



Metro Master Gardener™ News

October 2012

OSU Extension Service

Metro Master Gardener™ Program

Serving [Clackamas](#), [Multnomah](#), and [Washington](#) Counties in the metro area since 1976.

Mission Statement

We provide relevant, research-based education and outreach to the public of Clackamas, Multnomah, and Washington Counties about horticulture and household pests. This information promotes sustainable practices that minimize risks to human health and the environment.

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OPPORTUNITIES FROM JORDIS

503-650-3118 or Jordis.Yost@oregonstate.edu



HOURS DUE

I am sending out one last reminder for MGs to send in volunteer hours. This process takes a bit of time to orchestrate, so I really appreciate getting the reports from you right away.

I have received a few questions asking if we use the statewide online reporting system and the answer is no. This system is intended for smaller programs that can promise 100% participation. Since we still have many valuable MGs that don't have computer systems and we don't have enough staff to do all the entering... We will continue to use our log sheets for reporting. Anyone that used the online reporting system will need to send a report of hours to our office to get credit for volunteering. Here is the link to our log sheets for reporting (both Word and Excel versions): <http://www.metromastergardeners.org/downloads/>

RECERTIFICATION

On November 10, we are having our first of two recertification trainings to prepare MGs for volunteer service in the 2013 season. The second will be in April (no date yet). This is one way to fulfill the 12 hours of recertification training required to stay certified for activities in 2013. Now is also the time for 2011 trainees to start the required 12 hours of annual recertification training for 2013. November 10 is the first opportunity to accrue some recertification hours. Winter training class, mini-college classes and a recertification exam are also ways to recertify.

2012 TRAINEES

We are planning to celebrate your completion of hours and introduce you as 'official' MGs while wearing your new permanent orange badges. Please plan on attending the recertification day on Saturday, November 10 at Clackamas Community College, Gregory Forum Building and we can celebrate together.



Come for the day starting at 8:30 am or come at NOON to pick up your badges and stay to be congratulated by the general assembly of MGs.

So that we have time to order the badges, we need to have your volunteer hours log sheet into my office **NO LATER** than **October 8**. Remember that the required number that we need is 66 hours to qualify for a badge. Any hours reported after that will go toward the 2013 season.

VETERANS

We need your hours reported by October 8th in order to have certificates ready on November 10 at recertification training. *If* you indicated that you would like to get a certificate, I will have them ready to be picked up during lunch break.

It is especially important for MGs working solely within their chapter to report hours to the program office because it is the only way that we can track who is active. Having all the hours in one place makes it possible to create the required report to OSU in December. We are proud of our numbers!



FALL and WINTER

Now that you are putting your own garden to rest and thinking about what you are going to do during the fall and winter season, remember the phone offices still need MGs. This season can be a really good time to come in and browse the libraries and discover what home gardeners are up to. Give Joby (Clackamas) 503-632-2165, Sally (Multnomah) 503-810-8717, Heidi (Washington) 503-774-6888 a call and schedule a shift.

Natter's Notes

Brown Marmorated Stink Bug (BMSB)

Jean R. Natter

Halyomorpha halys, more commonly known as the brown marmorated stink bug, also BMSB, has greatly expanded the area in which it resides. Here in Oregon, BMSB was first identified in 2004 from a residential site in Multnomah County. Last year was found west of the Willamette River from still more residential sites. Across the US, it's established in 15 states and has been identified in about 14 others.



First instar nymphs (new hatchlings) are brightly colored, whereas the second and following instars are dark-colored. All instars reveal the characteristics of a dingy-colored ventral surface ("belly") and white antennal bands.

To date, the status of BMSB in Oregon is that of a well-known nuisance pest which congregates on the south and west sides of structures during the fall and winter, just as do boxelder bugs, Asian lady beetles and western conifer seed bugs, the latter often referred to as the leaf-footed bug. This year, the verified identification of BMSB in an important agricultural area in Hood River has increased the anxiety level of our state's agricultural producers. No way do Oregon's large-scale growers want the extensive damage to edibles such as: pears, apples and other fruit, as well as ornamentals which has occurred in the eastern states.

In Oregon, BMSB is currently established in the Portland metro area from Portland west to Hillsboro, south to Tualatin, and east to Sandy, also beyond to include Aurora, McMinnville, and Salem. All positive identifications of BMSB beyond these locales are to be reported to the Oregon Invasive Species Hotline, 1-866-INVADER (1-866-468-2337).

