

# Roots & Shoots



*Images courtesy RGRP galleries*

October 2011

## Roots & Shoots

In this edition:

MG Update

Diggings

Design Charrette

Critter Jitters

Monarch Watch Butterfly Garden

And many more!!

Cover by Kirsten Carter

**EDITOR:** Vineetha Kartha  
**ASSOCIATE EDITOR:** Carlene Warner  
**COPY EDITORS:** Meg Paterson, Karen Sankman  
**CALENDAR:** Karen Sankman  
**WEBSITE QUESTIONS:** Kristen Wagner 602/827-8200 x311  
**USPS MAIL QUESTIONS:** Debbie Mauldin 602/827-8200 x308

Deadline is the 18th of the month prior.

Roots & Shoots, published monthly by & for  
Maricopa Co. Master Gardeners, is printed under the direction of:

THE UNIVERSITY OF ARIZONA COOPERATIVE EXTENSION  
MARICOPA COUNTY OFFICE

4341 E. BROADWAY RD. / PHOENIX, AZ 85040-8807  
PHONE 602.827.8200 FAX 602.827.8292

HOURS: 8:00AM-5:00PM WEEKDAYS

[maricopamastergardeners.org](http://maricopamastergardeners.org)

STAFF:

**Kelly Young, Assistant Agent, ANR/Urban Horticulture**

**602-827-8200 x319, [kyoung@cals.arizona.edu](mailto:kyoung@cals.arizona.edu)**

**Kristen Wagner, Program Coordinator, Sr.**

**602-827-8200 x311 / [krwagner@cals.arizona.edu](mailto:krwagner@cals.arizona.edu)**

**Debbie Mauldin, Admin. Ass't**

**602/827-8200 x308 / [dmauldin@cals.arizona.edu](mailto:dmauldin@cals.arizona.edu)**

Maricopa County



Master Gardeners

### MG CONTACT LIST:

For a complete listing, see the organizational chart under MG Business on the MG Central website

**East Valley Satellite:** Jackie Rensel -----480-821-5226  
Carl Rutherford ----- 480-325-1469

Director at Large: Vacant  
Educational Materials: Vacant

**NE Valley Satellite:** Debbie Lyding ----- 602-789-7377  
MG Support: Cherie Czaplicki 623-975-5397

Demonstration Garden: Pam Perry 602-279-6250  
Public Events: Vacant

**NW Valley Satellite:** Marianna Hancin -----623-566-1737  
Kris Coates -----623-915-3337  
Helen Zinn ----- 623-271-7518

Public Training: Jim Oravetz 623-584-6068

### SATELLITE OFFICES:

**EAST VALLEY: 480-985-0338**  
Red Mtn. Multi-Generational Center  
7550 E. Adobe  
Mesa, AZ 85207  
Mon. & Thurs. 9:00a.m.-Noon

**NORTHEAST VALLEY: 480-312-5810**  
Via Linda Senior Center  
10440 E Via Linda  
Scottsdale, AZ 85258-6099  
Mon. 9 -12:30 p.m.; Thurs. 9 -4 p.m.

**NORTHWEST VALLEY: 623-546-1672**  
PORA Office  
13815 Camino del Sol Blvd  
Sun City West, AZ 85375  
Weekdays 9:00a.m.-Noon

The University of Arizona is an equal opportunity, affirmative action institution. The University does not discriminate on the basis of race, color, religion, sex, national origin, age, disability, veteran status, or sexual orientation in its programs and activities. Persons with a disability may request a reasonable accommodation, such as a sign language interpreter, by contacting Kristen Wagner, Program Coordinator, at [krwagner@cals.arizona.edu](mailto:krwagner@cals.arizona.edu) 602-470-8086x311. Requests should be made as early as possible to allow time to arrange the accommodation. Issued in furtherance of Cooperative Extension work, Acts of May 8 and June 30, 1914, in cooperation with the U.S. Department of Agriculture, Kirk A. Astroth, Interim Director, Cooperative Extension, College of Agriculture & Life Sciences, The University of Arizona.

## 2012 RGRP Gardens - Michelle Anderson on her "Smart" Garden



A "smart" extension of the desert that surrounds her house, Michelle's garden is a product of reflection and care. Judicious use of colors and boulders add texture and intrigue and highlights specimen plants. Recycled old concrete pots have been refurbished, and their saucers used as stepping stones. Her clever use of plant architecture with a passive water harvesting system gives you a lot to think about...

**R&S: Tell us a little about yourself and your garden.**

I have lived here since I was 3, having come out from New Hampshire. With an educational background in Agribusiness, my landscaping affinity began with the DBG Desert Landscaper School and finally MG in 2007. I started my own Landscape Design and Specialty Gardening business 3 years ago. My garden has been completely redone for the tour, primarily because the trees in the front matured and shaded out the original rock garden that was there! It was also necessary to reduce the lawn by two thirds to be more water conscious.

**R&S: What inspired you to offer your garden for the RGRP tour this year?**

There is nothing like a deadline to get your garden projects completed! My husband Art and I needed the additional motivation to get after it! I knew it would work, and now all four sides of the house is almost finished!!!

**R&S: Tell us a little about your garden responsibilities and daily routine?**

Mostly just keeping the weeds out! I have planted low maintenance plants so that I don't have to be pruning or deadheading. My daily routine includes checking on my veggies and watering pots.

**R&S: What are you excited to spotlight about your garden for the RGRP tour visitors?**

I want to show that there are many ways to have color in your garden. Painted walls, mosaics, colorful furniture are all ways to enhance the color experience that lasts year-round! The passive water harvesting we have is easy for anyone to implement and the trees really benefit from it. Because we have dogs you will notice that the backyard is planted with a completely different plant palette than the front.

**R&S: What advice would you give to gardeners who want to create a garden such as yours?**

Start with thoughtful design, focusing on how you want to use your space. Spend time on the design, don't just start planting! It is critical to pick the right plant for the right space, because otherwise you are setting yourself up to redo in just a few years, or added pruning chores to keep things in a space that is too small for their mature size. The design process will make or break the success of the finished product, so take your time and ask questions.

**R&S: What in your opinion is the importance of the RGRP tour for the master gardeners?**

This tour enables the program to educate the public on the appropriate use of grass, desert adapted plants, and creative uses of recycled materials. It's also a good way to encourage others to join the program! If you would like to volunteer for the RGRP tours, please contact Ellen Bachman at [ellenjb731@gmail.com](mailto:ellenjb731@gmail.com).

**WHO: Kirti Mathura**

Many of us know Kirti Mathura from her classes at the Desert Botanical Garden, as well as her participation in Master Gardener and Arizona Herb Society events. She is a wonderful teacher and horticulturist. Kirti is currently the Senior Garden Coordinator at Singh Farms in Scottsdale. She worked at the Desert Botanical Garden in Phoenix in different capacities for over 17 years, after serving six years as a Garden volunteer. She is involved in various local and national plant organizations and enjoys sharing gardening information in many different formats.

Kirti is the author of a unique gardening guide, *The Arizona Low Desert Flower Garden: A Seasonal Guide to Bloom, Height, Color, and Texture*. Hopefully she will bring some copies to the Update. She has also contributed to various landscaping and gardening publications, including *Desert Landscaping for Beginners*, published by our own Arizona Master Gardener Press.

**WHAT: Edible Landscaping**

A bountiful harvest doesn't have to be limited to a traditional vegetable garden. Together we'll explore different options to creating a sustainable and productive yard. You'll find that many desert trees and shrubs commonly used in landscapes provide edibles. These can be intermingled with more commonly grown vegetables and fruits to create fabulous outdoor settings that could be the envy of your neighborhood.

This theme can tie together a nice variety of plants. This update presents a very good opportunity to learn how to group plants for plant health and design. Please come and welcome Kirti and be prepared to be inspired.

**WHEN: October 12, Wednesday morning, 9:00 am**

**WHERE: at the Maricopa County Cooperative Extension, 4341 E. Broadway Rd., Phoenix**

**Scorched...**  
*By Carol Andrews*



When we arrived at Boyce Thompson Arboretum in September we could see how close the Picket fire came to consuming decades of work. Fire, no matter by man or nature is all consuming and we need to be prepared whether at home or in a natural setting. Fortunately, the fire service had a plan of action, prepared a year in advance by the Globe Ranger District. Fast action kept the fire at bay. The District was knowledgeable of all water resources, access points and trail systems. Within 35 minutes all 500 hundred visitors of the day had been evacuated from the site and ready for emergency vehicles. I was witness to the aftermath, some of the charred remains but also of the regrowth that had already begun. The earth has a remarkable way to rebound if not damaged too severely.

*Images courtesy Carol Andrews*

## Diggings in the Garden

by Pam Perry

Greetings gardeners! What a wonderful September we've had. Plants that have not died outright of heat and sun stress are beginning to look like they might actually live! The native hibiscus purchased last year at the DBG plant sale did more than just survive; it has finally flowered! The hibiscus has lovely creamy yellow flowers with red throats. I anticipate planting this into a sunny, well drained garden spot! We keep taste testing the summer greens crops. Several are still doing well. The hibiscus sabdariffa is beginning to bloom as is the Melokhia, or *Chorchorus olitorius*. Purslane responds to shearing, and the weedy one continues to sprout and grow as well.

Around the grounds the Rare Fruit growers are stock piling lots of interesting plants for fall plant sales. This year they host their annual convention in Tempe, with international presenters. Contact information is included in the calendar at the end of Roots and Shoots, along with meeting information. Deb Sparrow has joined us some Tuesday mornings. While weeding near the front door she helped us identify *Kallstroemia grandiflora*, also known as Arizona poppy. This little summer wildflower popped up among the stones in the path near the big pine tree! Naked ladies, *Amaryllis belladonna* L. were sighted blooming in the bulb garden. Ron Brennan has been busy on the grounds monitoring irrigation; thank you, thank you! Interns guided by members of the Arizona Herb Association did some ambitious pruning and cleaning in the herb garden as preparation for lots of planting come the first Saturday in October! The *Merrimia* in the perennial garden is recovering slowly from the hard frost this last winter, and is blooming enthusiastically. Sharon Dewey has led volunteers in soil preparation at the turf plots, as they anticipate new sod any day now. Even for turf, soil prep is useful, and impacts how water drains!

