



*Working together to protect and conserve our drinking water.*



# Annual Report

*For Fiscal Year 2015-16*



September 2016

# Annual Report

*For Fiscal Year 2015-16*

## *Background*

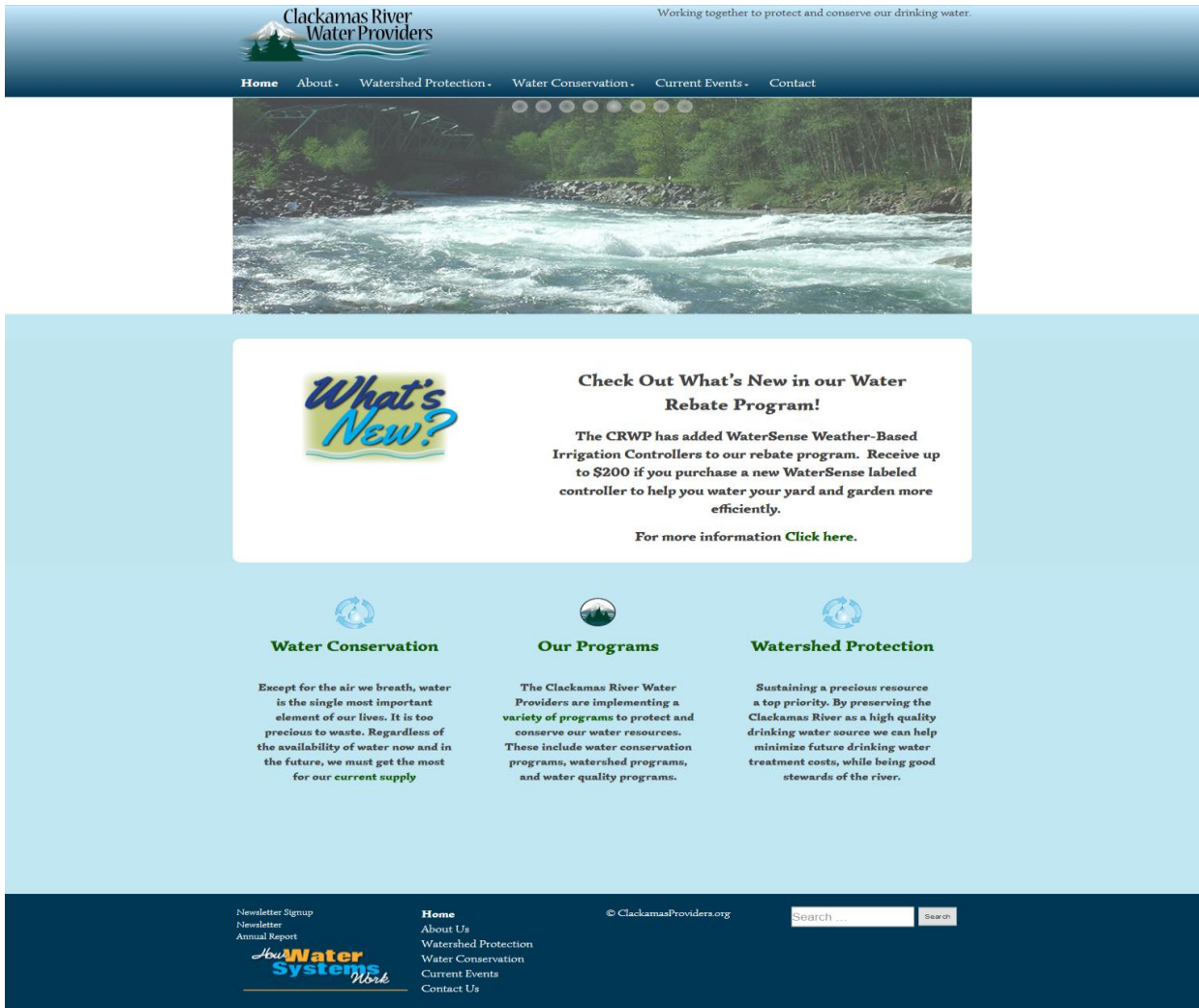
The Clackamas River Water Providers (CRWP) is a coalition of water providers that get their drinking water from the Clackamas River. The organization is made up of representatives from the City of Estacada, City of Lake Oswego, City of Tigard, Clackamas River Water, the North Clackamas County Water Commission (Oak Lodge Water District, City of Gladstone), South Fork Water Board (City of Oregon City, City of West Linn), and Sunrise Water Authority (City of Happy Valley, City of Damascus). It includes two staff people, a Water Resource Manager and a Public Outreach & Education Coordinator. The purpose of the organization is to fund and coordinate efforts regarding source water protection, and public outreach and education around watershed issues, drinking water, and water conservation so that we can ensure that the Clackamas River is used in the most sustainable way. The following is a look at the year in review.

## CRWP Website

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The Clackamas River Water Providers website continues to be updated on a regular basis. The site includes information about CRWP members, our source water protection programs, and public outreach and water conservation programs, and is used as a tool for the Conservation Rebate Program. The Resources and Documents page contains CRWP outreach material, plans, and reports that can be downloaded. Go to [www.clackamasproviders.org](http://www.clackamasproviders.org) to visit the site.

## CRWP Website Homepage



## Source Water Protection Programs

In 2010 the CRWP completed the development of a Drinking Water Protection Plan for the Clackamas River watershed. This Plan acts as a road map of potential strategies and programs to implement over the next decade and beyond to preserve the Clackamas River as a high quality drinking water source and to minimize future drinking water treatment costs. The CRWP continues to work on implementing elements of the Plan. The descriptions below describe the CRWP efforts for the 2015-16 fiscal year.

## Basin Analysis: Studies, GIS, Modeling and Water Quality Monitoring Monitoring Contract with USGS

Fiscal year 2015-16 completed the third year of a Joint Funding Agreement with USGS for the operation and maintenance of three water quality monitoring stations on the Clackamas River at Carter Bridge, Estacada, and Oregon City. These stations are strategically placed in the basin to provide a holistic view of water quality as water flows through the watershed. Although each station provides important information on their own, when used in combination the WQ monitors can pinpoint where turbidity sources originate (upper basin, middle basin, lower basin), help pinpoint changes in water quality based on land use in different part of the basin, and can help identify where to start looking if a spill occurs.

These monitoring stations continuously log pH, specific conductivity, dissolved oxygen, temperature, and turbidity. The Oregon City gauge also records chlorophyll and streamflow. In addition to the monitoring contract, the CRWP paid for replacement probes, solutions and cables, as well as the utility fees for the real time data signals associated with the USGS monitoring sites. The water quality data can be accessed via the web at <http://or.water.usgs.gov/clackamas/monitors/>.

## Macroinvertebrate Sampling

In 2012-13 the CRWP entered into a contract with ABR Inc. to develop a long-term macroinvertebrate monitoring plan for the lower Clackamas River and its tributaries (Cole 2013). This plan called for sampling from the lower mainstem Clackamas River and its major tributaries once every year for two to three years in order to produce a robust dataset necessary to identify changes in biological conditions when they occur. In September of 2015 the CRWP conducted its third round of macroinvertebrate sampling at five sites in the lower Clackamas River between river miles 0.5 and 20. These sites were selected to bracket the four drinking water points of diversion between river miles 0.8 and 3.1, and the Deep Creek subwatershed. A copy of this final report can be found by going [http://www.clackamasproviders.org/wp-content/uploads/2014/10/15-120\\_CRWP\\_Macros\\_FINAL\\_Rpt\\_2-16-16.pdf](http://www.clackamasproviders.org/wp-content/uploads/2014/10/15-120_CRWP_Macros_FINAL_Rpt_2-16-16.pdf)

## Cyanobacteria (BGA) Toxic Testing

The State of Oregon's Best Management Practices for Cyanobacteria (blue green algal) Toxins provide guidance for municipal water providers on how to test both raw and finished water at their intakes if they are downstream of a toxic algal bloom. Due to new EPA guidance for algal toxins the CRWP BGA Response Plan and Flow Chart were updated to reflect these new guidelines. During the summer of 2015 North Fork reservoir

experience a blue green algae bloom for most of the summer. Low levels of toxins were detected in North Fork on four occasions triggering both the City of Estacada and the City of Lake Oswego to test both their raw and finished water for toxins. Low levels of toxins were found in Lake Oswego's raw water twice. The CRWP coordinated these efforts and paid for the toxin testing costs.

### 2013 319 Grant for Septic System WQ Monitoring

In the fall of 2013 the CRWP received a \$30,000 319 grant from DEQ. The purpose of this grant was to analyze the potential contribution of high-risk septic systems to the microbial pollution load of the lower Clackamas River using advance molecular techniques targeting human specific indicator bacteria among the bacterial class bacteroidetes. This helped us determine whether the identified high-risk septic systems are truly a problem, as well as gave us a better understanding of whether *E. coli* violations are from people or animal sources. Monthly sampling took place at 7 locations from April 2014 thru April of 2015. This project was completed and the Final Report was submitted to DEQ in February of 2016. To download a copy of this report go to <http://www.clackamasproviders.org/wp-content/uploads/2014/10/MST-Clackamas-River-Watershed-Final-Report.pdf>

### Education and Research Assistance

#### Clackamas Community College and Portland State University Interns

Staff from the CRWP continues to work with the Clackamas Community College's Water & Environmental Technology Program and Portland State University to provide internship opportunities for students to support CRWP related projects. This year the CRWP provided stipends to three interns from Portland State University and one intern from Clackamas Community College.