(See http://www.oregon.gov/ODA/PLANT/docs/pdf/ippm_bmsb_alert2010.pdf)



Something you'll seldom see. A cast skin of a late stage BMSB nymph, this one abandoned on my car's windshield early in September. Notice that the head points up and toward the left, also a gaping hole at the posterior where the insect exited its shed exoskeleton

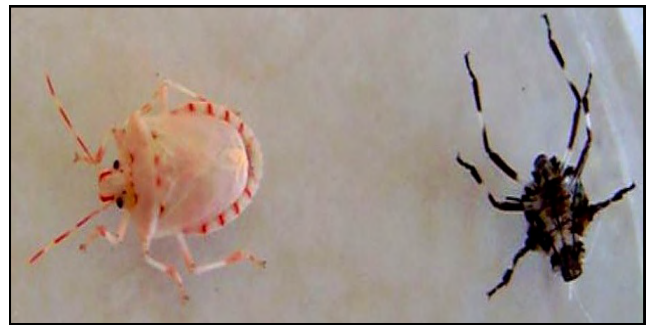
When identifying the BMSB, it's critical to differentiate BMSB from the very similar rough stink bug, *Brochymena quadripustulata*, an Oregon native insect which is a useful predator of other insects. A quick-and-dirty check can begin with the antennae: BMSB antennae have white bands whereas rough stink bug antennae don't. (Images and text descriptions of both insects can be found in the above Pest Alert as well as the resources listed on the next page.)

Numerous field trials with various kinds of monitoring traps and lures have failed. One promising venture, though, is the recent discovery of a tiny egg-parasitoid wasp, *Trissolcus halyomorphae*. A native to Asia, it's the principal natural control agent of BMSB there. In Asia, this new *Trissolcus* species has "parasitism rates up to 70% and an average annual rate of 50%. Because of its high parasitism rates and other biological features, it has good potential as a biocontrol agent of the pest."

(See <http://www.bioone.org/doi/abs/10.1603/008.102.0104>)

Continued on next page...

It's important to understand that "potential" is a key-word when it comes to biological control efforts against insect pests. Whenever researchers search for arthropod control agents in the native habitats of the pest insect, they go to regions with climatic conditions which match as closely as possible those of the invaded area. Not all biocontrol agents which are successful in their native habitat succeed elsewhere due to various factors, among them subtle environmental variations.



A teneral adult BMSB: A newly emerged adult BMSB with a near-white exoskeleton which hasn't yet hardened nor acquired the color typical of its kind. Notice the recently shed exoskeleton at the right. (Image by C. Groth)

The early stages of biological control research are conducted only in qualified, closely monitored, quarantine facilities. Evaluation involves far more than how well the imported parasitoid controls the insect pest at hand. The parasitoid may do extremely well in the laboratory whereas the project fails in the field. Other times, the imported agent also [attacks non-target](#) insects. Some imported parasitoids ultimately prove their worth as unparalleled management allies whereas others apparently didn't read the book.



BMSB adult, upside down on my palm; notice the dirty white coloration of the ventral side and the white band on the antennae.

(See "ODA pursues bio-control of BMSB" <http://www.oregon.gov/ODA/Pages/news/120718stinkbug.aspx>. Be certain to follow the link at the bottom of that page to view a video of the parasitoid in action.)

Whatever the fate of the invasive BMSB, this bad news story has a slim glimmer of optimism. Host plants for BMSB include several invasives from China, namely *Ailanthus* (tree of heaven) and *Paulownia* (empress tree). See <http://horticulture.oregonstate.edu/content/invasive-host-plants-brown-marmorated-stink-bug>.

Identification resources

1. Pest Alert (ODA; Identification and damage)

http://www.oregon.gov/ODA/PLANT/docs/pdf/ippm_bmsb_alert2010.pdf

2. Asian stink bugs invade Oregon (KATU News gallery)

<http://www.katu.com/news/specialreports/104018099.html?tab=gallery&c=y&img=0>

3. Brown Marmorated Stink Bug (University of Maryland; ID and damage)

http://www.pestthreats.umd.edu/content/documents/BMSBBulletin1_10-2010_000.pdf

4. How to Identify the Brown Marmorated Stink Bug (Rutgers University)

<http://njaes.rutgers.edu/stinkbug/>

5. Brown Marmorated Stink Bug (BMSB images plus a distribution map)

<http://www.invasive.org/browse/subinfo.cfm?sub=9328>

6. Regional Pest Alert (Cornell University)

http://www.hgic.umd.edu/content/documents/Stink_Bug_Pest_Alert.pdf



Fall 2012
OSU Master Gardener™
Recertification Training
Saturday, November 10th

- When:** 8:30 am to 3:30 pm (No pre-registration necessary)
Where: **Clackamas Community College**, Gregory Forum Bldg. (see map)
Who: All OSU Extension Master Gardeners™ in the Portland Metro Program
Bring: Your lunch and finger-foods for the 'goodies' table. Coffee and tea provided by CCMG.

