



AGENDA

Lake Oswego/Tigard Water Supply Partnership

Oversight Committee

Monday January 13, 2020 at 5:30 to 7:00 p.m. Red Rock Creek Conference Room, Tigard City Hall, 13125 SW Hall Blvd, Tigard, Oregon 97223

1. Call to Order/Roll Call – Chair Manz
2. Approval of Minutes of Meeting Held October 23, 2019
3. Public Comment
(for items not on the agenda, a time limit of 3 minutes per person shall apply)
4. Old Business
 - 4.1 – Water Rights Extension Remand (John Goodrich)
 - 4.2 – Operations Committee: Activities Report (Kari Duncan)
5. New Business
 - 5.1 – Water Management and Conservation Plan (Adam Sussman and Kim Grigsby, GSI Water Solutions)
 - 5.2 – LO-Tigard Partnership Operating Agreement staff progress update (Kari and John)
 - 5.3 – RIPS Pump 5 Contract Award Report (Kari Duncan)
 - 5.4 – Budget Report
6. Future Agenda Items
 - 6.1 – OVC Workshop Operating Agreement Revision (March)

Next Meeting Date: April 13, 2020 at 5:30 p.m. to 7:00 p.m. at Lake Oswego Main Fire Station, 300 B. Ave., Lake Oswego OR 97034

7. Adjourn



**Lake Oswego Tigard Water Partnership
Summary of Oversight Committee Meeting
October 23, 2019**

Present:

City of Lake Oswego: **Oversight Committee:** Mayor Studebaker, Councilor Manz
Staff: Kari Duncan, Erica Rooney, Susie Anderson

City of Tigard: **Oversight Committee:** Councilor Goodhouse, Councilor Newton
Staff: John Goodrich, Brian Rager

1. CALL TO ORDER/ROLL CALL

Chair Manz called the meeting of the Lake Oswego Tigard Water Partnership Oversight Committee to order at 5:29 pm in the Pilkington Room at the Lake Oswego Public Works Center, 17601 Pilkington Road, Lake Oswego OR 97035.

2. APPROVAL OF MINUTES OF MEETING HELD JULY 8, 2019

Mayor Studebaker made a motion to approve the minutes of the July 8, 2019 meeting. **Councilor Goodhouse** seconded the motion. Motion passed.

3. PUBLIC COMMENT

None.

4. OLD BUSINESS

4.1 Water Rights Extension Remand

Mr. Goodrich reported WaterWatch was successful in asking for a short delay to compile and submit their brief. Attorneys for Lake Oswego and Tigard felt it was in the Cities' best interest not to oppose the request for delay. He continued WaterWatch's opening brief would be due October 29. Lake Oswego and Tigard's responding brief would be due Dec. 17, then the reply brief would be due January 7, 2020.

4.2 Operations Committee - Activities Report

Ms. Duncan noted the report in the meeting packet and reviewed general operational information. She reported, as part of the Robinwood Good Neighbor Plan, a successful open house/ice cream social was held September 11th at the Water Treatment Plant. Approximately 75 neighbors attended and most of those people participated in tours of the plant. Comments received from attendees were positive and the plant seems to be perceived as a good neighbor.

Councilor Manz asked if there had been any forecast for water levels for summer 2020. **Ms. Duncan** replied she hadn't yet seen any forecasts. **Mr. Goodrich** stated he had received information from NOAA predicting 2020 would be somewhat normal, nine months of rain and three relatively dry months.