Sweet potatoes are taking up more and more real estate, and I have felt a few smallish tubers as I scratch around the crowns. Corn in the garden is silking. About 3 weeks from now we will see how far along the ears have developed. Cukes planted on the 13<sup>th</sup> got a gentle rain and sprouted, while carrots are peaking out, too. We are amending soil in the demo garden as quickly as the compost has broken down enough to incorporate! We left two tomatoes in the garden, the Cherokee Purple and a Sungold, to see what sort of a fall crop we might get. Fall eventually brings day and evening temperatures of 95/55 degrees. This is the window of opportunity for tomatoes to set fruit. If we have no early frosts, some tomatoes even ripen! Peppers were uncovered after a lovely summer spent under 30% shade cloth, and there are already buds for the future pepper crop. They too are more prolific when the daytime temperatures are not triple digits.

My fingers are itching to plant right now! Peas, and other fall planted legumes, Brassicas, lettuces, root crops, and all the green and leafy fall veggies can be planted, as well as garlic, onions, leeks, and artichoke plants. I am sure I missed something, so refer to the full list of fall planted vegetables and planting windows in AZ 1005, the vegetable planting calendar. Should you run out of space, all is not lost; the planting windows for many of these fall planted crops are wide open, allowing time to prepare more garden space and plant well into late winter!

Get gardening! Fall is a great time for planting other edibles: fall planted herbs, trees, small fruits, even some tropical's. New plants should be protected from hard freezing, and watered regularly. Make sure your water runs long enough to soak the soil deeper than the root ball, and in a wide enough circle around the root ball to encourage abundant root growth during the lovely, cool fall. Frequency of irrigation changes as days get shorter and cooler. Let several days pass between irrigations, but do water as deeply! In the Demo Vegetable Garden this year we are going to plant the three small wooden raised beds as a small family sized vegetable garden to help gardeners visualize how to use raised beds at home. Out in the rest of the growing area, I have found a couple different mustards, two new large leafed spinaches, and a Savoy cabbage. We have a heat tolerant romaine developed in Israel to plant later this spring. We will see just how heat tolerant it will be! Mmmm good! Something new and different!

## Design Charrette

The October Design Charrette will be held at the south Chandler home of Mary and Dan Bossler from 9 AM to noon on Saturday, October 15, 2011. Everyone is welcome, whether you're an Intern or a very experienced Master Gardener; we all have ideas to contribute. We will work in four teams of three to develop the designs that will be presented to Mary and Dan. The design session is always followed by a potluck lunch which usually commences at 11:30. Here is what Mary and Dan have to say about their yard:

*"Although featured in a past Real Gardens for Real People Tour, our garden is ready for some TLC, rejuvenation, and a cohesive plan. We've lost accent plants to scorching southwest sun, and a shade tree to freezing. Some spots are overgrown, some are bare. And some ideas just didn't work out. Themes we are interested in are: native and desert adapted plants, edibles wherever possible, wildlife-friendly habitat, and an informal, natural look with lots of color!*

*We have something for everyone...a hot front yard that could go more native, a dry shady courtyard and fish pond under a huge Palo Verde, an evolving edible oasis by the pool where we would like to add a water feature and screening, and two side yards with raised beds where we would love to grow a food forest, more fruits, and vegetables. Oh yes, and we have two teenage sons and two outdoor kitties who enjoy the garden with us. The challenge is to pull all these areas together without looking disjointed!*

*If you'd like to help us out, we would love to see you on the 15th under our tree!"*

If you would like to reserve a place in this Charrette, please e-mail us at [designcharrette@hotmail.com](mailto:designcharrette@hotmail.com) or call Beth Kirkpatrick at [480-275-4833](tel:480-275-4833). The Charrettes are limited to 12 participants.

### What is a Design Charrette...And How Can I Participate?

A Design Charrette is a forum hosted by a Master Gardener to develop design ideas for a chosen landscape. As a Master Gardener, you can host a Charrette for your own property or any other. This is a 3-hour event that includes a tour of the grounds, potluck and design discussion. The number of attendees is usually limited to 12.

**HOSTS:** Receive the benefit of free design ideas. As the host, you will provide a tour of your property which includes plant identification and information, researched or experimental. The host provides a letter of intent for the property that prioritizes goals, needs and problems to be solved. A simple drawing of the property must also be provided to the group to use in their landscape design. Lastly, the host provides cups, plates, utensils, napkins and water. Guests will bring the food.

**GUESTS:** No formal landscape design education is required. But we do require that you bring your imagination! Come; enjoy the garden tour, plant identification and the opportunity to learn from fellow Master Gardeners as we share our design ideas. Each guest will need to bring a potluck dish. Design Charrettes are held on Saturday mornings and the date is determined by the host and Design Charrette team. If you are interested in hosting a Design Charrette or have any questions, please contact us at: [designcharrette@hotmail.com](mailto:designcharrette@hotmail.com)

### Your Design Charrette Team

**Beth Kirkpatrick, Sue Lanker, and Matt Murman**

Traveling Gardener, wandering, wondering, noticing...  
Getty's Garden

by Linda Larson

*" Gardening, more than architecture, more than painting, more than music, and far more than literature, is an ephemeral art; its masterpieces disappear leaving little trace."*

History of Garden Design

Garden history rarely makes it into schoolbooks even though it tells a rich and colorful story of cultural progress. Throughout time people seek food, health, beauty, and pleasure. Gardens don't exist in cultures that must spend all of their energy to survive. Gardens evolve as citizens have leisure time.

Patrick Bowe, author of *Gardens of the Roman World* writes, "Our knowledge of Roman gardens is based on four sources: literary testimony, archaeological evidence, pictorial records and horticultural traditions." Ancient Romans were farmers and the records of Pliny, both the elder and the younger, left extensive written materials about horticulture of the time. The eruption of Mt. Vesuvius in 79 AD preserved the evidence of Roman gardens in daily life. Archeology dig discoveries continue to reveal more information to this day. Wall murals and mosaics found in ruins provide pictorial evidence of plants and garden scenes of the era. What we consider common horticultural practices of raised beds, pots, trellis and cisterns are found in ancient Roman gardens.

The Getty Villa in Pacific Palisades, CA recreates an Italian Villa engulfed by Vesuvius, the Villa de Papyri, owned by Julius Caesar's father in law. Built to display J.P. Getty's collection of Greek, Roman & Etruscan antiquities, the garden is an integral part of the villa. While it might be a fascinating adventure to tour the ruins of Herculaneum & Pompeii, it is no less fascinating to visit the Getty Villa to see garden ideas from the Roman Empire as relevant today as they were then.

Most visitors come to see the collections inside rather than the gardens. Yet the gardens are a dazzling display of life in a villa during the height of Roman gardening. The gardens tour by Villa docents gives a greater understanding of the importance of gardens in ancient times.

In the entryway an Atrium open to the sky provides natural light while a reflecting pool collects rainwater connected to an underground cistern. The Villa demonstrates a bounded garden designed to protect residents from noise, dust, wind and beasts.

Walking through the main living space of the Villa you enter into the central courtyard, a cool and colorful garden space designed



## Roots & Shoots

### Traveling Gardener Continued...

for socializing, pleasure, and outdoor dining. A central water feature is more than a visual treat; it is functional too - placed so plants can easily be watered. The symmetry of Italian architecture is seen in the formal garden as plantings on one side of the garden are repeated on the other. The wings of the house surround the inner peristyle or covered walkway.

The gardens are filled with old, yet very familiar plants, based on the findings of the fossilized plants found in the ruins of Pompeii. The Boxwood hedges create shapes and give symmetry in many areas. Plane trees (aka sycamore) provide shade. The Laurel tree, whose wreath of leaves symbolized victory, holds a special place in the garden. Pomegranates, figs, apples, peaches, pears, quince and grapes provide fruit and wine for the table. Deep pink flowers blossom in Oleanders, Rose Campion, Lambs Ears (whose leaves were used for bandages) and Damask Roses. Many herbs are grown for food and medical needs. The plants hold symbolic value as well: Rosemary, a symbol of love and friendship, Lavender, a symbol of wealth and used for masking odors, Bears Breeches, a symbol of immortality. Olive trees long grown for their precious oil are essential to Roman life. Over 300 ancient plant varieties fill the five Getty garden spaces linking the ancient and modern worlds.



We can appreciate the emphasis of exercise and invigorating spaces that the Romans cultivated. At the Villa, the outer peristyle surrounds a 200' long reflecting pool ringed by a footpath like those used for exercise in the ancient gardens. Symmetrical formal gardens continue in this space with mosaics and murals illustrating trees, birds, fruits and vines to expand the sense of garden space around the covered walkway. Such an inviting space makes it easy to make one more lap to enjoy the beauty of this garden.

*Images by Rich Larson*

### **FALL GARDEN FESTIVAL**

October 22, 2011, 8am to 2pm  
Metro Tech High School  
1900 West Thomas Road, Phoenix

Please join us in celebrating a long standing garden fair and Phoenix tradition with the Fall Garden Festival. Metro Tech High School, Church of the Beatitudes and The University of Arizona Cooperative Extension, Maricopa County Master Gardeners will be hosting this event that draws 1,000 people a year. We will offer garden vendor booths, speakers and demonstrations, children's area, plant sales and rummage sale. Come earn Master Gardener hours with growing plants/donating seeds or volunteering in any of the different areas. We hope you will be part of the festivities!

Volunteer information: Kristen Wagner, [krwagner@cals.arizona.edu](mailto:krwagner@cals.arizona.edu), or [602-827-8200 x 311](tel:602-827-8200);  
Susan Thompson-McHugh, [stmchugh@gmail.com](mailto:stmchugh@gmail.com), or [602-604-8629](tel:602-604-8629)  
Vendor Information: Jim Dennis, [jim.dennis@cox.net](mailto:jim.dennis@cox.net), or [602-316-8434](tel:602-316-8434)  
Co-chairs: Mary Throop, [throop@phxhs.k12.az.us](mailto:throop@phxhs.k12.az.us), or [602-448-7915](tel:602-448-7915);  
Nicole Lynch, [nicole@trvllynch.com](mailto:nicole@trvllynch.com), or [602-708-6003](tel:602-708-6003).



