Stormwater Services Department
Water Resources Department

For more information, contact our Customer CARE Center at 704-920-5555 or visit our website: www.ci.concord.nc.us

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Why GreenScape?

Remember the Four Rs:
- Reduce
- Reuse
- Recycle
- Rebuy
Our yards are our outdoor homes: fun, beautiful, great spaces for relaxing. By taking care of our lawns and gardens properly, we can save money, time and help the environment. GreenScaping encompasses a set of landscaping practices that can improve the health and appearance of your lawn and garden while protecting and preserving natural resources.

**By simply changing your landscape to a GreenScape,** you can save time and money and protect the environment.

- **Save time** by landscaping with plants that require less care
- **Save money** by eliminating unnecessary water and chemical use

**Protect the environment by:**
- Conserving water supplies.
- Using chemicals properly and only when necessary to keep waterways and drinking water clean.
- Reducing yard waste by recycling yard trimmings into free fertilizer.

**Put nature to work in your yard**
In nature, soil recycles dead plants into nutrients for new plant growth. Plants are adapted to the water, sun and soil available in their site. Maintaining a wide variety of healthy plants, soil organisms, beneficial insects and animals can keep most pests and diseases in check.

By working with nature, you can have a great-looking yard that’s easier to care for, cheaper to maintain and healthier for families, pets, wildlife and the environment.

**How?**

Start with these five easy steps:

1. **Build and maintain healthy soil**
2. **Plant right for your site**
3. **Practice smart watering**
4. **Adopt a holistic approach to pest management**
5. **Practice natural lawn care**

By following these steps, you can save time, money and make your piece of the planet a healthier place to live.

Check with local authorities to find out more about specific requirements concerning watering, using pesticides and fertilizers, composting and other practices recommended in this brochure.
1 Build and maintain healthy soil with compost and mulch

A teaspoonful of healthy soil contains about 4 billion organisms! This community of beneficial soil creatures keeps our landscapes healthy by:

- Creating a loose soil structure that allows air, water and plant root growth into the soil.
- Recycling nutrients and making them available to plants.
- Storing water until plants need it.
- Protecting plants from some pests and diseases.

Know what your soil needs.

A soil test will tell you how much nitrogen, phosphorus, potassium and lime your soil needs to grow healthy plants. Depending on the condition of the soil, you may not even need to apply these nutrients! Contact your local Cooperative Extension office or garden supply center for a soil test kit.

Feed your soil with compost.

Dig or rototill one to three inches of compost into 6 to 12 inches of top soil when you’re making new beds or planting lawns. Top dress existing lawns with a quarter- to half-inch of compost every spring or fall. Compost helps sandy soils hold nutrients and water, loosens clay soils and feeds the beneficial soil life so it can feed and protect your plants.

Make compost at home, or buy it in bags or bulk.

Yard and food waste are a gardener’s gold! Leaves, chopped stalks, flowers and grass all make great compost in a pile or bin. Vegetable scraps and coffee grounds can also be added to your bin, but do not use meat, dairy or oils because they can attract pests. You should turn your compost every few weeks with a pitchfork to distribute air and moisture. Make sure to sprinkle water on your pile in dry weather. In most climates, you will have finished compost in three to six months, when the waste becomes a dark, crumbly material that is uniform in texture.

Honey, I shrunk the lawn!

Grass grows best on level, well-drained soil in full sun or part shade. Consider alternatives to grass on steep slopes, shady areas or near streams and lakes. In these areas, it takes a lot of extra work (and sometimes chemicals) to maintain grass. Look for other plants, such as ground covers, better suited to soggy soil, slopes or heavy shade. Leave or plant a “buffer” of dense native vegetation along streams and lakes to filter and slow run-off, shade and cool the water, provide homes for wildlife and prevent bank erosion.

Other lawn chemicals. Use fertilizers sparingly. The more you fertilize, the faster the grass grows and the more frequently you have to mow!

Water deeply, but infrequently, to moisten the whole root zone.

Let the soil dry between waterings to prevent lawn disease and save water. Lawns need only about one inch of water a week in summer, including rain, to stay green. Or you can let areas of lawn that don’t get heavy wear go brown and dormant — just water once a month and they’ll bounce back in the fall.

Overseeding can improve the quality of your lawn.

- Core aerate in the fall to improve root development and water penetration.
- Follow by overseeding thin areas of lawn with grass seed blends recommended for your area.
- Then “top-dress” by raking in ¼ to ½ inch of compost to cover the seed and improve the soil.
- Repeat these steps annually as needed to improve poor lawns.

Lawn care practices are often targeted by watershed managers as significant contributors of pesticides and nutrients to run-off. In fact, surveys show higher concentrations of some pesticides, particularly insecticides, in urban streams than in agricultural streams.
Practice Natural Lawn Care

It’s easy to save time and money by putting these steps to work for a beautiful yard.

