

Your summer guide to great places and green living

www.oregon**metro.gov** 



shine
coast
simmer
skip
wish
sow
unhinge

Get up. Get out.



ummer is the perfect time to discover the region's natural areas, scenic parks, historic neighborhoods and quaint main streets. Metro's colorful, easy-to-use Walk There! guidebook features 50 treks in and around Portland and Vancouver.

The pocket-sized book includes detailed maps and route descriptions that focus on nature, fitness and fun. Walk There! is available at many local retailers and bookstores for \$9.95, or visit Metro's website to download individual route maps and descriptions.



Join Metro for free guided walking tours this summer. Explore natural areas, downtowns and historic sites in Wilsonville, Gresham, Lake Oswego, Portland, Hillsboro, Vancouver and Milwaukie. Experienced tour guides will lead the walks, based on routes from Walk There!

Registration is not required. For more information and a complete list of summer walks, visit www.oregonmetro.gov/ walkthere or send e-mail to rto@oregonmetro.gov.

### **Gresham Springwater Trail** fitness walk

9 to 11 a.m. Saturday, June 5 Start and end at the Gresham Library, 385 NW Miller Ave. Meet at 8:45 a.m.

### Pearl District to Nob Hill history walk

5:30 to 7:30 p.m. Wednesday, June 9

Meet at REI, 1405 NW Johnson St., at 5:15 p.m.

### Wilsonville Memorial Park walk

9 to 11 a.m. Saturday, June 12

Meet at Murase Plaza, the upper part of Memorial Park, 8300 SW Memorial Drive, at 8:45 a.m.



#### www.oregonmetro.gov/walkthere



### Why walk?

- Walking is one of the easiest and most effective ways to save money and get fit.
- Walking is an excellent way to maintain health. The more you walk, the better you feel.
- One quarter of all car trips in the United States could be replaced with a 20-minute walk.
- Mile for mile, walking burns as many calories as jogging but with far less stress on joints.
- Walking is good for the planet and reduces your carbon footprint.

### Milwaukie downtown and riverfront walk

Ilwaukie is one of the oldest towns on the Willamette River, at one time rivaling Portland as the pre-eminent local port. On this walk, you'll discover Milwaukie's connections to the river, see its historic downtown and glimpse where the city is heading in the future.

Begin at SE Harrison and Main streets at Milwaukie's City Hall. Walk east on Harrison, passing the Ledding Library and the Waldorf School, constructed in 1937 as a WPA project. From Harrison, turn right on 28th and then right on Washington. Walk west; after crossing McLoughlin, enter Riverfront Park and continue straight to the Kellogg Creek Trail. Walk on the asphalt path along the river.

Walk south on this trail 0.2 mile to Eagle Street and 19th Avenue. Stay straight on 19th to Spring Park's entrance at Sparrow Street. Take the hiking trail from the entrance 0.2 mile as it winds around the south side of a bay from which Elk Rock Island is visible.

To return, walk north on 19th to the Kellogg Creek Trail at Riverfront Park. Walk straight (north) on the trail and cross the bridge near Washington Street. Continue north to Monroe. Turn right on Monroe, cross McLoughlin and turn left on Main. At Main and Monroe, pass Dark Horse Comics, one of the nation's largest comic book publishers. Walk one block north to the intersection of Harrison and Main.





The Portland-Milwaukie Light Rail project continues to move forward, reaching another milestone this spring with the conclusion of Metro's environmental work. With construction to begin in 2011 and service to start in 2015, the new MAX line will connect downtown Portland at Portland State University to Southeast Portland, Milwaukie and North Clackamas County. The project will introduce a new member to Portland's family of bridges: a bridge that will be the first in the United States to carry light

rail, streetcars, buses, bicycles and pedestrians, but not cars. The light rail line – likely to be called the Orange Line – will feature the region's first sustainable, nature-friendly light rail station and park and ride, thanks to a grant from Metro's Nature in Neighborhoods program and the commitment of community groups.

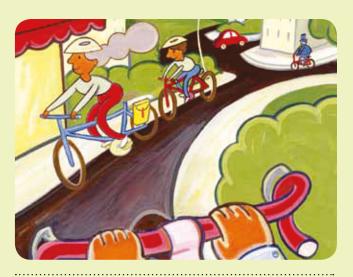
www.trimet.org/pm www.oregonmetro.gov/capitalgrants

## More routes, more bicycling, more fun



his summer take advantage of the world-class biking trails and routes in the Portland metropolitan area with the eighth edition of Metro's Bike There! map. Use this waterproof, tear-resistant map to commute or enjoy recreational rides in the Portland-Vancouver area. The new map features:

- detailed commuter maps of central Portland and 21 area cities
- an expanded regional view showing recreational cycling destinations in scenic parts of Multnomah, Washington, Clackamas and Clark counties
- · new, more detailed street ratings
- elevation points and identification of steep slopes
- light rail, commuter rail, streetcar lines and transit stations to extend a ride with transit.



Purchase Bike There! for \$9 at many local retailers, book stores and bike shops. Find a list of retailers and more information on Metro's website.

#### www.oregonmetro.gov/bikethere



### **Sunday Parkways**

10 a.m. to 3 p.m.

🧲 unday Parkways offer a chance to get out and enjoy walking, biking, rolling, running or skating on traffic-free streets. The 4.5- to 7.5-mile routes along city streets focus on one area of the city at a time, connecting parks that host music, food and fun activities like yoga, juggling, stilt walking or hula hooping. Experience Portland from a new perspective; meet your neighbors and enjoy all kinds of entertainment along the way. Intersections are staffed by volunteers, allowing residents to get to and from their driveways, with larger streets supervised by police and certified flaggers. For more information or to volunteer, visit www.portlandsundayparkways.org or call 503-823-5358. City of Portland Bureau of Transportation, Kaiser Permanente and Metro

June 27

**North Portland** A 7.5-mile route connecting Peninsula Park and Rose Garden, and Trenton, Kenton and Arbor Lodge parks

July 18

**East Portland** A six-mile route connecting Ed Benedict Park and the East Portland Exposition with Lents, Raymond and Bloomington parks and the Springwater Corridor

Aug. 15 Southeast Portland A six-mile route connecting Laurelhurst, Colonel Summers and Sunnyside parks with the Hawthorne Street

#### Five reasons to bike

- A short, four-mile round trip by bicycle keeps about 15 pounds of pollutants out of the air.
- Bike There! features more than 600 miles of onstreet bike routes and 235 miles of off-street trails.
- Half of all trips in the United States could be replaced with a 20-minute bike ride.
- Households that walk and cycle as the primary modes of travel save an average of \$694 per month.
- Biking helps weight loss and heightens energy levels.



#### 10th annual

## Fourth of July fireworks and festivities

elebrate Independence Day with music, fun and east county's largest fireworks display at Blue Lake Regional Park in Fairview. Pack a picnic, load up your loved ones and get ready for a good time for the whole family with fireworks, playtime for children in the water spray ground, and musical guests such as blues and soul diva Linda Hornbuckle. Activities are at the west end of the park. For groups of more than 25 people, call 503-665-4995 to reserve a site. Gates open at 8 a.m.

Food court 5 to 10 p.m.

**Spray ground** 11 a.m. to 6 p.m.

#### Music

The Stingrays | 3:30 to 5:30 p.m. Aguamiel | 6 to 7:30 p.m. Linda Hornbuckle | 8 to 10 p.m.

Fireworks 10 p.m.

**Admission** \$10 per car, \$15 per bus, RV or 12-passenger van. No pets, alcohol or personal fireworks allowed.

#### Presented by

Jerome Hart photo

Yoshida's Riverview Restaurant

#### Sponsored by

Gresham Outlook Metro City of Fairview Sandy Post CalPortland Gresham Ford Comcast Fox 12 Oregon

#### Special thanks to

Gresham Fire Department
Fairview Police Department
Multnomah County Sheriff River
Patrol
Troutdale Police Department
Gresham Lions Group



Kent Derek photo

### Summer fun in the garden

Ready? Set? Dig! Time to smell the flowers, touch the leaves and spot nature's soil superheroes in action at Metro's Blue Lake Natural Discovery Garden. From exploring a worm bin to prepping make-and-take strawberry plants, these hands-on, family-fun activities show the ease of creating beautiful, pesticide-free yards that are safe for people, pets and the planet.

Enjoy the Discovery Garden's all-ages activities from 9 to 11 a.m. Thursdays and 1 to 5 p.m. weekends, June through August, next to the water spray ground at Blue Lake Regional Park. Free with parking fee.

In cooperation with Oregon State University Extension Service and other public and private partners, Metro is offering more than 60 free presentations at home gardens, demonstration gardens, nurseries and hardware stores through October. To learn more about Metro's natural gardening program, including Blue Lake Natural Discovery Garden, call Metro Recycling Information at 503-234-3000 or visit www.oregonmetro.gov/garden.



Splash into Blue Lake's spray ground

here's no better way to cool off and have fun than with water that sprays, gushes, dumps and pours from colorful and whimsical devices. Designed especially for children ages 1 to 10, Blue Lake Regional Park's

water spray ground is fun and interactive. This popular attraction offers an engaging water play option for nonswimmers, children under the age of 5 who are not allowed in the lake, and people with limited mobility. The spray ground is located adjacent to the swim beach area and is free to park visitors. Restrooms and parking are conveniently located and make the activity easily accessible for kids of all ages and abilities.