Honey Bee

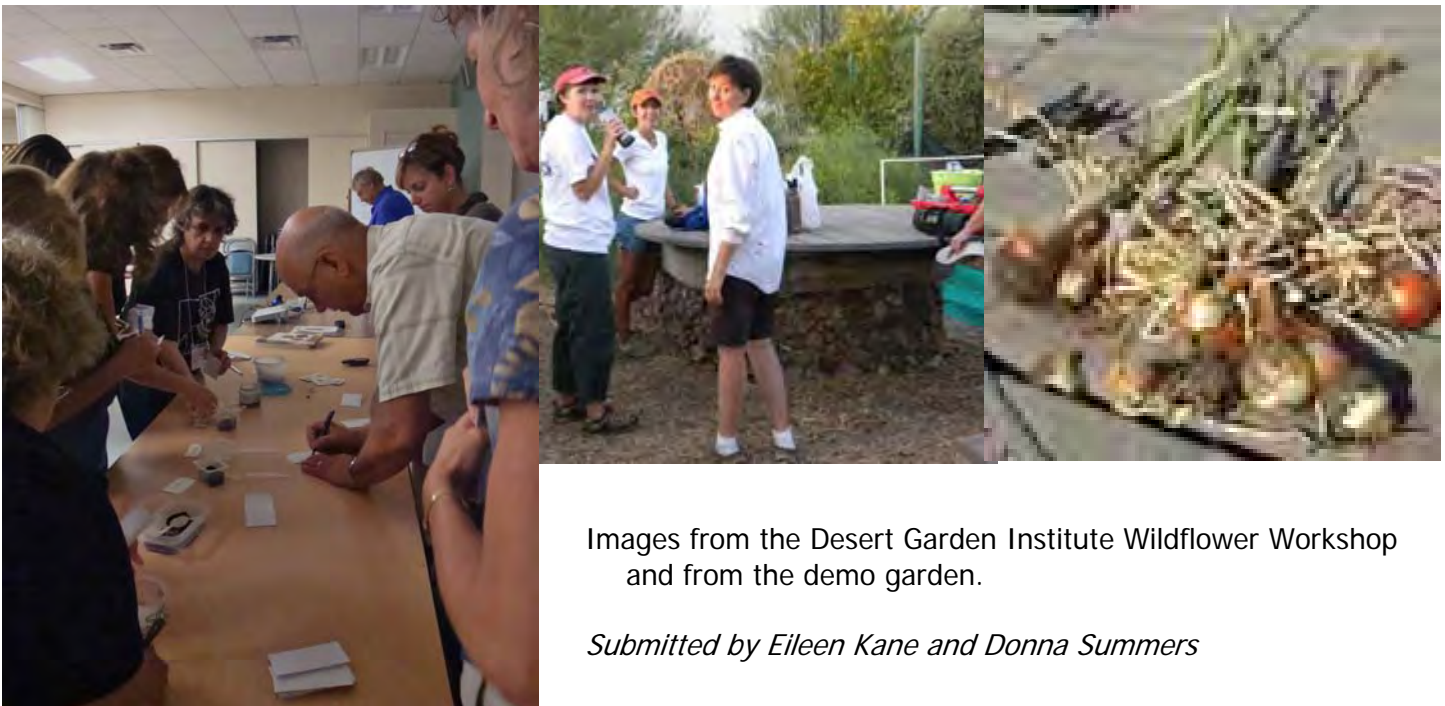
by Sue Hakala

Honey bees are not native to the United States. They were brought by immigrants from Europe to be cultivated in the New World. They have adapted to their new surroundings and spread across the U.S. When the honey bee hive is successful and becomes congested, the hive will divide. The majority of hives never reach this point. Researchers speculate that the food supply can only support a certain (unknown) number of bees making it necessary for some to move. Beekeepers enlarge their hives by moving the queen and providing a new home for just this reason.

After laying special eggs that will become new queens, the old queen leaves the hive taking about half of the bees with her. In the original hive, the first queen to emerge will search the entire hive looking for other queens, killing them. Or, with simultaneous emergings, they will fight to the death to see who will be queen of the hive. In the days that follow, the new queen will smear the hive with her scent, marking everything within it, and briefly leave the hive to mate. Then it's back to the hive to lay eggs for the rest of her life.

The departing honey bee swarm moves across the landscape looking like a fuzzy brown cloud floating by. The swarm will land allowing the scouts to survey the area looking for a suitable hive site like a crack in a wall or an old log. The queen and eggs are deep in the protecting swarm. The swarm can land on anything conforming to its shape. One swarm landed inside a flag that had looped itself around its hanger in my yard. We observed it through binoculars seeing a riling mass of brown bodies. Scouts were in the air in all directions coming and going from the swarm. After about two hours the swarm quickly moved off to its new home or moved on to another area sending out scouts again.

Bees carry honey with them so they can eat along the way and have an immediate supply at their new home. They are not very aggressive at moving time, although you shouldn't approach them closely as they appear agitated. If you find a swarm it's best to just observe from a distance keeping children and pets away. The bees don't like being exposed out in the open, usually moving on in less than 24 hours. Count yourself lucky to see this incredible sight. To keep your home from becoming theirs, make sure that all cracks and holes are sealed. If you find a permanent hive in a place you don't want it, call a professional beekeeper (see the Yellow Pages) to remove it. To see a swarm go to YouTube.com: bee swarm at strip mall.



Images from the Desert Garden Institute Wildflower Workshop and from the demo garden.

*Submitted by Eileen Kane and Donna Summers*

## Roots & Shoots

### Critter Jitters

by Jeff Ross

We have a variety of wildlife visiting our gardens and this has provided some interesting problems. It appears as though the coyotes have taken the summer off. We generally see them several times a week, but this year they have been infrequent visitors and the abundance of rabbits and ground squirrels tells the tale. We have had problems with desert gardener enemy number one which has made this an exasperating year! In the past we have dealt with the rabbits and my attitude has always been (and still remains) live and let live, but they aren't letting me live the way I want! Not only that, they have been a bad influence on the other animals such as the ground squirrels which aren't shy about venturing on to the patio! This is the first year they have done that!



The ground squirrels and the rabbits have discovered that they can hop or crawl into our large potted plants and dine at the "salad bar" whenever they care to do so. This year they became fond of our Royal Robe Potato Bush (*Lycianthes rantonnetii* 'Royal Robe'). We've tried a variety of tactics such as covering the plant with plastic netting, but the ground squirrels would find their way through. We tried raising the planter on top of another pot, but they still climbed or hopped into the plant. After contemplating many options, I had a mild brainstorm. Okay, it was just a drizzle, but in the desert that counts as a storm.



We hate working in and around the Chollas because of their very sharp spines. We have lots of fallen pieces under our Cholla plants. Why not use them to keep the critters away? We grabbed our tools and gathered the Cholla pieces in our buckets. We carefully placed the pieces around the plant with the tweezers and a pair of pliers. After a couple of days, we began to see improvement and over time we saw a great deal of improvement. This solved the problem and I am happy to report that our Potato Bush is doing very well and has some flowers. I think the critters have gotten the idea that they are not wanted. We decided to use the same tactic with our Morning Glory Bush (*Ipomea Fistulosa carnea*).



To protect our seedlings we use plastic shoeboxes with a cutout. We place netting over the cutout. Birds will eat the seedlings too if we don't take extra care. I continue to have critter jitters waiting for the next onslaught!

*A version of this post originally appeared on Gardening on the Moon, [www.gardeningonthemoon.com](http://www.gardeningonthemoon.com)*

*Images courtesy Jeff Ross*

## A Hidden Gem in the City

by CJ Johnston

I know that you've seen it, probably passed it many times and maybe even thought to yourself, what is it? Just what is behind those fences? I'm talking about the Tovrea Castle and surrounding Carraro Cactus gardens.

This is a beautiful property owned by the City of Phoenix. For the past several years the City has been restoring the Castle and surrounding gardens with plans to open this garden to the public. The Castle was the dream of Italian immigrant Alessio Carraro, who built it in the late 1920's to early 1930's. The idea was for a resort, the Castle, surrounded by the cactus garden and expanding into a resort community. Alessio never realized his full dream but did build the remarkable Castle that stands today. The property was sold to the Tovrea family in 1931 and became Della Tovrea's home here in Phoenix. The Carraro Cactus gardens were originally a densely planted collection of desert plant varieties. The gardens started to deteriorate and once the property was left unused by Della Tovreas' death, it fell into disrepair. The City of Phoenix purchased the property in 1993 along with 7 1/2 acres all around the structure. Between 1996 and 2003 the City acquired the additional 36 acres that is the property as we know it now, making the total 44 acres of desert gardens. The property has been listed on the National Register of Historic Places since 1996. The Garden is being restored and maintained with a master plan looking at the present and into the future. There are plans to have



an interpretive trail that will be a time line from the Garden's glory days, through the tough times and into the present. With several thousand plants of many varieties the Garden is a feast for the eyes, an oasis in our desert city if you will. Due to budget restrictions the City had to close the garden to public tours but thanks to a few dedicated volunteers the garden restoration has continued through the Tovrea Carraro Society. The City has been able to continue with construction of a Visitors center and there are plans to open the Garden to tours again soon.

The Carraro garden also offers great opportunities for the Master Gardeners to volunteer their time. With the budget constraints the City is under it has had to cut the Garden staff, and volunteers are doing the majority of the work getting the gardens ready for the public tours. Here is an opportunity to work up close and personal with these beautiful plants, even if they do have just a few thorns. The Tovrea Carraro Society is looking to have this property open as a Gem in the City where the public can gather, come to events and share this great space all the while learning about the desert flora. Tours will be conducted and knowledgeable volunteers are always needed to help visitors learn about our beautiful desert. There are always opportunities to work "behind the scenes" as a gardener that helps to make the Garden beautiful and enjoyable for the visitor. Many of us were once new to this area and like our visitors unaware of how beautiful the desert can be. How great to share with them and help them to love and understand the desert as so many of us do now.

*Images courtesy CJ Johnston*

## Roots & Shoots

### Monarch Watch Butterfly Garden

by Gail Morris

Monarch Watch at University of Kansas is celebrating a big anniversary this year: 20 years of creating and preserving monarch butterfly habitats and tagging monarch butterflies on their migration. At the beginning of September my husband, Bob, and I visited the campus at their annual Open House. Dr. Chip Taylor, Director of Monarch Watch, gave us a tour of their facilities – then immediately put us to work preparing for the big event!

