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A Newsletter for the PROfessional LandSCAPE IndustrieS
Bringing you the latest information on commercial horticulture practices in Miami-Dade County
Miami-Dade County Cooperative Extension Service
University of Florida, U.S. Department of Agriculture, & Consumer Services Department, Miami-Dade County
18710 SW 288th Street; Homestead, Florida 33030-2309
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Be aware!!
I welcome all of you to the last PROSCAPES newsletter of 2004. These coming months will be a time for planning and scheduling activities and programs for 2005. If you have any ideas, comments, questions, problems, etc...please let me know, so it can be added to the 2005 program curriculum.

We were very lucky with the outcome of the last hurricane season, but we still have a lot of concerns with the Miami-Dade green areas. Our tree canopy is still very low, we need to plant the right plant in the right place, and improve the fertilization and irrigation practices in our turf and ornamental plants. There is a lot of information available for all of you, Take advantage...

Enjoy the newsletter ....and thanks for your support.

This is your newsletter; please let me know what information you would like to see in it.

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Editor’s note:
To better view the color photographs, you can read this newsletter on-line at:
http://miami-dade.ifas.ufl.edu/programs/commurb.htm
PROFESSIONAL DEVELOPMENT & CEU OPPORTUNITIES: for October - December 2004

Weather/ Cold protection meeting

Friday, November 19, 2004, 10:00 a.m. - 12 noon. This seminar is free but you must register. At the CES Auditorium, 18710 SW 288th St., Homestead. Coffee will be provided. Please call at (305) 248-3311 for a registration. The seminar will cover our climate and weather plus cold protection strategies for ornamentals, fruit and vegetable crops, also good information for landscape maintenance personnel.

Certificate Course in Horticulture

We are now taken registration for this fabulous 8 week duration course for landscape maintenance personnel, botanical gardens, golf course, associations, landscape architects, etc. We will cover basic plant science, plant nutrition, landscape design, selection and installations, landscape maintenance practices, best management practices in turf, landscape entomology, landscape safety and pesticide, diagnosing landscape problems, plant pathology, plant propagation and basic irrigation. If you are interested fill the form on the last page of the newsletter and send back to our office.

The deadline is February 1, 2005.

Getting started in the nursery business

November 19, 2004, 9:00 a.m. - 1 p.m. The emphasis at this seminar will be placed on what you need to know before you take the plunge. The seminar will be at the CES Auditorium, 18710 SW 288th St., Homestead. Coffee will be provided. Please call (305) 248-3311 for a registration.

CEUs for FNGA (4) and MG (3)

Other Events

October 29. ISA FL- Chapter. The 2004 Coast Series. If you want more information call 941-342-0153

November 16. Sports Turf Managers Association Chapter meeting and equipment seminar. This will be an excellent sports turf seminar. If you want more information contact John Mascaro at 954-341-3115

Dec 2 & 3. Great Southern Tree Conference, Gainesville, see the webpage for more information or call FNGLA at 407-295-7994 or 800-375-3642 http://www.fnga.org/gstree/gen-info.asp

January 20-22. Tropical Plant Industry Exhibition (TPIE) Fort Lauderdale. FNGLA/ CEU's, see more information in the webpage http://www.fnga.org/tpie/general.asp

Spring Semester Classes at the University of Florida

University of Florida credit classes for the spring semester will start on January 4, 2005. Instruction is on-site taught by TREC faculty, video conference classes taught by UF faculty from Gainesville, other REC's, or home study (videotapes & web classes). For more information, call Wendy at the Tropical REC, Homestead at 305-246-7001 x 202 or Jane at the Fort Lauderdale REC, Davie at 954-577-6371.
New & Interesting Publication

The 2004 University of Florida’s Pest Control Guide for Turfgrass Managers- is now available on-line.