#### **NATURAL AREAS UPDATE**



A newly planted deciduous tree at Graham Oaks, staked and protected

"We live in a society where we expect immediate gratification. Habitat restoration doesn't work that way. It's quite easy to remove habitat; it is much more difficult, and costly, and takes much longer, to bring it back. I credit the voters of the metro region for deciding that we value nature where we live and we are willing to invest in this for ourselves and the future." Jim Desmond, director, Metro Sustainability Center

"Portland is such a special place because of the combination of built landscape – our beautiful buildings and bridges – and the underlying 'un-built' landscape. Restoring and preserving pieces of unique, rare Willamette Valley habitat will help rejuvenate native fish and wildlife populations and increase biodiversity, and at the same time enrich the lives of people who encounter them." Krystyna Wolniakowski, director, Western Partnership Region, National Fish and Wildlife Foundation, www.nfwf.org

www.oregonmetro.gov/naturalareas





On an early winter morning in 2008, crews plant the first oak seedlings at Graham Oaks.

### The Metro Green Legacy Fund

# Restoring Oregon's wild past for the future

etro and the National Fish and Wildlife Foundation teamed up in 2002 to restore rare native habitats and inspire current and future generations to protect and enjoy these places across the Portland metropolitan area.

They gave their grant program a name: the Metro Green Legacy Fund. They also gave it seed money: \$200,000 from Metro and \$240,000 from the nonprofit foundation, which works to create public-private partnerships that nurture the nation's fish, wildlife, plants and habitats. This investment attracted \$500,000 in matching contributions from other foundations, private businesses and individuals.

The Green Legacy Fund has left its mark on the natural world in the form of young oak trees and an old prairie, a renewed creek and banished blackberries, science education and a live "salmon cam." Read about the six projects made possible by this collaboration – and the hundreds of citizen volunteers who donated thousands of hours to renew the landscape.

NarrativeLab, Inc. photos

# Introducing Graham Oaks Nature Park

There's an old oak tree in a field in Wilsonville, a venerable grandmother who's seen a lot of change in her 250 or so years of life.

When she was young, her extended family was a colony of Oregon white oaks in a wild meadow. Northern harriers paused among her gnarled branches; black bear fed on her acorns. Western meadowlarks, the Oregon state bird, were commonplace in the grass around her. They're gone now, but they may return.

The old oak was a landmark when Kalapuya Indians hunted here, and when the first Europeans settled in the area. She stood sentinel as four generations of the Lehan family planted the ground beneath her, their children resting in her summer shade.

Times changed and the property was sold. Many uses were proposed: a women's prison, a vehicle maintenance center, a golf course. The land changed hands one last time when Metro acquired it through a 1995 natural areas bond measure, approved by voters across the Portland metropolitan area to protect water quality, wildlife habitat and recreation opportunities.



Children help with mulching at Graham Oaks.



Students gather around the landmark oak tree, an icon of the past and for the future.

Now, the old oak is witnessing something she hasn't seen in more than a hundred years. The Metro Green Legacy Fund has allowed Metro scientists, citizen volunteers and contractors to grow oak seedlings, native shrubs and grasses at Metro's Native Plant Center near Tualatin, and to transplant them in the meadow. A new legacy is under way in Graham Oaks Nature Park.

Restoring a sensitive ecosystem from the ground up takes a lot of planning and fieldwork. Resource professionals from Metro and the City of Wilsonville conducted an extensive site review that incorporated land survey data from as far back as the 1850s, historic water flow patterns, soil types and more. The master plan is now translated into miles of walking trails, a covered picnic area, wildlife viewing platforms and interpretive signage.

Slow-growing oaks will outlive voters who passed the natural areas bond measure in 1995 – and another in 2006 – and the many Metro staff, contractors and volunteers who are restoring Graham Oaks. "It is truly for grandkids and great-great grandkids," says Elaine Stewart, a natural resource scientist with Metro.

Former Wilsonville Mayor Charlotte Lehan, whose family history is so thoroughly connected to the property, looks at the old oak. "It represents the future that we can't even imagine," she says, "because it will be here for centuries after we're gone." And the Western meadowlarks she knew here as a child? "I like to think they'll be back, just like the oaks."

#### **Graham Oaks restoration**

- 250 acres of farm and forestland acquired by Metro
- wetlands restored by removing an agricultural drain system
- acorns and native seeds collected and propagated by Metro's Native Plant Center
- 135 acres covered in native grasses and flowers
- 150,000 trees and shrubs growing, including several thousand Oregon white oaks
- trail system connecting nearby neighborhoods and schools



**Graham Oaks Nature Park** opens this fall

Grand opening celebration Sept. 17 and 18

www.oregonmetro.gov/grahamoaks



C. Bruce Forster photo

### Gotter Prairie blooms

one of the lessons of habitat restoration work is that there's a lot of it; the work part.

The Gotter Prairie wetland restoration is a case in point. When Metro acquired the 120-acre property in the Scholls area southwest of Portland, it had been drained, cleared and farmed by the Gotter family for more than 70 years.

Tualatin Riverkeepers recruited hundreds of volunteers from businesses, schools and community groups to help tackle the work along with contractors. Together they replaced potatoes with tens of thousands of native trees, shrubs and herbaceous plants and carpeted the prairie with hundreds of pounds of grass and wildflower seeds.

Now, Gotter Prairie is a different place, a wild legacy. It has become the home of the Riverkeepers' nature awareness program, which has reached 5,000 children since 2005. Metro scientists and local farmers have partnered to study grazing on the property's native grasses, using cows to replicate what elk might have done hundreds of years ago.

"People usually don't care about a piece of land unless they have an opportunity to interact with it in an intimate way," says Monica Smiley, the group's executive director. "Experiencing the place has a way of transforming visitors, volunteers and donors into stewards, keepers and protectors."

#### **Gotter Prarie**

- 120-acre property acquired in 1994
- historic water conditions restored
- more than 40,000 native woody and herbaceous perennials planted
- 200 pounds of native grass and wildflower seed sown
- 5,000 children visited Tualatin Riverkeepers' nature awareness program

www.tualatinriverkeepers.org

## Wild eagle and salmon cams at the zoo

n the cool, misty green of the Great Northwest Eagle Canyon exhibit at the Oregon Zoo, visitors can climb into a lifesized eagle's nest, watch resident bald eagles Athena and Jack hop among tree limbs, and catch a view of one of the birds' favorite foods – salmon – swaying in the current of a stream. Now, there's a new dimension to the experience.

The Metro Green Legacy Fund supported an initiative that brings live, real-time video of wild eagles and salmon into the exhibit. The eagle footage is sent to the zoo from a tree-mounted camera in Oregon's central Cascades, where a pair of bald eagles, Cascade and Lady Odell, has nested every summer since 2006. Last summer, to the delight of tens of thousands of viewers, they produced a baby girl, Pengra Cascade Odell. A "salmon cam," underwater in the Columbia River east of Portland, gives visitors a look at fish migrating upriver to spawn in tributaries in Oregon, Washington and Idaho.

Live video streams, displayed on kiosk-style screens at the Eagle Canyon exhibit as well as online, help zoo visitors make an important connection: Eagles and salmon are not just zoo animals or distant, exotic species; they're wild creatures living in our own back yard.

www.fs.fed.us/outdoors/naturewatch/ eaglecam.html



Above: Athena, one of two bald eagles featured in the Oregon Zoo's Great Northwest Eagle Canyon Exhibit

Left: The restored Gotter Prairie hosts the Tualatin Riverkeepers' nature awareness program for area school children.

## Crabapple Creek runs again

or eons, floodplains along the Willamette River served as salmon nurseries, protecting young fish from predators and strong currents during the wet winter months. Many of these sites were erased by development, but the Metro Green Legacy Fund is helping put some prime Willamette River floodplain back in the salmon-rearing business.

The story began four decades ago when meandering Crabapple Creek near Sauvie Island was rerouted to create pasture for dairy cows. Several hundred acres of floodplain became disconnected from the creek. In the late 1990s, Metro acquired the pastureland and other nearby properties with funds from the 1995 bond measure.

Using maps from an 1856 government land survey, project managers from Metro and Ducks Unlimited reconstructed Crabapple Creek's old channel and sent water back down its long, dry path. Ducks Unlimited engineers also installed water-control devices to help protect fish from becoming stranded during times of low water.

With historic flooding patterns restored, great blue herons are nesting on the site again. Ground once dominated by Himalayan blackberry and other invasive plants is being revegetated by flood-tolerant native species. Northern red-legged frogs have returned and established breeding populations. Rare painted and pond turtles are back as well.

Metro and many professional and volunteer partners have planted native grasses and more than 100,000 native shrubs and trees in the area and have established wildlife monitoring programs with local residents. Crabapple Creek is now part of a much larger wetlands natural area connecting almost 1,000 acres of land between the Multnomah Channel and the Tualatin Mountains to the west.

Because this natural area is under active restoration management, it is currently closed to public access. Watch GreenScene for tour opportunities at Metro natural areas that are not open to the public.

#### Crabapple Creek

- 2,500 linear feet of creek bed excavated to re-create Crabapple Creek's historic route
- 30 acres of wetlands restored along the Multnomah Channel near Sauvie Island
- water control gates installed to ensure yearround flow and reduce fish stranding
- more than 100,000 native plants and trees planted around Crabapple Creek



## More "elbow room" for Camassia Natural Area

amassia Natural Area in West Linn is just 26 acres, but a few years ago it felt smaller. Tough invaders like Himalayan blackberry and Scotch broom were pushing in from the preserve's borders, overtaking native grasses and flowers. The lack of a natural fire cycle resulted in alder, fir and maple overshadowing the preserve's rare, slow-growing Oregon white oaks.