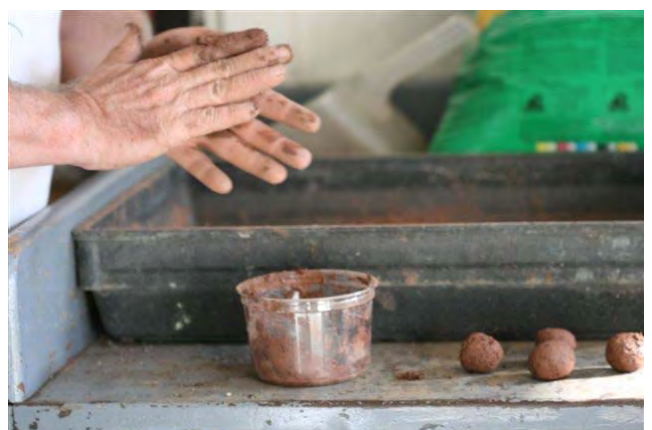
The butterfly garden at KU was created and maintained by Douglas County Master Gardeners. The dedicated area is large, abundant and lush, and their selection of plants makes it a butterfly paradise. Milkweed in the *Asclepias* family is crucial to the life-cycle of the monarch butterfly. Female monarchs only lay their eggs on it, and monarch larvae (caterpillars) only feed on milkweeds. There are 108 species of milkweed in North America, but Monarchs only use 30 of them. A healthy butterfly garden is inviting to many species, so host plants are not limited to monarchs, but milkweeds definitely ruled!

An adult butterfly's only source of nutrition is nectar, so the Monarch Watch garden is filled with huge stands of zinnias, sunflowers, asters, goldenrod and more. Interestingly, milkweed is a good nectar source for many other butterflies, too, so we could usually see a variety of "wings and things" nearby. Throughout the summer season there is always something in bloom. The key to success is avoiding monocultures. This abundant nectar banquet is a living proof of pollinators in action as butterflies, bees and hummingbirds grace the area.

During the Open House, local Master Gardeners were on hand to answer questions of what to plant and where to plant it. Like many parts of the Sonoran Desert, the Lawrence, Kansas area has hard clay soils, a challenge for local gardeners. Monarch Watch developed Monarch Way Station brochures that encourage planting milkweeds and made them available to the public as they walked the garden.

There was much more to the day than watching butterflies in action. Visitors had the opportunity to make seed balls to take home and toss in their yard or a nearby field. The day before the Open House, Bob helped create the Monarch Watch Seed Ball Mix by combining dry ingredients. On the morning of the event we added water and anyone who wanted to play in the mud could form their own seed balls to take home. Here is the recipe:

- Combine 2 parts mixed seeds (indigenous milkweed



## Monarch Watch Continued...

seeds, flowers, herbs or vegetables) with 3 parts compost.

- Stir in 5 parts powdered red or brown clay.
- Moisten with water until mixture is damp enough to mold into balls.
- Pinch off a penny-sized piece of the clay mixture and roll it between the palms of your hands until it forms a tight ball (1 inch in diameter).
- Set the balls on newspaper and allow to dry for 24 - 48 hours. Store in a cool, dry place until ready to sow.

The day after the Open House, Bob and I visited the nearby Baker Wetlands where monarchs were just arriving on their migration south to Mexico. We found vast rolling fields of yellow Bidens and monarch butterflies. As we netted and tagged some of the monarchs, I noticed the pollen on their feet – a treat to see and a reminder of the important role butterflies play in our gardens.

*Images courtesy Gail Morris*

## Carl S Jr. Botanical Garden

by Deborah Coy

Most vacationers to Seattle make a point of visiting the Hiram M. Chittenden Locks. The locks completed in 1917 became a link between freshwater ecosystem of Lake Washington and the potentially damaging saltwater of Puget Sound. It will accommodate ships as large as 760 ft. to travel between the two waterways and allow the Salmon to migrate via fish ladder. Yet, another vision was seen for the area. When the locks were completed in 1917, the area to the north of the locks was gravel and rocks. By the 1930's it was rolling lawns dotted by trees and these were the beginnings of the Carl S. English Jr. Botanical Gardens.

The first gardener was Mr. McCarthy who planted a row of Lombardy poplars along the northern border of the property in the 1920s. These trees created the windbreak that allowed non-indigenous plants grow. Carl S. English Jr. joined the Army Corp of Engineers staff in 1931 and over the next 43 years with his vision, he transformed the grounds into a botanical garden with plants from all over the world. English took his love of gardening and developed a collection of over 500 different species and 1,500 varieties of trees, shrubs, and herbaceous plants. The garden is a combination of exotic species from all over the world intermingled with native plants. It was officially named in his honor in 1974 as a tribute for creating a unique showplace for the U.S. Army Corps of Engineers.

My visit to the garden was mystic. I began my official tour just outside the entrance and followed the path. Flowers were in bloom wherever I turned. I saw unusual trees and fauna from all over the world. It was almost hard to believe that many of these majestic and beautiful plants were all grown from a single seed or small sample. The best way to enjoy the full beauty of the garden is to walk in through the nursery area. The visitor center is happy to supply you with handouts and walking tours to enjoy the full beauty of the garden.

The nursery area is managed by Michael Fleming, Horticulturist who has the mission to grow young plants to become adjusted to the new climate where they will replace existing plants growing in the garden. The preservation of the plants at this garden depend mainly on propagation activities performed by the staff. Seeds and cuttings are started out in the greenhouse, the strongest are moved into cold frames, and within one year are relocated to the nursery and remain until needed in the garden. The Pines (Pinus) represent several coniferous forests from around the world-Mexican yellowpine, grey pine, Bristlecone pine and Himalyan white pine. And throughout the garden you see Redwoods, Buckeyes and Horse Chestnuts (Aesculus), Oaks (quercus), Cedars (Cedrus). If you happen to get to Seattle, by all means stop by and see the locks and fish ladders, but remember to make plenty of time to stroll through the garden.

Do you struggle with the desire to garden, but you have limited arable land? Are you limited to only a small patio or deck? Are you a horticultural “explorer” who yearns to try new plants, but only has room for the basics? Are you currently stuck in the “horizontal rows only” paradigm? Try growing up, not out with the ideas presented in Derek Fell’s *Vertical Gardening*. He explains what vertical gardening is, why it is beneficial, how to go about it, and gives a variety of plant possibilities to “whet your gardening appetite.” In this article, I will share some of his ideas with you.

Vertical gardening is gardening using upright structures and frames to allow plants to grow vertically, instead of taking up valuable gardening space needed for other plants. Some of the structures that can be used include trellises, arches, pergolas, arbors, tiered planters, teepees, towers, and scaffolds. Walls are used for espaliers, and even living trees, or tall plants, such as corn or sunflowers are used to give climbing plants platforms for hooking or twining as they reach up to the sun. “Form follows function” is a principle known in the building trades, and is a good principle to consider as you let your imagination soar in creating your own haven. You can buy structures pre-made at home-improvement stores, nurseries, and even antique stores, or you can try out your own skills in building structures. Mr. Fell gives directions for a simple frame that he uses in his gardens, and includes several photographs of other vertically enhancing structures.

Four of the benefits mentioned in Mr. Fell’s book include: space, cost, less chance of compacting your soil, and ease of tending/harvesting. With vertical gardening, you need only small bed space, say 4ft. x 2 ft. You can grow four different plants in this space, using one trellis. The beds need only be as large as the root systems of your chosen plants. Also, with smaller beds, if you have the room, you can put in more beds to try many more plants than you could with the traditional long-row system. The smaller beds are also more practical if you only have a small area, like a patio or balcony, available. Another way of doing vertical gardening is to use hanging baskets (gardening “top-down”). You can invest in high-priced, ready-made structures if you desire, but you can also rig up a simple, functional structure, such as a trellis, with bamboo canes, pvc. piping, or soft-wood lumber (pine), and tack netting, chicken-wire, or string. No one likes the backbreaking work of digging heavy, compacted soil. Using smaller beds means you can garden without even stepping on the growing area yourself, never mind big heavy machines often used with long rows (tillers, tractors,). Roots thrive when they have room to roam without the stress of being squished. There is also room for more air molecules and better drainage. Happy roots make happy plants. Growing vertically allows you to have your crops growing where you can reach them without all the bending. Harvesting at your fingertips, without hurting your knees or back is a delightful benefit if you are challenged with increasing age or physical limitations.

In the back of his book, Mr. Fell devotes chapters specifically to vegetables, fruits, ornamental vines (annual), and ornamental woody plants. He describes key growing characteristics of plants that do well with this type of gardening. He includes lists of plants that grow well in containers and hanging planters in the chapter covering these structural devices. I really enjoyed reading and reviewing the information in this book. The information was very helpful; the pictures, alluring; and the lists/descriptions will serve as handy reference guides for my future explorations in gardening. I hope they help you as well.