Agenda

Doors open at 7:30 am Registration and gathering

8:30 Welcome and Introductions

8:45 - 10:30 am **Plant Problem Diagnosis: Common and Not-So-Common**

Neil Bell, OSU Faculty

In this session we'll look at some of the difficulties in determining the cause of some problems and ways to get sufficient information from your client to solve the problem. Examples will include common cultural problems as well as less common pests.

10:45-Noon **Soils 201: Perspectives on Soil Building?**

Claudia Groth, MG Soils instructor, Slug Lady, and KEX Garden Doctor

What is the scientific, research basis for our traditional soil improvement recommendations? Adding compost improves drainage - how much? Or does it? Can you actually improve the organic matter content in soils by mulching? We'll take a look at the research concerning adding compost, $\frac{1}{4}$ -ten gravel, microbes, or even phosphorus to home garden soils.

Noon - Lunch break - Time to catch up with other MGs, pick up 2012 trainee badges and veteran certificates, look at books (etc.) for sale. **Introduce 2012 Trainees.**

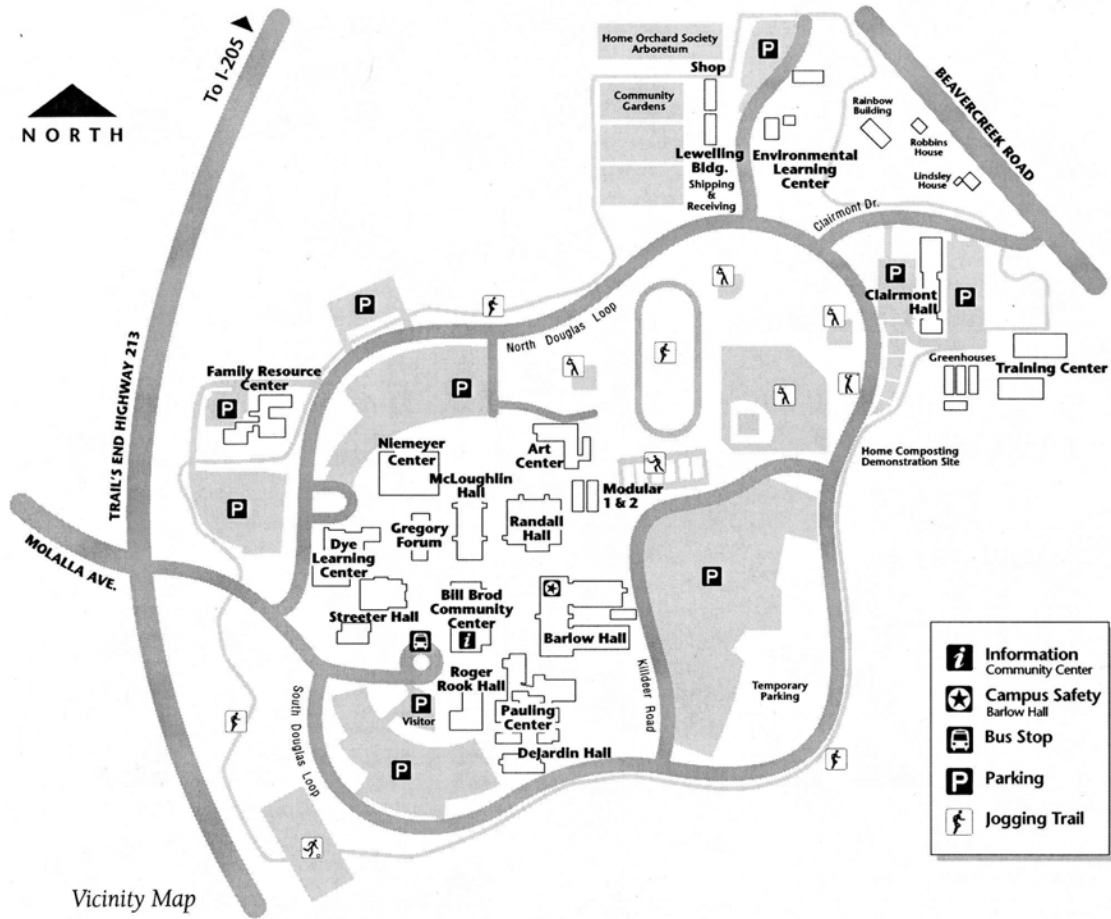
1:00 - 2:15 pm **Master Gardener Program Update**

