



MINNESOTA WATER
LET'S KEEP IT CLEAN

How to compost your food scraps and yard waste

Home composting is an easy way to turn much of the waste from your yard and kitchen into a rich material that you can use to improve your soil.

Composting: Break it down

1.



Make a compost bin
— or buy one.

2.

Throw in your
kitchen scraps
and yard waste.



3.



Mix it up with a
shovel or pitchfork
once in a while.



Composting Biology 101

Like a simple recipe, your compost pile needs the right mix of ingredients in order to produce the best results. The key materials are nitrogen-rich “greens,” carbon-rich “browns,” water, and air.



Greens provide nitrogen, and act as a source of protein for the microbes. Examples of greens are green leaves, coffee grounds, tea bags, plant trimmings, raw fruit and vegetable scraps, and grass clippings.



Browns are a source of carbon, and provide energy for the microbes. Examples of browns are straw, sawdust, twigs, dried grasses, brown leaves, and shredded newspaper.

Like all living things, the microbes in your compost pile need water and air to live. Adding water allows the microbes in your compost pile to grow and travel around in the pile to decompose materials. Turning your pile each week with a spade or pitchfork will provide air to aid decomposition and control odors.

See next page for more details

1. Begin with the bin

Location, location, location.

Pick a spot in your yard that's at least partially shaded and at least 2 feet from a structure like your house or a fence.

Containers.

You can compost in a simple pile, but using a container or bin helps your compost pile retain heat and moisture and look neat. To get started, it's easy to go with a single-bin system. As materials are added and mixed together, the finished compost settles to the bottom of the bin.

Materials. Bins can be built from scrap lumber, old pallets, snow fence, chicken wire, or concrete blocks. Typically, several types of composting bins are sold at hardware or lawn and garden stores.

Size. A pile that is 1 cubic yard (3 feet high, 3 feet wide, 3 feet long) is big enough to retain heat and moisture, but small enough to be easily turned. Home compost piles shouldn't be larger than 5' x 5' x 5'.



Chicken wire (or hardware cloth) and old wooden pallets make the basis for two easy-to-build compost bins.



2. Adding the first materials

Lay a base. Start with a layer of browns, laying down 4 to 6 inches of leaves, twigs or other coarse carbons on the bottom of the pile for good air circulation.

Alternate greens and browns. Add layers of nitrogen and carbon materials. Make layers about 4 to 6 inches thick. Once you turn the pile the first time, these materials will get mixed together and compost more efficiently.

Water as you go. Your compost pile should be moist, kind of like a wrung-out sponge. Squeeze a handful of partially compost material; if small beads of water appear between your fingers, you have enough water.

Your pile will get water from rain, as well as the moisture in the greens. If the pile gets too wet, you can turn it more frequently to dry it, or add more dry brown materials to soak up the excess moisture.

3. Turn it, turn it, turn it

Once you build your pile, the *real* composters get to work — bacteria, fungi, and insects help break down the materials in your compost bin. As the organic materials decompose, your pile will get hot on the inside and you might see some steam. In about a week, your compost will be ready for turning.

Use a pitchfork or shovel to mix up the layers of green and brown and move materials toward the center of the pile. You can empty your bin and re-layer, or just work materials around inside the bin. Break up clumps of material and wet the pile as needed.

Repeat until it's complete.

The composting process can be pretty quick in the summer months. In the winter the compost process may stop. However, it will restart in the spring when it warms up. Look in your pile for finished compost — material that is dark and crumbly, fresh-smelling, and no longer looks like what you originally put into your bin.



Using finished compost

- Mix in compost to improve soil. In sandy soils, compost acts like a sponge, retaining water and nutrients where it can be reached by plant roots. In clay soils, compost makes the ground more porous, creating tiny holes and passageways that help soil drain more quickly.
- Spread compost on your lawn to help fill in low spots.
- Use as a mulch for landscaping and garden plants. Mulches cover the soil around plants, protecting the soil from erosion and the drying effects of wind and sun.
- Mix compost into pots for potted plants.



Troubleshooting

There's an odor of ammonia.

Add "brown" to your compost pile and mix it up with a shovel.

The pile is attracting scavengers like raccoons and mice.

Don't food wastes with oils, meats or dairy. The odors from these can attract pests. Keep other food wastes covered and in the middle of the pile.