Helping Plants Survive a Freeze
By Jane Morse, UF/IFAS Horticulture Extension Agent, Pinellas County

Lucky for us and our plants, freezes can be infrequent in this part of Florida. But if the television weather person predicts a radiation freeze or temperatures of 32 degrees or below, you need to pay attention.

What steps can you take to protect your plants?

First, be aware that there are two types of freezes, each with preferred protection methods. Radiational freeze, or frost, happens on calm, cold, clear nights when heat radiates from objects into the atmosphere. These surfaces can become colder than the air above them due to this rapid loss of heat or long wave radiation. When the air is moist, this type of freeze results in frost on surfaces. When the air is dry this type of freeze leaves no ice deposits, but still causes freeze damage just like frost. Plant damage from a radiational freeze can be minimized by reducing radiant heat loss from plant and soil surfaces.

To protect plants from a radiational freeze, it is very important to cover them above the plant tissue. Use some type of support to keep the cover above the plant. If the cover is touching the plant it will not hold in the heat the plant is radiating and freeze damage will occur. The cover must go all the way down to the ground to capture all the heat that is leaving the plant and ground. Any type of cover can be used. The thicker the cover the better it will be at holding in the heat. Plastic can be used, but it must be removed during sunny days or ventilated to let heat escape.

The second type of freeze is advective. This occurs when cold fronts blow in from the north and cause a sudden drop in temperature. Windy conditions are normal during advective freezes. Although radiant heat loss occurs during an advective freeze, the conditions are quite different from a radiational freeze. Plant protection during advective freezes is more difficult. Some type of heat source, such as a light bulb, must be placed under the cover to provide heat. Be sure to keep the heat source away from the cover and the plant so as not to start a fire.

Plants in pots are especially susceptible to freeze damage. These should be moved into a structure that can be kept warm or grouped together and properly covered. Mulch can be placed around containers to help protect the roots from the cold.

It is a good idea to water plants as early as possible the day before a predicted freeze. The water in the soil will absorb heat during the day and this heat will be radiated up into the cover at night, helping to keep the plants warm. Do not over water, however. Keeping plants continually wet can be harmful. Mulch placed over the roots (but kept away from the stem or trunk) will help protect the roots.

Other things you can do to help plants avoid freeze damage is to refrain from pruning in late summer or early fall. Pruning during this time will promote new tender growth which is more likely to be damaged from cold.
Make sure plants get proper nutrition. Plants in south and south central Florida should be fertilized in February, May, August (except in Pinellas County where it is not allowed), and November. Decrease the November fertilization rate by a third because plants use fewer nutrients during the colder months. In Pinellas County, unless you have a documented phosphorus deficiency, the middle number on the fertilizer bag must be zero. The first number on a fertilizer bag stands for nitrogen, the second for phosphorus and the third for potassium.

Windbreaks from fences, buildings and temporary coverings, as well as adjacent plantings, can protect plants from cold winds. Windbreaks are especially helpful in reducing the effects of short-lived advective freezes and their accompanying winds. The height, density and location of a windbreak will affect the degree of wind speed reduction at a given site. Windbreaks are not that helpful in preventing plant injury during radiational freezes, however.

Watering plants during an advective freeze must be started as freezing temperatures are reached and continue until thawing is completed. Water must be evenly distributed and supplied in ample quantity to maintain a film of liquid water on the foliage surfaces. Irrigation for several days can soak the soil, resulting in damaged root systems and/or plant breakage due to ice buildup.

The easiest way to avoid freeze damage is to select plants that can tolerate the cold temperatures of our plant hardiness temperature zone. Pinellas County is in zone 9b, with an average annual minimum temperature range of 25 to 30 degrees Fahrenheit. Plants that can tolerate these temperatures won’t need to be covered unless it is colder, while many tropical plants and summer annuals are injured by temperatures below 50 degrees.

For help with plant selection or other horticulture questions, contact the Lawn and Garden Help Desk at Pinellas County Extension, 12520 Ulmerton Road, Largo. Walk-in help is available Monday through Friday from 8 a.m. to 5 p.m. Phone help is available at 727 582-2100 #1 from 9 a.m. until noon and from 1-4 p.m. on Mondays, Tuesdays and Thursdays. Computer help is available at http://AskExtension.org. Pinellas County Extension is your local “extension” of the University of Florida’s research-based information source. View our video “Cold Protection Covers” at this site: http://www.youtube.com/user/PinellasExtensionTV/videos...
A Parade of Thoughts...