One intern from Portland State University conducted a Geographic Information System (GIS) analysis of the Clackamas River Watershed to define and interpret the riparian corridors and to conduct a canopy assessment of the river and stream in the watershed. The other two graduate students conducted two surveys for the CRWP. The first survey looked at watershed landowners perspectives on watershed stewardship programs. The result from for this survey can be downloaded at [http://www.clackamasproviders.org/wp-content/uploads/2014/10/Clackamas\\_Landowner\\_Survey\\_Summary\\_2016.pdf](http://www.clackamasproviders.org/wp-content/uploads/2014/10/Clackamas_Landowner_Survey_Summary_2016.pdf)

The second survey focused on CRWP member customer's views of their desire to participate in ongoing drinking water source protection efforts. The final results of this survey are expected to be finalized during the fall of 2016. The CCC intern worked with the CRWP Public Outreach & Education Coordinator on public outreach and education efforts.

## Point Source Evaluation and Mitigation

### Tracking, evaluating, and monitoring point sources (water quality and other permits)

The CRWP continues to review water quality permits that come up for renewal to see if there could be an impact on drinking water quality, and if there is an opportunity to provide public comment on these permits. The CRWP comments generally look at ways to enhance permit requirements and ways to better notify CRWP members of spills, overflows, or contamination events. In addition this is another tool to help educate and remind permittees that the Clackamas River is an important drinking water source.

## Portland General Electric (PGE) Blue Green Algae Team/Mitigation Fund Committee

The Clackamas River Water Providers continue to be an active participant in PGE's Blue Green Algae Team which oversees PGE's Blue Green Algae Monitoring Program and PGE's Mitigation Fund Committee. This year the Blue-Green Algae Team reviewed the 2015 Annual Blue-Green Algae Report, which included results from the yearly monitoring program. No changes were recommended for 2016. PGE's Mitigation Fund Committee met a number of times this year to review applications from potential project proponents for the \$3.5 million dollars available in the 2015 funding cycle. The Committee ended up approving full or partial funding for 11 restoration projects in the Clackamas River basin.

## Nonpoint Source Evaluation and Mitigation

### Eco Biz Certification Support

The CRWP continues to work with the Pollution Prevention Outreach Team which is a group of pollution prevention experts in the Portland metro area that administers the EcoBiz certification program. This certification program recognizes businesses that go beyond compliance with local environmental requirements and implement pollution prevention efforts in their work sites. Businesses are certified through an intensive application and evaluation process.

During the 2015-16 fiscal year the CRWP provided funding to increase EcoBiz outreach efforts in the lower Clackamas River (Hwy 212/224 industrial area). EcoBiz staff contacted and provided technical assistance to four (4) property management companies, to nine (9) automotive shops, and twenty three (23) landscape contractors. Most of landscapers contacted received an outreach letter offering free technical assistance for EcoBiz Certification. In addition the CRWP contributed to an EcoBiz Landscape advertisement in All Things Real Estate, promoting EcoBiz Certified Landscapers. See Appendix A. The

final report can be downloaded at [http://www.clackamasproviders.org/wp-content/uploads/2014/05/PPRC-Final-Report-FY-15\\_16-CRWP.pdf](http://www.clackamasproviders.org/wp-content/uploads/2014/05/PPRC-Final-Report-FY-15_16-CRWP.pdf)

## Septic System Workshops and Presentations

Two *Know Your Septic System Check it, Fix it, Maintain it!* workshops supported by the CRWP were offered in the 2015-16 fiscal year. The City of Estacada workshop was canceled to do low registration. The City of Damascus had almost 50 people in attendance. These workshops presented information on how septic systems work, and why they need to be maintained, along with information on the financial assistance the CRWP provides for septic system owners in the Clackamas River watershed. In February the CRWP partnered with Clackamas County staff to give a presentation on septic systems and the importance of take care of and maintaining them to protect water quality, to a local Community Planning Organization. See Appendix B. Video of the Damascus workshop can be downloaded at

[http://damascus.granicus.com/MediaPlayer.php?view\\_id=1&clip\\_id=129](http://damascus.granicus.com/MediaPlayer.php?view_id=1&clip_id=129)

## Septic System Financial Assistance Program

The CRWP continued to offer septic system owners that live within the Clackamas River watershed financial assistance for septic system inspections and repairs. To be eligible for the program septic system owners had to live in the watershed upstream from CRWP drinking water intakes and use a DEQ Oregon Septic Smart certified business/contractor. A total of two \$100 septic system inspections and/or pumping rebates were processed and five applications for the repair cost share program for over \$4,000 were processed.

## Down the River Clean Up Sponsorship

For the sixth year in a row the CRWP has provided funding to We Love Clean Rivers, Inc to hire an event coordinator for the Annual Clackamas Down the River Clean Up which took place in September of 2015. The 13th Annual Down the River Clean Up included 250+ volunteers and cleaned up nearly 2 TONS (3,800 lbs.) of trash from the Clackamas River while recycling 82% of that trash, the highest recycling rate in 13 years. As an event sponsor the CRWP's logo is placed on event marketing and outreach material. See Appendix C.

## 2014 SRF Grant for Interpretative Signage

In the Fall of 2014 the CRWP received a \$30,000 Drinking Water Source Protection Grant. The purpose of this grant was to install attractive interpretative signage at parks and boat ramps in the lower Clackamas River to help educate our river users how their actions can impact the water quality of the river making it more expensive for our drinking water treatment plants downriver to treat this water. In addition to signage an outreach

brochure was created. Installation of the signs is being completed during the summer of 2016 and it is expected that the final report will be submitted to the State in September. *See Appendix D.*

## Pesticide Reduction Efforts with the Clackamas County Soil and Water Conservation District

The CRWP continued to work with the CSWCD to leverage funding for pesticide reduction through the Windsock Program and the Pesticide Sprayer Efficiency Cost Share Program. *See Appendix E.*

Windsock Program – The purpose of this program is to help agricultural producers apply pesticides without losing chemicals to drift from wind. The Clackamas Soil and Water Conservation District in partnership with Clackamas River Water Providers, offers producers free calibrated windsocks. These windsocks are calibrated to indicate wind speed from 2 to 12 miles per hour. Windsocks are attached directly to the tractor for real time information to make quick, more accurate decisions on spraying practices for reducing drift. To date 25 windsocks have been distributed. Five producers have two windsocks: either for two separate locations or one for an insecticide sprayer and the other for a herbicide sprayer.



Sprayer Efficiency Cost-Share Program – The Sprayer Efficiency program provides up to \$500 toward the replacement of a limited number of parts for commercial pesticide spray equipment used by agricultural producers. The purpose of this program is to increase sprayer efficiency to reduce the amount of pesticide used. Reducing pesticides reduces the risk of polluting nearby waters, used by humans, fish, and wildlife. To date only one Clackamas River watershed grower has taken advantage of the program.

Workshops - Two workshops were conducted during the 2014-15 fiscal year which the CRWP helped sponsor. They covered the following topics: *Sprayer - Set Up for Success* and *Whole Farm Planning to Manage Pests and Minimize Pesticide Use*. Combined 55 people attended these workshops.

## Pesticide Reduction Efforts with the Clackamas River Basin Council

For the eighth year in a row the CRWP has worked with Clackamas River Basin Council to support an outreach program for voluntary pesticide reduction through the distribution of educational fact sheets, and new this year the implementation of a Pesticide Pledge



Program. This program is designed to educate property owners about the wise use of pesticides and to empower them to use alternatives to pesticides. Pledge participants then have the opportunity to display a basin-specific yard sign that acts as a reminder of the steps they are taking to promote and enhance watershed health. *See [Appendix F](#).*

## CRBC Financial Support

The CRWP continues to provide funding for operational support for the Clackamas River Basin Council. The Clackamas River Basin Council is working to protect and improve water quality, and fish and wildlife habitat in the Clackamas River basin.

## Disaster Preparedness and Response

### The Clackamas Watershed Spill Committee

In November of 2015 the CRWP hosted the fourth annual Clackamas River Spill Committee meeting. Staff from DEQ, Clackamas County, ODOT, as well as local hazmat and first responders attended the meeting. As part of this meeting the group completed a driving tour of drinking water intakes, stormwater outfalls, and public access points so that committee members would have a better situational awareness of potential contaminant pathways and resources to be protected. The remainder of the meeting was spent looking at how to incorporate the field trip information into the geographic response plan strategies, and the requirements and utility of a web-based GRP interface for sharing the response strategies and other relevant information. This resulted in the completion of six detailed spill response strategy summary sheets which can be viewed online at <https://crwproviders.maps.arcgis.com/apps/webappviewer/index.html?id=a2a2de0a324c46e5b7636d3426b20dco>

## Table Top Exercise

In December of 2015 the CRWP facilitated a Table Top Exercise for CRWP members. The primary purpose of this exercise was to enhance the ability of CRWP member staff and personnel to effectively communicate with each other, Clackamas County staff, and our customers regarding "Boil Water" or "Do Not Drink" events, and for participants to get some hands on experience using the Regional Water Providers Consortium's Drink Water Advisory (DWA) Tool. 30 people from 13 organizations participated in the exercise.

## Public Outreach and Information Sharing

See the Public Outreach & Education Program section for additional information.

