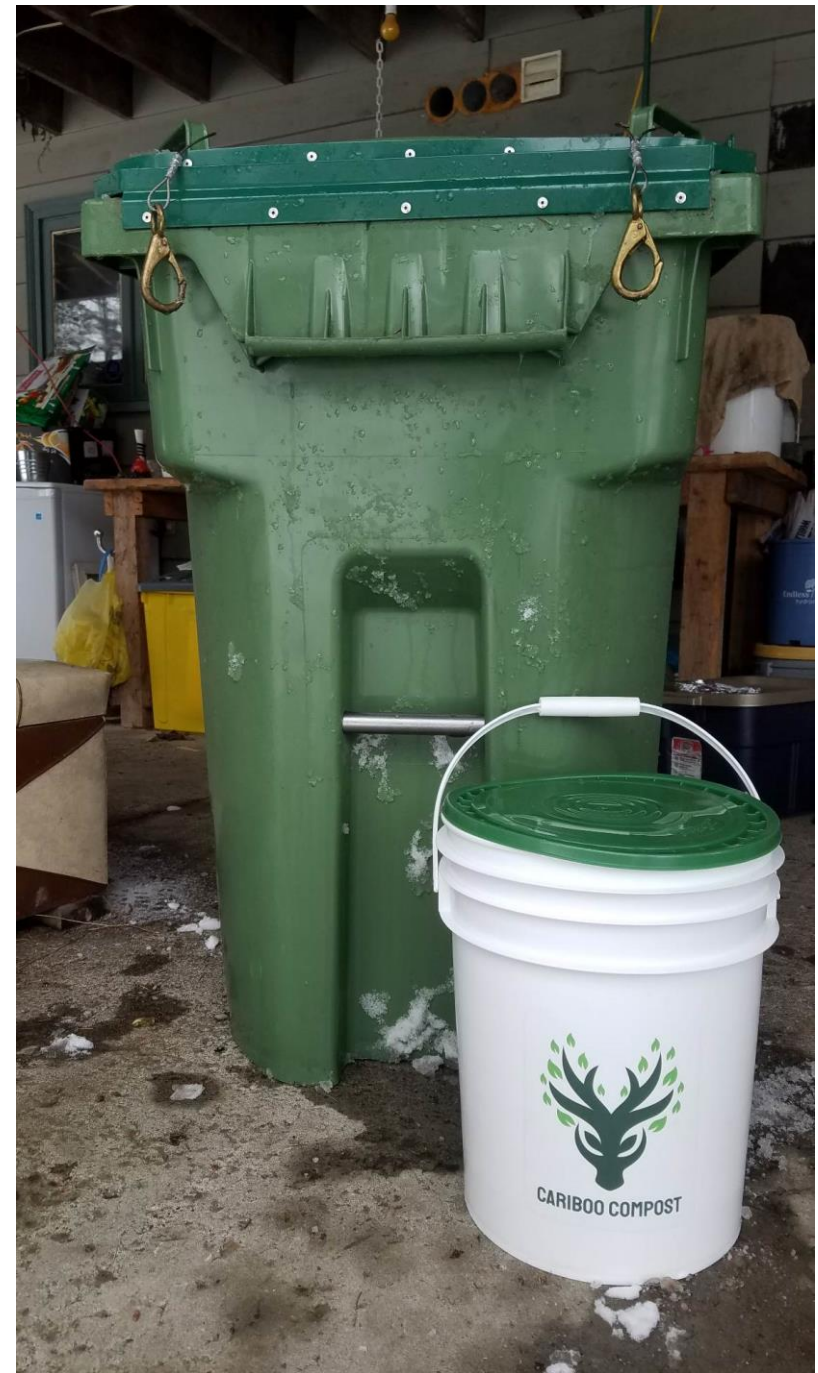
**Second trophic level:**  
Decomposers  
Mutualists  
Pathogens, parasites  
Root-feeders

**Third trophic level:**  
Shredders  
Predators  
Grazers

**Fourth trophic level:**  
Higher level predators

**Fifth and higher trophic levels:**  
Higher level predators





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