# October 2011 Events Calendar

Submit events to [Karen Sankman](#)

## Upcoming Events

<b>Fri Nov 4, 2011</b>	<b>Chandler Water Festival</b>	<b>8 am-2 pm, Tumbleweed Park, 745 E. Germann Rd. (McDowell Pavillion), Chandler. Volunteer Training Oct. 21 from 8 am-noon, Chandler Community Center, 745 E. Germann Rd., Chandler. Info/RSVP <a href="#">Robin Becker</a> or (480) 782-3800</b>
Sat Nov 5, 2011	Arizona Rare Fruit Growers: 2011 Festival of Fruit	8:30 am-5 pm, ASU Memorial Union, 2 <sup>nd</sup> Floor, 300 E. Apache Blvd., Tempe. \$35 through Oct. 5, \$45 after Oct. 5. <a href="#">Info/Register</a> , <a href="#">Arizona Rare Fruit Growers</a>
<b>Tue Nov 8, 2011</b>	<b>Hydroponics Made Easy</b>	<b>10 am-5 pm, Maricopa County Cooperative Extension, 4341 E. Broadway Rd., Phoenix. \$100/\$117 credit card. <a href="#">Info/Register</a></b>
Sat Nov 12, 2011	Rose Society of Glendale Garden Tour	9:30 am- 4 pm. View six beautiful gardens. \$25. <a href="#">Info/Tickets</a>
Sat Nov 19, 2011	Mesa East Valley Rose Society Show	1-3 pm, Mesa Community College, Student Center, 1833 W. Southern Ave, Mesa. <a href="#">Mesa East Valley Rose Society</a>
Sat Nov 26, 2011	West Valley Rose Society Show	1-5 pm, ASU West Campus, 4701 W. Thunderbird Rd., Glendale. <a href="#">West Valley Rose Society</a>
<b>Jan 10-May 1, 2012</b>	<b>Master Gardener Training Classes</b>	<b>9:30 am-12:30 pm, University of Arizona Eller College of Management, 16425 N. Pima Rd., Scottsdale, \$275. <a href="#">Info/Register</a></b>
Jan 21-June 10, 2012	Permaculture Design Certification Course	\$845 if paid in full by Nov. 21, 2011, otherwise \$995. <a href="#">Info/Register</a>
<b>July 10-Oct 30, 2012</b>	<b>Master Gardener Training Classes</b>	<b>9:30 am-12:30 pm, Maricopa County Cooperative Extension, 4341 E. Broadway Rd., Phoenix, \$275. <a href="#">Info/Register</a></b>
<b>October 2011</b>		
<b>Sat 1</b>	<b>Arizona Herb Association Weed and Feed</b>	<b>7 am, Maricopa County Cooperative Extension, 4341 E. Broadway Rd., Phoenix. Everyone is welcome! Fun, hands-on experience. <a href="#">Carolyn Hills</a>, <a href="#">AZ Herb Assoc</a></b>

Items in green denote an event sponsored by the Maricopa County Cooperative Extension Service, and/or an opportunity for volunteer hours. Underlined words are links to websites or e-mail addresses.

Sat 1	APS Shade Tree Workshop	8:30 am & 10:30 am, <u>Desert Botanical Garden</u> , Dorrance Hall, 1201 N. Galvin Pkwy, Phoenix. <u>Info/Register</u>
<b>Sat 1</b>	<b>Desert Garden Institute: Backyard Chickens for Your Garden</b>	<b>9 am-noon, Maricopa County Cooperative Extension, 4341 E. Broadway, Phoenix. \$25. <u>Info/Register</u></b>
Sat 1	Drip Irrigation Design	9 am-noon, <u>Desert Botanical Garden</u> , \$30 mem/\$38 non-mem. <u>Info/Register</u>
Sat 1	Landscape Plant Materials	9 am-1 pm, Tempe South Police Substation Auditorium, 8201 S. Hardy Dr., Tempe. <u>Info/Register</u>
Sat 1	How to Be a DBG Volunteer	9 am-1 pm, <u>Desert Botanical Garden</u> . <u>Info/Apply</u>
<b>Sat 1</b>	<b>Master Gardener Q&amp;A Session</b>	<b>10 am-noon, Avondale Civic Center Library, 11350 W. Civic Center Drive, Avondale. Bring plant or insect specimens for ID and advice. <u>E-mail</u> or (623) 333-2602</b>
<b>Sat 1</b>	<b>Master Gardener Q&amp;A Session</b>	<b>10 am-2 pm, Northwest Regional Library located in the Surprise Recreation Complex, 16089 N. Bullard Ave, Surprise, AZ. <u>Marianna Hancin</u>. Bring plant or insect specimens for ID and advice.</b>
Sat 1, Sun 2	Maricopa Home and Garden Show	10 am-7 pm on Sat, 10 am-5 pm on Sun, Arizona State Fairgrounds, 1826 W. McDowell Rd., Phoenix. <u>Info/Discount</u>
Sat 1	Succulent Living Wreaths	1-3 pm, <u>Desert Botanical Garden</u> , \$85 mem/\$106 non-mem. <u>Info/Register</u>
Sat 1	Bonsai of Scottsdale Meeting	1:30 pm, Granite Reef Senior Center, Rm 6, 1700 N. Granite Reef Rd, Scottsdale. <u>Pat Mitchell</u> (480) 575-5649. <u>Info</u>
Sun 2 and 9	Propagating and Cultivating Herbs	8-11 am, Singh Farms, 8900 E. Thomas Rd., Scottsdale. \$90. Register at <u>Singh Farms</u> or (480) 233-0726.
Sun 2	Ready, Set, Grow Veggies!	Noon, <u>Southwest Gardener</u> , 2809 N. 15 <sup>th</sup> Ave., Phoenix. \$35. <u>Info/Register</u>
Mon 3	Desert Pointe Garden Club Meeting	9 am-noon, Ahwatukee home. Contact for address: <u>Judy Tolbert</u> (480) 961-1768, <u>Desert Pointe Garden Club</u>
<b>Mon 3</b>	<b>Ask a Master Gardener</b>	<b>10 am-noon, Sun City Library, Bell Branch, 16828 N. 99<sup>th</sup> Ave, Sun City. Bring plant or insect specimens for ID and advice. <u>Cherie Czaplicki</u> or <u>Antje Schneider</u></b>

Items in green denote an event sponsored by the Maricopa County Cooperative Extension Service, and/or an opportunity for volunteer hours. Underlined words are links to websites or e-mail addresses.



Mon 3	Scottsdale Garden Club Meeting	11:30 am, Cottonwoods Resort, 6160 N. Scottsdale Rd., Scottsdale. RSVP for luncheon to Judy at (480) 964-4789. <a href="#">Scottsdale Garden Club</a>
Mon 3	Valley of the Sun Gardeners Meeting	6:30 pm, Valley Garden Center, 1809 N. 15 <sup>th</sup> Ave, Phoenix. <a href="#">Orvalita Hopkins</a> , <a href="#">Valley of the Sun Gardeners</a>
Mon 3	Orchid Society of AZ Meeting	7-9 pm, Arizona State Veteran Home, 4141 Herrera Way, Phoenix. <a href="#">Julie Rathbun</a> (602) 843-0223. <a href="#">Orchid Society of Arizona</a>
<b>Tue 4</b>	<b>NE Valley Satellite Diagnostic Clinic</b>	<b>10 am-noon, Via Linda Senior Center, 10440 E. Via Linda, Scottsdale. <a href="#">Debbie Lyding</a>. Bring plant or pest samples for ID and advice.</b>
<b>Tue 4</b>	<b>Tuesday in the Garden</b>	<b>6-10 am, Maricopa County Cooperative Extension, 4341 E. Broadway, Phoenix. Bring gloves and tools that you like to help with maintenance in the demo garden. <a href="#">Pam Perry</a> (602) 279-6250</b>
<b>Tue 4</b>	<b>Down to Earth Toastmasters</b>	<b>6-7:15 pm, Maricopa County Cooperative Extension, 4341 E. Broadway, Phoenix. <a href="#">Olivette Aviso</a> (480) 235-5989. <a href="#">Down to Earth Toastmasters</a></b>
Tue 4	Landscaping for Color	6:30-8:45 pm, Chandler City Hall, 175 S. Arizona Ave., 2 <sup>nd</sup> Floor, Chandler. Free to Chandler residents. <a href="#">Info/Register</a>
<b>Tue 4</b>	<b>Master Gardener Training Class</b>	<b>6:30-9:30 pm, Maricopa County Cooperative Extension, 4341 E. Broadway, Phoenix. Topic: Weed Science with <a href="#">Kelly Young</a>, Asst. Horticulture Agent</b>
Tue 4	Sun Country Iris Meeting	7 pm, Valley Garden Center, 1809 N. 15 <sup>th</sup> Ave, Phoenix. <a href="#">Ardi Kary</a> at (480) 949-0253, <a href="#">Sun Country Iris Society</a>
Tue 4	Phoenix Bonsai Society Meeting	7:30 pm, Valley Garden Center, 1809 N. 15 <sup>th</sup> Ave, Phoenix. <a href="#">Elsie Andrade</a> (602) 995-3870. <a href="#">Phoenix Bonsai Society</a>
Wed 5	Fortify Your Soil With Compost	6:30-8:30 pm, <a href="#">Desert Botanical Garden</a> , \$25 mem/\$32 non-mem. <a href="#">Info/Register</a>
<b>Thu 6</b>	<b>NW Satellite Office Diagnostic Clinic</b>	<b>10 am-noon, 13815 Camino del Sol, Sun City West. <a href="#">MaryAnn Garewal</a> (623) 546-1672. Bring plant or insect specimens for ID and advice.</b>
Thu 6	Landscape Watering 101	5:30-7:30 pm, Development & Community Services Bldg, Point of View Room, 9875 N. 85 <sup>th</sup> Ave., Peoria. Free. <a href="#">Info/Register</a>
Thu 6	Program Your Irrigation Controller	6-8:30 pm, Via Linda Senior Center, 10440 E. Via Linda, Scottsdale. Free to Scottsdale residents. <a href="#">Info/Register</a>

**Items in green denote an event sponsored by the Maricopa County Cooperative Extension Service, and/or an opportunity for volunteer hours. Underlined words are links to websites or e-mail addresses.**