## Annual Watershed Tour

The Annual CRWP Watershed Tour was held on Saturday October 3rd, 2015 and focused on the upper portion of the Clackamas Watershed. The tour included presentations by PGE and the USFS, who highlighted their watershed and water quality efforts. The day included stops with the USFS to talk about the 36 Pit fire, and at mile post 41 to talk about a fish restoration project. Stops with PGE included the North Fork Dam to see their new juvenile fish surface collector, and their adult fish sorting facility. Thirty six people participated in the tour.

### 2015 Watershed Tour



## Other Water Resource Activities

### Stored Water Agreement with PGE

The CRWP continues to implement the Stored Water Agreement with PGE, providing us with the ability to call for water to be released from Timothy Lake at certain times of year for municipal water use. In September of 2015 the CRWP exercised the agreement and made the first ever call for water which required PGE to release additional water from Timothy Lake in the month of September.

### Water Resource Related Committees

The Water Resource Manager continues to represent the interests of the CRWP on a number of different water resource related committees. These include: the Oregon Water Utilities Council (Chair), the Consortium Emergency Planning Committee, Clackamas County Homeland Security Task Force, the Clackamas Stewardship Partners, EcoBiz Pollution Prevention Outreach Team, ORAWRA, and the PNWS-AWWA Water Resource Committee.

## Public Outreach & Education Program

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This program provides public outreach, education, as well as conservation services and programs to CRWP members. Some of the activities described below are not provided for City of Lake Oswego, the City of Tigard, and Clackamas River Water. The primary focus of the program is on education and outreach efforts to the public regarding source water protection and watershed issues, drinking water treatment and distribution, indoor and outdoor water use as well as water conservation. This allows us to provide a holistic view of how our water resources are connected and why it is important to protect and conserve the water we get from the Clackamas River. There are a number of individual programs or components that provide awareness, information, motivation and action for our customers. The following is a summary of what the public outreach and education program accomplished this past year.

### Youth Education, Presentations, and Assembly Programs

The CRWP youth education program is an integral part of the our outreach and education efforts. The goal of this program is to educate students about the Clackamas River watershed, the process for treating and distributing public drinking water, and water conservation issues so they develop overall awareness and water changing behaviors. The secondary goal is for students to take this information back to their parents.

The CRWP programs are offered at no cost to the schools and range from classroom presentations done by staff, assembly programs performed by contractors, as well as education resources for teachers. A total of 85 classroom presentations, assembly programs, and treatment plant tours were completed between July 1, 2015 and June 30, 2016 (these numbers do not include the Children's Clean Water Festival and the CCWET Celebrating Water Event). See Appendix G for a list of all of the schools that were offered the CRWP programs. See Appendix H for a breakout by CRWP member of where these programs were completed.

### New Story Development

This past year CRWP staff worked closely with professional story teller Will Hornyak on a two part project. The first part of the project completed in year 2015-16 was to develop two new stories that are Clackamas River and Clackamas watershed specific for our schools. The second portion of the project will be completed next year and will tape the two stories so the CRWP can give each teacher in our CRWP educational and outreach service areas a copy of the audio CD.

## Treatment Plant Tours

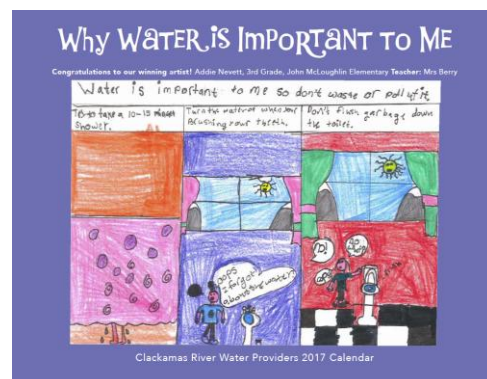
The Public Outreach & Education Program coordinates water treatment plant tours for the general public and CRWP member area schools. Participants are matched with tours of the treatment plant that their water comes from. This year 14 tours of the North Clackamas County Water Commission plant were given to schools from the City of Gladstone, City of Happy Valley and the City of West Linn, and 4 tours of the South Fork Water Board treatment plant were given to the Oregon City Service Learning Academy. Many of these tours were also paired with tours of the Tri-City wastewater treatment plant so that students could see the whole human part of the water cycle.

## Mini Water Education Grants for Teachers

The youth education program also offers Mini Water Education Grants to teachers. These grants up to \$250 are intended to provide supplemental funding for water related projects or field trips to encourage water education in the schools. We processed 9 grants for 19 teachers this past year. See Appendix I for more detailed information.

## Water Conservation Calendar

The Annual Water Calendar is a collaborative project with CRWP grade schools where local students participate in a coloring contest with a water education theme. Thirteen pictures were chosen from all the entries submitted and used to create a Water Conservation Calendar. The theme for the 2017 calendar was “Why Water Is Important to Me”. Students were encouraged to create pictures depicting what they had learned about water and how much of the earth's water is fresh water and available to drink. Seventeen classes from eight different elementary schools participated in the contest and approximately 600 pictures were submitted.



Each school that had at least one class participate in the contest will receive a box (125) of calendars to give out to family and friends or to use as fundraisers. Additional calendars are available to teachers, families, and the general public upon request, as well as being distributed throughout Clackamas River Water Provider education and outreach program members City Halls, Libraries and offices. See Appendix J for a list of which schools participated in the project.

## 11th Annual Clackamas County Water Education Team (CCWET) Celebrating Water Festival

CRWP staff continues to Chair the CCWET group. The group worked on the organization

of the 11th Annual CCWET Water Festival. The Festival took place March 15th, 2016 at Clackamas Community College. The festival played host to 11 schools with 23 classes and approximately 800 4th & 5th grade students from Clackamas County. The festival included 22 exhibits and 2 stage shows performed by Will Hornyak & Recycleman and the Dumpster Divers, along with 25 high school volunteers from Clackamas High School.

### Support of Clackamas County Recycle at Work Program

The CRWP continues to partner with Clackamas County to support the Recycle at Work Program by providing the County with bathroom/kitchen faucet aerators and a number of water conservation brochures to help business owners within the CRWP service areas learn how to be more efficient with their water. The program conducts on-site assessments of current waste, water, energy and purchasing practices. Companies receive recommendations, tools and ongoing support to help them be more resource-efficient.

### Support of Clackamas Community College Horticultural Department and Water Efficient Landscaping

The CRWP continues to support Clackamas Community College Horticultural Department in a number of ways. This past year the CRWP put \$2,500 in the Clackamas Community College Foundation to support updating the existing Water Efficient Demonstration Garden signage and the instillation of a new demonstration rain garden. The rain garden collects rain from the roof of the existing demonstration garden kiosk. The funding will also be used for the installation of an additional rain garden installed to manage storm water in one of the parking lots to be completed in 2016-17.

### Clackamas Community College Stormwater Management Workshop

For a second year in a row CRWP and City of West Linn staff presented a Stormwater Management workshop per the request of Clackamas Community College. The workshop was designed to teach landscape professionals about municipal stormwater management, design and maintenance requirements, and how it all relates to water quality and watershed health. Fifteen people attended the workshop. The workshop was approved for 4 continuing educational hours by the Landscape Contractors Board.

### Mobile Garden

In 2014, the CRWP entered into a MOU with a number of other water resource organizations in Clackamas County for the maintenance and care of the mobile demonstration garden. The group takes the garden to various events throughout the spring and summer to educate the public about native and water efficient gardening. A few of this year's events included the Master Gardener Spring Fling, the Oregon City Farmer Market Pollinator Fair, and the Lavender Festival. This summer will be the fourth

year the group has had the garden.

## Community Events

The CRWP staff participated in a total of 10 community events within the CRWP service areas providing conservation, source water protection, drinking water information, and promotional items at these events. This gave staff the opportunity to engage in one on one conversation about water conservation and watershed issues with our customers. See Appendix K for the list of events.

## Adult Presentations

CRWP staff participated in and/or presented at a total of 8 public education and water conservation presentations to adult audiences. These presentations gave staff the opportunity to talk to members of our community as well as peers regarding the Clackamas River Water Providers group and how we operate, where our water comes from, how we treat the river water for public use and why watershed protection and water conservation are so important. The goal of this program is to continue outreach to neighborhood associations, CPO's, local garden groups, or other civic groups interested in learning about where our water comes from, and how they can conserve water and protect our watershed. See Appendix L for the list of presentations completed.

## Newsletters & Websites

CRWP staff continues to send CRWP public education and outreach member agencies articles and information throughout the year for their newsletters and websites. Topics ranged from general water conservation, indoor conservation, to outdoor conservation tips, watershed and water resource issues, emergency preparedness as well as resources that are available through the CRWP such as the rebate program. In addition the CRWP has a quarterly E-newsletter that it distributes to CRWP members and interested parties, as well as being posted on the CRWP website. See Appendix M for an example of our quarterly E newsletter.

## Conservation Outreach Materials

The CRWP continues to develop outreach materials and use a number of promotional items with the CRWP logo and contact information on them such as shower timers, pencils, paper bags, indoor water audit kits and brochures. These were passed out to citizens at events, member offices and city halls, through the school programs, and mailed to customers upon request. A more detailed description of new outreach pieces created this past year are below.

## Bumper Sticker

A bumper sticker was created using the front panel of the 2014 "Water Lean Grow Green" summer brochure. The bumper sticker is bright, colorful and reminds everyone you can still have a colorful and beautiful garden while being efficient with your outdoor water use. These were passed out to citizens at events, member offices and city halls. See Appendix N.