By Debra Kramer, FBG Volunteer
As I watch the dog parade during the Holiday Light show I am skeptical. I am not convinced that the pristine setting of the Florida Botanical Gardens is the right place for slobbering pooches dressed up in costumes. Are the majestic palm trees and sweeps of showy shrubs the appropriate background for dogs prancing around and performing tricks for treats?

After giving it some thought, I decided upon the answer. I realize that there is a lot in common between tending a garden and caring for a pet. Both relationships are mutually beneficial. When I stroll through the botanical gardens, I see a plant at its best. Behind the scene, a volunteer matches the plant with the ideal setting, arranges a watering and feeding schedule, checks for signs of disease and carefully prunes it into a natural, flattering shape. Similarly, a pet owner selects the right animal for his family, provides food and water, deals with illness and grooms the pet to maximize its features. In both instances, the focus is on the plant or animal. The person who does the work stands proud... but barely noticed

An additional common thread connects the landscape with the pooches. Despite the best intentions of the gardener and the pet owner, the outcome is unpredictable. The perfectly tended hibiscus suddenly wilts; the well-trained dog refuses to fetch on command. Yes, the garden turns out to be the perfect place for a dog parade after all.

Garden Visitors

By Chuck Scaffidi, Editor
A group of visitors from Gulf Coast Health Care chose our botanical garden to have a peaceful lunch and tour. Hopefully we provided a healing experience for them.

As you can see they were very happy to have their picture taken and smiled and waved their hands as I said goodbye.

Thanks Cathy! For bringing them to enjoy the afternoon.
A Yard Tour Feast (Plants and Food)

By Chuck Scaffidi, Editor
Photos by Sandy Huff and Natalie Oliver

The January MG and volunteer yard tour was Friday, January 20, at Sandy and Bill Huff’s house. This yard tour was combined with the Safety Harbor Garden Club's annual wienie roast in the Huff's back acre.

Not being able to attend I called Sandy to get her view of how it went. She replied as follows and sent some lovely photos... Natalie Oliver sent photos too:

“Having the Master Gardeners join the Safety Harbor Garden Club for our annual wienie roast was a good idea. These MGs are fun, and I now know that my citrus trees need trace elements.

Three gals came early (Argentina awaited), and others fit right in. They all got the 5 cent tour, noting my favorite plants, a white milkweed nicknamed 'hairy balls,' and a double-row blooming orchid bush. Let's do this next year!” -Sandy Huff

White Milkweed, 'hairy balls', had 21 monarch caterpillars on this one plant, while the orange and yellow milkweeds beside it had no cats

An outdoor picnic in January?

Sandy pointing and guests looking in awe (pictured below):
Florida Botanical Gardens Foundation Update

By CHUCK SCAFFIDI, FBG Foundation President

The main topic at the February 9 Foundation board meeting will be a mid year review of the FY12 budget and reports from our Committee Chairs. We have a lot of projects in the works and are always open to new ideas. The lights team will be meeting on a regular basis after each monthly board meeting so there is no lack of exciting work. So, please see me and we can sit and talk about all the challenges to beautify the Florida Botanical Gardens and the need for volunteers and raising cash. I promise I will not put too much pressure on you.

As you can tell, there is a lot going on with the Foundation and at the Gardens. Meeting all our goals will take all the people power we can muster. If you love the Gardens, we’re waiting for you. Bring your friends and neighbors. Or get involved and make new friends. You’ll be glad you did.

If you have any questions, concerns or suggestions, I am always happy to have a visit in the Volunteer Office or chat via email (cscaffidi@co.pinellas.fl.us) or at 727-582-2117.

Is it the weather that refuses to become more wintrier or the flood of snow birds or both that are bringing so many visitors to the gardens lately. Whatever, we are excited about seeing so many browsing the gardens. Speaking of gardens the Christmas ornament tree is still in bloom on the Tropical walk along with newly planted annuals that spruce up many areas.

Following is an article by Terry Berube to illustrate and status the latest major project that is underway. This is an example of the volunteers efforts and the Foundation’s money at work:

The Florida Botanical Gardens is Expanding!