Weston Miller and Jordis Yost will provide a "State of the Organization" presentation to inform MGs about our many accomplishments and challenges since Weston started working for OSU in 2007. We will also discuss several policy changes from OSU that impact the Master Gardener program. Carl Grimm from Metro and Weston Miller will also express their thanks for MG participation in the developing partnership between OSU and Metro and will provide a report on shared outreach activities for 2012. Questions for the audience will be answered by program staff.

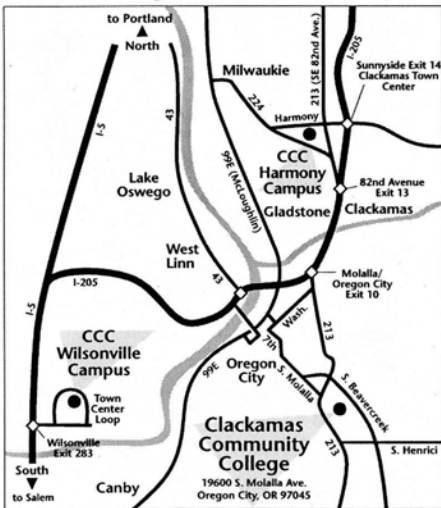
2:30 - 3:30 pm **"Tools to help diagnose conifer problems (or at least those shared by Christmas and landscape conifer trees)"**

Chal Landgren, OSU Extension Christmas tree specialist, NWREC Aurora.

Chal will discuss tools and ideas to assist in evaluating conifer problems that clients may call about or bring in to the office. Many of these "problems" will not have "quick cures", but we will discuss likely outcomes and possible course of actions for each problem.



Vicinity Map



Clackamas Community College Campus Map

Clackamas Community College
19600 South Molalla Avenue
Oregon City, OR 97045-7998

CCC Harmony Campus
7616 S.E. Harmony Road
Milwaukie, OR 97222

CCC Wilsonville Campus
29353 Town Center Loop E
Wilsonville, OR 97070

To reach any college office, call 503-657-6958 and dial the extension you want. (Hearing-impaired TTY/TDD 503-650-6649)

Internet Essentials for Master Gardeners

(Computer training sponsored by the Metro Master Gardener Program)

*** **Last chance for 2012** ***

Gain Internet skills using Master Gardener Resources on Firefox

Everyone has a computer

Choose one or two 3-hour classes each day

Clackamas Community College: 19600 Molalla Avenue, Oregon City 97045

Two different classes



Date	Site	9 to noon	1 to 4 PM
October 13	Clackamas College***	PNW Handbooks (Disease; Insect; Weed); Search Techniques	MG Referral Forum (Upload Referrals & Images); Search Techniques

PNW Handbooks Online; Search Techniques
MG Referral Forum: Upload Referrals & Images

Pre-register now!
Spaces still available

Pre-register with Jean Natter:

J.R.Natter@aol.com

Please provide the following:

1. Date(s) and time of session(s) you will attend
2. Your name, plus phone number email address

Donation of \$2 per class to cover cost of handouts

HORTICULTURAL CALENDAR FOR THE METRO AREA

- Oct 2 Washington County Chapter Chat, "Dwarf Conifers" with Susan LaTourette of Creativescaping.
- Oct 4-7 Fall Home and Garden Show, Expo Center, Portland, OR.
- Oct 9 Multnomah County Chapter, 7pm. 5441 SE Belmont, Mary Logalbo, West Multnomah Soil and Water Conservation District, "*Invasive Weeds: Know Your Enemies*".
- Oct 13 Internet Essentials for Master Gardeners, 9am-4pm. Clackamas Community College.
- Oct 13-14, 20-21 Portland Apple Tasting Festival, 10am-4pm. Portland Nursery.
- Nov 10 Fall Recertification, Clackamas Community College.

Master Gardeners Make a Difference

Master Gardeners love to dig in the dirt. They also like to share the bounty of all their work! On a recent Saturday evening, the Multnomah County Master Gardener Chapter celebrated with a Harvest Party at their Demo Garden located at the Learning Garden Lab on 60th & Duke in southeast Portland.