With the help of the Metro Green Legacy Fund, The Nature Conservancy hired professional crews to remove huge, impenetrable patches of blackberry and poison oak, and create space for the oaks. Then the conservancy turned to the community for ongoing site management. They reached out to schools, neighbors and businesses.

Hundreds of volunteers have installed thousands of native plants and helped protect the preserve's existing population of rare white rock larkspur as well as camas, a purple flower whose bulb is a traditional Native American food. Students from schools and programs for at-risk youth have learned forest management skills and conducted bird studies and botanical inventories. Neighbors have committed to long-term responsibility for parts of the preserve through The Nature Conservancy's adopt-a-plot program.

"Thanks to our volunteers, Camassia's brilliant wildflower blooms, threatened species and oak habitats will continue to remind the community of its rich natural heritage," says Jason Dumont, the conservancy's Portland area preserves manager.

#### Camassia Natural Area

- areas overrun by aggressive, invasive plants reopened to native species
- native grasses and more than 2,000 native shrubs and plants restored to the site
- hundreds of volunteers introduced to restoration work
- long-term habitat management created through volunteer adopt-a-plot program



Wild iris at Camassia

## Mobilizing citizen scientists

With support from the Metro Green Legacy Fund, The Wetlands Conservancy combined science with outreach to inspire landowners and volunteers and renew rare habitats.

"Our mission is to conserve Oregon's wetlands," says Esther Lev, executive director of the Tualatin-based nonprofit. "To do that, we have to have the scientific know-how, and we have to educate people and mobilize them to help."

Lev once traveled Oregon inviting private landowners to consider turning their pastures back to wetlands. Everyone she met was interested, but they needed help. It was an important realization for Lev: a little bit of knowledge could help people build their own restoration legacies.

The Metro Green Legacy Fund supported three education initiatives. In the first, The Wetlands Conservancy studied the effects of beavers in suburban watersheds. A 32-page scientific report documented water quality changes where beavers establish themselves, outlined the benefits beavers provide in a watershed and described ways to mitigate possible beaver-created problems such as flooding.

A second initiative organized professional and volunteer work crews to stabilize a slide-prone section of Newell Creek Canyon near Oregon City. With the help of weed-munching goats, workers carefully cleared several sloped acres. Then they replanted native trees and shrubs with strong, anchoring root systems and learned some new bioengineering techniques along the way.

Third, the conservancy produced an 18-minute video about how to restore rare Willamette Valley wet prairie. Once common from Portland to Eugene, today only 1 to 2 percent of this remarkable habitat remains. The video captured the insights of experts who are pioneering restoration techniques at places such as Metro's Gotter Prairie in Scholls and Knez Wetland Preserve in Tigard.

### The Wetlands Conservancy resources

For a copy of the beaver report, the wet prairie instructional video or more information about wetlands restoration, call The Wetlands Conservancy at 503-691-1394 or visit www.wetlandsconservancy.org.



Camas



Students at Gotter Prairie



Volunteers from the North Clackamas High School forestry program



Beaver

### Friends of Trees **Summer Festival** volunteer training

9 a.m. to noon Saturday, June 5

Help Friends of Trees spread the word about tree-planting efforts in the Portland-Vancouver region. In our most glamorous volunteer opportunity, Summer Festival volunteers interact with the public at all the coolest summer events. To register, call 503-282-8846 ext. 12. Friends of Trees

#### **Murrayhill Park: National Trails Day** cleanup

9 a.m. to noon Saturday, June 5

Join neighbors and volunteers to collect trash along the Westside Regional Trail throughout the restoration areas of Murrayhill Park. Bring a re-usable water bottle; refreshments provided. Meet on Southwest 155th Avenue where power lines cross the road. To register, call 503-629-6350 ext. 2953. Tualatin Hills Park & Recreation District

### **Smith and Bybee** Wetlands kavak tour

8:30 to 11:30 a.m. Saturday, June 5

Always wanted to paddle Smith and Bybee lakes but don't have a boat? Let NW Discoveries provide the gear for this 3-hour kayak trip. Learn about wildlife and the area's natural history from Metro naturalist James Davis. Some kayaking experience recommended. Suitable for adults and youth age 14 and older. Participants ages 14 to 17 must be accompanied by an adult. All participants issued a solo kayak. A few tandem kayaks are available upon request. Meet at the Smith and Bybee canoe launch. Registration and payment of \$25

per person required in advance; call 503-797-1650 option 2. Metro



#### **State Parks Day** celebration

10 a.m. to noon Saturday. June 5

Celebrate State Parks Day at Tryon Creek State Natural Area. Learn about state parks in the area and enjoy free coffee and treats on Tryon Creek's 40th birthday. Explore Oregon's vast resources and history with State Parks staff, Friends of Tryon Creek staff and valued volunteers. Free. Friends of Tryon Creek State Park

#### **TogetherGreen** volunteer day

10 a.m. to 4 p.m. Saturday, June 5

Through a grant from Toyota and the National Audubon Society, the Audubon Society of Portland is sponsoring six work parties to restore and maintain the beautiful Audubon sanctuary. Each work party begins with a short program and continental breakfast. Lunch is provided. Suitable for age 14 and older with an adult. For more information, call 503-292-6855 ext. 108. Audubon Society of Portland

### **Tryon Creek Saturday** quided nature hikes

10 to 11:30 a.m. Saturdays, June 5 to Aug. 28

Join a park naturalist for a guided hike to explore the forest and stream ecosystems and natural history at Tryon Creek State Natural Area. Topics vary and are appropriate for all ages. Parents must accompany children. Free. For more information or if attending in a group of more than 10 people, call 503-636-9886 ext. 222. Friends of Tryon Creek State Park

#### **Edible plants for** survival

1 to 5 p.m. Sunday, June 6 Whether you are an experienced primitive skills enthusiast or have never eaten a wild plant, this class provides in-depth training in the healing power and nutrition of wild edible plants. Registration and payment of \$25 required in advance; call 503-559-2825. TrackersNW

#### **Mount Talbert's** hidden beauty

10 a.m. to 12:30 p.m. Sundays, June 6 and July 11 Explore a window to the past when the Willamette Valley was a patchwork of habitats nurtured by fire, providing an abundance of wild foods for people and wildlife. The rare oak woodlands of Mount Talbert offer refuge for migrating songbirds such as warblers, tanagers, orioles and cedar waxwings. Move quietly through shaded groves in search of the elusive western gray squirrel and learn to identify poison oak. Binoculars available. Trails are rough and steep in places. Suitable for age 10 and older. Registration and payment of \$5 for adults required in advance; children under 18 are free. To register, call 503-794-8092. North Clackamas Parks and Recreation District



#### Smith and Bybee Wetlands paddle

10 a.m. to 2 p.m. Sunday, June 6

Traveling by canoe or kayak is the best way to explore Smith and Bybee Wetlands. Watch for bald eagles, great blue herons and beaver lodges. Bring a canoe or kayak, binoculars, water and snacks. Due to low water levels this year, this may be the last organized event for spring and summer. All boats over 10 feet in length must be registered with the State of Oregon. Personal flotation devices required. Meet at the canoe/kayak launch at the natural area off North Marine Drive. Free. Advance registration required; call Troy Clark at 503-249-0482. Friends of Smith and Bybee Lakes



#### Wild gourmet garden edibles

1 to 5 p.m. Sunday, June 6 Ioin wild food expert Iohn Kallas at an organic farm and make a wild gourmet salad. Harvest weeds that farmers pull. Learn to identify common, nutritious and flavorful wild vegetables and evolve from a weeding to a harvesting mentality. Bring footwear and clothing appropriate for harvesting on a farm; dress for the weather. Meet at the parking lot on far side of island store, 15005 NW Sauvie Island Road. Registration and payment of \$25 required in advance; visit www. wildfoodadventures.com. Wild Food Adventures

#### Autumn Ridge Park invasive plant

### removal 9 a.m. to noon Saturday,

June 12

Help remove English ivy and Himalayan blackberry from the natural areas of Autumn Ridge Park. Bring a shovel, heavy-duty work gloves, loppers and water bottle. Refreshments provided. Meet at the basketball courts in the park. To register, call 503-629-6350 ext. 2953. Tualatin Hills Park & Recreation District



#### Blooms for birds, bees and butterflies

10 to 11:30 a.m. Saturday, June 12

With natural gardening educator Paul Sanford, discover how native flowering plants add beauty and benefits from birds,















bees and butterflies. In the Blue Lake Natural Discovery Garden, learn how wildlife lightens the gardening workload by providing free pollination, pest control and soil improvement services. Free. Advance registration encouraged; drop-ins welcome if space is available. To register, call 503-234-3000. Metro and OSU Extension Service Community and Urban Horticulture

#### Lone Fir historic tours 10 a.m. to noon Saturdays, June 12, July 10, Aua. 14

Embark on a unique history lesson while enjoying the beauty and tranquility of Metro's Lone Fir Pioneer Cemetery. The tour highlights Portland's founders, early pioneers and nationally recognized figures, as well as interesting headstones and monuments. Explore 30 acres of mature trees and a very special rose garden. Suitable for all ages. Meet at the Soldiers' Monument located in the park at Southeast 26th Avenue and Stark Street. Suggested donation of \$10 goes to headstone restoration and educational programs. Registration not required. For more information, call 503-224-9200. Friends of Lone Fir Cemetery L by arrangement

#### **Native wild foods** 🔰 9 to 11 a.m. Saturday, June 12

Come to Cooper Mountain Nature Park and learn how Native Americans survived the seasons. Examine various tribes of the Pacific Northwest and the ways in which they utilized native plant life for survival. \$9 per person, age 16 to adult. To register, call 503-629-6350. Tualatin Hills Park & Recreation District