The FBG Foundation and Pinellas County Parks Department are collaborating on expanding the formal gardens to include a vinery and two additional Children’s Trail stops. The area will expand the formal gardens by approximately 8,000 square feet and will demonstrate vines and plants new to the gardens. The Children’s Trail stops will demonstrate the process of wetland water runoff and the need to plant proper water plants that filter out fertilizer prior to releasing the water to the wetlands. The second trail stop is yet to be designed. We would like you to join us in deciding how this station can educate our children while they are having fun.

The new Vinery area will be located on the northern most part of the formal gardens next to the Palm Garden. It will be accessed on the northeast side of the Palm Garden (if you exit the Palm garden it will be on your left). The entrance will come off of a new 18 foot circular cement landing that mirrors the one at the end of the Tropical Walk. This new landing will connect the Palm Garden, Memorial Walkway, Vinery and maintenance area.

Visitors will walk through the Vinery on a winding white shell path passing by a number of individual aluminum trellises. At the end of the walkway is a serene sitting area shaded by oak trees overlooking the detention pond and will be surrounded by native plants. One of the Children’s Trail stops will be highlighted in the detention pond area. The location for the second station is yet to be determined.

Work began with the installation of a new white vinyl fence installed by Florida Fence. It is 239 feet in length and separates the maintenance area from the gardens. County employees and the Wednesday volunteer crew spent several days clearing the area around the detention pond and planting the new plants and trees. The next step is to install the trellises.

The plan is to complete this project by spring and we will proudly give tours to all that are interested.

The Foundation is looking for a volunteer to manage the Children's trail and volunteers to help implement and maintain the Children’s Trail stops. As I have said, in my Foundation update please come by and see me. Chuck

On the next page are photos of the new area:
A New Incentive for Volunteers Working for the Parks and Conservation Resources Department!

Volunteers who work **100 hours** in the department starting from October 1, 2011, may earn an annual parking pass usable at the three beach parks where the County collects a parking fee – Sand Key Park, Howard Park and Fort De Soto Park. The pass is registered to one vehicle license number and must be on display when parked at the beach parking. The annual pass normally costs $75 or for seniors $55.

The volunteer must be registered with the county, report their hours worked for Parks and Conservation Resources and request the VSP report of their hours from their Volunteer Coordinator. That report will be used as a voucher for the pass. The pass is good for one year from the issue date. One pass per year per person may be earned.

Nancy

*Nancy Brown,* Volunteer Program Coordinator, 582-2460

For FBG VSP users I will run the report for you.

Chuck

*Chuck Scaffidi,* FBG Volunteer Coordinator, 582-2117
The **Chelsea Flower Show** and **English Gardens** Tour!

**May 19 – May 26, 2012**

1st Day: Board plane for your transatlantic flight to England.

2nd Day: Arriving in London we meet our tour escort and transfer to your hotel in the English countryside, where we have accommodations for the next 3 evenings. Our scenic drive gives us a preview of the incredible colors and beauty that await us. After checking in and freshening up a bit, we are treated to a welcome cocktail reception, where we have a chance to get acquainted with our traveling companions. A delicious dinner follows. (Dinner)

3rd Day: A drive through the lovely English countryside takes us to today’s destination – Wakehurst Place. We take a tour of the 465 acre country estate, with its ornamental gardens and temperate woodlands. While seeing the walled gardens, Asian Heath Garden, Water Garden, Toden Valley Nature Reserve and, of course, the magnificent Mansion, we’ll be amazed by the fantastic kaleidoscope of colors of the rhododendrons and azaleas that are in full bloom. What a wonderful introduction to the world of English gardens and a great way to begin our tour. (Breakfast)

4th Day: A delightful visit to one of the world’s most celebrated gardens and the pride of England’s National Trust – Sissinghurst Gardens & Castle – is the highlight of today’s touring. Using the property’s brick structures and walls, together with the hedges of rose, yew and hornbeam, a series of “outdoor rooms” with long walking links was created. Some of the sights you will see are the Elizabethan Tower, Yew Walk, Moat Walk, Cottage Garden and the White Gardens. It’s such a pleasure meandering through the intimate Rose Garden, visiting the working vegetable garden or just strolling on the magnificent grounds at Sissinghurst. (B)