Mow higher, mow regularly and leave the clippings.

- Mow more frequently when grass is actively growing so that you are only cutting no more than one-third of the height of the grass. This practice minimizes the amount of grass clippings.
- The desired height of grass varies depending on climate. Contact your local Cooperative Extension office for local recommendations.
- ‘Grasscycling,’ or leaving the clippings on the lawn, doesn’t cause thatch build up — but it does make lawns healthier. Soil organisms recycle the clippings into free fertilizer, and you save all the work of bagging.
- Modern mulching lawn mowers make ‘grasscycling’ even easier, and homeowners can reduce their mowing time by 30 to 40 percent by not having to bag clippings.

Use “natural organic” or “slow-release” fertilizers.

Choose ‘natural organic’ or ‘slow-release’ fertilizers to reduce nutrient run-off and leaching. To avoid run-off, keep fertilizers on the soil and away from sidewalks, streets and driveways. Fertilizers that run off are a waste of money and contribute to pollution of streams and lakes. Read and follow product labels carefully before using fertilizer and

Mulch it!

Mulch is a layer of organic material like leaves, aged wood chips, compost or grass clippings that you spread in spring or fall around your plants. Never exceed more than three inches of mulch in your landscaping beds, and keep mulch about an inch away from stems and tree trunks. Mulch stabilizes soil temperature, prevents weeds, feeds the soil for healthier plants and helps to conserve water. And it recycles itself!

Mulch improves:

- Flower beds and vegetable gardens Use one to three inches of shredded leaves, compost or grass clippings that have not been treated with pesticides.
- Trees, shrubs and woody perennials Use two to three inches of woody mulches, like shredded tree bark or aged wood chips. Shredded fall leaves also work well. Be sure to keep mulches an inch away from plant stems or trunks to prevent rot.
- Lawns Mulch your lawn? Yes, you can ‘grasscycle’ (leave the clippings on the lawn when mowing). The clippings quickly decompose and release valuable nutrients back into the soil to feed the grass, reducing the need for nitrogen by 25 to 50 percent.

Need fertilizer? Go slow!

Most trees and shrubs get all the nutrients they need from the soil. But annual plants, vegetable gardens and lawns sometimes need additional nutrients from a fertilizer. When shopping for fertilizer, look for a product that contains ‘natural organic’ or ‘slow-release’ ingredients. Unlike ‘quick-release’ fertilizers, ‘natural organic’ or ‘slow-release’ fertilizers feed your plants slowly and evenly. The result? Healthier plants with strong root systems and no excessive ‘top growth’ — saving you time and money.

How much is one inch of water a week?

Scatter clean, empty tuna cans or other straight-sided containers on your lawn; turn on the sprinkler and check the time. When most cans have one inch of water in them, turn off the sprinkler and check how long it ran. Now you know how long to run your sprinkler each week in summer if you want to keep your lawn green.

Improper use of fertilizers can damage beneficial soil life essential for healthy soils and plants.
Plant right for your site

Get to know your yard and decide how you want to use it.
Where is it sunny or shady? What is the pH of your soil? What type of soil (e.g., sandy, clay) do you have in your yard? Look around — are there plants with problems? Where do you want play areas, vegetables, color, views or privacy? How much lawn do you need or want to maintain?

Choose the right plant for the right place.
Select plants that grow well in your area of the country and fit the amount of sun, type of soil and water available in your yard. In general, it makes sense to use low-water plants to save yourself the time and expense of watering.

need time to work. Monitor your landscape to spot signs of pests but don’t spray at the first sign of damage — nature may control it for you or plants may outgrow the damage.

If a pest or weed problem develops, use an integrated approach to solve the problem.
Physical controls like traps, barriers, fabric row covers or plants that repel pests can work for some pests.

- Use a little ‘elbow grease.’
  Long-handled weed pullers pop dandelions and other weeds out easily.
- Mulching, not to exceed three inches, reduces weeds in garden beds.
- Use ‘crop rotation’ techniques by changing the planting location for annuals to minimize their susceptibility to pests and disease.

Replace problem plants with pest-resistant ones for a healthier, care-free yard.
- If a plant, even a tree, has insect, pest or disease problems every year, consider replacing it with a more tolerant or resistant variety or another type of plant that doesn’t have these problems.

Use pesticides responsibly.
- Carefully read and follow pesticide product label instructions. Avoid overuse of pesticides. When you have a small problem area, treat just that area, not the entire yard.