This guide supplies information concerning pesticides that can be used for pest in turf grasses. Because of the risks involved in their handling and use, the US Environmental Protection Agency (EPA), has classified some pesticide products for restricted use. Such products are identified by the words “RESTRICTED USE PESTICIDE” placed above the product’s brand name on the label. Such products must be applied by certified and licensed pesticide applicators or someone working under their direct supervision. Pesticide products that do not bear the “Restricted Use” designation can be purchased and applied by anyone. However, Florida law requires anyone who applies any pesticide to lawns associated with structures (residences, commercial building, etc) for monetary compensation to be licensed or supervised by someone with a license. Persons who apply pesticides to golf courses, parks, cemeteries, and athletic fields must be licensed or supervised by someone with a license only if a restricted use pesticide is applied. Government employees who apply pesticides to the lawns around government buildings and private business property owners who apply pesticides to the lawns around the buildings on their business property must also be licensed. The Florida Department of Agriculture and Consumer Services (FDACS) licenses pesticide applicators.


Several new fact sheets are available:

These fact-sheets have been completed or nearly completed since the last newsletter. They are also available in electronic form at our web site:
http://miami-dade.ifas.ufl.edu
- Pink Hibiscus mealybug management. Fact-sheet # 107.
- Reported host of pink hibiscus mealybug. Fact-sheet # 106.
- Hurricane preparations for nurseries. Fact-sheets # 104.

Pesticide Training for October – December in English

The following classes (in English) require pre-registration. Call Lize at (305) 248-3311 x 242

General Standards / Core Review & Exam

Wednesday, November 17, 2004, 8:30 a.m. - 3:00 p.m., at South Dade Government Center 10710 SW 211th Street, Room 203. Cost is $15.00 ($20.00 after Nov.8); includes coffee, donuts, & lunch. Please call Lize 305-248-3311 Ext. 242 for a registration form. Good for 4.0 CEUs in General Standards/Core.

Limited Certification Commercial Landscape Maintenance Training & Exam

If you need to attend this certification call me at 305-248-3311 x 231. We need at least 15 people in order to provide this training.

Who should attend: (a) Landscapers needing the 4 “Limited landscape maintenance” hours section of the 8 hours of approved training to qualify to take the Limited Certification Commercial Landscape Maintenance exam. The 4 “Core” hours are available through “Core/General Standards” classes offered on a bi-monthly basis. (b) Limited Certification license holders who need CEUs to renew their license.

If you plan to take the exam, we need to review your packet.

Ornamental & Turf Training/Exam

Thursday, December 17, 2004, 8:30 a.m. - 4:00 p.m., at John D. Campbell Ag Center 18710 SW 288TH Street, Homestead. Cost is $15.00 ($20.00 after Dec 7); includes coffee, donuts, & lunch. Please call Lize 305-248-3311 Ext. 242 for a registration form. Good for 6.0 CEUs in Lawn & Ornamental.

Private Ag Training Class & Exam

Wednesday December 8, 2004, 8:30 a.m. - 3:00 p.m., at John D. Campbell Ag Center 18710 SW 288TH Street, Homestead. Cost is $15.00 ($20.00 after Dec 6); includes coffee, donuts, & lunch. Please call Lize 305-248-3311 Ext. 242 for a registration form. Good for 4.0 CEUs in Private Applicator, Ag Row Crop, Ag Tree Crop, Forestry and Ornamental & Turf; 3.5 CEU’s Aquatic, Right-of-Way.
Did You Know?