Thu 6	Landscape Watering, Timers and Clocks	6:30-9 pm, Town of Gilbert Public Works, 900 E. Juniper Ave., Gilbert. Free. <a href="#">Info/Register</a>
Thu 6	Arizona Herb Association Meeting	7-9 pm, Maricopa County Cooperative Extension, 4341 E. Broadway Rd., Phoenix. <a href="#">Carolyn Hills</a> , <a href="#">AZ Herb Assoc.</a>
Thu 6	East Valley Garden Club Meeting	7-9 pm, Mesa Community College at 1833 W. Southern, Kiva Room in the basement of the Clock Tower Building. <a href="#">Judy Smith</a> (480) 539-0381, <a href="#">East Valley Garden Club</a> .
Thu 6	Rose Society of Glendale Meeting	7 pm, Glendale Women's Club, 7032 N. 56 <sup>th</sup> Ave., Glendale. <a href="#">Rose Society of Glendale</a> , <a href="#">Gerry Mahoney</a> (602) 616-3137
<b>Fri 7</b>	<b>Main Office Diagnostic Clinic</b>	<b>8 am, Maricopa County Cooperative Extension, 4341 E. Broadway, Phoenix. Bring plant or insect specimens for ID and advice.</b>
Fri 7	Desert Designers Meeting	10 am-noon, Pyle Adult Center, 655 E. Southern, Tempe. <a href="#">Wanda Collins</a> or (480) 882-2569.
Fri 7	Eat Your Herbs	6-8:30 pm, Singh Farms, 8900 E. Thomas Rd., Scottsdale. \$55. Register at <a href="#">Singh Farms</a> or (480) 233-0726.
Sat 8 thru Fri 23	Fall Plant Sale	<a href="#">Boyce Thompson Arboretum</a> , 37615 U.S. Highway 60, Superior, AZ. <a href="#">Info</a>
Sat 8	Phoenix Pond Society Meeting	9 am, Member home. Contact for address: <a href="#">Dave Nelson</a> (480) 357-7205. <a href="#">Phoenix Pond Society</a>
Sat 8	Flowers for Fall Gardens-Collage Garden	9 am, <a href="#">Gardener's World</a> , 3401 E. Baseline Rd., Phoenix. Free, Reservations at (602) 437-0700
Sat 8	Drip Irrigation Design, Installation, Maintenance	9 am-1 pm, Tempe South Police Substation Auditorium, 8201 S. Hardy Dr., Tempe. <a href="#">Info/Register</a>
Sat 8	Iris Rhizome Sale	9 am-2 pm, <a href="#">Gardener's World</a> , 3401 E. Baseline Rd., Phoenix. <a href="#">Sun Country Iris Society</a>
Sat 8	Iris Rhizome Sale	9 am-2 pm, A&P Nursery, 2601 E. Baseline Rd., Gilbert. <a href="#">Sun Country Iris Society</a>
Sat 8	Sunrise Garden Club Meeting	9:30 am, Member home in Tempe. Contact for address: Julie at (480) 838-2414.
<b>Sat 8</b>	<b>Master Gardener Q&amp;A Session</b>	<b>10 am-noon, Avondale Civic Center Library, 11350 W. Civic Center Drive, Avondale. Bring plant or insect specimens for ID and advice. <a href="#">E-mail</a> or (623) 333-2602.</b>

Items in green denote an event sponsored by the Maricopa County Cooperative Extension Service, and/or an opportunity for volunteer hours. Underlined words are links to websites or e-mail addresses.

Sat 8	Fall Herbs and Vegetables	10:30 am, <u>Gardener's World</u> , 3401 E. Baseline Rd., Phoenix. Free, Reservations at (602) 437-0700
Sat 8	Drip Irrigation Design and Installation	10:30 am-1 pm, Mustang Library, 10101 N. 90 <sup>th</sup> St., Scottsdale. Free to Scottsdale residents. <u>Info/Register</u>
<b>Sat 8</b>	<b>Ask a Master Gardener</b>	<b>10:30 am-1:30 pm, White Tank Branch Library, 20304 W. White Tank Mountain Rd, Waddell. Bring plant or insect specimens for ID and advice. <u>Angie Tatum (623) 882-7976</u></b>
Sat 8	Iris Planting and Care	11:30 am, <u>Gardener's World</u> , 3401 E. Baseline Rd., Phoenix. Free, Reservations at (602) 437-0700
Sat 8	Edible/Medicinal Desert Plant Guided Walk	1:30 pm, <u>Boyce Thompson Arboretum</u> , 37615 U.S. Highway 60, Superior, AZ. Learn about native desert plants have fed, clothed, and healed indigenous peoples for a millennia. <u>Info</u>
Sat 8	Rose Gardening in the Desert	3 pm, <u>Southwest Gardener</u> , 2809 N. 15 <sup>th</sup> Ave., Phoenix. Free. <u>Info/Register</u>
Sun 9	Iris Rhizome Sale	9 am-2 pm, The Stock Shop, 6615 W. Thunderbird, Glendale. <u>Sun Country Iris Society</u>
Sun 9	Mesquite Flour Class	10:30 am, <u>Boyce Thompson Arboretum</u> , 37615 U.S. Highway 60, Superior, AZ. Free with admission. <u>Info</u>
Sun 9	Fall/Winter Veggie Plant Sale	12-3 pm, <u>Southwest Gardener</u> , 2809 N. 15 <sup>th</sup> Ave., Phoenix. <u>Info</u>
Tue 11	Desert Sun African Violet Society Meeting	10 am, for location contact: <u>Ann Stoetzer (623) 872-9020</u> . <u>Desert Sun African Violet Society</u>
<b>Tue 11</b>	<b>Tuesday in the Garden</b>	<b>3 pm-dusk, Maricopa County Cooperative Extension, 4341 E. Broadway, Phoenix. Bring gloves and tools that you like to help with maintenance in the demo garden. <u>Pam Perry (602) 279-6250</u></b>
<b>Tue 11</b>	<b>RGRP Meeting</b>	<b>4:30-6:30 pm, Maricopa County Cooperative Extension, 4341 E. Broadway, Phoenix. <u>Beth Kirkpatrick</u></b>
Tue 11	Phoenix Permaculture: Watering Systems for Yard and Gardens	6:30-8 pm, Practical Art, 5070 N. Central Ave., Phoenix. \$15 donation. <u>Info/Register</u>
<b>Tue 11</b>	<b>Master Gardener Training Class</b>	<b>6:30-9:30 pm, Maricopa County Cooperative Extension, 4341 E. Broadway, Phoenix. Topic: Turf Management with Sharon Dewey, Instructional Specialist</b>

Items in green denote an event sponsored by the Maricopa County Cooperative Extension Service, and/or an opportunity for volunteer hours. Underlined words are links to websites or e-mail addresses.

Tue 11	Arizona Native Plant Society Meeting	7-9 pm, Webster Auditorium at <u>Desert Botanical Garden</u> . <u>Arizona Native Plant Society</u> , <u>Mike Plagens</u>
Tue 11	West Valley Rose Society Meeting	7 pm, Landscape Mart, 8028 W. Thunderbird Rd, Peoria, AZ <u>Heidi Leavitt</u> (602) 971-0179, <u>West Valley Rose Society</u>
Tue 11	Phoenix Bonsai Society Meeting	7:30 pm, Valley Garden Center, 1809 N. 15 <sup>th</sup> Ave, Phoenix. Elsie Andrade (602) 995-3870. <u>Phoenix Bonsai Society</u>
Wed12	New River Gourd Patch Meeting	8:30 am-1 pm, Pioneer RV Park, 36408 N. Black Canyon Hwy, Phoenix. <u>Karen Friend</u>
<b>Wed 12</b>	<b>Master Gardener Update</b>	<b>9 am-noon, Maricopa County Cooperative Extension, 4341 E. Broadway, Phoenix. Topic: Edible landscapes with Kirti Mathura. <u>Deb Sparrow</u></b>
Wed 12	Saguaro Garden Club Meeting	9:30 am, Pyle Adult Center, 655 E. Southern, Tempe. Mary Trick at (480) 829-7972.
Wed 12	All About Mint	6-9 pm, <u>Desert Botanical Garden</u> , \$30 mem/\$38 non-mem. <u>Info/Register</u>
Wed 12	Scottsdale Rose Society Meeting	7:30 pm, Eldorado Community Center, 2311 N. Miller Road, Scottsdale. <u>Michael Levitt</u> (480) 206-3806
Thu 13	Tolleson Gourd Patch Meeting	2:00-4:30 pm, Tolleson Senior Center, 9555 W. VanBuren, Tolleson, AZ. <u>Lana Hinde</u> (602) 843-9015
Thu 13	Spirit of the Desert Gourd Patch Meeting	4:30-6:30 pm, Sewing Room at the Sun Lakes Oakwood Arts & Crafts Center, 24201 S. Oakwood Blvd, Sun Lakes, AZ. <u>Sally Kiste</u> (480) 895-7638, <u>Spirit of the Desert</u>
Thu 13	Phoenix Permaculture: Fruit Tree Class	6:30-8:30 pm, Tempe Transportation Center, 200 E. 5 <sup>th</sup> St. (2 <sup>nd</sup> floor), Tempe. \$15 donation. <u>Info/Register</u>
Thu 13	Lawn Care and Installing Winter Grass	6-7 pm, Glendale Public Library, 5959 W. Brown St., Glendale. Free. <u>Info/Register</u> .
Thu 13	Plant Care in the Desert	6-8 pm, Via Linda Senior Center, 10440 E. Via Linda, Scottsdale. Free to Scottsdale residents. <u>Info/Register</u>
Thu 13	Drip Irrigation System Installation	6-8:45 pm, Chandler City Hall, 175 S. Arizona Ave., 2 <sup>nd</sup> Floor, Chandler. Free to Chandler residents. <u>Info/Register</u>
Thu 13, 27, Nov. 10	Landscape Design Basics	6-9 pm, <u>Desert Botanical Garden</u> , \$75 mem/\$94 non-mem. <u>Info/Register</u>

**Items in green denote an event sponsored by the Maricopa County Cooperative Extension Service, and/or an opportunity for volunteer hours. Underlined words are links to websites or e-mail addresses.**