Summer bird watching at Smith and Bybee Wetlands 9 to 11:30 a.m. Saturdays, June 12 and July 10 Join Metro naturalist James Davis or volunteer naturalist Patty Newland for great birding as the nesting season winds down at Smith and Bybee Wetlands Natural Area. See young birds

that have left the nest and family activities such as feeding and flocking. Learn to identify the most common birds by their songs as well as their appearance. Suitable for adults and children age 10 and older. Bring binoculars or borrow a pair on site. Meet in the parking area on North Marine Drive. Free. Advance registration required; call 503-797-1650 option 2. Metro 💄

#### Tualatin Hills Nature Park invasive plant

removal

9 a.m. to 1 p.m. Saturday, June 12

Help remove English ivy and Himalayan blackberry from the natural areas of Tualatin Hills Nature Park. Bring a shovel, heavy-duty work gloves, loppers and a re-usable water bottle. Refreshments provided. To register, call 503-629-6350 ext. 2953. Tualatin Hills Park & Recreation District

#### **Tualatin River paddle** tour and nature walk

10 a.m. to 2 p.m. Saturday, June 12

Join Metro naturalist James Davis and Tualatin Riverkeepers for a leisurely 3-hour paddle upstream and back from one of Metro's future river access points west of Tigard. This section of the river meanders through the Tualatin National Wildlife Refuge. Before the paddle, explore the river's edge for signs of deer, coyote, beaver and other mammals. Watch for great horned owls that nest along the river bank, and possibly beaver, nutria and river otter. Bring water, snacks, insect and sun protection and waterproof binoculars if available. Registration and payment required in advance. \$5 for Tualatin Riverkeepers members; includes free canoe use. \$10 for nonmembers; bring a canoe or rent one for \$30. Call 503-620-7507. Metro and Tualatin Riverkeepers

### **Native Plant** Center volunteer ventures

9 a.m. to 1 p.m. Saturdays, June 19, July 10 and 24, and Aug. 21 and 28

ome and enjoy summer at Metro's Native Plant Center in Tualatin and learn to propagate native plant species used in regional restoration projects. Volunteers help with seed collection and harvesting at the Native Plant Center, maintain native growout beds, learn propagation and composting skills, and work with herbaceous species from the region's wetland, forest and prairie habitats. This is a family-friendly venture. Prior gardening experience not required. Gloves, tools, water and a snack provided. Advanced registration required; call 503-638-7240.

by arrangement

#### Seed collection training

The seed collection season will soon begin. On June 5, learn how to participate in native seed collection at Metro's natural areas in a training session led by experienced seed collectors. Topics covered are seed collection protocol, data sheets and plant identification tips. For more information and to obtain a questionnaire, send e-mail with your name and phone number to marsha.holt-kingsley@oregonmetro.gov.

#### Willamette Greenway Trail bike ride

3 to 7 p.m. Saturday, June 12 Take a tour of the future North Portland Willamette Greenway Trail and finish up near St. Johns. Take in refreshments at a local pub and head off to a movie in McKenna Park. There will be some off-road biking so wider tires are best. Meet at the north end of the Eastbank Esplanade. Free. For more information, send e-mail to froyce@comcast.net. npGREENWAY



#### Twilight Tuesdays at Smith and Bybee

7 to 9:30 p.m. Tuesdays, June 15, July 6 and 27, and Aug. 24 This relaxing walk at Smith and Bybee Wetlands Natural Area takes advantage of long summer days and provides a chance to unwind after work. Dusk is one of the best times to view wildlife, especially during summer. It is

about the only time most mammals such as beaver, muskrat, otter, raccoon, deer and bats can be seen. Metro naturalist James Davis teaches basic techniques of wildlife watching and identification. Bring binoculars or borrow a pair on site. Suitable for adults and children age 10 and older; participants must be able to be quiet, sneaky and patient. Registration and payment of \$10 per adult required in advance; call 503-797-1650 option 2. Metro

#### Composting and worm bins

6 to 8 p.m. Wednesday, June 16

Learn the many ways to turn kitchen scraps and yard debris into rich food for the garden. \$5-20 sliding scale donation. Advance registration required; call 503-284-8420. Growing Gardens



#### Morning bird walks at Cooper Mountain

7 to 9 a.m. Fridays, June 18 and July 9

Join Metro naturalist James Davis for early morning bird walks to see birds when they are most active and vocal. In July, most baby birds will be out of the nest; watch family activities such as adults feeding their begging young. Learn to identify birds by sight and by sound. Suitable for adults and children age 10 and older. Bring binoculars or borrow a pair on site. Meet at the nature house off Southwest Kemmer Road. Free. Advance registration required; call 503-797-1650 option 2. Metro and Tualatin Hills Park & Recreation District 上



#### **Tryon Creek story** and stroll

10 to 11 a.m. Fridays, June 18 to Aug. 27

Join a park naturalist for nature story time and a brief stroll through the park. This program is geared toward families with children ages 2 to 6 but all are welcome. Free. Friends of Tryon Creek State Park



#### **Columbia River teen** kavak

9 a.m. to 5 p.m. Saturday, June 19

Check out otters, eagles, herons and more on this exciting journey. From the Lewis River in Washington, paddle to Sauvie Island, then to Ridgefield Wildlife Refuge. Suitable for ages 11 to 18. Meet at Dishman Community Center. \$40 per person; transportation, river guides and all equipment provided. Advance registration required; visit www. portlandparks.org/register. For more information, call 503-823-6378. Portland Parks and Recreation



#### Explorando el Columbia Slough

1 to 5 p.m. Saturday, June 19 ¡Celébrase la naturaleza en la ciudad v el ambiente del Columbia Slough! Este festival bilingüe de la familia y el medio ambiente ofrece actividades en español y ingles para todos las edades. Explorando es gratis y

incluye: viajes en canoas con una guía, música en vivo, baile folklórico, cuentos e historias bilingües, artes, actividades y más. El primer 400 personas les recibirán camisetas gratis del Explorando 2010.

Celebrate nature in the city and the environment of the Columbia Slough. This family environmental festival offers activities in Spanish and English. Enjoy guided canoe trips, live music, folk dancing, storytelling, arts and crafts, workshops and more. The first 400 visitors receive a free t-shirt. Whitaker Ponds Natural Area. Free. For more information, call 503-281-1132. Columbia Slough Watershed Council \_\_



#### Forest Park volunteer work party

9 a.m. to 12:30 p.m. Saturdays, June 19, July 17, Aug. 21

Join The Forest Park Conservancy at a volunteer trail maintenance party. No experience required; tools, materials and training provided. Bring work gloves, wear sturdy footwear and dress for the weather; work continues in all conditions. A full water bottle and snack recommended. Advance registration required; visit www.forestparkconservancy. org. Additional information including driving directions e-mailed with registration confirmation. The Forest Park Conservancy



#### Hazeldale Park blackberry removal

9 a.m. to noon Saturdays, June 19 and July 17 Help remove Himalayan blackberry from the riparian corridor of Celebrity Creek. Bring a shovel, heavy-duty work gloves, loppers and re-usable water bottle. Refreshments provided. Meet at the picnic tables near the parking lot. To register, call 503-629-6350 ext. 2953. Tualatin Hills Park & Recreation District



#### Nature nightlife presentation

6 to 8 p.m. Saturday, June 19 Join a ranger for an evening program, listen to stories and learn fun facts about nightlife in the parks. The first hour is in a classroom; the second hour is in the park. Nature Park Interpretive Center. All ages welcome. Free. Advance registration required; call 503-629-6350. Tualatin Hills Park & Recreation District



#### Pesticide-free pest control

10 to 11:30 a.m. Saturday, June 19

Discover nontoxic ways to tackle weeds, pests and plant diseases from horticulturist Weston Miller. A few steps to prevent problems early can save work later. Learn techniques to make a yard beautiful and safe for children, pets, wildlife and waterways. Metro's natural techniques garden, 6800 SE 57th Ave. Free. Advance registration encouraged; drop-ins welcome if space is available. To register, call 503-234-3000. Metro, OSU Extension Service Community and Urban Horticulture



#### **Tryon Creek junior** ranger program

1 to 2 p.m. Saturdays, June 19 to Aug. 28 Sundays, June 20 to Aug. 29 Join a park ranger and learn how you can help protect natural resources, plants and animals. Earn a junior ranger badge through nature games, nature crafts and park explorations. Suitable for ages 6 to 12. Parents must sign a permission slip and are strongly encouraged to participate with children. Free. Registration not required. Friends of Tryon Creek State



Park

#### Advanced soil health 6 to 8 p.m. Tuesday,

June 22

Learn the best ways to keep soil healthy by learning about the soil food web, compost teas and bringing soil into balance. \$5-20 sliding scale donation. Advance registration required; call 503-284-8420. Growing Gardens



#### Twilight Tuesdays at **Cooper Mountain**

7 to 9:30 p.m. Tuesdays, June 22 and July 13

What are the wildlife doing at sunset in this new park? Dusk is one of the best times to see wildlife; on this relaxing walk, Metro naturalist James Davis teaches basic techniques of wildlife watching and identification. Bring binoculars or borrow a pair on site. Suitable for adults and children age 10 and older; all participants must be able to be quiet, sneaky and patient. Some mammals to watch for: deer, coyote, raccoon and bats. Registration and \$8 payment required in advance; call 503-629-6350. Metro and Tualatin Hills Park & Recreation District