## 2016 Summer Brochure

The Public Outreach and Education staff worked with CRW staff to develop a 2016 summer brochure focusing on the basic and most effective outdoor water management tips. Members were encouraged to use the brochure as a bill stuffer and/or place the brochure on their individual websites. In addition 2000 brochures were printed for staff to hand out during the summer events. See Appendix O.

## How Water Systems Work Web Version

Staff worked with designers to take the "How Our Water Systems Work" booklet to make it web, phone and tablet friendly. The web version of the very successful booklet was shared with CRWP members and their communities, and can be downloaded from our website.

## Watershed Map for Website

Staff has been working on the creation of an interactive Clackamas River watershed map for the CRWP web site. The map will allow customers to see the whole watershed and zoom in for a close up of all of the CRWP service areas. Different points of interest will be highlighted on the map such as land use, PGE dams, major parks, fish hatcheries, water treatment plants and areas they serve. Each point of interest will give the viewer an option to click for information and/or web site links. The new interactive map should be live on the CRWP website sometime in the fall of 2016.

## Technical and Financial Assistance Program

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### Water Conservation Rebate Program

The CRWP public outreach and education program completed its 7th year administering the Water Conservation Rebate Program. The Rebate Program continues to be very popular with the CRWP customers. The Program offers a range of rebates to ensure that there is applicability to our vast range of customers. It consists of a \$100 rebate for replacing old toilets with new High Efficiency Toilets (HET), a \$75 rebate when customers purchase a new Energy Star certified residential clothes washer, a \$50 rebate for hose bib timers and/or irrigation rain switch, and up to \$60 (20 per account at \$3 each) if

customers replaced their old inefficient irrigation spray nozzles with efficient water conserving models.

The program is marketed through the distribution of a brochure at CRWP member's offices, and at local Home Depots and Lowes, and to the public at summer events as well as through the CRWP website. Funds were depleted by June 2016. A total of 117 customers took advantage of the program. In June the rebate brochure was updated to include changes in the toilet rebate program and the addition of a water sense weather based irrigation controller rebate available starting July of 2016. See Appendix P.

## Other Public Education and Outreach Activities

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### Conservation Related Committees

CRWP staff continues to attend meetings and represent the CRWP interests on a number of different public outreach and conservation related committees. These include the Regional Water Provider's Consortium Conservation Committee, the Regional Water Providers Water Communicators Network, the Children's Clean Water Festival Planning Committee, acting Chair of the Clackamas County Water Education Team (CCWET), a member of the Clackamas Sustainability Cooperative, and a member of the PNWS-AWWA Conservation Committee and of the PNWS-AWWA Public Information Committee.

Staff is also a member of the Oregon Landscape Contractors Board and a long time member of the Oregon Landscape Contractors Exam Review Committee which is responsible for reviewing exams that Oregon landscape professionals are required to take for professional certification.



## Appendix A - EcoBiz Outreach

### All Things Real Estate advertisements



## Appendix B - Septic System Workshop Mailer

***Don't miss out!***  
***You have two chances to attend!***

### **Know Your Septic System**

***Check it, Fix it, Maintain it!***

**Tuesday, April 5th**  
**6:00 - 8:00pm**  
**Estacada Public Library**  
**825 NW Wade St.**  
**Estacada, OR 97023**

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**Wednesday, April 20th**  
**6:00 - 8:00pm**  
**City of Damascus Council Chambers**  
**19920 SE Highway 212**  
**Damascus, Oregon 97089**

- FREE Workshop includes nitrate screening of well water.
- Clackamas Watershed attendees are eligible for \$200 Septic System Inspection Rebate.
- **Class size is limited, so registration is required.**

<p>The workshop will cover:</p> <ul style="list-style-type: none"><li>• how septic systems work</li><li>• operation and maintenance</li><li>• signs of failure, codes, and permits</li><li>• financial and technical assistance</li></ul>
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To register, contact Tami at Clackamas Soil and Water Conservation District (503) 210-6000 or [tguttridge@conservationdistrict.org](mailto:tguttridge@conservationdistrict.org)

***Save time and money by***  
***maintaining what you have!***

Sponsored by: Clackamas River Water Providers, Clackamas Soil and Water Conservation District, Clackamas County, City of Damascus, and Oregon Department of Environmental Quality

Appendix C – Down the River Clean Up

**WE LOVE CLEAN RIVERS™**  
AND clackamas river basin council  
PRESENT THE

# DOWN THE RIVER CLEAN UP

on the Clackamas  
**Sunday, Sept. 13, 2015**

All non-motorized paddle crafts invited to volunteer  
On-land positions, SCUBA divers & artists are invited too!

**FREE BBQ for ALL VOLUNTEERS!**

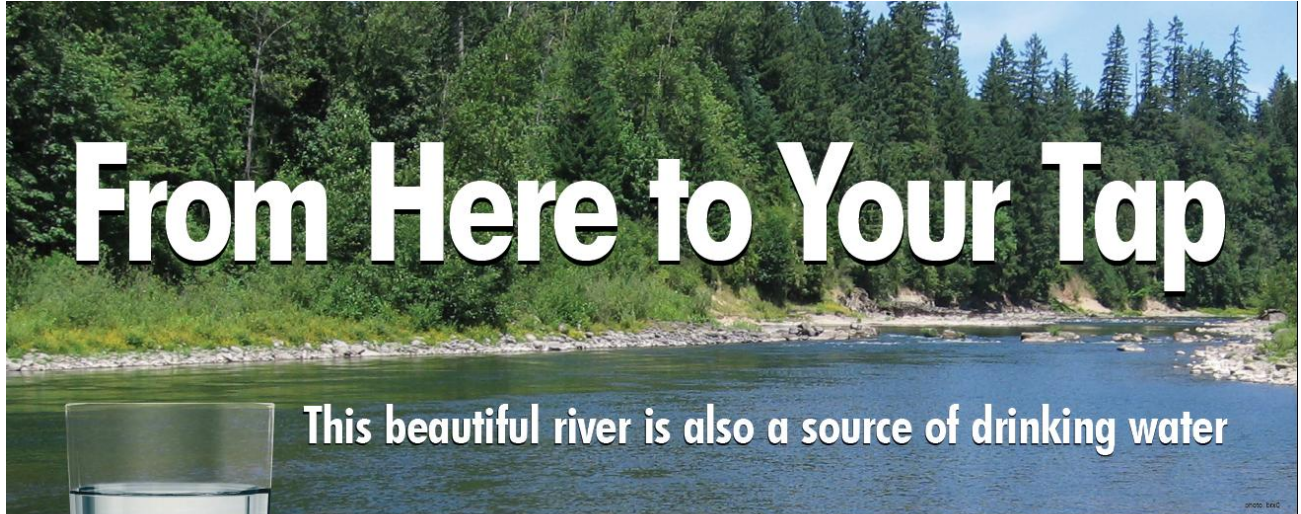
All participants must pre-register at:  
[www.WeLoveCleanRivers.org](http://www.WeLoveCleanRivers.org)



Boaters may launch at Milo McIver State Park - Lower Boat Ramp,  
Barton Park, Carver Boat Ramp, & Riverside Park

## Appendix D - Park Interpretative Signage

### Milo McIver State Park Signs



This beautiful river is also a source of drinking water

We paddle in it, we fish in it, we play in it. And sometimes, we just sit and look at it. When you do, please remember that the Clackamas supplies drinking water to hundreds of thousands of people. Thanks for helping keep it clean.

**Some simple ways to help** ▶

- Stash Your Trash
- Clean up after your pet
- Stay on the trails. It helps keep stream banks from eroding.
- Use restrooms! Keep human waste out of the river.

[www.clackamasproviders.org](http://www.clackamasproviders.org)



## Interpretative Sign For All Other Parks

**DID YOU KNOW?**  
*The Clackamas River provides drinking water to almost 300,000 people.*

**Help us protect our drinking water source!**

- Stash your trash
- Clean-up after your pets
- Stay on trails - It helps keep stream bank from eroding
- Use restroom! Keep human waste out of the river
- Adopt clean boating practices

*The Clackamas River belongs to us all.*

**Please use it wisely.**

Brought to you by:

CLACKAMAS COUNTY  
PGE Portland General Electric  
Clackamas River Water  
OREGON CITY  
OREGON STATE MARINE BOARD  
Clackamas River Water Providers  
IFA Infrastructure Finance Authority

## Signage Outreach Brochure

**We PADDLE in it.  
We FISH in it.  
We PLAY in it.**  
And sometimes...  
**We just sit and LOOK at it.**


When you do, please remember that the Clackamas River supplies drinking water to hundreds of thousands of people.


By preserving the Clackamas River as a high quality drinking water source we can help minimize future drinking water treatment costs, while being good stewards of the river.


**Other Ways to Get Involved!**


- Attend a Clackamas River Water Providers city council, or water board meeting.
- Call your water provider to obtain more information.
- Join our local watershed council, the Clackamas River Basin Council.


In partnership with:


  
Clackamas County


  
Oregon Irrigation Finance Authority

  
Portland General Electric

  
Clackamas River Water

  
City of Oregon City

  
Oregon State Marine Board


  
Clackamas River Water Providers  
 14275 S. Clackamas River Dr.  
 Oregon City, OR 97045  
[www.clackamasproviders.org](http://www.clackamasproviders.org)

CRWP Members:  
 City of Estacada, City of Gladstone, Oak Lodge Water District, South Fork Water Board (City of Oregon City and City of West Linn), Sunrise Water Authority (City of Damascus and City of Happy Valley), and City of Tigard.