Thu 13	Maximize Your Irrigation	6:30-9 pm, Town of Gilbert Public Works, 900 E. Juniper Ave., Gilbert. Free. <a href="#">Info/Register</a>
Thu 13	Mesa East Valley Rose Society Meeting	7-10 pm, Mesa Community College Library, 1833 W. Southern Ave, Mesa. (480) 807-3475. <a href="#">Mesa East Valley Rose Society</a>
Thu 13	AZ Rare Fruit Growers Meeting	7:30 pm, Palo Verde Room at Maricopa County Cooperative Extension, 4341 E. Broadway, Phoenix. <a href="#">AZ Rare Fruit</a> , <a href="#">Monte Palmer</a> (480) 688-2087
<b>Fri 14</b>	<b>Carraro Cactus Gardens Volunteer</b>	<b>7-10 am, Carraro Cactus Gardens at Tovrea Castle, 5041 E. Van Buren St, Phoenix. <a href="#">Info/Sign up</a></b>
Fri 14, 15, 16	Fall Plant Sale	7 am-5 pm on Fri, Sat., 9 am-5 pm on Sun, <a href="#">Desert Botanical Garden</a> . Friday for members only. <a href="#">Info</a>
<b>Fri 14</b>	<b>Main Office Diagnostic Clinic</b>	<b>8 am, Maricopa County Cooperative Extension, 4341 E. Broadway, Phoenix. Bring plant or insect specimens for ID and advice.</b>
Fri 14	Washington Garden Club Meeting	9:30 am, Valley Garden Center, 1809 N. 15 <sup>th</sup> Ave, Phoenix. <a href="#">Orvalita Hopkins</a> , <a href="#">Washington Garden Club</a>
Fri 14	Herb Preservation: Salts and Spices	6-8:30 pm, Singh Farms, 8900 E. Thomas Rd., Scottsdale. \$55. Register at <a href="#">Singh Farms</a> or (480) 233-0726.
<b>Sat 15</b>	<b>Mesa East Valley Rose Society Deadheaders</b>	<b>8 am, Mesa Community College Rose Garden, 1833 W. Southern Ave, Mesa. Bring gloves and pruners/shears. Training provided. <a href="#">Mike Cryer</a> , <a href="#">Deadheaders</a></b>
Sat 15	APS Shade Tree Workshop	8:30-9:30 am, Friendly House, 201 E. Durango, Phoenix. Presented in Spanish. <a href="#">Info/Register</a>
<b>Sat 15</b>	<b>Design Charrette</b>	<b>9 am-noon, Charrette at a South Chandler home. Reserve at <a href="#">Beth</a> or (480) 275-4833.</b>
Sat 15, Sun 16	Annual Orchid Show and Sale	9 am-5 pm on Sat, 9 am-3 pm on Sun, Arizona State Veteran Home, Liberty Hall, 4141 N. Herrera Way, Phoenix. Free. <a href="#">Orchid Society of Arizona Info</a>
<b>Sat15</b>	<b>Ask a Master Gardener</b>	<b>9:30 am-12:30 pm, Sunrise Mountain Library, 21109 N. 98<sup>th</sup> Ave., Peoria. Bring plant or insect specimens for ID and advice. <a href="#">David Haase</a> (623) 889-5585.</b>
Sat 15	Desert Sun African Violet Society Meeting	10 am, for location contact: <a href="#">Ann Stoetzer</a> (623) 872-9020. <a href="#">Desert Sun African Violet Society</a>
<b>Sat 15</b>	<b>Master Gardener Q&amp;A Session</b>	<b>10:30-1:30 pm, Civic Center Library, 11350 W. Civic Center Drive, Avondale. Bring plant or insect specimens for ID and advice. <a href="#">George Salamunec</a></b>

Items in green denote an event sponsored by the Maricopa County Cooperative Extension Service, and/or an opportunity for volunteer hours. Underlined words are links to websites or e-mail addresses.

Sat 15	APS Shade Tree Workshop	12:30-1:30 pm, Friendly House, 201 E. Durango, Phoenix. Presented in Spanish. <a href="#">Info/Register</a>
Sat 15	Bonsai of Scottsdale Meeting	1:30 pm, Granite Reef Senior Center, Rm 6, 1700 N. Granite Reef Rd, Scottsdale. <a href="#">Pat Mitchell</a> (480) 575-5649. <a href="#">Info</a>
Sat 15	Plants of the Bible Guided Tour	1:30 pm, <a href="#">Boyce Thompson Arboretum</a> , 37615 U.S. Highway 60, Superior, AZ. Learn about botany, history, and scripture on this slow-paced walk. <a href="#">Info</a>
Sat 15, Sun 16	Phoenix Permaculture: Mesquite and Carob Milling	9 am-3 pm on Sat, 9 am-1 pm on Sun., Rio Salado Audubon Center, 3131 S. Central Ave., Phoenix. \$10 for each 5 gallon bucket of raw unmilled beans. <a href="#">Info/RSVP</a>
Sun 16	Wildflowers for Your Desert Garden	8-11 am, Singh Farms, 8900 E. Thomas Rd., Scottsdale. \$45. Register at <a href="#">Singh Farms</a> or (480) 233-0726.
Sun 16	Tree Tour	1:30 pm, <a href="#">Boyce Thompson Arboretum</a> , 37615 U.S. Highway 60, Superior, AZ. <a href="#">Info</a>
Sun 16	Phoenix Chrysanthemum Society Meeting	2-4:30 pm, member home. Contact for address: <a href="#">George Chi</a> (480) 248-7685. <a href="#">Phoenix Chrysanthemum</a>
<b>Mon 17</b>	<b>Carraro Cactus Gardens Volunteer</b>	<b>7-10 am, Carraro Cactus Gardens at Tovrea Castle, 5041 E. Van Buren St, Phoenix. <a href="#">Info/Sign up</a></b>
<b>Tue 18</b>	<b>Tuesday in the Garden</b>	<b>3 pm-dusk, Maricopa County Cooperative Extension, 4341 E. Broadway, Phoenix. Bring gloves and tools that you like to help with maintenance in the demo garden. <a href="#">Pam Perry</a> (602) 279-6250</b>
<b>Tue 18</b>	<b>Down to Earth Toastmasters</b>	<b>6-7:15 pm, Maricopa County Cooperative Extension, 4341 E. Broadway, Phoenix. <a href="#">Olivette Aviso</a> (480) 235-5989, <a href="#">Down to Earth Toastmasters</a></b>
Tue 18 and Thu 20	Environmental Challenges of Desert Gardening	6-9 pm, <a href="#">Desert Botanical Garden</a> , \$50 mem/\$62 non-mem. <a href="#">Info/Register</a>
Tue 18	Phoenix Permaculture: Container Gardening for Edibles	6:30-8 pm, Practical Art, 5070 N. Central Ave., Phoenix. \$15 donation. <a href="#">Info/Register</a>
<b>Tue 18</b>	<b>Master Gardener Training Class</b>	<b>6:30-9:30 pm, Maricopa County Cooperative Extension, 4341 E. Broadway, Phoenix. Topic: Entomology 101 with Peter Warren, Horticulture Extension Agent</b>

Items in green denote an event sponsored by the Maricopa County Cooperative Extension Service, and/or an opportunity for volunteer hours. Underlined words are links to websites or e-mail addresses.

Tue 18	Phoenix Bonsai Society Meeting	7:30 pm, Valley Garden Center, 1809 N. 15 <sup>th</sup> Ave, Phoenix. Elsie Andrade (602) 995-3870. <a href="#">Phoenix Bonsai Society</a>
Tue 18	Phoenix Rose Society Meeting	7:30 pm, Valley Garden Center, 1809 N. 15 <sup>th</sup> Ave, Phoenix. <a href="#">Phoenix Rose Society</a> , <a href="#">Jeannie Cochell</a> (602) 363-6444
Wed 19	Cultivating Roses in the Desert	10-11 am, Surprise Public Safety Building Auditorium, 14250 W. Statler Plaza, Surprise. Free for Surprise residents/\$5 non-residents.
Wed 19	Japanese Inspired Desert Landscapes	6-9 pm, <a href="#">Desert Botanical Garden</a> , \$30 mem/\$38 non-mem. <a href="#">Info/Register</a>
Wed 19	Southwest Gourd Society Meeting	7-9 pm, Maricopa County Cooperative Extension, 4341 E. Broadway Rd., Phoenix. <a href="#">Lana Hinde</a> (602) 843-9015, <a href="#">SW Gourd</a>
Thu 20, 21, 22, 23	Great Pumpkin Festival	9 am-noon on Thu and Fri, 8:30 am-3 pm on Sat and Sun, <a href="#">Desert Botanical Garden</a> , Free with admission. <a href="#">Info</a>
Thu 20	NW Valley Gourd Patch Meeting	3:30-5:30 pm, Nadaburg School, 21419 W. Dove Valley Rd in Wittmann, AZ. <a href="#">Judy Moody</a> (623) 544-6866, <a href="#">NW Valley Gourd Patch</a>
Thu 20	Shrubs for Desert Landscapes	5:30-7:30 pm, Development & Community Services Bldg, Point of View Room, 9875 N. 85 <sup>th</sup> Ave., Peoria. Free. <a href="#">Info/Register</a>
Thu 20	Permaculture: The Nature of Landscape Design	6-8:30 pm, Via Linda Senior Center, 10440 E. Via Linda, Scottsdale. Free to Scottsdale residents. <a href="#">Info/Register</a>
Thu 20	Landscape Watering by the Numbers	6-8:30 pm, Avondale City Hall, 11465 W. Civic Center Drive, City Hall Sonoran Room, Avondale. Free. <a href="#">Info/Register</a>
Thu 20	Sprinkler Design and Installation	6-8:45 pm, Chandler City Hall, 175 S. Arizona Ave., 2 <sup>nd</sup> Floor, Chandler. Free to Chandler residents. <a href="#">Info/Register</a>
Thu 20	Desert Valley Orchid Society Meeting	6:30 pm, Scottsdale Senior Center, 10440 E. Via Linda, Scottsdale. <a href="#">Steve Grass</a> (602) 508-1808, <a href="#">Desert Valley Orchid Society</a>
<b>Fri 21</b>	<b>Main Office Diagnostic Clinic</b>	<b>8 am, Maricopa County Cooperative Extension, 4341 E. Broadway, Phoenix. Bring plant or insect specimens for ID and advice.</b>
<b>Fri 21</b>	<b>Volunteer Training: Chandler Water Festival</b>	<b>8 am-noon, Chandler Community Center, 745 E. Germann Rd., Chandler. Info/RSVP <a href="#">Robin Becker</a> or (480) 782-3800</b>
Fri 21	Tempe Garden Club Meeting	9:30-11:30 am, Pyle Adult Center, 655 E. Southern Ave, Tempe. <a href="#">Josephine Vincze</a> , <a href="#">Tempe Garden Club</a>

Items in green denote an event sponsored by the Maricopa County Cooperative Extension Service, and/or an opportunity for volunteer hours. Underlined words are links to websites or e-mail addresses.