They fired up the grills, cranked up the ice cream makers, and provided delectable dishes made from their Community Demonstration Garden's bounty.



So far this year, the Multnomah County Demo Garden volunteer MG work crew has harvested over 1200 pounds of produce. Over 900 pounds of this produce has been donated to Lents Loaves and Fishes/Lents Meals on Wheels and over 300 pounds to the Kelly School's SUN (Schools Uniting Neighborhoods) Program.



The total amount of produce they have delivered to charities, including donations from individual gardeners, PSU gardens at the Learning Gardening Lab and BUFA (Beginning Urban Farmer Apprenticeship), is **over 1300 pounds!**

They have had 39 vets work at the garden since the beginning of the year with a range in number of hours worked from 3 to over 227. Nine vets have worked more than 65 hours each.

There have been 39 trainees who have worked at the garden with a range from 2 to 145 hours and with ten spending more than 20 hours at the garden. Master Gardeners make a difference in their community!

Margaret Bayne



Clackamas County Chatter

The Oregon Master Gardener Association in Cooperation with
OSU Extension Service Master Gardener™ Program



OCTOBER

2012

October Chapter Meeting

Monday, October 8, 2012, 7 p.m.
Milwaukie Center

5440 SE Kellogg Creek Dr., Milwaukie
We will be honored to have Jack Holpuch from the OSU Foundation and Gail Langellotto, Oregon State MG Coordinator, at the October meeting to thank the Chapter for our continuing support.

Behind-the-Scenes at the Oregon Zoo

Learn how the zoo habitats are designed and maintained to provide a beautiful yet healthy and natural environment for the animals which live there. Hear about the Zoo Browse program, the unique gardens throughout the Zoo property, egress concerns, the propagation area, and more. You'll never see the Zoo in quite the same way again.

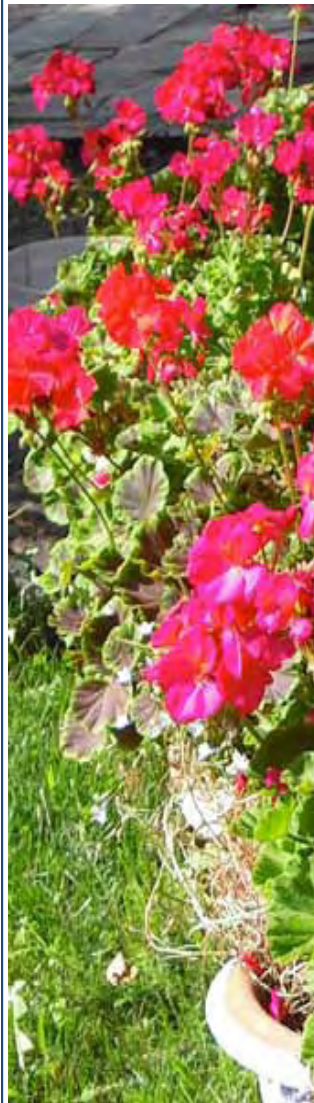
Rick Hanes, Supervisor of the Horticulture Department at the Oregon Zoo, graduated from Oregon State University with a BS in Landscape Architecture. After graduation, he worked for a large landscape and construction company in the Northwest. He has been with the Oregon Zoo since 1986.

November 12, 2012 Meeting Very Favorite Tools

Back by popular demand, the entertaining and informative Bob Denman will talk about his favorite tools. Bob owns Red Pig Tools in Boring which sells many hand-forged gardening tools. You won't want to miss this presentation. Bob will have some of his creations available for sale prior to the meeting.

Open Gardens

The Open Garden season continues with several more exciting gardens to visit. The locations are listed on the Chapter Web site. Be sure to take the time to visit as many of these gardens as you can.



Green Glove Award

Our Green Glove Award winner for October is Bob Blaedel, AKA Bob the Bean. Bob is best known for his creative costumes at the Starlight Parade. He was Parade co-coordinator for several years and a regular participant. He provides cadence for our gaggle of garden folk. Recently, Bob and his wife have coordinated berry-picking activities for Master Gardeners at NWREC. Without their leadership, we were in danger of losing the privilege of harvesting berries from the research center. Behind the scenes, Bob made repairs to our speaker stands, an otherwise expensive repair. Please help me congratulate Bob Blaedel for his many activities on behalf of the Chapter.