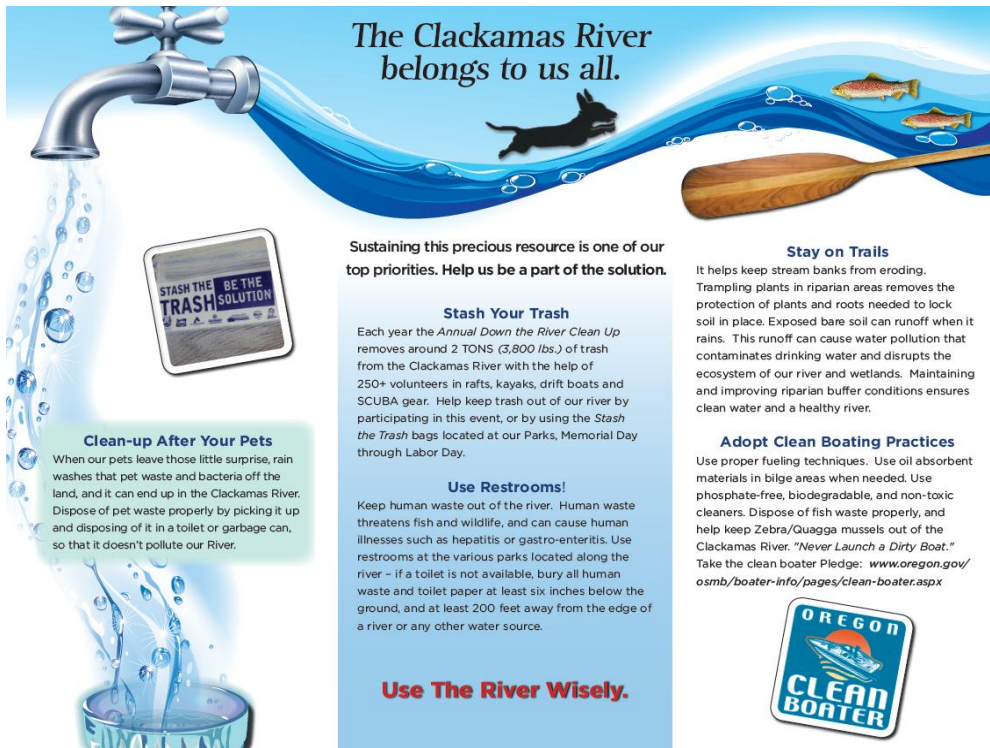
**DID YOU KNOW?**

• • •


The Clackamas River provides drinking water to almost 300,000 people.



Simple ways you can help us protect our drinking water source!



## The Clackamas River belongs to us all.



**Sustaining this precious resource is one of our top priorities. Help us be a part of the solution.**

**Clean-up After Your Pets**

When our pets leave those little surprise, rain washes that pet waste and bacteria off the land, and it can end up in the Clackamas River. Dispose of pet waste properly by picking it up and disposing of it in a toilet or garbage can, so that it doesn't pollute our River.

**Stash Your Trash**

Each year the *Annual Down the River Clean Up* removes around 2 TONS (3,800 lbs.) of trash from the Clackamas River with the help of 250+ volunteers in rafts, kayaks, drift boats and SCUBA gear. Help keep trash out of our river by participating in this event, or by using the *Stash the Trash* bags located at our Parks, Memorial Day through Labor Day.

**Stay on Trails**

It helps keep stream banks from eroding. Trampling plants in riparian areas removes the protection of plants and roots needed to lock soil in place. Exposed bare soil can runoff when it rains. This runoff can cause water pollution that contaminates drinking water and disrupts the ecosystem of our river and wetlands. Maintaining and improving riparian buffer conditions ensures clean water and a healthy river.


**Use Restrooms!**

Keep human waste out of the river. Human waste threatens fish and wildlife, and can cause human illnesses such as hepatitis or gastro-enteritis. Use restrooms at the various parks located along the river - if a toilet is not available, bury all human waste and toilet paper at least six inches below the ground, and at least 200 feet away from the edge of a river or any other water source.

**Adopt Clean Boating Practices**

Use proper fueling techniques. Use oil absorbent materials in bilge areas when needed. Use phosphate-free, biodegradable, and non-toxic cleaners. Dispose of fish waste properly, and help keep Zebra/Quagga mussels out of the Clackamas River. "Never Launch a Dirty Boat." Take the clean boater Pledge: [www.oregon.gov/osmb/boater-info/pages/clean-boater.aspx](http://www.oregon.gov/osmb/boater-info/pages/clean-boater.aspx)

**Use The River Wisely.**



## Appendix E – Pesticide Reduction Efforts with the CSWCD

### Windsock Program Flyer

# Watch the Wind to Reduce Pesticide Drift

Since 2000, monitoring conducted by Oregon Department of Environmental Quality has detected pesticides in Clackamas River tributaries at concentrations that exceed benchmarks set to protect fish and invertebrates

**Pesticides of concern include:**

- bifenthrin: Capture 2EC, Brigade 2EC, Brigade WSB, Wisdom
- chlorothalonil: Bravo Weather Stik, Chloronil 720
- chlorpyrifos: Yuma and Lorsban Advanced
- oxyfluorfen: Goal2XL, Goal Tender

Pesticide Stewardship Partnership Monitoring Summary  
- Clackamas River Watershed (February 2014)

To help agricultural producers apply pesticides without losing chemicals to drift from wind, Clackamas County Soil and Water Conservation District is offering calibrated windsocks



Windsocks are attached directly to the tractor for real time information to make quick, more accurate decisions on spraying practices for reducing drift



Windsocks are calibrated to indicate wind speed from 2 to 12 miles per hour



If you are a producer in Clackamas County and are interested in receiving a windsock for your sprayer, contact the District at 503-210-6000



Additional funding support provided by



Post card sent to nursery and Christmas tree growers

## **Is Your Sprayer As Efficient As It Should Be?**

Let us help you replace sprayer parts so you:

- **get the most efficient pesticide coverage**
- **use less costly herbicides and pesticides**
- **reduce drift to unwanted areas**

**Funds are limited  
so you must  
call before you  
purchase.**

**Clackamas Soil and Water Conservation District is offering  
to reimburse you up to \$500 to replace sprayer tips, pressure  
regulators, pressure gauges, hoses, valves, and ChemSaver  
Check Valve Nozzle Bodies.**

---

**Clackamas Soil and Water Conservation District**  
**lkilders@conservationdistrict.org**  
**503-210-6002**

**Save time and money  
by making your sprayer  
more efficient!**

Funding support by:

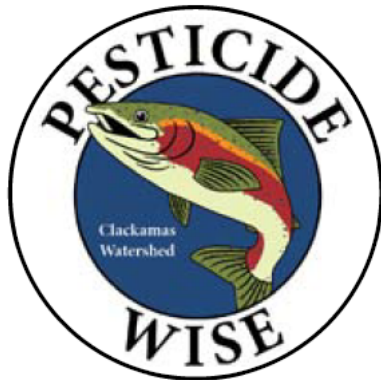




## Appendix F - Pesticide Reduction Outreach Program with CRBC

# Take the Pledge!

As a resident in the Clackamas Watershed that cares about protecting water quality for people, fish, wildlife, drinking water and pets - here's your chance to take the Parting with Pesticides Pledge! Get a FREE yard sign in honor of your commitment, letting neighbors know that your yard is healthy and safe.



### I will use pesticides wisely by:

- Reducing my use of pesticides-including weed and feed
- Choosing safer alternative weed and pest control products when I can
- Always reading and following label instructions
- Making sure I properly sort and dispose of pesticides
- Spraying only in ideal conditions (not in wind or rain)
- Talking to my neighbors about being Pesticide Wise



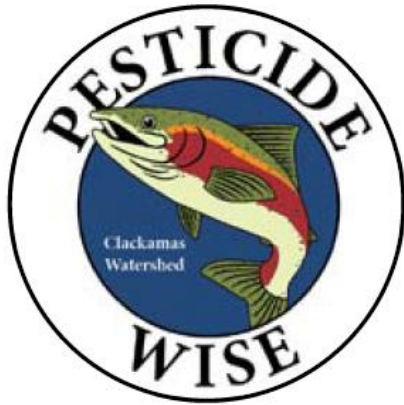
### I will be pesticide free by:

- Stopping the use of pesticides-including weed and feed
- Using only organic/natural products for garden and lawn care
- Being tolerant of some weeds and pest damage
- Using plants adapted to our area (natives and pest resistant)
- Using Integrated Pest Management (IPM) for pest management
- Talking to my neighbors about being Pesticide Free

Cut here, place in envelope with stamp and mail

Name _____  <input type="checkbox"/> I pledge to use pesticides wisely. Please send me my free yard sign.  <input type="checkbox"/> I pledge to be pesticide free. Please send me my free yard sign.	<b>Required Information:</b> Address _____ _____ _____ Property Size (Acreage or Square Footage) _____ _____ Phone _____ Email _____	I understand I will receive a subscription to "Current News," the CRBC newsletter. I prefer to receive it: <input type="checkbox"/> As an email <input type="checkbox"/> In the mail	<b>Please mail to:</b> <b>Clackamas River Basin Council</b> <b>PO Box 1869, Clackamas, OR 97015</b> <i>The Clackamas River Basin Council is a 501(c)(3) nonprofit organization.</i>  Have questions? Please contact us at: 503-303-4372 or <a href="mailto:info@clackamasriver.org">info@clackamasriver.org</a>
--	---	---	---

**Pesticide WISE**



**PLEDGE  
TODAY!**

Protect bees, butterflies, and other critters as well as pets, children, and your drinking water when you take the 'Parting with Pesticides' Pledge and receive a FREE yard sign!