<b>Sat 22</b>	<b>Carraro Cactus Gardens Volunteer</b>	<b>7-10 am, Carraro Cactus Gardens at Tovrea Castle, 5041 E. Van Buren St, Phoenix. <a href="#">Info/Sign up</a></b>
<b>Sat 22</b>	<b>Master Gardener Plant Sale</b>	<b>8 am-2 pm, Metro Tech High School, 1900 W. Thomas, Phoenix.</b>
Sat 22	Concepts of Landscape Design	10 am, <a href="#">Gardener's World</a> , 3401 E. Baseline Rd., Phoenix. Free, Reservations at (602) 437-0700
Sat 22	Mesquite Flour Class	10:30 am, <a href="#">Boyce Thompson Arboretum</a> , 37615 U.S. Highway 60, Superior, AZ. Free with admission. <a href="#">Info</a>
Sat 22	Irrigation Maintenance, Troubleshooting, Repair	10:30 am-1 pm, Mustang Library, 10101 N. 90 <sup>th</sup> St., Scottsdale. Free to Scottsdale residents. <a href="#">Info/Register</a>
Sat 22	Landscape Maintenance Practices for Homeowners	11:30 am, <a href="#">Gardener's World</a> , 3401 E. Baseline Rd., Phoenix. Free, Reservations at (602) 437-0700
Sat 22	The Dirt on Compost	12-3 pm, Singh Farms, 8900 E. Thomas Rd., Scottsdale. \$50. Register at <a href="#">Singh Farms</a> or (480) 233-0726.
Sun 23	Backyard Chickens for Your Garden	8-11 am, Singh Farms, 8900 E. Thomas Rd., Scottsdale. \$45. Register at <a href="#">Singh Farms</a> or (480) 233-0726.
Sun 23	Gourd Art Class	10 am-2 pm, <a href="#">Boyce Thompson Arboretum</a> , 37615 U.S. Highway 60, Superior, AZ. \$30 mem/\$39 non-mem. <a href="#">Info/Register</a>
Sun 23, 30, and Nov. 6	Integrated Pest Management	12-3 pm, Singh Farms, 8900 E. Thomas Rd., Scottsdale. \$105. Register at <a href="#">Singh Farms</a> or (480) 233-0726.
Sun 23	Edible/Medicinal Desert Plant Guided Walk	1:30 pm, <a href="#">Boyce Thompson Arboretum</a> , 37615 U.S. Highway 60, Superior, AZ. Learn about native desert plants have fed, clothed, and healed indigenous peoples for a millennia. <a href="#">Info</a>
Sun 23	Making Medicinal Creosote Salves	2-4 pm, <a href="#">Desert Botanical Garden</a> , \$35 mem/\$44 non-mem. <a href="#">Info/Register</a>
<b>Tue 25</b>	<b>Tuesday in the Garden</b>	<b>3 pm-dusk, Maricopa County Cooperative Extension, 4341 E. Broadway, Phoenix. Bring gloves and tools that you like to help with maintenance in the demo garden. <a href="#">Pam Perry (602) 279-6250</a></b>
Tue 25	Phoenix Permaculture: Fruit Tree Class	6:30-8:30 pm, Tempe Transportation Center, 200 E. 5 <sup>th</sup> St. (2 <sup>nd</sup> floor), Tempe. \$15 donation. <a href="#">Info/Register</a>

**Items in green denote an event sponsored by the Maricopa County Cooperative Extension Service, and/or an opportunity for volunteer hours. Underlined words are links to websites or e-mail addresses.**



<b>Tue 25</b>	<b>Master Gardener Training Class</b>	<b>6:30-9:30 pm, Maricopa County Cooperative Extension, 4341 E. Broadway, Phoenix. Topic: Cacti and Succulents with Scott McMahon, Desert Botanical Garden Cactaceae Collections Manager</b>
Thu 27	Plant Selection: Right Plant, Right Place	6-8 pm, Via Linda Senior Center, 10440 E. Via Linda, Scottsdale. Free to Scottsdale residents. <a href="#">Info/Register</a>
Thu 27	Yard Watering	6-8:45 pm, Chandler City Hall, 175 S. Arizona Ave., 2 <sup>nd</sup> Floor, Chandler. Free to Chandler residents. <a href="#">Info/Register</a>
<b>Fri 28</b>	<b>Main Office Diagnostic Clinic</b>	<b>8 am, Maricopa County Cooperative Extension, 4341 E. Broadway, Phoenix. Bring plant or insect specimens for ID and advice.</b>
Sat 29	San Tan Garden Club	7-8 am, Queen Creek home. Call Sandy at (480) 987-9821 for address and information.
<b>Sat 29</b>	<b>Volunteer Workday</b>	<b>8-11 am, Glendale Xeriscape Demonstration Garden, 5959 W. Brown St., Glendale. Tools and refreshments provided. RSVP <a href="#">Joanne Toms (623) 930-3535</a>.</b>
Sat 29	APS Shade Tree Workshop	8:30 am & 10:30 am, Paradise Valley Community Center, 17402 N. 40 <sup>th</sup> St., Phoenix. <a href="#">Info/Register</a>
Sat 29	Making the Most of Your Irrigation System	10-11 am, Surprise Public Safety Building Auditorium, 14250 W. Statler Plaza, Surprise. Free for Surprise residents/\$5 non-residents.
<b>Sat 29</b>	<b>Desert Garden Institute: Fall Herb Gardening</b>	<b>9 am-noon, Maricopa County Cooperative Extension, 4341 E. Broadway, Phoenix. \$25. <a href="#">Info/Register</a></b>
Sun 30	Create an Herb Garden	12-2:30 pm, <a href="#">Southwest Gardener</a> , 2809 N. 15 <sup>th</sup> Ave., Phoenix. \$40, <a href="#">Info/Register</a>
Sun 30	Central Arizona Cactus and Succulent Society Meeting	2-4 pm, Dorrance Hall at <a href="#">Desert Botanical Garden</a> . <a href="#">Central Arizona Cactus and Succulent Society</a> . Judy Braun-Brody (480) 481-8129
<b>November 2011</b>		
Tue 1, and Tue 8	Edible Landscape Design and Plant Selection	6-9 pm, <a href="#">Desert Botanical Garden</a> , \$50 mem/\$62 non-mem. <a href="#">Info/Register</a>
<b>Tue 1</b>	<b>Master Gardener Training Class</b>	<b>6:30-9:30 pm, Maricopa County Cooperative Extension, 4341 E. Broadway, Phoenix. Final Exam and Graduation.</b>

Items in green denote an event sponsored by the Maricopa County Cooperative Extension Service, and/or an opportunity for volunteer hours. Underlined words are links to websites or e-mail addresses.

Thu 3	Pruning Basics	6-8:30 pm, Avondale City Hall, 11465 W. Civic Center Drive, City Hall Sonoran Room, Avondale. Free. <a href="#">Info/Register</a>
Thu 3	Irrigation System Maintenance	6-8:45 pm, Chandler City Hall, 175 S. Arizona Ave., 2 <sup>nd</sup> Floor, Chandler. Free to Chandler residents. <a href="#">Info/Register</a>
<b>Fri 4</b>	<b>Carraro Cactus Gardens Volunteer</b>	<b>7-10 am, Carraro Cactus Gardens at Tovrea Castle, 5041 E. Van Buren St, Phoenix. <a href="#">Info/Sign up</a></b>
Sat 5	Arizona Rare Fruit Growers: 2011 Festival of Fruit	8:30 am-5 pm, ASU Memorial Union, 2 <sup>nd</sup> Floor, 300 E. Apache Blvd., Tempe. \$35 through Oct. 5, \$45 after Oct. 5. <a href="#">Info/Register</a> , <a href="#">Arizona Rare Fruit Growers</a>
Sat 5	Maximize Your Irrigation System	9 am-noon, <a href="#">Desert Botanical Garden</a> , \$30 mem/\$38 non-mem. <a href="#">Info/Register</a>
Sat 5	Delicious Diversity in Native Pumpkins and Squash	9:30 am-noon, <a href="#">Desert Botanical Garden</a> , \$50 mem/\$62 non-mem. <a href="#">Info/Register</a>
Sat 5	Wallace Garden Tour	9:30 am-noon, <a href="#">Desert Botanical Garden</a> , \$40 mem/\$50 non-mem. <a href="#">Info/Register</a>
Sun 6	Herb Plant Sale	12-3 pm, <a href="#">Southwest Gardener</a> , 2809 N. 15 <sup>th</sup> Ave., Phoenix. <a href="#">Info</a>
Sun 6	Wildflowers for Your Desert Garden	1-3 pm, <a href="#">Desert Botanical Garden</a> , \$25 mem/\$32 non-mem. <a href="#">Info/Register</a>
<b>Mon 7</b>	<b>Carraro Cactus Gardens Volunteer</b>	<b>7-10 am, Carraro Cactus Gardens at Tovrea Castle, 5041 E. Van Buren St, Phoenix. <a href="#">Info/Sign up</a></b>
Mon 7	Growing Great Chilies	6-9 pm, <a href="#">Desert Botanical Garden</a> , \$30 mem/\$38 non-mem. <a href="#">Info/Register</a>
<b>Tue Nov 8, 2011</b>	<b>Hydroponics Made Easy</b>	<b>10 am-5 pm, Maricopa County Cooperative Extension, 4341 E. Broadway Rd., Phoenix. \$100/\$117 credit card. <a href="#">Info/Register</a></b>
Tue 8	Pruning and Maintaining Your Landscape	6:30-8:45 pm, Chandler City Hall, 175 S. Arizona Ave., 2 <sup>nd</sup> Floor, Chandler. Free to Chandler residents. <a href="#">Info/Register</a>
<b>Sat 12</b>	<b>Carraro Cactus Gardens Volunteer</b>	<b>7-10 am, Carraro Cactus Gardens at Tovrea Castle, 5041 E. Van Buren St, Phoenix. <a href="#">Info/Sign up</a></b>
Sat Nov 12, 2011	Rose Society of Glendale Garden Tour	9:30 am- 4 pm. View six beautiful gardens. \$25. <a href="#">Info/Tickets</a>

Items in green denote an event sponsored by the Maricopa County Cooperative Extension Service, and/or an opportunity for volunteer hours. Underlined words are links to websites or e-mail addresses.

Sun 13	Lettuce Bowl Gardening	12-2 pm, <u>Southwest Gardener</u> , 2809 N. 15 <sup>th</sup> Ave., Phoenix. \$40, <u>Info/Register</u>
--------	---------------------------	--

**Items in green denote an event sponsored by the Maricopa County Cooperative Extension Service, and/or an opportunity for volunteer hours. Underlined words are links to websites or e-mail addresses.**