#### Slugs and bugs: Naturally managing garden pests

10 a.m. to noon Saturday, June 26

Learn safe, effective and longterm solutions for controlling pests. \$5-20 sliding scale donation. To register, call 503-284-8420. Growing Gardens



#### Madrone Wall trail building

8:15 a.m. to 5 p.m Sunday, June 27

Join the Madrone Wall Preservation Committee to construct hiking trails on this unique property overlooking the Clackamas River. Advance registration required; visit www. rei.com/clackamas. Madrone Wall Preservation Committee



#### Organic soils and compost

1 to 2:30 p.m. Sunday, June 27

Jump-start your garden with organic soil improvements. Join gardening educator Glen Andresen and gardener Kathleen Fortune at her beautiful yard in Gresham. Gather techniques to amend, mulch, compost and protect soil. Learn how soil organisms can do most of the fertilizing and tilling for you. Free. Advance registration required; call 503-234-3000. Metro, OSU Extension Service Community and Urban Horticulture, and Kathleen and Ron Fortune

### Year-round vegetable gardening

10 a.m. to noon Saturday, July 3

Learn what, when and how to plant for fall, winter and early spring harvests. \$5-20 sliding scale donation. To register, call 503-284-8420. Growing Gardens



#### Goats, chickens and ducks! Oh my!

6 to 8 p.m. Thursday, July 8 Learn about raising livestock in the city. This workshop is at the home of urban livestock farmers so come prepared to be surrounded by animals. \$5-20 sliding scale donation. Advance registration required; call 503-284-8420. Growing Gardens



#### Willamette River big canoe paddle

5:30 to 7 p.m. Thursday, July 8

Join the Lower Columbia River Estuary Partnership for a guided paddle along the Willamette aboard a 34-foot, voyager-style canoe. These fiberglass boats are unbelievably stable, incredibly maneuverable and great for observing wildlife from a unique on-water perspective. Trips depart from Southeast Portland at the Madison Street dock near the Hawthorne Bridge. Suitable for age 4 and older. \$5 for adults; children under 16 free. Advance registration required; call 503-226-1565 ext. 229. Lower Columbia River Estuary Partnership



#### **Cooper Mountain** trees of life walk

9 to 11 a.m. Saturday, July 10 Walk through the Cooper Mountain Nature Park; learn about native trees and shrubs and their heritage to the people of the Pacific Northwest as well as historical events and the culture of the forest as it applies to modern living. Age 16 to adult. \$9 per person. To register, call 503-629-6350. Tualatin Hills Park & Recreation District

### Summer at Chehalem Ridge



etro began 2010 by protecting more than 1,100 acres in the Chehalem Mountains near Forest Grove. As the largest property ever acquired by Metro's two voter-approved bond measures, the new Chehalem Ridge Natural

Area has attracted a lot of attention. It's no wonder, considering this forest of young Douglas fir trees offers shaded beaver ponds, rare oak woodlands, streams flowing to the Tualatin River and views of five Cascade peaks.

Before park planning begins, Metro's natural areas team is focusing on landscape management and restoration. But nature lovers have a chance to explore Chehalem Ridge this summer by signing up for a walking tour.

Metro provides the guide, lemonade and snacks, and transportation from a meeting point. Tours will not be strenuous, but do include moderate walking. Not suitable for children younger than 8; car seats are not available in group transportation. Free. Advance registration required; call 503-797-1545 and specify which date and tour you want to attend.

Chehalem Ridge walking tours Saturdays, July 10 and 24

#### Nature walk

9:30 a.m. to noon Explore with a Metro naturalist to see the plants and animals at Chehalem Ridge. Listen and watch for birds and discover which mammals are around by looking for the evidence they leave: tracks, trails, scat, feeding signs, burrows and other clues. Of course, plants will be easy to see since they don't move. Bring

#### **Restoration walk** 1 to 3:30 p.m.

binoculars.

Join a Metro scientist for a behind-the-scenes tour of the techniques, tricks and tools for managing a large, complex forest. Learn how the landscape and forest will change over generations, see the work that's already been done to preserve rare oak trees, and duck into the forest to experience life under the canopy.

#### Great slough cleanup 9 a.m. to noon

Saturday, July 10

Join the team of trash haulers for the fourth annual great slough cleanup at Whitaker Ponds Natural Area. Bring a boat or borrow one on site and scour the banks of the slough for garbage large and small. Remove car batteries, shopping carts, TVs, chairs, tires and more from this beautiful waterway. The herons, otters and turtles will thank you. Prizes given for the most unique items of trash. Advance registration required; visit www.columbiaslough.org. Columbia Slough Watershed Council



#### Native plants in your yard

11 a.m. to noon Saturday, July 10

With gardening expert Glen Andresen, discover how native flowering plants add beauty and benefits from birds, bees and butterflies. Learn how wildlife lightens the workload by

providing free pollination, pest control and soil improvement services. Echo Valley Natives, 18883 S. Ferguson Road, Oregon City. Free. Advance registration encouraged; drop-ins welcome if space is available. To register, call 503-234-3000, Metro OSU Extension Service Community and Urban Horticulture, and Echo Valley Natives



### Painted turtle walk 1 to 2:30 p.m. Saturday,

July 10

Oregon's turtles are rare, shy and hard to find. Smith and Bybee Wetlands Natural Area is home to one of the largest populations of Western painted turtles in the Northwest. With Metro naturalist James Davis, spot these beautiful reptiles using small telescopes. Learn about the natural history of painted turtles and why they are so rare. Suitable for all ages. Free. Advance registration required; call 503-797-1650 option 2. Metro

### Sustainable gardening essentials

1 to 2:30 p.m. Sunday,

Learn to make a yard beautiful and safe for children, pets, wildlife and waterways. The Oregonian garden writer Kym Pokorny discusses organic soils and compost, planting right for each site, attracting birds, bees and butterflies, and choosing safe methods to manage pests and weeds. Free. Advance registration required; call 503-234-3000. Metro, OSU Extension Service Community and Urban Horticulture, and Marcia and Dennis Peck

#### Friends of Trees neighborhood coordinator training

9 a.m. to 1 p.m. Saturday, July 17

Be a part of positive change! Become a neighborhood coordinator for Friends of Trees, talking to friends and neighbors, helping

them select trees for planting days. To register, call 503-282-8846 ext. 12. Friends of Trees



#### **Terrific turf without** toxics

10 to 11:30 a.m. Saturday, July 17

Learn to safely control weeds, prevent pests and water wisely with gardening expert Glen Andresen. See how mulch and seed can green a lawn without adding pollutants that flow into rivers. Metro's natural techniques garden, 6800 SE 57th Ave. Free. Advance registration encouraged; drop-ins welcome if space is available. To register, call 503-234-3000. Metro and OSU Extension Service Community and Urban Horticulture



#### Tualatin Hills **Nature Park trail** maintenance

9 a.m. to noon Saturday, July 17

Work with Nature Park staff to make improvements to soft-surface trails throughout Tualatin Hills Nature Park. Bring heavy-duty work gloves and a re-usable water bottle. Refreshments provided. Meet for an orientation inside the Nature Park Interpretive Center before heading to the project site. To register, call 503-629-6350 ext. 2953. Tualatin Hills Park & Recreation District



### Composting basics 1 to 2 p.m. Sunday,

July 18

Gardening expert Glen Andresen shares techniques to amend, mulch, compost and protect soil for plant health. Learn simple steps so soil organisms can help you till and fertilize for free. Pistil's Nursery, 3811 N. Mississippi Ave. Free. Advance registration encouraged; dropins welcome if space is available. To register, call 503-234-3000. Metro, OSU Extension Service Community and Urban Horticulture, and Pistils Nursery

### Lone Fir Cemetery twilight heritage celebration

6 to 10:30 p.m. Saturday, July 24

Portland Commissioner Nick Fish and Metro Council President David Bragdon invite you to enjoy an evening at Lone Fir Pioneer Cemetery. Bring a picnic and a blanket and come enjoy this 30-acre arboretum in the heart of Southeast Portland while learning about the City of Portland's urban forestry program. Visit the three heritage trees being dedicated: the lone Douglas fir for which the cemetery was named, the General Joseph Lane maple and a 100-foot-tall incense cedar. Metro Council President David Bragdon invites you to stay and enjoy featured artists from the Lone Fir Cemetery CD "Dearly Departed" and then watch the screening of the documentary "Come Together Home" by Ivy Lin. Come learn about the early Chinese settlers and rail



workers who were interred and later disinterred at Lone Fir Cemetery and the plans for a memorial park on the sacred site known as Block 14. Free admission. Metro, City of Portland, Friends of Lone Fir and the Chinese Consolidated Benevolent Association. L by arrangement

6:30 to 7 p.m. - Heritage tree dedication 7 to 8:45 p.m. – music, tours and entertainment 9 to 10:30 p.m. - movie



#### Native plants in the garden

10 to 11:30 a.m. Saturday, July 24

**Schedule of Events** 

With horticulturist Weston Miller, discover how native flowering plants add beauty and benefits from birds, bees and butterflies. Learn how wildlife lightens the gardening workload by providing free pollination, pest control and soil improvement services. Clackamas Community College Clairmont Hall room 117. Free. Advance registration encouraged; drop-ins welcome if space is available. To register, call 503-234-3000. Metro, OSU Extension Service Community and Urban Horticulture, and Clackamas Community College



#### Nature nightlife presentation

6 to 8 p.m. Saturday, July 24 Join the rangers of Cooper Mountain Nature Park. Listen to stories and learn fun facts about nightlife in the park. The first hour is in a classroom; the second hour is in the park. Appropriate for all ages. Free. Advance registration required; call 503-629-6350. Tualatin Hills Park & Recreation District