**Pesticide FREE**



Clackamas River Basin Council  
PO Box 1869  
Clackamas, OR 97015  
(503) 303-4372  
[www.ClackamasRiver.org](http://www.ClackamasRiver.org)  
[info@clackamasriver.org](mailto:info@clackamasriver.org)

NONPROFIT ORG  
US POSTAGE PAID  
CLACKAMAS, OR  
PERMIT NO. 47

**Free Pesticide WISE or Pesticide FREE Yard Sign!**



## **Appendix G - CRWP Schools**

There are 41 schools in the Clackamas River Water Providers combined service area that were offered CRWP youth education programs. Below is a list of these schools.

### **City of Estacada Schools**

- Clackamas River Elementary
- Estacada Jr. High School
- Estacada High School

### **City of Gladstone Schools**

- John Wetten Elementary
- Kraxberger Middle School
- Gladstone High school

### **Oak Lodge Water District Schools**

- Concord Elementary
- Candy Lane Elementary
- Jennings Lodge Elementary
- Oak Grove Elementary
- Riverside Elementary
- View Acres Elementary
- Rex Putnam High School

### **South Fork - Oregon City Schools**

- Gaffney Lane Elementary
- Holcomb Elementary
- John McLoughlin Elementary
- Gardiner Middle School
- Oregon City High School
- Spring Water Environmental Sciences School
- Alliance Charter Academy

### **South Fork - West Linn Schools**

- Bolton Primary
- Cedaroak Park Primary
- Sunset Primary
- Trillium Creek Primary
- Willamette Primary
- Rosemount Ridge Middle School
- West Linn High School
- 3 River Charter School

### **Sunrise Water Authority Schools**

- Deep Creek Damascus K-8
- Lewis and Clark Montessori Public Charter School
- Happy Valley Elementary
- Mt. Scott Elementary
- Oregon Trail Elementary
- Spring Mountain Elementary
- Sunnyside Elementary
- Verne Duncan Elementary
- Scouters Mountain Middle School
- Rock Creek Middle School
- Happy Valley Middle School
- Damascus Middle School
- Clackamas High School

## **Appendix H Youth Education Program & Presentation**

A total of 85 classroom presentations and assembly programs were completed between September 24, 2015 and June 13, 2016. Below is a breakdown of where these programs and presentations were completed. *This number does not include the number of children reached through the Children's Clean Water Festival and the CCWET Celebrating Water Event; these events are listed at the bottom of the page with number of children reached.*

### **City of Estacada**

Total # presentation = 8

### **City of Gladstone**

Total # presentation = 17

### **Oak Lodge Water District**

Total # presentations = 15

### **South Fork Water**

Total # presentations = 15 Oregon City

### **Sunrise Water Authority**

Total # presentations = 30

### **23rd Annual Children's Clean Water Festival**

52 classes

20 Schools

9 Districts

34 presentations

15 exhibitors

3 stage shows

Total # of students = #1461

CRWP schools in attendance this year were 5 classes from View Acres Elementary and 3 classes from Happy Valley Elementary.

### **11th Annual Clackamas County Water Education Team Celebrating Water Event**

23 Classes

11 Schools

23 Teachers

115 Adult chaperones

35 High school volunteers

21 Exhibits

2 Stage shows

Total # of students = #800

### Appendix H - continued

<b>Youth Education Presentation Tracking</b>				
<b>Date</b>	<b>Location</b>	<b>Program</b>	<b># of Students</b>	<b>District/Area</b>
9/24/2015	Happy Valley Elementary	NCCWC Plant Tour	#35	Sunrise
9/24/2015	Happy Valley Elementary	NCCWC Plant Tour	#35	Sunrise
10/23/2015	Clackamas River Elementary	Salmon Game	(3) #66	Estacada
10/29/2015	Clackamas River Elementary	Fred the Fish	(3) #66	Estacada
11/3/2015	Riverside Elem	Mad Science, "What DO You Know About H2O?"	#102	Oak Lodge
11/13/2015	Oregon trail Elem	Mad Science, "Where's The Water Watson?"	# 65	Sunrise
11/17/2015	Happy Valley Elementary	Fred The Fish	#33	Sunrise
11/18/2015	Happy Valley Elementary	Salmon Game	#33	Sunrise
12/8/2015	Candy Lane Elementary	Will Hornyak	#350	Sunrise
12/14/2015	Mount Scott Elementary	Will Hornyak	#550	Sunrise
1/7/2016	Kraxberger Middle	Source to the Tap	(3) #111	Gladstone
1/8/2016	Kraxberger Middle	Source to the Tap	(2) #74	Gladstone
1/11/2016	Kraxberger Middle	Taste-imony to Tap Water	(3) #111	Gladstone
1/14/2016	Kraxberger Middle	Taste-imony to Tap Water	(2) #74	Gladstone
1/19/2016	Kraxberger Middle	NCCWC Plant Tour	(1) #37	Gladstone
1/20/2016	Gaffney Lane Elem.	Fred the Fish	(1) #37	SF Oregon City
1/26/2016	Riverside elem.	Salmon Game	(3) #100	Oak Lodge
1/26/2016	Kraxberger Middle	NCCWC Plant Tour	(1) #37	Gladstone
2/2/2016	Kraxberger Middle	NCCWC Plant Tour	(1) #37	Gladstone
2/4/2016	Kraxberger Middle	NCCWC Plant Tour	(2) #74	Gladstone
2/24/2016	Candy lane Elementary	Recycleman		Oak Lodge
2/16/2016	Rock Creek Middle	Christine on site Rain Water	(4)	Sunrise
2/25/2016	Candy Lane Elementary	Mad Science, "What Do You Know?"	#90	Oak Lodge
3/3/2016	Rock Creek Middle	NCCWC Plant Tour	(4)	Sunrise
3/4/2016	River Mill Elem	Mad Science, "What Do You	(1)	Estacada

		Know?"		
3/10/2016	Spring Water Environmental	Mad Science, "What Do You Know?"	(1)	SF Oregon City
3/29/2016	Riverside Elem.	Will Hornyak	#450	Oak Lodge
4/1/2016	Oregon City Service Learning Academy	South Fork Treatment Plant Tour	#17	SF Oregon City
4/5/2016	John Wetten Elem.	Will Hornyak	#235	Gladstone
4/6/2016	Spring Water Environmental	Will Hornyak	#250	SF Oregon City
4/8/2016	John Mcloughlin Elem	"Where the Water Watson?" Mad Science	(2) #100	SF Oregon City
4/9/2016	Estacada Library	Mad Science "What Do You Know"	(1)	Estacada
4/22/2016	Oregon City Service Learning Academy	South Fork Treatment Plant Tour	#17	SF Oregon City
4/27/2016	Rex Putnam High	NCCWC Plant Tour	(3) #90	Oak Lodge
5/2/2016	Oak Grove Elem.	Mad Science "What Do You Know?"	(1)	Oak Lodge
5/3/2016	Oregon trail elem.	Mad Science "What Do You Know?"	(1)	Sunrise
5/4/2016	Happy Valley Elem.	Mad Science "What Do You Know?"	(1)	Sunrise
5/6/2016	Oregon City Service Learning Academy	South Fork Treatment Plant Tour	#17	SF Oregon City
5/16/2016	Gaffney Lane Elem.	Mad Science "Where's the Water Watson?"	(1)	SF Oregon City
5/17/2016	Oregon City Library	Mad Science "Where's the Water Watson?"	(2)	SF Oregon City
5/18/2016	Happy valley Elem.	Mad Science "Where's the Water Watson?"	(1)	Sunrise
5/19/2016	Oak Grove Elem.	Mad Science "Where's the Water Watson?"	(1)	Oak Lodge
5/19/2016	Oregon Trail Elem.	Mad Science "Where's the Water Watson?"	(1)	Sunrise
5/21/2016	Gladstone Library	Mad Science "Where's the Water Watson?"	(1)	Gladstone
6/3/2016	Oregon City Service Learning Academy	South Fork Treatment Plant Tour	#17	SF Oregon City
6/7/2016	Spring Water Environmental	Science Presentations	All Grades	SF Oregon City
5/25/2016	Verne Duncan Elementary	Non-point Source Watershed Model	(3)	Sunrise
6/8/2016	Verne Duncan	How to build your own	(3)	Sunrise

	Elementary	Watershed		
6/10/2016	Verne Duncan Elementary	Rainstick	(3)	Sunrise
6/13/2016	Verne Duncan Elementary	Rainstick	(3)	Sunrise

## **Appendix I - Mini Water Education Grants**

Grants were issued to the following schools.

### **City of Gladstone:**

Kraxberger Middle school - (6) 6th grade Teachers

### **Oak Lodge Water District:**

Candy Lane Elementary – (3) 4th grade Teachers

Oak Grove Elementary - (1) 4th grade Teacher

Rex Putnam High School - (1) 11th/12th grade Teacher

### **South Fork:**

Willamette Primary - West Linn – (3) 5th grade Teachers

Gaffney Lane Elementary - Oregon City - (1) 3rd grade Teacher

### **Sunrise Water Authority:**

Happy Valley Elem. - (3) 4th grade Teachers

Rock Creek Middle School - (1) 8th grade Teacher



## **Appendix J –2017 CRWP Children's Calendar**

8 schools and 17 classes participated in the 2017 CRWP Children's Calendar coloring contest. Approximately 600 pictures were submitted. The following is a breakdown of which CRWP members schools participated in the calendar project.