Florida county adopts restrictive irrigation ordinance:

According to a report in The Daytona Beach News-Journal, Volusia County has enacted the strictest landscape ordinance in Central Florida. Volusia County now requires that up to 50 percent of a new home landscape include water-wise plants, rather than turfgrass (Source: Growing Concerns, Oct-Dec 2004)

ANLA publishes American Standards for Nursery Stock

The American Nursery & Landscape Association (ANLA-.www.anla.org) announced the publication of the 2004 edition of the American Standard for Nursery Stock. The publication provides a standardized system of sizing and describing plants to facilitate the trade in nursery stock. The standard was first published in 1923. In 1949, it was published for the first time in association with the forerunner of the current American National Standards Institute (ANSI). The revisions included in the 2004 edition were developed by the ANLA’s Horticultural Standards Committee between January 1997 and May 2003. The proposed revisions were then submitted to interested national and regional societies, associations, companies, individuals, and government agencies for their review and endorsement. The free-129 page publication can be download from ANLA at (Source: Growing Concerns, Oct-Dec 2004)

The Miami-Dade County golf course industry has assets (e.g., land, vehicles and equipment, irrigation systems, and golf-owned buildings and equipment) in excess of 1.4 billion dollars and generates sales of over $288 million dollars annually (Haydu and Hodges, 2002). The industry employs about 2,364 people on 48 golf courses and there are about 8,400 acres of maintained turf. All golf courses in Miami-Dade County are irrigated to some extent. Some of the major issue facing the golf course industry in Florida include marketing, adjacent land use planning, water and fertilization management, pests and diseases, natural disaster avoidance and mitigation, and sustainable cultural practices.

Pesticide Training for October - December

in Spanish:

The following classes require pre-registration. Call (305) 248-3311 x 242 for registration forms.

General Standards / Core Review & Exam (Principios Generales Repaso y Examen)

If you need to attend this certification call me at 305-248-3311 x 231. We need at least 15 people in order to provide this training.

Limited Certification Commercial Landscape Maintenance Training en Español

If you need to attend this certification call me at 305-248-3311 x 231. We need at least 15 people in order to provide this training.

Private Applicator review and exam. Aplicador privado repaso (en español) y examen (en ingles)

Friday, December 10, 2004 from 8:00 am - 5:00 pm. At the John D. Campbell Ag Center 18710 SW 288TH Street. Homestead. Cost is $12.50; includes coffee, donuts, & lunch. Please call Lize 305-248-3311 Ext. 242 for a registration form. Good for 6.0 CEUs in Private Applicator, Ag Row Crop, Ag Tree Crop, Forestry, Ornamental & Turf, Commercial Lawn & Ornamentals, Limited Landscape Maintenance.

Core CEUs available anytime

Do you need just 2 CEUs....... In General Standards (Core)??

For just $10.00 you can get them. Everything you need is on the web......

Http://kgioeli.ifas.ufl.edu/environmental04.htm
Soil Moisture and Plant Growth

The amount and size of soil pores and the total surface area of the particles determine the amount of water that a soil can hold. Clay soils (not our case in Miami-Dade County) have more total pore space and particle surface than sandy soils. Thus, clay soils have a higher water-holding capacity than sandy soils. Water that drains from the large macropores under the force of gravity is called gravitational water. A soil is said to be at field capacity when gravitational water has drained away. Water that remains is held by the soil particles (micropores). Once a soil is at field capacity, water is absorbed by plants roots or it evaporates. Tree leaves may wilt during periods of high water demand during the day but usually recover at night when transpiration decrease. Eventually, depending on the water-holding capacity of the soil, a point will be reached at which a tree cannot pull any more water from the soil. This point is called the permanent wilting point. Trees existing in soil at the permanent wilting point, when no usable water is available from the soil, usually decline and die.

Tree established period and water

(Source: Arborist Certification Study Guide, ISA 2001)

Air         water                     soil                      root

requirement

When a tree is established, many roots will have grown a distance equal to approximately 3 times the distance from the trunk to the branch tips (Gilman 1988; Watson and Himelick 1982). During the establishment period, shoots and trunk grow slower than they did before transplanting, when their growth rates become more or less consistent from one year to the next, the tree is considered established.