5. NEW BUSINESS

5.1 Lake Oswego Tigard Partnership Operating Agreement and IGA

Councilor Goodhouse explained, being new to the Oversight Committee, he and Councilor Newton had reviewed the existing agreement and determined it was time to consider a governance agreement since construction had been complete for some time. He noted in the past there had been discussion of an ORS 190 and suggested instead of creating a new entity, to amend the existing agreement to create a Governing Board going forward. **Mayor Studebaker** opined things were working well as is and asked what kind of changes the Tigard Councilors were suggesting. **Councilor Newton** agreed operations were currently functioning well but they would like to see changes as to how decisions are made. She stated the Tigard Councilors, Mayor, and staff had developed a list of general areas they would like to address. One issue would be ensuring the system operation yields the quantity and quality expectations of the two cities. Another issue was to address would be cost sharing in the Tigard water system distribution upgrades that would provide more reliable and sustainable emergency water supply to Lake Oswego. If Lake Oswego opts out of any obligation for system improvements in Tigard then the value of those improvements should be addressed and develop a cost basis to accurately recover costs when Lake Oswego needs emergency water. She opined it would be preferable to have those details in place before the need arises and said Tigard would like an amended agreement that addresses how decisions are made to provide protections and guidelines for future generations. They want fairness and allocations of cost and would like to see the development of a policy on curtailment and capacity shedding.

Mr. Goodrich stated Tigard would be spending \$3M toward the Willamette Intake Facility and had also secured an 18 inch water line connection to the Willamette Supply System being constructed by Tualatin Valley Water District (TVWD). Tigard also has an existing 4 MGD connection to the Joint Water Commission system. He continued Tigard had multiple emergency sources of water for Tigard and Lake Oswego. He paraphrased the original Agreement that should the need arise for Lake Oswego to receive emergency water from Tigard, Lake Oswego would pay for the water based on wholesale agreement with Portland but that language is vague. He opined it wouldn't be good business practice to wait until an emergency to discuss what the cost would be. **Mayor Studebaker** asked if they were proposing a formula or requesting Lake Oswego share the expense of the investments Tigard has made. **Mr. Goodrich** replied that would be up to Lake Oswego but asking rate payers to invest in capital they may never need could be problematic. He suggested the cities may want to consider a more holistic Partnership with multiple water sources, not just the Clackamas River. He said the original 2008 agreement was vague on the issue of governance. **Councilor Goodhouse** acknowledged that for the most part things had been functioning well but there had been occasions Tigard learned of issues after the fact and suggested a Governing Board made up of Councilors and a staff representative from each city who would decide what type of decisions the Board would make going forward and what their oversight would be. He acknowledged the original agreement, with Lake Oswego as managing partner, was construction centric and Tigard had made a big investment in the system but they don't have much say in the operations of their investment. He continued they want to develop a governance agreement while relations between the two cities are good, to provide security and clear guidelines for future Councils. He opined that would make it more of a true partnership. He didn't think creating a whole new entity was the answer but by working with staff, issues could be identified that could fall under the purview of a Governing Board. **Councilor Newton** stated there were some issues Tigard would like resolved and a Board, similar to the

