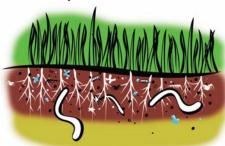
Is your soil healthy?

Healthy soil has high organic content

What is organic content?

Soil with high organic content is full of decomposing plant material and beneficial organisms that together provide nutrients to plants and enhance the soil's ability to absorb and retain water.



HIGH ORGANIC SOIL:

Sample your soil

sandy soil.

condition.

- Soaks up excess rainwater.
- Slows runoff and releases water to plants between rainfalls.
- Filters air and water that percolate through.
- Supports healthy plant roots.
- Traps pollutants like oil, metals and pesticides.

Dig up a small sample of soil from

under your lawn or in your garden,

and roll it between your palms.

• If the soil forms a ribbon up to 2

inches long, you have clay soil.

• If the soil falls apart easily and does

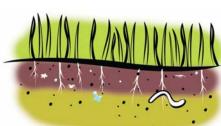
not make a ribbon, then you have

• If the soil forms a ribbon about

1 inch long, you have loamy soil,

which is considered the ideal soil.

How healthy is the top soil in your yard?



LOW ORGANIC SOIL:

Examine plant roots

4-6 inches.

or a rainfall

Build healthy

- Water runs off causing erosion into streams and rivers.
- If chemicals and pesticides are present, they also feed into streams and rivers.
- Plant roots remain shallow as nothing draws them into deeper, richer soil.
- Plants are more susceptible to stress.

Take a look at grass roots. Dig down

with a shovel or use a soil corer. A

healthy lawn will have roots down

If roots are growing along the surface,

Observe the water after irrigation

If water puddles on the ground and

doesn't soak in, the soil probably lacks

organic content. If your soil dries out quickly, it may lack organic content.

your soil is probably compacted.

Observe plants and trees



Did you know?

4 billion organisms live in a teaspoon of healthy soil.

Imagine what's in your yard! These beneficial organisms, such as bacteria and fungi, live around each plant root. They convert decaying materials into energy and essential nutrients for plants. Earthworms and millipedes tunnel their way through soil, making space for air and water.



These organisms do their part by:

- Supplying nutrients and water for plant roots
- Breaking down leaves and dead plant material
- Helping capture and break down some pollutants
- Becoming food for other beneficial organisms

A healthy, living soil is the foundation for a healthy lawn, garden and environment.

MORE INFO ON BACK



Natural Resources and Parks Solid Waste Division



Department of















Is your soil healthy?



How to restore your soil to good health

Lawns

- · Leave grass clippings on the lawn to add moisture and nutrients.
- Reduce fertilizer and pesticide use to encourage deeper root growth.
- Introduce air into the soil by aerating your lawn once or twice a year.
- Sprinkle your lawn with 1/8-1/4 inch of compost each year, spring and fall.
- Consider replanting your lawn altogether and amending the soil underneath.
- A lawn retrofit can pay for itself in 5-7 years in water savings alone.

Gardens

- Add compost to your garden, spring and fall.
- Mix compost to a 6-12 inch depth, or sprinkle it on top and let the worms do the work. For best results, rototill the compost directly into the soil.
- Use organic fertilizer, but don't over fertilize.
- Apply mulch over the soil's surface to retain water and prevent weeds.



Most lawn & garden soil is unhealthy

To begin with, Puget Sound soil is glacial till, gravelly, and not very rich with organic content. When homes are built, generally, two to three feet of topsoil is stripped off during construction. Soil usually is not amended with compost before landscaping or after lawns and gardens are established and new landscaping then becomes dependent on pesticides and fertilizers. Use of lawn and garden chemicals damages soil organisms and prevents deep root growth.

The consequences are:

- More time and money are spent on chemicals, water and fertilizers.
- Plants and grass fail to thrive.
- Water tends to run off rather than
- Water quality and salmon habitat are negatively impacted.

Adding compost to the soil will improve your lawn and garden.

Guide to compost quantities

Measure your lawn or planting area and consult with your nursery professional to determine the quantity. Sandy soil may require more compost than clay soil.

One cubic yard of compost covers:

100 square feet	3 inches deep
200 square feet	2 inches deep
300 square feet	1 inch deep.

A nation that destroys its soils destroys itself.

-Franklin D. Roosevelt

For additional information on soil building and composting, visit the King County soils web site at www.kingcounty.gov/soils or call the Garden hotline at 206-633-0224, or email help@gardenhotline.org

> Alternative Formats On Request 206-296-4466 • TTY Relay: 711 1-800-325-6165 ext. 6-4466