### **South Fork Water Board**

John Mcloughlin Elementary (Oregon City)  
Gaffney Lane Elementary (Oregon City)

### **Sunrise Water Authority**

Sunnyside Elementary (Happy Valley)  
Happy Valley Elementary (Happy Valley)  
Deep Creek Damascus K-8 (Damascus)  
Oregon trail Elementary (Happy Valley)

### **Gladstone**

John Wetten Elementary

### **Oak Lodge**

View Acres Elementary

### **Appendix K – Community Events**

CRWP staff participated in 10 Community Events throughout CRWP service areas between July 1, 2015 and June 30, 2016.

7/4/2015	Happy Valley 4 <sup>th</sup> of July Event	CRWP
7/9/2015	Damascus Farmers Market	CRWP
8/4/2015	Gladstone Cultural Festival	CRWP
8/18-23/2015	Clackamas County Fair	CRWP
10/3/2015	CRWP Watershed Tour	CRWP
3/27/2016	Home and Garden Show	RWPC
3/19/2016	Exhibitor at the Annual Tree School, Clackamas Community College	CRWP
4/8/2016	Children's Clean Water Festival	CRWP
4/15/2016	Clackamas County Water Education Team, Water Festival	CRWP
5/21/2016	Oregon City Pioneer Festival	CRWP

### Appendix L – Adult Presentations

CRWP staff participated in and/or presented at, 8 adult presentations between July 1, 2015 and June 30, 2016.

7/13/2015	RWPC TV Shoot Garden Time	CRWP
7/27/2015	AIT Environmental Science class	CRWP
7/28/2015	Landscape Audit Eagles Landing HOA Sunrise HA	CRWP
9/8/2015	Oak Lodge Customer Landscape Audit	CRWP
1/26/2016	AIT Environmental Science class	CRWP
2/18/2016	Stormwater Management Workshop Clackamas Community College	CRWP
6/14, 16/2016	PNWS AWWA Waterworks School Clackamas Community College (2) presentations	CRWP

## Appendix M – Quarterly E Newsletter



### A Survey of Drinking Water Customers

We want to hear from you!

The Clackamas River provides drinking water to more than a quarter million residents in Clackamas County. In addition to providing high quality drinking water the Clackamas River watershed is one of the state's most productive agriculture areas, an important recreational destination, and important habitat for some of the region's most iconic fish and wildlife.

The Clackamas River Water Providers are working with Portland State University to better understand the attitudes of Clackamas River drinking water customers and their willingness to support ongoing stewardship of their drinking water watershed.

We want to know your thoughts and opinions about programs that promote watershed protection and conservation while providing the highest quality drinking water. The survey should take about 20 minutes to complete

and your response is entirely confidential. To complete the questionnaire online click on the following link:

<http://tinyurl.com/SurveyClackamas>

The information from this survey will contribute to a growing body of work regarding the role that public utilities and their customers play in strengthening and supporting the environmental and economic benefits of local watersheds.

As a thank you for submitting your completed survey, you will be automatically entered into a drawing to receive a **\$100 gift card**.

**Protecting our drinking water starts at the source.** For more information contact Christine Hollenbeck at: [christine@clackamasproviders.org](mailto:christine@clackamasproviders.org).



### 6 Water Saving Tips

- Finished with your Holiday baking? Use leftover food coloring to check for toilet leaks.
- Let your dishwasher do the work. The average dishwasher uses about 10 gallons per load. Many kitchen faucets use the same amount by running for just four minutes.
- Thawing food? Use the microwave, a bowl of water, or place it in fridge overnight instead of running the tap. You'll save 2 gallons of water per minute.
- Freeze the grease instead pouring it down the drain and letting the water run. Keep your kitchen sink draining well by pouring all cooking grease into a can, freezing it, and then tossing the frozen contents into the trash.
- Using one glass all day will mean fewer dishes to do. Especially if everyone joins in!
- Scrape instead of pre-rinsing. Save yourself up to 20 gallons of water by scraping food off your dishes instead of pre-rinsing them.

### What's Inside:

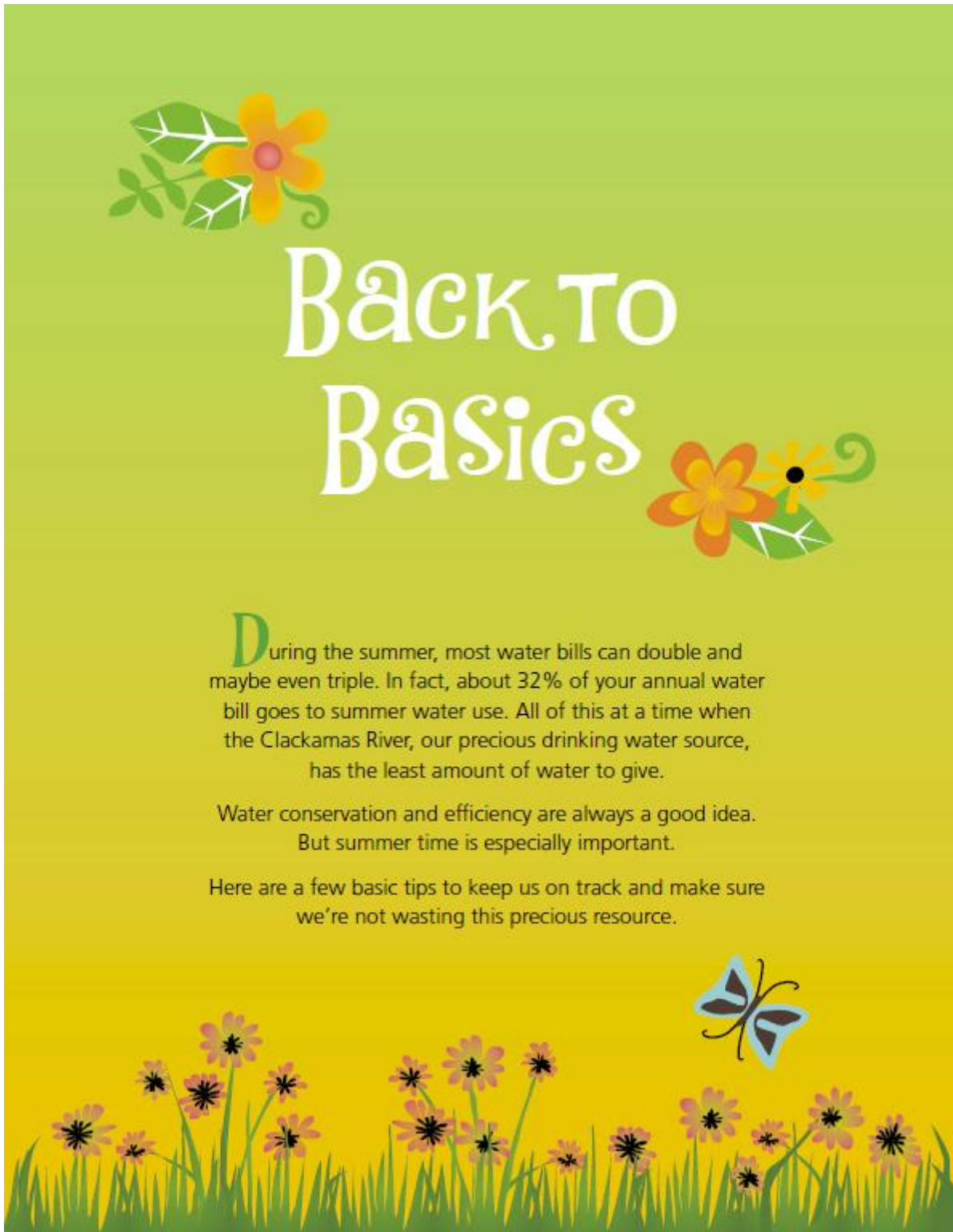
Survey	P1
6 Tips	P1
Take-Back Box	P2
Winter Quiz	P2
Interview	P3
Winter Soil Prep	P4
Quiz Answers	P4
Forest to Tap	P5

Christine Hollenbeck Public Education and Conservation Program Coordinator (503) 723-3511 [christine@clackamasproviders.org](mailto:christine@clackamasproviders.org)  
Kim Swan Water Resource Manager (503) 723-3510 [kims@clackamasproviders.org](mailto:kims@clackamasproviders.org)

**Appendix N - Bumper Sticker**



## Appendix O – Summer Brochure



# SUMMER WATER CONSERVATION TIPS

Visit our website [www.clackamasproviders.org](http://www.clackamasproviders.org) for more information.



## IRRIGATION TIPS

- 💧 Check your system each spring. Because automatic irrigation systems often come on during the early morning hours, leaks and other problems can go unnoticed for long periods of time.
- 💧 Take time to check your system periodically throughout the summer to ensure the system is operating properly and efficiently.
- 💧 Replace your old irrigation controller with a new Watersense® weather based controller or adjust your current controller to the weather throughout the summer so you're not depriving plants or watering unnecessarily.
- 💧 Correctly program your irrigation controller.



- 💧 Consider drip irrigation — this reduces evaporation and applies water directly to the roots.