#### Planting vegetables for winter harvest

10 to 11 a.m. Saturday, July 24

Late summer is the time to plant in order to harvest in winter. Gardening expert Glen Andresen discusses what to plant and how to plan for four seasons of salads and vegetables. Flat Creek Garden Center, 30039 SE Orient Drive, Gresham. Free. Advance registration encouraged; dropins welcome if space is available. To register, call 503-234-3000. Metro, OSU Extension Service Community and Urban Horticulture, and Flat Creek Garden Center



#### 16th annual Columbia Slough Regatta

9 a.m. to 1 p.m. Sunday, July 25

Be part of Oregon's largest one-day paddle! Take a relaxing canoe or kayak trip on the beautiful Columbia Slough and celebrate nature in the city. Look for otters, eagles, turtles, green herons and hummingbirds and chat with community organizations. Bring a boat or schedule a complimentary 45-minute rental by calling 503-956-8558. Boat launch at the Multnomah County Drainage District, 1880 NE Elrod Drive. Suggested donation, \$7. Columbia Slough Watershed Council L by arrangement



#### Growing fruit in any yard

1 to 2:30 p.m. Sunday, July 25

See how gardening expert Glen Andresen packs fruit trees, bushes and vines into his regularsized city lot for a bounty of berries, cherries, apples and pears. Learn techniques to prune, plant, trellis, maintain and harvest fruits. Free. Advance registration required; call 503-234-3000. Metro, OSU Extension Service Community and Urban Horticulture, and Glen Andresen



#### Tree care for gardeners

6 to 8 p.m. Tuesday, July 27 Learn tips and techniques for tree care in and around the garden: how to incorporate shade-lovers and early bloomers around existing trees, how to maximize fruit output and how to plant, tend and prune the tallest members of the garden. \$5-20 sliding scale donation. Advance registration required; call 503-284-8420. Growing Gardens and Friends of Trees



#### **Edible landscaping** naturally

1 to 2 p.m. Saturday, July 31 Discover how to blend edibles and ornamentals in a water-wise landscape with horticulturist Weston Miller. Learn which flowers give salads a boost, what fruit trees complement small gardens and which native plants hide "berried" treasures. Hughes Water Gardens, 25289 SW Stafford Road, Tualatin. Free. Advance registration encouraged; drop-ins welcome if space is available. To register, call 503-234-3000. Metro, OSU Extension Service Community and Urban Horticulture, and Hughes Water Gardens



#### **Fundamentals of** animal tracking

9:30 a.m. to 12:30 p.m. Saturday, July 31

Learn to read the language of nature as spoken through the tracks and signs left by wildlife at Oxbow Regional Park. Track identification, animal gait interpretation, determining the age of a track and trailing wildlife are covered in this introductory class. The art of questioning and systematic learning strategies help participants come away with tools needed to continue growing as trackers. Suitable for age 10 and older. Registration and payment of \$10 per adult required in advance; children are free. To register, call 503-797-1650 option 2. Metro



#### Mini nature camp: **Animals**

1 to 4 p.m. Monday, Aug. 2 to Friday, Aug. 6 Spend a week at Cooper Mountain Nature Park learning about animals that live in the park and your neighborhood. Crafts, games and fun included. Suitable for ages 7 to 10. \$86 for five days. Advance registra-

tion required; call 503-629-

Recreation District

6350. Tualatin Hills Park &

#### **Grow organic** veggies

6 to 7:30 p.m. Wednesday, Aug. 11

With Oregon Tilth expert Randall Cass, learn to grow vegetables year-round. Get tips to weed effectively, water without waste, enhance soil fertility and control pests without poisons. Oregon Tilth Organic Education Center, 125 Rosemont Road, West Linn. Free. Advance registration encouraged; drop-ins welcome if space is available. To register, call 503-234-3000. Metro, OSU Extension Service Community and Urban Horticulture, and Oregon Tilth

#### **Discovering Oxbow's** ancient landscapes

10:30 a.m. to 1 p.m. Saturday, Aug. 14

Ancient stories abound in the rock layers of the Sandy River Gorge, where millions of years of channel incision reveal some of Oregon's most dramatic geologic events. World class lava floods, volcanic mudslides and inland lakes that were once home to the saber tooth salmon will be covered in this class with Metro naturalist Dan Daly. Suitable for age 10 and older. Registration and payment of \$10 per adult required in advance; children are free. To register, call 503-797-1650 option 2. Metro



#### Water-wise gardening

10 to 11:30 a.m. Saturday, Aug. 14

Put the rain to good use during all but the driest months with tips from horticulturist Weston Miller. Learn to save time, money and the health of plants through water conservation. See how to choose water-wise plants, mulch, irrigate efficiently, plant rain gardens and more. Washington County Fair Complex Demonstration Garden; use the Clover Leaf entrance at west end of fairgrounds. Free. Advance registration encouraged; drop-ins welcome if space is available.

To register, call 503-234-3000. Metro and OSU Extension Service Community Complex Demonstration Garden



### **Edible landscaping** naturally

1 to 2:30 p.m. Sunday, Aug. 15

Discover how to blend edibles and ornamentals in a water-wise landscape with author Linda Beutler and hosts Monica and Chester Mumper in their Oregon City yard. Learn which flowers give salads a boost, what fruit trees complement small gardens and which native plants hide "berried" treasures. Free. Advance registration required: call 503-234-3000. Metro, OSU Extension Service Community and Urban Horticulture, and Monica and Chester Mumper



#### **Petals without** poisons

10 to 11:30 a.m. Saturday, Aug. 21

Go organic in your rose garden and put tasty flower petals on your dinner plate. Horticulturist Weston Miller shows how to grow gorgeous flowers without chemicals, for cutting, munching or magnificent vistas. Metro's natural techniques garden, 6800 SE 57th Ave. Free. Advance registration encouraged; drop-ins welcome if space is available. To register, call 503-234-3000. Metro and OSU Extension Service Community and Urban Horticulture



#### **Sunset sit at Cooper** Mountain

7:30 to 9 p.m. Thursday, Aug. 26

Immerse yourself in the twilight, a time when wildlife is very active. Learn simple but profound techniques to get the most out of a short time spent in nature. Participants gain a bird'seye perspective of the landscape, seeing more animals and their interactions than any one person can normally see. Suitable for all ages. Meet at nature house. Free. For more information, call 503-629-6350. Metro and Tualatin Hills Park & Recreation District



#### Gardens for kids and pets

10 to 11:30 a.m. Saturday, Aug. 28

Learn what plants and products are safe for kids and pets and how to keep a lawn strong for romping on. Gather great design ideas to bring pets, plants, kids and wildlife together harmoniously. Clackamas Community College, Clairmont Hall room 117. Free. Advance registration encouraged; drop-ins welcome if space is available. To register, call 503-234-3000. Metro, OSU Extension Service Community and Urban Horticulture, and Clackamas Community College

### **Bug Fest**

11 a.m. to 4 p.m. Saturday, Aug. 28

elebrate the bazillions of tiny creatures that keep the environment healthy and in balance. All those spineless critters - beetles, bees, butterflies, ants, slugs and spiders pollinate flowers, help recycle fallen trees and are food for other animals. Explore the world of butterflies and moths in the bug lab. Games, displays, crafts, live bugs and guided activities offer fun for the entire family. Bring in bugs to be identified by an expert. Tualatin Hills Nature Park. \$2 per person. For more information, call 503-629-6350.

### Lend a hand at Bug Fest

9 a.m. to 5 p.m. Volunteers take part in

activities from interpretive education to assisting with crafts and games. Call 503-629-6450.

Tualatin Hills Park & Recreation District and Metro

To register for Metro nature activities online, visit www.oregonmetro.gov/calendar



Jerome Hart photo

### **Oxbow Adventures**

10:30 a.m. to noon, Tuesdays

he edge of an ancient forest at Oxbow Regional Park is the setting for this series of nature programs led by a Metro naturalist. Suitable for ages 5 to 10. Meet at the Alder Shelter (group picnic area A); arrive at the park entrance by 10:15 a.m. to get to the area on time. \$2 per participating child, payable at time of program for families (no charge for adults and infant siblings). For childcare centers and other organized groups, payment is required in advance. \$5 park entry fee per car, or \$7 per bus or 15-passenger vehicle. Advance registration required; call 503-797-1650 option 2. L by arrangement except River Roundup

#### Forest games | July 13

Start the summer with a laugh in an exciting day of nature games. Search for hidden objects on an "un-nature trail," build a mini nature park and play blindfold games in the shaded woods.

#### Super birds! | July 20

Spend the day soaring with big birds like osprey and turkey vultures. Find out all about the "fish hawks" and "buzzards" that surf the sky, making "M" and "V" shapes with their wings as they fly. Cross the desert and search for food in an osprey game and visit a real osprey nest.

## River bugs and volcano rocks | July 27

Discover firsthand the many creatures that live in and near the Sandy River by catching and releasing water bugs, crayfish and more. Build a sand volcano and search the riverbanks for Oxbow's ancient "out-oftown rocks." Nets and magnifying glasses are provided for close-up views.

#### Animal detectives | Aug. 3

Explore the forest like an animal detective with Metro naturalists, in search of clues left behind by mysterious wild animals. Handle plaster casts of real footprints and examine bones, bird nests and other items up close.

## Ancient forest adventure | Aug. 10

Naturalist guides lead small teams through the deep shady forest on a fun scavenger hunt. But beware – the others might be sneaking up on you!