2013 Officers

The Nominating Committee has met to recommend individuals to be officers in 2013. If you would like to serve as an officer or on a committee next year, please let one of this year's Board members know.

Budget Calendar

The 2013 Chapter budget has been developed by our Budget Committee. It will be presented for the first time to the Chapter at the October meeting and voted on at the November meeting. It is not too late for input, but we request any suggestions by September's Board meeting on the 27th.

We are also developing ideas for our end-of-the-year contributions. We know that there will be excess funds, generated by a very successful Spring Garden Fair, to distribute. Your suggestions are welcome.

President • Frank Wille: 503.342.6699 — Vice President • Will Hughes: 503.887.9380

Secretary • Darlene Reimer: 503.698.4648

Advisory Board • Buzz Oerding: 503.233.6974

OMGA Rep • Terri Hoffman: 503.982.4825

Treasurer • David Smith: 503.656.4613

Advisory Board • Mary Butler: 503.632.1532

OMGA Alt. Rep • Karen King: 503.467.8800

Assist. Treasurer • Seamus Ramirez: 503.342.6229

Advisory Board • Sharon Andrews: 503.577.7493

Newsletter • Kathy Johnson: 503.794.3959

Web sites: <http://extension.oregonstate.edu/mg/> — <http://www.clackamascountymastergardeners.org/>

Speaker Series

**Tuesday, October 9,
7:00pm**

Mt. Tabor Presbyterian
Church

5441 SE Belmont Street,
Portland

Speaker: Mary Logalbo,
West Multnomah Soil
and Water Conservation
District

Coming next month...

**Tuesday, November 13,
'Urban Meadowsca-**

ping' 7pm Front yards
and parking strips are
unique landscapes tradi-
tionally planted with
turf grass that require
regular maintenance
practices such as mow-
ing, irrigating and appli-
cation of pesticides.

Now there is a strong
movement to remove
lawn and replace it with
a selection of plants that
provide habitat for wild-
life, manage stormwater
on-site and require less
maintenance. Join us as
Mark Griswold Wilson,
Restoration Ecologist,
with the Portland Ur-
ban Meadowsca-
ping Project will showcase
projects and the steps
to take to establish a
meadowscape.

Multnomah County Grapevine

In cooperation with the OSU Extension Service Master Gardener Program



Invasive Weeds: Know Your Enemies

Do you have invasive plants or weeds in your yard? How would you know and, maybe even, why should you care? Mary Logalbo will help us all learn more about this timely subject. She will give us skills to identify some of the key invasives and teach us what we can do about them. In addition to bringing some live plant specimens to increase familiarity with these thugs, Mary will provide useful handouts for attendees to take home.

Mary Logalbo has worked as a conservation planner with

Soil & Water Conservation Districts in Oregon for the past five plus years with an emphasis on native plant restoration, invasive species control programs and public education program development.

Mary was the Executive Director of the Au Sable River Association (AsRA), a non-profit watershed organization near Lake Champlain in northeastern New York. A few years ago Mary completed the OSU Extension Organic Certification Program. She currently works as an Urban Conser-

vationist with the West Multnomah Soil & Water Conservation District, where she coordinates the District's invasive species and urban habitat restoration programs and assists with the District's school and community garden programs.



Share your Incredible Edible Bounty

Veggie starts from the Incredible Edibles Plant Sale have matured and flourished and we'd love a peek at your veggie beds and harvests! Please visit our

Incredible Edibles Plant Sale Facebook Page <http://www.facebook.com/pages/Incredible-Edibles-Plant-Sale/297332860344800> Share photos of your harvests, your favorite veggie varieties, gardening tips and your best recipes for serving up your summer bounty.

Fall Plant Sale Extravaganza

As Master Gardeners well know, fall is the ideal time to plant. So be sure to check out the wonderful selection of plants for sale at the Multnomah Chapter's **Fall Plant Sale and Raffle** on **Saturday, October 6, 10am to 3pm** at **Tabor Heights Methodist Church** (6161 SE Stark Street). You can find perennials, shrubs, bulbs, natives, seeds and trees all at great prices and wonderful raffle prizes too! Come pick-up all you need to refresh and refine your garden!

Chapter Website—www.metromastergardeners.org/multnomah/ **Chapter Email**—multmastergardeners@gmail.com

Grapevine Editor—Lorna Schilling (503)334-5162, lornaschilling@yahoo.com



Washington County Chapter Chat

Oregon Master Gardener™ Association in cooperation with
OSU Extension Service Master Gardener™ Program

UPCOMING CHAPTER MEETINGS

Meeting Location & Time: First Baptist Church, 5755 SW Erickson Ave., Beaverton. Social gathering starts at 6:30 p.m., the meeting at 6:45 followed by the program at 7:15. The public is welcome.