Oversight Committee, could work together toward resolution of the issues. Other topics Tigard would like to address would be if the cities should be able to sell surplus water based on allocated capacity and they would like to develop a practical means to resolve disputes. **Councilor Manz** asked if they had reviewed discussions of the Oversight Committee in years past regarding governance. **Councilor Goodhouse** stated instead of having a separate ORS 190 they were proposing to have a governing board. **Mayor Studebaker** clarified the proposed Board would be different than the current Oversight Committee model. **Councilor Newton** responded it would be more of a morphing of the current Committee to add governing responsibilities. **Councilor Manz** requested an example. **Councilor Goodhouse** replied if there were a curtailment issue currently, Tigard wouldn't have a voice at the table. They would like equal partnership, equal say, and equal vote in operational issues. Under the current agreement rather than going to the Oversight Committee to discuss an upcoming purchase or operational change, Lake Oswego can move forward and inform Tigard after the fact. **Councilor Manz** recapped they are proposing a shift from the current Oversight Committee which was focused on construction and moving to more of a Governing Body. She acknowledged curtailment and cost sharing seemed to be the most important issues to Tigard. **Councilor Newton** replied curtailment may or may not be an issue but would like to have a set policy in place before it becomes an issue. **Councilor Goodhouse** added construction was over and facilities were online so portions of the current agreement should be reviewed and updated. He voiced his support for implementing a Governing Board that would vote equally on issues and make transparent decisions. **Councilor Newton** stated in the agreement that would establish the new Governing Board, Lake Oswego would remain the operating partner. The Board would have an operations plan that would be developed together but Lake Oswego would handle the day to day operations of the plant. The new agreement would establish the types of issues that would go before the Board and the types of things the Board would not be involved in. **Councilor Manz** reviewed the issues to address in the new agreement would be curtailment, cost sharing, selling surplus water, and dispute resolution. **Councilor Newton** added elements of consolidation that may benefit rate payers in both communities such as shared equipment and shared programs, might also be considered. **Councilor Manz** asked if that was already being done. **Ms. Duncan** stated the cities share water quality and water conservation programs and, in a sense, share vehicles because they are using their vehicles while working the other municipality. **Mr. Goodrich** said from his and Ms. Duncan's perspective, they continuously look for ways to benefit the Partnership like the shared worker agreement and suggested another shared worker opportunity might include the backflow programs. **Councilor Newton** noted while discussing and developing the Governing Board, it would be determined if those types of issues would be addressed by the Governing Board from the perspective of the rate payers or if would staff make those decisions. **Councilor Manz** voiced her hesitation to change when something is working well but acknowledged things may be different in the future. **Councilor Newton** said it would be an opportunity to identify what would and would not be under the purview of the new Board and although things are functioning well presently, 10 - 20 years down the road may be different so this would be an opportunity to identify processes and be clear about what's delegated. **Mayor Studebaker** opined a separate Board would not be necessary to do that. **Councilor Newton** agreed and said it could simply be the morphing of the current Oversight Committee. **Councilor Goodhouse** stated it wouldn't change the current model but would clarify the Board's role and put partnership issues to a vote rather than one side decision making. He opined currently it's not a true equal partnership. **Councilor Newton** proposed a facilitated discussion amongst the Oversight Committee and staff during the January or April meeting to start discussions as to what a new agreement might look like. Today was an opportunity to provide Lake Oswego a heads up as to what the Tigard Council is proposing. She opined a 190 wouldn't be necessary but amending the current agreement should be considered. **Councilor Manz** asked if the facilitated discussion would include both full Councils. **Councilor Newton** proposed the current Oversight Committee could start developing an understanding of how a new agreement might work and then go back to their respective Councils. She suggested they may want to go to their respective Councils to let them know the discussion had begun. She continued they wanted to start the discussion now to give Lake Oswego an opportunity to start considering