### **Oxbow Explorers**

## 10 a.m. to 2:30 p.m. Wednesdays

n eady for something wild? Adventure awaits, playing in the cool green waters of the Sandy River, or climbing to new heights on Alder Ridge. Oxbow Explorers is for older kids who like to explore nature, meet new people and push the edge in challenging adventure games. Days are built for fun: exploring the hidden reaches of the ancient forest, learning how to survive in the wild, and camouflaging to stalk invisibly and win the game. Suitable for ages 12 to 16. \$15 per student per day or \$50 for the series of four outings. \$5 park entry fee per car. Registration and payment required in advance; call 503-797-1650 option 2.

#### Capture the flag | July 14

Test yourself as you cross into the other team's territory in search of its flag, trying to stay in the shadows while on the lookout for hidden treasure. This game sharpens the survival awareness that has kept tribal peoples alive throughout the ages.

#### Survivor | July 28

Get lost! Could you survive? Learn skills vital to staying alive in a real survival situation. Build a shelter, search for potable water and make fire without matches in this fun handson class.

#### Ridge runners | Aug. 4

Climb the forgotten trails of the ancient forest in search of bald eagle nests, elk trails and beautiful views of the Sandy River Gorge. Play invisibility games along the way and try to get close to deer as they graze in the high meadow.

#### Sandy River walkabout | Aug. 18

Scramble over rocks, learn tracking stories from river otter and coyote, and feast upon the blackberries of August in a day spent catching crayfish, dipping feet in the river and exploring the hidden beaches of Oxbow Park. River safety is a top priority.

### Around the campfire at Oxbow



**Oregon Shadow Theatre** 

Park for campfire stories and old-fashioned entertainment on weekend evenings this summer. Enjoy live music on Friday nights and captivating nature presentations and storytellers on Saturday nights.

Programs are held in the outdoor forest

amphitheater across from the campground, starting at 8:30 p.m. in July and 8 p.m. in August.

New this year Campfire shows are open only to overnight campers because day use ends at legal sunset when the park gates are locked. Free. Registration not required. For more information, call Metro at 503-797-1650 option 2.

## Camping at Oxbow

xbow's 67 campsites each include a picnic table, fire pit/cooking grill and lantern pole. Camping fee is \$20 per night and all sites are available on a first-come, firstserved basis. Two restroom/ shower buildings offer hot and cold running water, coinoperated showers, heated-air hand dryers, radiant floor heating and flush toilets. The restroom facilities and two campsites are accessible by wheelchair. Twelve pullthrough sites are available for RVs. Pets are not allowed in Metro parks and natural areas. For more information, visit www.oregonmetro.gov/ oxbow.

## The Quality Folk medicine show

8:30 to 9:30 p.m. Friday, July 30

Sing, listen and enjoy songs around the campfire with Kate Power and Steve Einhorn. Double guitars, banjos and ukuleles sweeten the harmonies in uplifting songs of life in the American landscape from award-winning songwriters and longtime mentors of the traditional sing-along.

#### Native American stories 8:30 to 9:30 p.m. Saturday, July 31

Night is falling, the river is murmuring and the campfire beckons. Join Native American storyteller Ed Edmo for an entrancing evening of stories.

### Songs with Dave Orleans the Earthsinger

8 to 9 p.m. Friday, Aug. 6 Dave Orleans brings energetic and folksy songs for all ages to the campfire. Sing along with songs about trees, watersheds, toads and much more.

### The amazing nightlife of bats

8 to 9 p.m. Saturday, Aug. 7 What's faster than a speeding mosquito, more powerful than bug repellent and able to navigate the deepest dark of night? Bats! Naturalist Kim Wilson is back with more bat facts and images. Learn about these amazing animals and watch and listen for live bats overhead.

#### Fiddlin' in the park

8 to 9 p.m. Friday, Aug. 13 Musician Greg Clarke brings oldtime tunes to the campfire. Enjoy the sounds of banjo, fiddle and mandolin among the trees. It's a contagious performance sure to get toes tapping.

## Speaking with nature by Susan Strauss

8 to 9 p.m. Saturday, Aug. 14 Traditional stories from around the world awaken the secrets of nature that reveal themselves when we truly listen. Susan Strauss, master storyteller, shares tales of St. Francis and other nature mystics as well as the sacred fool, Coyote.

#### Mississippi blues 8:30 to 9:30 p.m. Friday, July 2

Enjoy a special performance by Steve Cheseborough, the blues authority. Steve brings to life the acoustic country blues of the 1920s and 1930s on beautiful antique guitars, weaving together live music, history and lore.

#### Salmon stories, bear tales and the legend of the swallowing monster 8:30 to 9:30 p.m. Saturday, July 3

Join master storyteller Will Hornyak for an evening of Northwest myths, legends and tall tales. Will's storytelling never fails to please the crowd.

#### Old-time bluegrass tunes 8:30 to 9:30 p.m. Friday, July 9

Come join the GTE String Band with Greg Stone on guitar, Tony Rocci on mandolin and guitar, and Eileen Rocci on upright bass for a bluegrass hootenanny with fun sing-alongs for the kid in everyone.

## Slithering tales: snakes and their kin

8:30 to 9:30 p.m. Saturday, July 10

Discover the fascinating world of snakes, lizards and turtles. Metro naturalist James Davis reveals the truth behind the many myths about reptiles. Some live reptiles will join this super scaly program.

#### Fellow Travelers 8:30 to 9:30 p.m. Friday, July 16

Join the Fellow Travelers for harmonies that hark back to forgotten songs of the Oregon Trail, Civil War and even 70s sitcoms. Consisting of a former concert violinist, a Rose Festival queen and a card-carrying ne'erdo-well, this band will leave you with a smile on your face and a spring in your step.

#### All the scary animals 8:30 to 9:30 p.m. Saturday, July 17

Join author, artist and tracker Linda Jo Hunter around the campfire for true tales of bears, cougars, wolves and other big, scary animals. Examine tracks of bears and wolves up close, and learn about animals' body language. Discover how tracking and animal awareness can help you blend into the natural world to ease your fears and make you safer in the woods.

## Old-time music with Dave and Will Elliott

8:30 to 9:30 p.m. Friday, July 23

This local father and son duo from just up the hill returns to Oxbow with great bluegrass tunes. Enjoy old-style duets and sing along with some favorites.

#### Folk tales, true tales and the stories in between 8:30 to 9:30 p.m. Saturday, July 24

Join local storyteller Laura McCormack for an evening of adventure, mischief and larger-than-life characters. Laura shares stories that bring out the laughter, song and playfulness in all of us.

#### The Folk City duo

8 to 9 p.m. Friday, Aug. 20 Enjoy sparkling instrumentals on hammer dulcimer and guitar as Mick Doherty and Kevin Shay Johnson play traditional songs from the last few centuries. Sing along with original songs penned in Oregon along with favorites from the likes of Woody Guthrie and John Prine.

#### Birds of prey of the Pacific Northwest

8 to 9 p.m. Saturday, Aug. 21 Live birds of prey visit the campfire circle from the Audubon Society of Portland's Wildlife Care Center. Learn cool raptor facts and see these beautiful birds up close.

#### Rick Meyers' old time music show

8 to 9 p.m. Friday, Aug. 27 This lively show immerses the audience in the musical heritage of American pioneers along the Oregon Trail. Instruments and household items such as the musical saw, Jew's-harp, spoons, banjo, ukulele and washtub bass are part of this informative, funfilled presentation.

### All the scary animals

8 to 9 p.m. Saturday, Aug. 28 See July 17 description.

#### **Songs with Dave Orleans** the Earthsinger

8 to 9 p.m. Friday, Sept. 3 See Aug. 6 description.

#### **Shadow puppets: The** green bird

8 to 9 p.m. Saturday, Sept. 4 Oregon Shadow Theatre's magical screen comes to life as the forest darkens in the Sandy River Gorge in this story based on Mexican folktales. With a drum roll and cymbal crash, the play begins. A boy is transformed by a magician into a fortune-telling bird, and a brave girl journeys through Mexico to save him.

### Summer calendar at a glance

#### WEEKLY

#### Fridays

Tryon Creek story and stroll, pg. 12

#### Saturdays

Tryon Creek Saturday guided nature hikes, Tryon Creek junior ranger program, pg. 12

Tryon Creek junior ranger program, pg. 12

#### JUNE

- Gresham Springwater Trail walk, pg. 2
- Friends of Trees volunteer training, pg. 10 Murrayhill Park trail cleanup, pg. 10
- Smith and Bybee kayak tour, pg. 10
- State Parks Day celebration, pg. 10
- TogetherGreen volunteer day, pg. 10
- Seed collection training, pg. 11
- Edible plants for survival, pg. 10
- Mount Talbert's hidden beauty, pg. 10
- Smith and Bybee paddle, pg. 10
- Wild gourmet garden edibles, pg. 10
- Pearl District history walk, pg. 2
- 12 Wilsonville Memorial Park walk, pg. 2
- 12 Autumn Ridge Park work party, pg. 10
- Blooms for birds and bees, pg. 10
- Lone Fir historic tours, pg. 11
- 12 Native wild foods, pg. 11
- Summer bird watching, pg. 11
- Tualatin Hills Nature Park work party, pg. 11
- Tualatin River paddle tour and nature walk, pg. 11
- Willamette Greenway Trail bike ride, pg. 11
- 15 Twilight Tuesdays at Smith and Bybee, pg.11
- Composting and worm bins, pg. 11
- Morning bird walks at Cooper Mountain,
- Native Plant Center volunteer ventures, pg. 11
- 19 Columbia River teen kayak, pg. 12
- Explorando el Columbia Slough, pg. 12
- Forest Park volunteer work party, pg. 12
- Hazeldale Park blackberry removal, pg. 12
- Nature nightlife presentation, pg. 12
- **19** Pesticide-free pest control, pg. 12
- Advanced soil health, pg. 12
- Twilight Tuesdays at Cooper Mountain, pa. 12
- Slugs and bugs, pg. 12
- North Portland Sunday Parkways, pg. 4
- Madrone Wall trail building, pg. 12
- Organic soils and compost, pg. 12