Tuesday, October 2: “Designing with Dwarf Conifers”. Susan LaTourette, owner of Creativescaping: Four Season Garden Design, will focus on the types of dwarf conifers that can work for today’s gardens. To learn more about Susan and the program: [Click Here](#)

Tuesday, November 6 “Fall Flower Bulbs” presented by Ed Hobbs of Simple Pleasures Flower bulbs & Perennials.

MG CRUISE TO ALASKA 2013

Flowers, Fjords and Friends

International Master Gardeners Conference 2013

An excellent array of speakers have been selected, the ship itinerary completed, so make your plans to set sail with the International MG Conference September 7-14, 2013. Meet Master Gardeners from all over the world, enjoy beautiful ports o’call in Alaska, and learn from the masters! Reserve your space now, even though the cruise is a year away, cabins are filling quickly. For more information: [Click Here](#)

MARK YOUR CALENDARS

Nov. 10 – Fall Recertification Day at Clackamas C. C.
Nov. 13 - Fall Rose Pruning, 9:30am, Demo Garden

MG VOLUNTEER HOURS

Volunteer Hours for 2012 are due October 1st. So record your hours on the log sheets and turn them in.

COMPOST TEA

Compost tea is available at the MG demonstration garden on Tuesday mornings. The tea should be used within 24 hours. The tea is available at \$2 a gallon to MG’s from June through September.

MASON BEE COCOON CLEANING

October 23, Ron Spindel will present a demonstration on mason bee cocoon cleaning using a dry sand process. The class, held at the MG Washington county demo garden, starts at 10 am and lasts until noon. Attendees are invited and encouraged to bring their own mason bee cocoons.

DIG AND DONATE

Now is a good time to divide your hardy perennials for the Spring Plant Sale. This is the Chapter’s major fund raiser, so your plant donations are important. Spring and Summer bloomers are the best sellers. Please, no grasses! The plant sale crew is holding a potting event on Tuesday Oct. 9 and again on October 23, 9 to noon at the MG Demo Garden at the Fairplex. Bring clumps of perennials. We provide the soil, pots and labor. Your hands-on help is always welcome. Donations will also be accepted at the Chapter meetings in October, November and December. Questions? Call Jane Miller (503)590-3598 or Cindy Muir (503)245-3922.

MEMBERSHIP RENEWAL

October is the start of the 2013 Membership Renewal. Dues are \$25 and can be paid at the Chapter meeting or mailed to Lynn Cox at 4592 NW Oakpoint Way, Portland, 97229, or use PayPal on our Chapter website. Renewal forms will be available on the Chapter website in October or filled out at the Chapter meeting. Dues are due by December 15th.

HIGHEST 2012 WCMGA AWARDS ANNOUNCED

Tim Lanfri, our past president, is the 2012 recipient of the WCMGA Master Gardener of the Year Award. Joanne DeHaan, Head Gardener at the Demo Garden for five years, received the WCMGA Behind the Scenes Award for 2012. Both were announced at the September Chapter Meeting. Golden Trowel Awards were given to the four who coordinated the Demo Garden coverage during the 2012 County Fair: Joanne DeHaan, George Lock, Jill Hettinga, and Bill Klug, as well as Lynn Cox who led the team that developed this year’s Kid’s Zone.

WCMGA caps were given to all Demo Garden workshop presenters at the fair and the Kid’s Zone volunteers.

President: Bob Falconer—503-277-8596 V.P. Sandy Japely—503-644-2637
Treasurer: Lynn Cox—503-629-9156 Rec. Sec. Diane Allen—503-244-8599
Submit Chapter Chat announcements to: agc.mary@gmail.com
Chapter Website: www.washingtoncountymastergardeners.org
Please send any email or address changes to: info@wcmga.info

October 2012

Garden Hints

Oregon State University Extension Service encourages sustainable gardening practices.

Preventative pest management is emphasized over reactive pest control. Identify and monitor problems before acting, and opt for the least toxic approach that will remedy the problem.

First consider cultural, and then physical controls. The conservation of biological control agents (predators, parasitoids) should be favored over the purchase and release of biological controls. Use chemical controls only when necessary, only after identifying a pest problem, and only after thoroughly reading the pesticide label. Least-toxic choices include insecticidal soaps, horticultural oils, botanical insecticides, organic and synthetic pesticides –when used judiciously.