the idea and see if it was be a direction they would be open to pursuing. **Mayor Studebaker** stated he was open to looking at it but reminded them the water rights were Lake Oswego's and Lake Oswego has the majority of water usage (ownership) so saying it should be equal may not be accurate but perhaps be more equal. **Councilor Newton** asserted it should be equal in deciding how decisions will be made. **Mayor Studebaker** said he understood. **Councilor Goodhouse** noted Tigard's investment and recognized the water rights belong to Lake Oswego so perhaps a mediated discussion would result in a plan both entities consider fair for a Governing Body going forward. **Councilor Manz** asked staff if they felt a facilitated discussion was necessary regarding operational details. **Ms. Duncan** stated evaluating operations on a periodic basis was always a good idea and thought looking at goals and priorities as partners would be a valuable exercise. **Mr. Goodrich** added the current agreement was drafted in 2008 and did exactly what it was supposed to do but much of the language was construction heavy. He noted there had also been five Amendments addressing changes during construction. He opined it might be nice moving forward for the people sitting at the table 10 or 15 years from now to have a cleaner document that's more focused on operations. **Councilor Manz** agreed with Ms. Duncan that it's good organization behavior to periodically review operations and governance at the very least and voiced her support for a facilitated discussion. **Mayor Studebaker** stated he didn't want to spend a lot of money on a facilitator. **Councilor Newton** thought only one facilitated session would be necessary. **Mr. Goodrich** opined it wouldn't be a lengthy process but asked who would draft the agreement if a facilitator weren't involved? **Councilor Manz** suggested the City Attorney from each City would likely do that. **Councilor Newton** suggested both city's interests would be evenly considered with a facilitator. **Councilor Goodhouse** speculated one session with a facilitator wouldn't be too expensive and would help guide the group through developing the aspects of the governing agreement. **Councilor Manz** asked if Tigard would take the lead on gathering information regarding the costs and time associated with having a facilitator involved in the process and draft a plan/approach to move forward to review at the January meeting. **Mr. Rager** stated from the operations level there would be issues to consider. Should investment opportunities in other water sources be considered as individual cities or as a Partnership? The connection to the TVWD source may be closer to Tigard but it could benefit the whole Partnership in the future. He thought policy at the governance level would help guide staff in operations. **Councilor Manz** pointed out Lake Oswego is essentially built out whereas Tigard experiences continued development. Going forward Lake Oswego usage will remain fairly static. **Councilor Newton** proposed documenting a summary of the discussion and a proposed plan for next steps to share at the January meeting. **Ms. Rooney** acknowledged current operations were going well and asked if part of the concern from Tigard was that it's too informal. **Councilor Goodhouse** provided a marriage analogy where, as newlyweds they combine assets etc. and then 10 years later things change, communication breaks down, that's when an agreement needs to be in place. Governing Board members will change over the years and having policy in place as to what and who makes decisions will guide them. **Councilor Newton** emphasized the Board would not address day to day operational issues but rather items like curtailment policy, use of surplus water, LO buy back for emergency water source, and having policy to help decide those types of issues. The current agreement doesn't give the Oversight Committee the authority to make those types of decisions. **Mayor Studebaker** said he felt like they were exploring arbitration and voiced his opposition to that. **Councilor Newton** pointed out under the current agreement, that's how disputes would be resolved and said Tigard would prefer not to go to arbitration. **Mayor Studebaker** said regardless of type of Governing Board there could be disputes that weren't resolved. **Councilor Newton** agreed but noted regarding issues like selling water or how Tigard would be reimbursed for supplying emergency water to Lake Oswego, there should be policy in place for those types of issues. She said those are the types of things they think and hope could be put in the agreement that outlines policy and procedure so that down the road everyone is clear about how those things will work. **Councilor Manz** voiced her support for revisiting the topic in January and encouraged staff from both cities to work together to formulate a draft. She opined current operations between both cities was working well but there could be some uncertainties in the future and having policy to address them was a positive thing. **Councilor Newton** stated they would like to

have a draft plan together to share before the Holidays so there would be time for review before the January meeting.

5.2 - Future Meeting Dates

Ms. Duncan asked if the second Monday of each quarter was still a good time for all committee members to meet. Everyone agreed it was.

6. FUTURE AGENDA ITEMS

6.1 - Joint Water Management and Conservation Plan (WMCP)

Mr. Goodrich reported both cities recently received a letter from Oregon Water Resources Department (ORWD) pertaining to the joint submittal of the WMCP. WaterWatch reviewed the plan and provided comments to ORWD. He explained the letter was an official notice to let the cities know they had received WaterWatch's comments. Staff will review the letter and work with the WMCP consultant as to how to move forward. **Mayor Studebaker** asked if there were any concerns raised by ORWD. **Mr. Goodrich** stated ORWD had shared the comments from WaterWatch and the letter was ORWD's official way of making sure it's in the record.

Ms. Duncan stated GSI Water Solutions, the consultant working on the WMCP, would present the plan to the Oversight Committee at the January meeting and noted the plan included a joint curtailment plan that may address curtailment concerns from the previous discussion.