5th Day: After checking out of our hotel we drive to Hever Castle for a delightful tour. One of the most celebrated areas of Hever’s gardens is the Italian Garden, which was designed to display William Waldorf Astor’s collection of Italian sculptures. A delightful stroll can be taken along Rhododendron Walk and Anne Boleyn’s Walk (Hever Castle was, in fact, the childhood home of Anne Boleyn). We next visit a private English country home where we are treated to “Afternoon Tea,” with scones and homemade cakes, while overlooking its magnificent gardens. This is always one of our tour’s most memorable highlights. Then it’s on to London, where we have accommodations for the next 3 nights and enjoy another fine dinner. (B, D)

6th Day: We spend the day at the 2012 Chelsea Flower Show. The most famous garden event in the world the Show, which is sponsored by the Royal Horticultural Society (RHS), has been held in London since 1888. Extensively covered in the media, the show has become an important venue for watching trends in all aspects of gardening and design. Words can’t describe it; you have to see it for yourself. (B)

7th Day: A short drive brings us to the RHS Gardens at Wisley. Considered the flagship garden of the RHS, Wisley captures the imagination with richly-planted borders, lavish gardens and the new state-of-the-art Glasshouse. A wonderful farewell dinner is prepared for us tonight. (B, D)

8th Day: We transfer to the airport for our flight home. (B)

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Tour package includes round trip airfare, accommodations for 6 evenings, breakfast each morning, 3 dinners, gratuities for meals, sightseeing, admission fees, the services of a professional tour escort, taxes, transfers and baggage handling in England.

Price reduction: now $2,989 per person, double occupancy.
Includes air fare from New York.

Optional 9th day: We take a tour of London today seeing, among other things, Big Ben, the Parliament Buildings, Westminster Abbey, Buckingham Palace, Hyde Park, Kensington Park, Piccadilly Circus and the Tower of London. The afternoon is free to enjoy London at your leisure; perhaps to take in a West End theatre production. Additional day includes accommodations, city tour, breakfast, meal gratuities, taxes. Price for additional day: $245 per person, double occupancy; $350 per person, single.

**Travel Unlimited**

(800)645-6969
Pinellas County Volunteer Services is honoring you, our volunteers!

Saturday, February 11, 2012
12 noon – 2:00 p.m.
Brooker Creek Preserve, Butterfly Room
3940 Keystone Road, Tarpon Springs, FL 34688

Please join us for lunch, friends and fun at the NORTH-COUNTY celebration!

RSVP by February 6, 2012
to mkvam@pinellascounty.org
(727) 464-VIPS (8477) or
(727) 464-5152
or to your supervisor.

THANK YOU!
You have made a difference!
Volunteers wanted

As many of you know Ptec St Pete no longer has a day class (until August 2012). This class provided a base for plants for the Greenthumb Festival sale, as well as care of the Demonstration Gardens & nursery. We need your help with propagating and potting of plants for Greenthumb Festival and general maintenance keeping the Demonstration Gardens & nursery from being over grown. The funds from the Greenthumb Festival sale will be crucial to developing our program in August.

If you are available- here are the upcoming dates:
- Tuesday Jan 30th 5pm to 7pm
- Monday Feb 6th 5pm to 7pm
- Thursday Feb 9th 6pm to 8pm
- Monday Feb 13th 5pm to 7 pm

Any help that you can provide would be greatly - and we mean greatly appreciated! If you can pass this along to your other circles that would be awesome. Come one and get dirty with us!

I will check with Merry Mott regarding CEUS, but this is more about the institution that helped you in your career than personal gain. If you can make it at any time frame during those listed that would be great.

Thank you for your support.
Greg Charles and Bonnie Desmond

School 893-2500 X1101
Bonnie's cell 727-712-6243
We're Tweeting Up a Storm

To see what our followers are saying, click on the Twitter icon and follow a couple of simple steps. It's fun, and a great way to keep up with Gardens news between Green Leaves.

Maybe we can even get a botanical conversation going. Share gardening tips. Ask gardening questions. Tell us how wonderful the Gardens are looking. (All "attaboys" gratefully accepted.)

Facebook Fans Share Their Gorgeous Garden Photos

When you visit the Gardens and take fabulous photos of our trees, flowers, herbs, tropical fruits, butterflies, birds and maybe even an alligator, please share them on our Facebook page. We’re getting more and more fans all the time and if you haven't signed up, it’s easy to do. Use the link above and click on the f connect symbol. Become a fan today so that you can view visitor photos and comments. You can also share your experience at the gardens on the “Wall.”