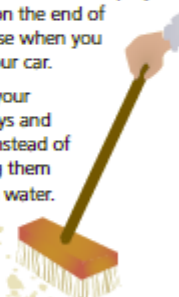
- 💧 Install a rain sensor switch to temporarily shut off your system when it rains.
- 💧 Prevent run-off by splitting watering times into two or more applications with breaks in between. This will promote deeper root growth and foster a healthy landscape that is more resistant to dry weather.
- 💧 Water early in the morning when the air is cool and calm and evaporation is at a minimum. Watering in the evening is second best.



- 💧 Consider switching your old spray nozzles for more efficient multi-stream rotating nozzles.

## OUTDOOR WATER EFFICIENT TIPS

- 🌸 Wash your car on the lawn.
- 🌸 Take your car to a car wash that recycles and reuses the wash water.
- 🌸 Fix all dripping hose bibs.
- 🌸 Cover the pool when you're not using it to prevent unnecessary evaporation.
- 🌸 Check for undetected leaks in your pool throughout the summer.
- 🌸 Use a bucket of soapy water and a shut-off spray nozzle on the end of your hose when you wash your car.
- 🌸 Sweep your driveways and patios instead of cleaning them off with water.



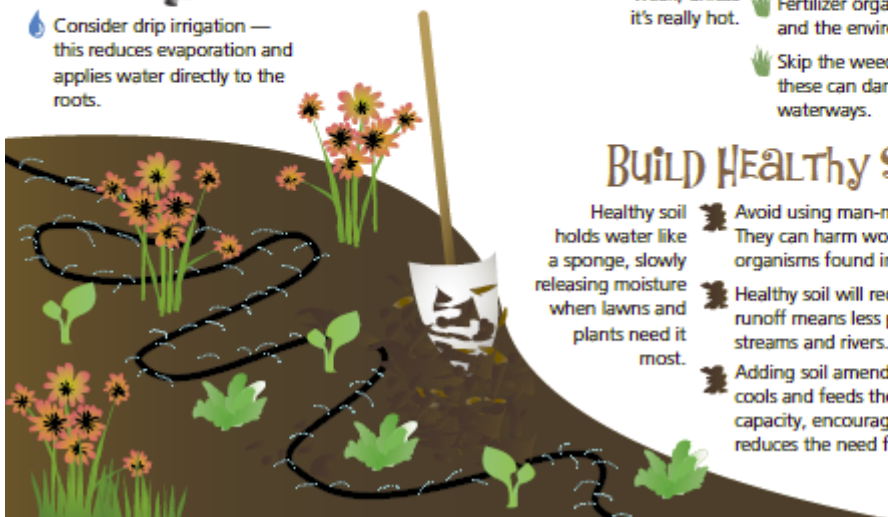
## LAWN CARE TIPS

- 🌿 A healthy lawn needs less water, pesticides, and fertilizers. Typical Willamette Valley lawns need only one inch of water a week, unless it's really hot.
- 🌿 Aerate lawns in the early summer to allow water and air to reach the roots.
- 🌿 Mow high to shade roots, keep soil cool and retain soil moisture.
- 🌿 Mulch grass clippings to naturally green up your lawn.
- 🌿 Water one inch a week, unless it's really hot. Visit our website for the weekly watering number.
- 🌿 Fertilizer organically to protect kids, pets, and the environment.
- 🌿 Skip the weed and feed products. Many of these can damage soil as well as pollute our waterways.



## BUILD HEALTHY SOILS

- 🐛 Healthy soil holds water like a sponge, slowly releasing moisture when lawns and plants need it most.
- 🐛 Avoid using man-made fertilizers and pesticides. They can harm worms and other beneficial organisms found in healthy soil.
- 🐛 Healthy soil will reduce runoff — and less runoff means less pollution and sediment in our streams and rivers.
- 🐛 Adding soil amendments like compost or mulch cools and feeds the soil, improves water holding capacity, encourages deeper root growth and reduces the need for water and fertilizers.



## Appendix P – Rebate Program Brochure

### Clackamas River Water Providers rebate APPLICATION

**CUSTOMER INFORMATION**

Name \_\_\_\_\_

Installation Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_ Zip \_\_\_\_\_

Mailing Address (if different) \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_ Zip \_\_\_\_\_

Home Phone \_\_\_\_\_ Daytime Phone \_\_\_\_\_

Email \_\_\_\_\_

PLEASE PROVIDE YOUR ACCOUNT # \_\_\_\_\_

AND CIRCLE YOUR WATER PROVIDER BELOW

City of Estacada	City of Gladstone	Oak Lodge Water District
South Fork Water Board (Oregon City and West Linn)	Sunrise Water Authority (Happy Valley and Damascus)	

I certify the information I have provided is true and correct, and I have purchased the goods for use at the location indicated. I grant permission to Clackamas River Water Providers, with notification, to enter upon the property to inspect the installation of rebate goods to assure program requirements are met. I understand rebates are distributed on a first-come first-served basis until funds are exhausted.

---

### rebate INFORMATION

Customers can take advantage of each rebate one time per account per fiscal year per account.

**INDOOR REBATES**

Toilet Rebate – up to \$85 + \$15 additional for recycling your old toilet Manufacturer and Model # \_\_\_\_\_

Washing Machine Rebate – up to \$75 maximum Manufacturer and Model # \_\_\_\_\_

**OUTDOOR REBATES**

Rain Sensor/Switch – up to \$25 maximum

Irrigation Controller – up to \$200 maximum

Multi-stream Rotating Nozzles – up to \$60 (or 20 nozzles at \$3 each)

Manual Hose Bib Timer – up to \$25 maximum

---

Customer Signature \_\_\_\_\_ Date \_\_\_\_\_

The following are required, please check all that apply. Do not send until application is complete. Incomplete and unsigned application may be returned.

<input type="checkbox"/> Water provider account number	<input type="checkbox"/> Manufacturer and or model number (if required)
<input type="checkbox"/> Name and address	<input type="checkbox"/> Toilet recycling receipt for additional \$15
<input type="checkbox"/> Proof of purchase	<input type="checkbox"/> Signed and dated application

# UP TO \$485 IN REBATES!

## Clackamas River Water Providers

### are offering 6 water conservation rebates\*

\* Up to \$485 in rebates available!

Working Together to Protect and Conserve our Drinking Water

14275 S. Clackamas River Drive  
Oregon City, OR 97045

For More Information  
www.clackamasproviders.org  
E-mail: Christine@clackamasproviders.org  
Phone: (503) 723-3511

6/2016

## SAVING WATER = SAVING MONEY!

Up to \$485 in savings each year!

### 1 WASHING MACHINE

Up to \$75 rebate – Model # required. Machines being replaced must be Energy Star certified residential clothes washers.

### 2 TOILET REBATE

Up to \$85 rebate – Model # required. When you replace a toilet that uses 1.6 gallons per flush (gpf) or more with a new WaterSense® certified high efficiency toilet (HET). Get an additional \$15 if you recycle your toilet.

### 3 RAIN SENSOR/SWITCH:

Up to \$25 rebate – Temporarily shuts off your automatic irrigation system when it rains.

### 5 MULTI-STREAM ROTATING NOZZLE RETOFIT:

Up to \$60 rebate – or 20 nozzles per account at \$3 each. Model # required. Replace inefficient pop-up spray nozzles with efficient water conserving models. See our website for specific models.

### 4 WATER-SENSE WEATHER-BASED IRRIGATION CONTROLLERS:

Up to \$200 rebate when you purchase and install a WaterSense, weather-based controller: "Smart" irrigation control technology that uses local weather data to determine when and how much to water. WaterSense® labeled irrigation controllers can save you water, time, and money when compared to standard models.

### 6 MANUAL HOSE BIB TIMER:

Up to \$25 rebate. Never forget to turn off your water! Automatically turn off sprinklers at pre-set times.

## REBATE ELIGIBILITY REQUIREMENTS

Applicant must meet the following criteria

You must receive water from one of the following water provider members:

City of Estacada   City of Gladstone   Oak Lodge Water District  
South Fork Water Board (Oregon City and West Linn)  
Sunrise Water Authority (Happy Valley and Damascus)

- You must be a single-family residential customer or a small business (50 employees or less) which owns its own site and your account must be active and in good standing.
- The application must be received within 3 months of purchase.
- One rebate each, per account, per fiscal year (July 1–June 30).
- A copy or original of the dated sales receipt (or invoice) that specifies the brand/model must be included with the rebate form. The brand/model purchased must match the item exactly.
- The high efficiency toilet and weather-based controller you purchase must be EPA WaterSense® labeled. For a complete list of eligible products, visit: [http://www.epa.gov/watersense/product\\_search.html](http://www.epa.gov/watersense/product_search.html)
- For toilet rebates, the toilet brand/model must match the eligible model list exactly. Tank and bowl numbers cannot be mixed and matched from different models.

- Receive an additional \$15 for recycling your old toilet. Visit our website at <http://clackamasproviders.org/water-conservation/conservation-rebates/toilet-recycling-fac.html> for a recycling receipt near you. A copy of the recycling receipt is required to be eligible.
- For a complete list of eligible washing machines, visit: [www.energystar.gov/productfinder/product/certified-clotheswasher](http://www.energystar.gov/productfinder/product/certified-clotheswasher).
- Rebate items must be installed at the property associated with your water account.
- Rebates are available on a first-come, first-served basis. The program will end when funds are depleted. The total rebate per item will not exceed the receipt amount.
- Prior to approval, an on-site inspection may be required by Clackamas River Water Providers.