Recommendations in this calendar are not necessarily applicable to all areas of Oregon. For more information, contact your local Extension office at: extension.oregonstate.edu/find-us.

Planning

- If needed, improve soil drainage needs of lawns before rain begins.
- Register to become an OSU Master Gardener volunteer with your local Extension office. For more information, check: extension.oregonstate.edu/mg/

Maintenance and Clean Up

- Drain or blow out your irrigation system, insulate valve mechanisms, in preparation of winter.
- Recycle disease-free plant material and kitchen vegetable and fruit scraps into compost. Don't compost diseased plants unless you are using the "hot compost" method (120° to 150°F).
- Use newspaper or cardboard covered by mulch to discourage winter and spring annual weeds or remove a lawn area for conversion to garden beds. For conversion, work in the paper and mulch as organic matter once the lawn grass has died.
- Clean and paint greenhouses and cold frames for plant storage and winter growth.
- Harvest sunflower heads; use seed for birdseed or roast for personal use.
- Dig and store potatoes; keep in darkness, moderate humidity, temperature about 40°F. Discard unused potatoes if they sprout. Don't use as seed potatoes for next year.
- Harvest and immediately dry filberts and walnuts; dry at 95° to 100°F.
- Ripen green tomatoes indoors. Check often and discard rotting fruit.
- Harvest and store apples; keep at about 40°F, moderate humidity.
- Place mulch over roots of roses, azaleas, rhododendrons and berries for winter protection.
- Trim or stake bushy herbaceous perennials to prevent wind damage.
- To suppress future pest problems, clean up annual flower beds by removing diseased plant materials, overwintering areas for insect pests; mulch with manure or garden compost to feed the soil and suppress weeds.
- Cover asparagus and rhubarb beds with a mulch of manure or compost.
- Clean, sharpen and oil tools and equipment before storing for winter.
- Store garden supplies and fertilizers in a safe, dry place out of reach of children.
- Prune out dead fruiting canes in raspberries.

Horticulture calendar continued on next page...

calendar cont...

- **Western Oregon:** Harvest squash and pumpkins; keep in dry area at 55° to 60°F.
- **Western Oregon:** If necessary (as indicated by soil test results) and if weather permits, spade organic material and lime into garden soil.
- **Central/eastern Oregon:** Prune evergreens.

Planting/Propagation

- Dig and divide rhubarb. (Should be done about every 4 years.)
- Plant garlic for harvesting next summer.
- Propagate chrysanthemums, fuchsias, geraniums by stem cuttings.
- Save seeds from the vegetable and flower garden. Dry, date, label and store in a cool and dry location
- Plant ground covers and shrubs.
- Dig and store geraniums, tuberous begonias, dahlias, gladiolas.
- Pot and store tulips and daffodils to force into early bloom, indoors, in December and January.

Pest Monitoring and Management

- Monitor landscape plants for problems. Don't treat unless a problem is identified.
- Remove and dispose of windfall apples that might be harboring apple maggot or codling moth larvae.
- Rake and destroy diseased leaves (apple, cherry, rose, etc.), or hot compost diseased leaves.
- Spray apple and stone fruit trees at leaf fall to prevent various fungal and bacterial diseases. Obtain a copy of *Managing Diseases and insects in Home Orchards* (EC631) from your local Extension office or online. If moles and gophers are a problem, consider traps.
- **Western Oregon:** Control fall-germinating lawn weeds while they are small. Hand weeding and weeding tools are particularly effective at this stage.

Houseplants and Indoor Gardening

- Early October: reduce water, place in cool area (50-55°F) and increase time in shade or darkness (12-14 hours) to force Christmas cactus to bloom in late December.
- Place hanging pots of fuchsias where they won't freeze. Don't cut back until spring.
- **Western Oregon:** Check/treat houseplants for disease and insects before bringing indoors.

Oregon State University Extension Service encourages sustainable gardening practices. Always identify and monitor problems before acting. First consider cultural controls; then physical, biological, and chemical controls (which include insecticidal soaps, horticultural oils, botanical insecticides, organic and synthetic pesticides). Always consider the least toxic approach first.

All recommendations in this calendar are not necessarily applicable to all areas of Oregon. For more information, contact your local office of the OSU Extension Service.

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Gardening information online—<http://extension.oregonstate.edu/gardening>



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