7. ADJOURN

There being no further business, **Chair Manz** adjourned the meeting at 6:34 pm

Next Meeting Date - Monday January 13 at 5:30 - 7:00 pm at Red Rock Creek Conference Room, Tigard City Hall, 13125 SW Hall Blvd, Tigard OR 97223

Respectfully Submitted,

Susie Anderson
Administrative Assistant

Approved by the Oversight Committee:



4.2 Lake Oswego Tigard Operations Committee Report January 13, 2020

Water Quality:

Lake Oswego Customer Calls:

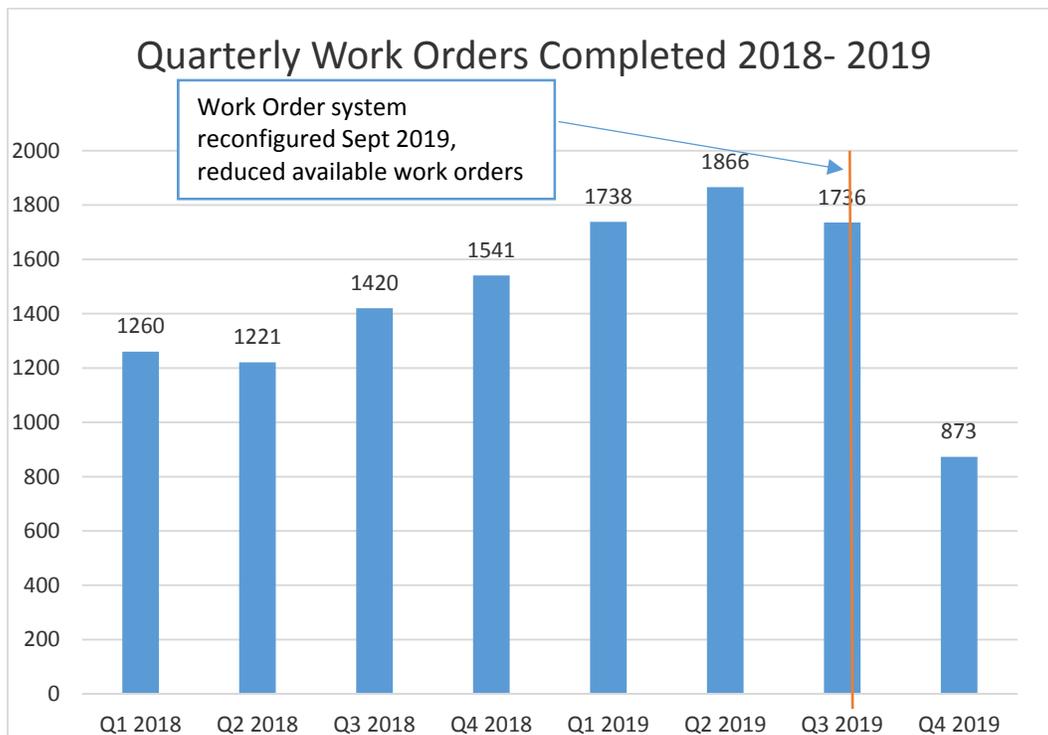
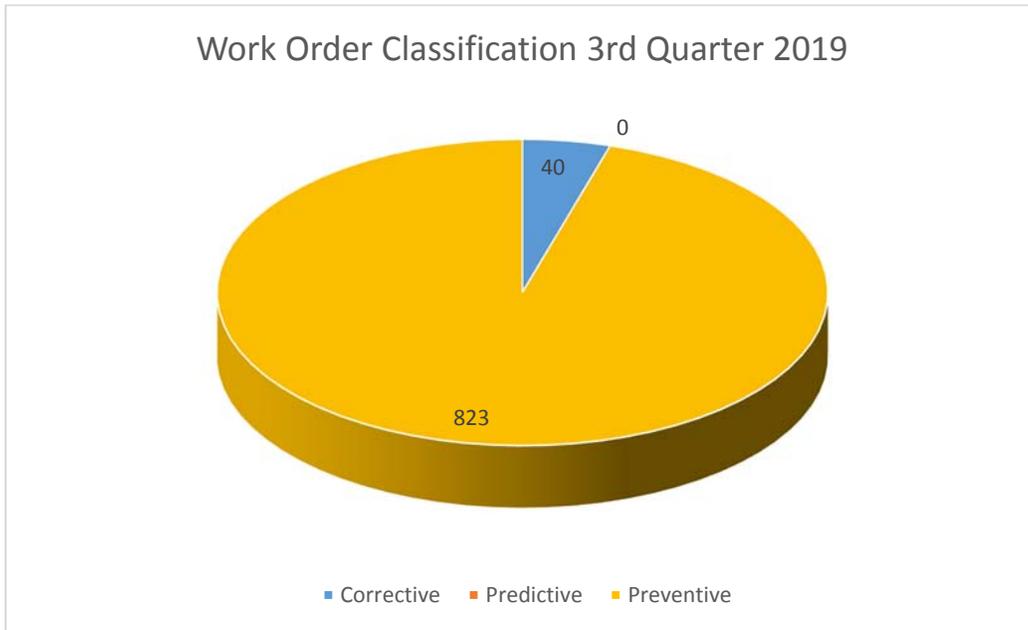
Lake Oswego received three customer calls related to taste and odor of the water. Resolutions for these included testing the water and flushing the water lines. Three requests for lead and copper tests were received.