Thanks Miriam Pomeranz Richmond for the photos and comment—"What a wonderful day we had today visiting your beautiful gardens. Here is just one of the 150 photos I took today. There was so much to take photos of and so many beautiful birds and flowers. I can't wait to go back again soon! Thank you for keeping the gardens so well kept!”

Thanks Sherry Noon! We love seeing your photos on facebook.

Thanks Karen Hoffman Henson: For the lovely Tropical stream photo.
Volunteer Opportunities and Announcements

- **Help Desk Urgent!** Spring is a busy time. Please take a look at the help desk calendar on VMS and see if there is a time that works for you. Also, if you are a regular at the help desk already, please be sure you are signing up in the calendar to avoid scheduling confusion.

- **FFGC/UF Garden and Design Seminar**—June 19-21 in Gainesville, FL. This event is open only to Master Gardeners and members of the FL Federation of Garden Clubs.

- **MGs needed**—MG Sally Ervin is looking for help at Loews: MGs that would like to volunteer at the Clearwater Loews outreach Extension table on Saturdays anytime from 10-2 (can be 1 hr to 4 hrs). Loews is on Gulf to Bay by 19 e-mail Sally at servin307@hotmail.com.

- **MG needed**—Maintaining Your Florida Yard Saturday March 24, 9 a.m.-2 p.m. Weedon Island Preserve. Be available as needed during the class.

Education

- **MG Update**—Wednesday February 8 (9am-12ish). This month will feature our own volunteer and mycologist, Dusty Purcell. Dusty is going to teach us about some common fungi you may encounter in your everyday work in the garden/landscape.

- **Promo video all about Pinellas County Extension**—A short promo accessed through the MG VMS system in the Newsletters/Documents section. If you are giving a presentation you can play this as an opening to showcase all that the Extension offers the community.

- **Earn Continuing Education Credits**—For more upcoming Extension classes please register at: [http://pinellas.ifas.ufl.edu/calendar.shtml](http://pinellas.ifas.ufl.edu/calendar.shtml)—MGs can earn up to four continuing education credits. Modules at: [http://gardeningsolutions.ifas.ufl.edu/mastergardener/outreach/plant_id/index.shtml](http://gardeningsolutions.ifas.ufl.edu/mastergardener/outreach/plant_id/index.shtml)

  For instance, one CEU can be earned by studying the plants and earning a passing score of 80% on the “Test Yourself” feature. Once a score of 80% has been reached, print the page and submit it to the Volunteer Office.

- **Palm Harbor Library MG Class Series**—Classes are offered on the second Thursday of the month from 2-3:30 p.m. and from 6:15-7:45 p.m. at the Palm Harbor Library, 2330 Nebraska Avenue. To register, go to [http://pinellas.ifas.ufl.edu/](http://pinellas.ifas.ufl.edu/) , click on the Take Action “Register for a program tab” and then click “Extension Service.” You may also call 727 582-2100. Taking holiday break.

- **St Petersburg Community Library MG Class Series**—Classes offered free at the main branch of the St. Pete Library located at 3745 Ninth Avenue N. To register, go to [http://pinellas.ifas.ufl.edu/](http://pinellas.ifas.ufl.edu/) . Click on the Take Action “Register for a program tab” and then click “Extension Service.” You may also call 727 582-2100.

- **Extension Classes:** Visit Extension’s on-line calendar for a list of classes that are being offered free to MGs, volunteers and FBGF members with a membership card. All others pay a nominal fee. You can register on-line.

- **“Planting Pinellas” visit blog** [http://plantingpinellas.blogspot.com/](http://plantingpinellas.blogspot.com/)

See Theresa for more details: 727-582-2109, tbadurek@pinellascounty.org
Welcome to the New Class and Volunteer Appreciation

This time last year we were welcoming a brand new class of Master Gardeners and I can’t believe it’s already been that long. They have been hard at work and most of them have already met their requirements for graduation. Speaking of which… the March Master Gardener Update is going to be a celebration! We will celebrate the graduation of the new class and give out volunteer awards. The meeting will also be a “Pig-Out” so plan to bring your favorite “picnicky” dish to share! We will also set aside some time to go over the new landscape projects around the Extension office, so be sure to come and share in the celebration!