#### JULY

- Mississippi blues, pg. 17
- Year-round vegetable gardening, pg. 13
- Salmon stories, bear tales, pg. 17
- Blue Lake Fourth of July fireworks, pg. 5 Twilight Tuesdays at Smith and Bybee,
- Goats, chickens and ducks!, pg. 13
- Willamette River big canoe paddle,

- Morning bird walks at Cooper Mountain,
- Old-time bluegrass tunes, pg. 17
- 10 Lone Fir historic tours, pg. 11
- 10 Painted turtle walk, pg. 13
- Native Plant Center volunteer ventures,
- Summer bird watching at Smith and Bybee, pg. 11
- Cooper Mountain trees of life walk, pg. 13
- Great slough cleanup, pg. 13
- Native plants in your yard, pg. 13
- Chehalem Ridge walking tours, pg. 13
- **10** Slithering tales, pg. 17
- 11 Mount Talbert's hidden beauty, pg. 10
- Sustainable gardening essentials, pg. 13 13 Twilight Tuesdays at Cooper Mountain,
- pg. 12
- 13 Forest games, pg. 16
- 14 Capture the flag, pg. 16
- 16 Fellow Travelers, pg. 17
- 17 Hazeldale Park blackberry removal,
- Forest Park volunteer work party, pg. 12
- 17 Friends of Trees coordinator training, pg. 13
- Terrific turf without toxics, pg. 14
- 17 Tualatin Hills Nature Park trail maintenance, pg. 14
- All the scary animals, pg. 17
- 18 East Portland Sunday Parkways, pg. 4
- 18 Composting basics, pg. 14
- Super birds, pg. 16
- 23 Old-time music, pg. 17
- 24 Native Plant Center volunteer ventures,
- Chehalem Ridge walking tours, pg. 13 Native plants in the garden, pg. 14
- 24 Nature nightlife presentation, pg. 14
- 24 Planting vegetables for winter harvest, pg. 14
- 24 Lone Fir Cemetery twilight heritage
- celebration, pg. 14 Folk tales, true tales and stories, pg. 17
- 25 Columbia Slough Regatta, pg. 14
- **25** Growing fruit in any yard, pg. 14
- Twilight Tuesdays at Smith and Bybee, pg. 11
- 27 Tree care for gardeners, pg. 14

- 27 River bugs and volcano rocks, pg. 16
- 28 Survivor, pg. 16
- 30 The Quality Folk medicine show, pg. 17
- 31 Edible landscaping naturally, pg. 15
- 31 Fundamentals of animal tracking, pg. 15

......

31 Native American stories, pg. 17

#### **AUGUST**

- 2 Mini nature camp, pg. 15
- Animal detectives, pg. 16
- Ridge runners, pg. 16
- Songs with Dave Orleans, pg. 17
- Amazing nightlife of bats, pg. 17
- **10** Ancient forest detective, pg. 16
- 11 Grow organic veggies, pg. 15
- 13 Fiddlin' in the park, pg. 17
- 14 Lone Fir historic tours, pg. 11
- 14 Oxbow's ancient landscapes, pg. 15
- **14** Water-wise gardening, pg. 15
- **14** Speaking with nature, pg. 17
- 15 Southeast Portland Sunday Parkways,
- **15** Edible landscaping naturally, pg. 15
- 18 Sandy River walkabout, pg. 16
- 20 The Folk City duo, pg. 18
- 21 Forest Park volunteer work party, pg. 12
- 21 Native Plant Center volunteer ventures, pg. 11
- 21 Petals without poisons, pg. 15
- **21** Birds of prey, pg. 18
- 24 Twilight Tuesdays at Smith and Bybee, pg. 11
- **26** Sunset sit, pg. 15
- Old time music show, pg. 18
- 28 Native Plant Center volunteer ventures, pg. 11

- 28 Gardens for kids and pets, pg. 15
- 28 Bug Fest, pg. 15
- 28 All the scary animals, pg. 17

#### **SEPTEMBER**

- Songs with Dave Orleans, pg. 18 Shadow puppets, pg. 18

## Sustainable living on the Street of

See how beautiful natural gardening and sustainable living can be at this year's 2010 NW

Natural Street of Dreams. Located atop

Forest Heights off Northwest Skyline Boulevard, the luxury home show takes place July 31 through Aug. 29. Visitors will see energy saving and nature-friendly features like native plants and luscious new MetroPaint colors made from 100 percent recycled latex paint. For more



## www.oregon**metro.gov**

#### You're invited

There are so many great things to do in the Portland metropolitan area that they won't all fit on these pages. Check out Metro's online calendar for hundreds of nature activities, volunteer ventures, tours, pedals, walks, workshops, seminars and public meetings. Visit www.oregonmetro.gov/calendar.

#### Places to go

Metro's parks offer wildlife watching, hiking, boating, camping, fishing and more. Visit www.oregonmetro.gov/parks or call 503-797-1850 to get directions and park information, reserve a picnic shelter or plan a field trip.

#### Sustainable living

Make the region greener at home, in your garden and on the road. Visit www. oregonmetro.gov/sustainableliving for guides to biking, walking, reducing waste, green cleaning and gardening with nature.

#### Getting rid of stuff

Discover everything you need to know about recycling, composting and disposing of garbage and hazardous waste on Metro's web site. Find your hauler, become a recycling star and help keep your neighborhood clean. Call Metro Recycling Information at 503-234-3000.

#### Volunteer

As a Metro volunteer, you will be directly involved in improving and protecting the region's great places for people and wildlife now and in the future. Find volunteer stories and opportunities at www.oregonmetro.gov/volunteer.

#### **Participate**

Help shape the future of the region by contributing your ideas on land, transportation, recycling, parks, trails and how we grow. Visit www.oregonmetro.gov/participate for public comment opportunities, meeting schedules and more.

### **Featured places**

#### **Blue Lake Regional Park**

20500 NE Marine Drive, Fairview 503-665-4995

#### **Oxbow Regional Park**

3010 SE Oxbow Parkway, east of Gresham 503-663-4708

#### Smith and Bybee Wetlands Natural Area

5300 N. Marine Drive, Portland 503-797-1650

#### **Mount Talbert Nature Park**

10695 SE Mather Road, Clackamas 503-742-4353

#### **Cooper Mountain Nature Park**

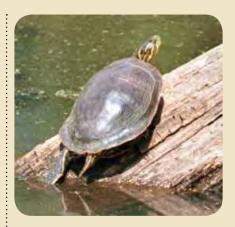
18892 SW Kemmer Road, Beaverton 503-629-6350

#### Metro's natural techniques garden

6800 SE 57th Ave., Portland 503-234-3000

#### **Oregon Zoo**

4001 SW Canyon Road, Portland www.oregonzoo.org 503-226-1561



Smith and Bybee Wetlands is home to one of the largest populations of Western painted turtles in Oregon. Check them out on a guided turtle walk this summer, or explore on your own. Home to beaver, river otter, black-tailed deer, osprey and bald eagles, the 2,000-acre natural area features accessible wildlife watching, a canoe launch and environmental art.

Jim Cruce photo

#### Metro | People places. Open spaces.

Clean air and clean water do not stop at city limits or county lines. Neither does the need for jobs, a thriving economy and good transportation choices for people and businesses in our region. Voters have asked Metro to help with the challenges that cross those lines and affect the 25 cities and three counties in the Portland metropolitan area.

A regional approach simply makes sense when it comes to protecting open space, caring for parks, planning for the best use of land, managing garbage disposal and increasing recycling. Metro oversees world-class facilities such as the Oregon Zoo, which contributes to conservation and education, and the Oregon Convention Center, which benefits the region's economy.

www.oregon**metro.gov** 



#### Metro Council

From left: Carl Hosticka, district 3; Rod Park, district 1; Kathryn Harrington, district 4; David Bragdon, Council President; Carlotta Collette, district 2; Robert Liberty, district 6; Rex Burkholder, district 5

#### Auditor

Suzanne Flynn

#### On the cover

A Douglas aster (Aster subspicatus) catches the morning sun; a sunny day spent at Blue Lake Regional Park, Jerome Hart photo.

If you have a disability and need accommodations, call 503-813-7565, or call Metro's TDD line at 503-797-1804. If you require a sign interpreter, call at least 48 hours in advance. Activities marked with this symbol are wheelchair accessible:

#### **Bus and MAX information:**

503-238-RIDE (7433)

To be added to the GreenScene mailing list or to make any changes, call 503-797-1650 option 2.

Printed on recycled-content paper; 40 percent post-consumer waste. 10140

# Metro 600 NE Grand Ave. Portland, OR 97232-2736

#### **ADDRESS SERVICE REQUESTED**

Presorted Standard U.S. Postage PAID Portland, OR Permit No. 1246

### Discover GreenScene online



Sign up to get GreenScene by e-mail www.oregonmetro.gov/greenscene



Subscribe to the GreenScene calendar RSS feed www.oregonmetro.gov/calendar



Become a fan of GreenScene on Facebook www.facebook.com/metrogreenscene



Follow GreenScene on Twitter www.twitter.com/metrogreenscene