

From the Agent

Irrigation is one of the most important cultural practices that we do for our lawns. Since water is a limited resource and is vital to the health of your lawn, it is very important that watering be done correctly. How often do you water your lawns? Did you know overwatering would damage or even kill your lawns? This month's WET will talk about how to let your lawn tell you when to water. As always, you can also find more updated information on water and energy from the WET Facebook page (www.facebook.com/marionwet). I hope you find the information helpful. Thanks for reading WET.

Choosing the right plant for the right place goes a long way towards conserving water.

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Let Your Lawn Tell You When To Water

There are lots of issues associated with overwatering, such as increasing a lawn's vulnerability to weeds, insects, and diseases, reducing drought tolerance, increasing thatch, encouraging excessive growth, reducing tolerance for environmental stress, and more. To avoid overwatering, you can turn off your irrigation system and operate it only when your lawn shows signs of drought stress.

How will I know when to water?

Look for the following signs and consider watering when you see at least one of them:

- Folding leaf blades. Drought-stressed lawns will curl up their leaf blades lengthwise in an attempt to minimize leaf area (Figure 1). Wilting is best seen on the older leaves of the grass plant, as the younger leaves are not fully developed and may appear wilted even when they are not.
- Blue-gray color. Drought-stressed lawns turn from green to bluish-gray.
- Footprints remaining visible. When footprints or tire tracks remain visible on your lawn long after being made, your lawn is experiencing drought stress.

How much wilt is fine?

The answer to this question is “it depends.” Warm-season turfgrasses can easily survive extended periods of drought by entering dormancy. It is okay to allow your grass to enter dormancy, provided you are prepared to see some wilt signs and browning of leaf blades.

If a period of limited or no rainfall or irrigation is prolonged, you can expect your lawn to thin out and possibly experience increased weed pressure. If your desire is to maintain a uniformly green lawn during drought, you will need to apply supplemental irrigation. However, the supplemental

Not every part of your lawn will have the same irrigation requirements. Grass planted close to trees or large shrubbery will be in shade for some part of the day. Some mature tree canopies may actually shade a portion of the lawn for an entire day.

irrigation must be carefully monitored. Unless rain is forecast in the next 24 hours, lawns should be irrigated when 30 - 50 percent of the lawn shows signs of wilt. How long it will take your lawn to exhibit wilt to this extent will depend upon the climate of your area and the soil conditions in your yard. Caution should be exercised when applying weed-control products, as they may harm an already-stressed turf.

Train your lawn's roots to grow deep.

One way to help your lawn endure drought is to encourage deeper rooting . Irrigate only when the grass begins to show one of the three signs of lawn thirst listed above. When you do water, apply the proper amount of water. These practices will increase rooting depth and overall turf-stress tolerance. Another way to encourage deeper rooting is proper mowing. Mow at the highest recommended height for your grass type, and your grass' roots will grow deeper. When you mow too low, the grass puts energy into regrowing shoots, rather than establishing deeper roots.

How much water is the proper amount?

Your objective when irrigating is to get the maximum amount of water to the root zone without wasting water. To achieve this objective in most Florida soils, you will need to apply somewhere between ½ inch and ¾ inch of water per irrigation event.

Sandy soils will generally get wet down to 12 inches for each inch of water you apply. In heavier soils, such as are common in North Florida, you might only need to apply ½ inch of water in a single irrigation event. In some areas in the southeastern part of Florida -- or wherever hard limestone is less than 12 inches below the soil surface, you may also need less water since the roots will not be able to grow past the barrier anyway.

When watering restrictions are in effect, homeowners are often tempted to apply more water to compensate for the reduction in frequency of irrigation. However, applying more water than the grass can absorb only wastes water. Additionally, runoff -- excess water that the grass' roots cannot

When rainfall is adequate to meet plant needs, supplemental irrigation systems should be turned off.

absorb -- creates potential pollution hazards, as fertilizer and pesticide chemicals can be washed into groundwater or surface water. A lawn that is too wet is also at greater risk for disease and weed problems.

How long do I run my irrigation system to apply the correct amount of water?

To determine how long to run your sprinkler system to apply the correct amount of water, set out small, straight-sided cans (such as coffee, tuna fish, or cat food cans) randomly within an irrigation zone and see how long it takes to fill them to the desired depth of $\frac{1}{2}$ - $\frac{3}{4}$ inch. Repeat this process for each irrigation zone in your lawn. Be sure to check your irrigation system for uniform coverage; all the cans should have approximately the same amount of water.

Your irrigation system consists of multiple “zones,” each of which covers a specific area of your yard. Be sure your irrigation system is zoned separately for the lawn and ornamental plants so that each zone will apply different amounts of water at different frequencies. A zone that covers your lawn should not also cover landscape plants since irrigation requirements differ between species.

Additionally, rain sensors, mandated by state law on all new irrigation systems since 1991, should always be functional and in place. These sensors will automatically skip an irrigation event if it has rained.

More information about watering your Florida lawn, please visit <http://edis.ifas.ufl.edu/pdffiles/LH/LH02500.pdf>.

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