Save the date: Thursday, March 8th from 9am until after lunch.

Thank you so much for all that you do!

Theresa Badurek
727-582-2109
tbadurek@pinellascounty.org

Way to go Sam and Volunteers!

Sam received a 25 years of volunteer service engraved vase from U of F/ IFAS annual conference where distinguished volunteers are given awards for their years of service. Sam could not attend and was honored here at Extension.

Presenting the award is Chuck Scaffidi volunteer coordinator and Theresa Badurek County Extension agent. Also, MG’s Jacques Pinkard, 20 year, Lillian Wolfinger, 15 years. and Jackie Anderson, Linda Barnette, Ann Brown, Pamela Carter, Bernadette Christian, and Mary Ellen Warrner received 10 year Plaques.

The IFAS plaques, and County pins and certificates for years of service for volunteer that could did not attend the Conference and County volunteer celebration on Saturday January 14 will receive the awards on Thursday March 8.
Thanks to Local Nurseries, FBGF Members, MGs Can Save $$ When Beautifying Yards

One of the benefits of Foundation membership and being a certified Master Gardener is getting a 10 percent discount at several local nurseries. Just present your FBGF membership or MG card. We will continue to contact nurseries in the area to secure additional participants. Support our friends at:

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<tr>
<th>Nursery Name</th>
<th>Address</th>
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<tr>
<td>Art Stone Orchids</td>
<td>3611 Tyrone Blvd, St. Petersburg</td>
<td>727-345-6733</td>
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<tr>
<td>Country Club Nursery</td>
<td>9850 Starkey Road, Largo, 727-397-4438</td>
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<tr>
<td>DragonFly Garden</td>
<td>730 Broadway, Dunedin 727-734-4900</td>
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<td>Earthscapes Garden Room</td>
<td>816 Alt. 19 N, Palm Harbor 727-786-4859</td>
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<td>Esperanza’s Garden Center</td>
<td>6001 Haines Road, St. Petersburg 727-742-8499</td>
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<td>Jene’s Tropicals</td>
<td>6831 Central Ave., St. Petersburg 727-344-1668</td>
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<tr>
<td>Kathy’s Korner Nursery &amp; Tree Farm</td>
<td>6095 Haines Road North, St. Petersburg 727-525-9640</td>
<td>(10% off trees)</td>
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<tr>
<td>Palm Harbor Nursery &amp; Landscaping (10% off cash and carry)</td>
<td>450 Riviere Road, Palm Harbor 727-784-2992</td>
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<tr>
<td>Seminole Nurseries</td>
<td>6230 102nd Ave. N, Pinellas Park 727-545-9619</td>
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<tr>
<td>Summerwood Gardens, Inc.</td>
<td>1171 Tarpon Springs Rd, Odessa 813-920-2153</td>
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<td>Twigs and Leaves</td>
<td>2131 Central Ave., St. Petersburg 727-822-5400</td>
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<td>Wilcox Nursery</td>
<td>12501 Indian Rocks Road, Largo 727-595-2073</td>
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<td>Willow Tree Nursery</td>
<td>4401 49th St. N, St. Petersburg 727-522-2594</td>
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Click on [Twitter link] to get map directions and hours of operation.
2012 February Dates to Remember
Thank You, Volunteers!!

- **Saturday February 6** County Volunteer Appreciation Luncheon. 12noon to 2pm rsvp required.
- **Wednesday February 8th** (9am-12ish). Volunteer and Mycologist, Dusty Purcell. Some common fungi you may encounter in your every day work in the garden/landscape.

Volunteers at work!

Have you noticed? The lobby pond has a new blooming orchard look decorated by Terry Berube our MG orchid expert. She grows them, cares for them, and teaches how to do the same.

Thanks Terry for your hard work, even the KOI were watching you.

**MG Plant Clinic at the Palm Harbor Library –Wednesdays from 10 a.m. to 2 p.m.**
Master Gardeners offer diagnostic services along with information about identifying plants, treatment for insects and ideas for Florida-Friendly landscaping.

For details on some of the events listed go to the calendar on the Pinellas County Extension Lawn & Garden website: [http://www.pinellascounty.org/scripts/publish/webevent.pl?](http://www.pinellascounty.org/scripts/publish/webevent.pl?)