Most bugs are good bugs.
- Only about 5–15 percent of the bugs in your yard are pests. “Good bugs,” like the ladybug (left) and the praying mantis (right), help control pests.
4 Adopt a holistic approach to Pest Management

Pesticides (including weed and bug killers) can be effective tools for controlling pests such as insects, weeds and diseases. Be sure you need a pesticide before you use it. On-going pest problems are often a sign that your lawn or garden is not getting what it needs to stay healthy. You need to correct the underlying problem to reduce the chance of pests reappearing. Remember, a holistic — or integrated pest management — approach is the most effective way to manage pests. Here’s how:

**Start with prevention.**

- Maintain healthy soil with compost and mulch.
- Select pest-resistant plants and put them in the sun/shade and soil conditions they like.
- Use a variety of plants so, if pests attack, your whole garden isn’t at risk.
- Mow higher. Most grasses should be mowed to a height of two to three inches. Taller grass has more leaf surface and deeper roots and eventually chokes out many weeds.
- Clean out diseased plants so disease doesn’t spread.
- Pull weeds before they go to seed and spread.
- Remove dead plants to reduce hiding places for insect pests.

**Identify the problem before you spray, squash or stomp.**

Whether it’s a bug, disease or weed, you need to identify it to know how to effectively manage it. The cause of ailing plants or grass may not be pests or disease but incorrect mowing or pruning, improper watering or other easily corrected practices. That scary bug could actually be a beneficial “good bug” that eats problem pests.

**Accept a little damage — give nature time to work.**

Accept a few pests, as long as they are not harmful to the long-term effects of the landscape. Natural predators often bring pests under control, but they

Think about how big a tree or shrub will be when mature (especially next to your house or driveway and near power lines).

**Pick plants that resist pests.**

Many garden centers and nurseries offer information about pest- and disease-resistant plant varieties. After they’re established, they’ll save you time and money on pest control.

**Give plants a good start.**

Prepare the soil by mixing one to three inches of compost into soil in planting beds. For trees and shrubs, mix compost into the whole planting bed, or just plant in existing soil and mulch thoroughly. Set plants at the correct soil level, following instructions provided with your plant. Mulch new plantings and be sure to water even drought-tolerant plants during their first few years especially in the summer and fall, until they build deep roots.

**Make space for wildlife.**

- You can invite birds, butterflies and other wildlife into your yard, protect streams and fish, and make a more attractive landscape
- Consider planting native trees and plants, especially ones with berries, fruit and flowers.
- Plant in layers (ground cover, shrubs and trees) so your landscape is like the forest.
- Don’t plant invasive species — check with your local Cooperative Extension office for a list of invasive “noxious weeds.”
- Minimize potential harm to birds, beneficial insects and fish by using pesticides only when necessary and using them properly. Read the label and follow instructions carefully whenever you use a pesticide.
- Provide a bird bath or other small water source. Make sure you change the water every couple of days so your bird bath doesn’t become a mosquito breeding ground.
- Leave wild “buffer” areas of native plants along ravines, streams, shorelines and fencelines.
3 Practice smart watering for healthier plants

Adhere to City of Concord issued water conservation guidelines.

Too much of a good thing.
Did you know that watering too much or too little is the cause of many common plant problems? You can have healthier plants, save money on water bills and conserve precious water resources by learning to give your lawn and garden just what they need, and no more.

Water deeply, but infrequently.
Most plants do best if the soil is allowed to partially dry out between waterings. A loss of shine or footprints remaining after you walk across the lawn indicates that it’s time to water. Vegetables and other annuals should be watered at the first sign of wilting, but tougher perennials (plants that live several years) need water only if they stay droopy after it cools off in the evening. Trees and shrubs usually don’t need any watering once their roots are fully established (two to five years), except in very dry years.

Make every drop count.
Some easy ways to lower water bills and get more water to plants include:

- Build your soil with compost and mulch to hold water and reduce evaporation.
- Choose low-water-use plants. Once established, they can often thrive just on rainfall.
- Use soaker hoses or drip irrigation on beds — they can save 50 percent or more compared with sprinklers.
- Use an outdoor water timer (available at garden stores) to water just the right amount, frequency and time of day.
- Water lawns separately from other plantings. Make sure sprinklers aren't watering the pavement.
- When soil is dry or compacted, it won’t absorb water quickly. If water puddles, stop watering a while and then restart so the water has time to soak in.

- Water in the early morning — if you water at mid-day, much of the water just evaporates. Evening watering should be avoided because it can encourage the growth of mold or plant diseases.
- In a dry spell, you can allow an established lawn to go dormant. Water just once a month and brown areas of the lawn will bounce back in the fall.

Let the rain soak in.
Rain rushes off roofs, pavement and compacted soil. This causes flooding downstream, erodes stream banks and muddies the water, which harms fish and other wildlife. You can help slow this run-off and help the soil hold the moisture plants need in the summer.

- Direct downspouts out into lawns, rain gardens or “rain barrels.”
- Use compost and mulch to reduce erosion and help rain soak in.
- Use open pavers, gravel or other pavement options that let rain seep into the soil.
- Plant dense strips of native trees, shrubs and groundcovers next to streams, lakes and ditches to stabilize the soil and to slow and filter run-off.

Contact:
Water Resources Department
to purchase a rainbarrel
704-920-5337