In moist climates, by the end of the establishment period a tree has regenerated enough roots to keep it alive without supplemental irrigation in a landscape where roots can expand uninhibited by urban structures. In the drier parts of central and western US, the turf and landscape irrigation system may have to supplement rainfall to provide enough water for survival after establishment. Trees in unirrigated landscapes in dry climates may need supplemental irrigation beyond the end of the establishment period. This is especially important if the trees are not adapted to the dry climates.

Trees provided with regular irrigation through the first growing season after transplanting require approximately 3 months (hardiness zones 9-11), 6 months (hardiness zones 7-8), or one year or more (hardiness zones 2-6) per inch of trunk diameter to fully establish roots in the landscape soil. Trees in desert climates may take longer to establish. Trees that are under irrigated during this establishment period are likely to require additional time to establish because roots grow more slowly. Most trees are under irrigated during the establishment period. Because roots are not fully established, be prepared to irrigate through the entire establishment period, especially in drought. Since most root growth occurs in summer, be sure soil moisture is appropriate during this crucial season.

Regular irrigation after planting encourages rapid root growth that is essential for tree establishment. Irrigation helps maintain and encourage the desirable dominant leader in the tree canopy maturing trees. Instead of a dominant leader, trees that are under irrigated during the establishment period often develop undesirable low, codominant stems and double leaders that can split from the tree later. Splits along the lower trunk have also been associated with under-irrigation after planting. Since most root growth occurs in the summer months, irrigation during this time is crucial. You could loose almost an entire year’s root growth if you under-irrigate the first summer.

Unlike established plants, research clearly shows that recently transplanted trees and shrubs establish quickest with light, frequent irrigation. For trees planted in spring or summer, provide one (cooler hardiness zones) to three irrigations (warmer hardiness zones) each week during the first few months after planting. Daily irrigation in the warmest hardiness zones provides the quickest establishment. Following the initial few months of frequent irrigation, provide weekly irrigation until plants are fully established. At each irrigation apply about one (cool climates) to two (warm climates) gallons os water per inch trunk diameter, (e.g. 2 to 4 gallons for a 2-inch tree) over the root ball only.
<table>
<thead>
<tr>
<th>Size</th>
<th>Irrigation for vigor</th>
<th>Irrig. for survival</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt;2 “ caliper</td>
<td>Daily for 2 weeks, every other day for 2 months, weekly after established</td>
<td>twice weekly for 2-3 months</td>
</tr>
<tr>
<td>2-4” caliper</td>
<td>Daily for 1 month, every other day for 3 months, weekly after established</td>
<td>twice weekly for 3-4 months</td>
</tr>
<tr>
<td>&gt;5” caliper</td>
<td>Daily for 6 weeks, every other day for 5 months, weekly until established.</td>
<td>twice weekly for 4-5 months</td>
</tr>
</tbody>
</table>

Tips to maintaining Landscape During Drought  
http://edis.ifas.ufl.edu/EP091

General Recommendations for Fertilization of Turfgrass on Florida Soils  
http://edis.ifas.ufl.edu/AE110

Water Requirements of Florida Turfgrasses  
http://edis.ifas.ufl.edu/LH026

How to calibrate your sprinkler system  
http://edis.ifas.ufl.edu/LH026

Mowing Your Florida Lawn  
http://edis.ifas.ufl.edu/LH028

Fertilization Recommendations for landscape Plants  
http://edis.ifas.ufl.edu/EP114

Characteristics of Plant Disease  
http://edis.ifas.ufl.edu/PG001

Weed Management in Ornamentals  
http://edis.ifas.ufl.edu/WG057

Integrated Pest Managed Strategies  
http://edis.ifas.ufl.edu/LH080

Florida Automated Weather Network  
http://fawn.ifas.ufl.edu/

Florida Exotic Plants  
http://www.fleppc.org/pdf/dicots.pdf

Fort Lauderdale Research Educational Center-Palm Web page.  
http://flrec.ifas.ufl.edu/Hort/Palms/palmproduction/palmproduction.htm

Enjoy it..............