Tigard Customer Calls:

Tigard staff received 16 customer calls in the fourth quarter of 2019. Most of the calls were due to chlorine taste and odor or discolored water and were improved with flushing of the water the mains and a small increase in the chlorine residual leaving the WTP.

Asset Management:

The work management system was revised in September of 2019 and removed many work orders that were minor checks, readings and rounds. These items are still conducted, but were migrated to checklists. The remaining work orders are more substantial preventative, predictive and corrective maintenance and repair of equipment.



Major Repairs and Inspections:

WTP Staff disassembled and rebuilt sand pump #1, on the Ballasted Flocculation system. The photo below is the inside view of the sand pump. Finished water building sump pump #2 was rebuilt after a seal failure. WTP staff and a contractor made a program modification on the dewatering system screw presses to improve operation.



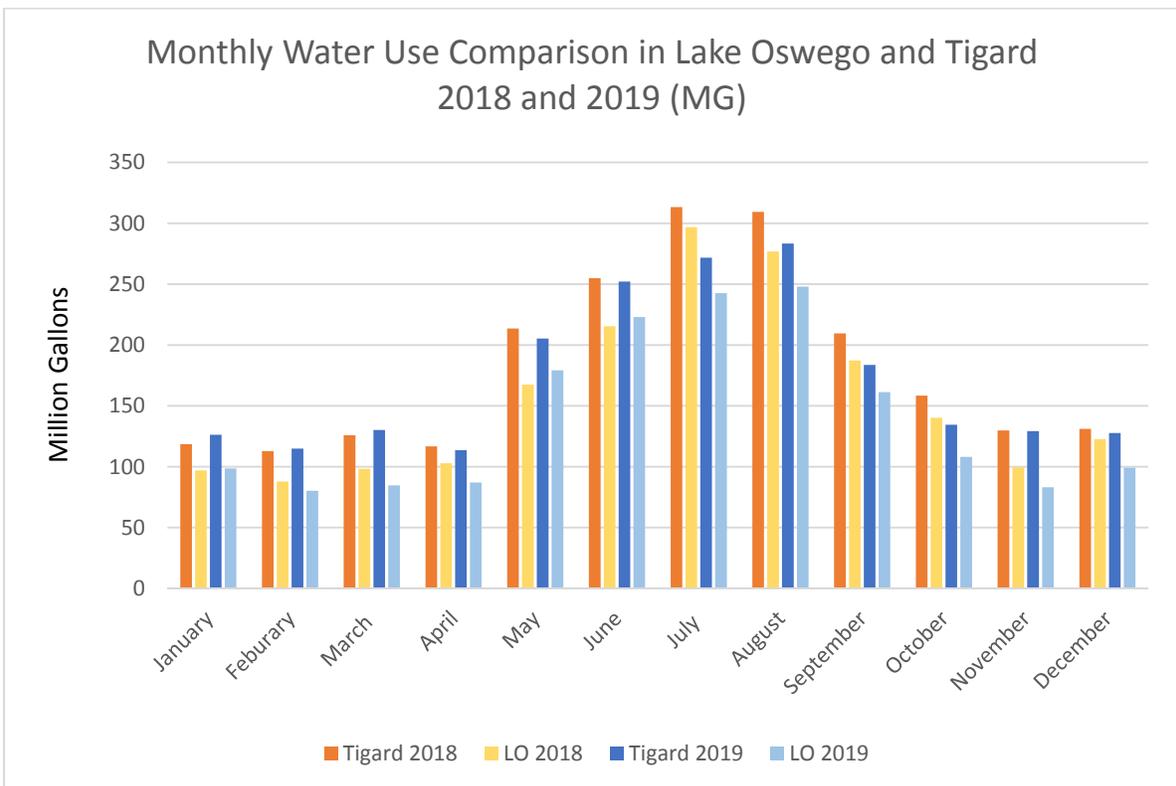
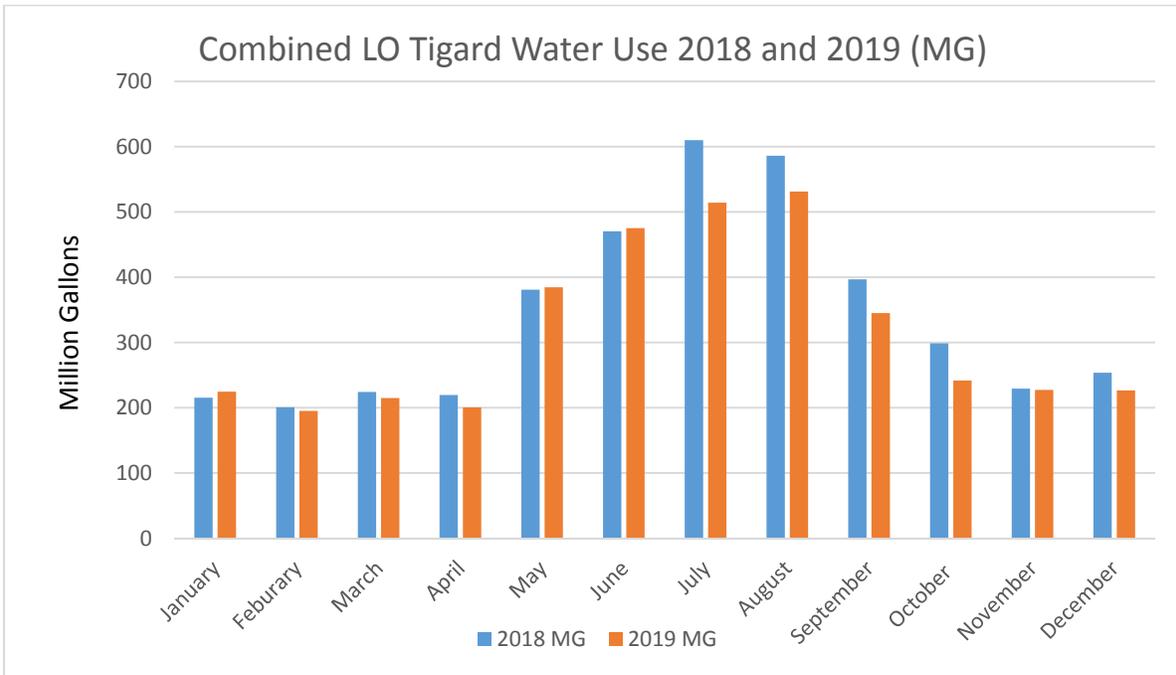
Photo of the inside of a sand pump

RIPS Pump Motors:

Rebuild work on the RIPS pump motors continues. Motor #3 was the last motor to be rebuilt however upon return to the RIPS the motor failed after startup and was returned to the Reed Electric shop for additional repair. The motor is expected to be repaired and returned to service by March 30 2020.

Water Production:

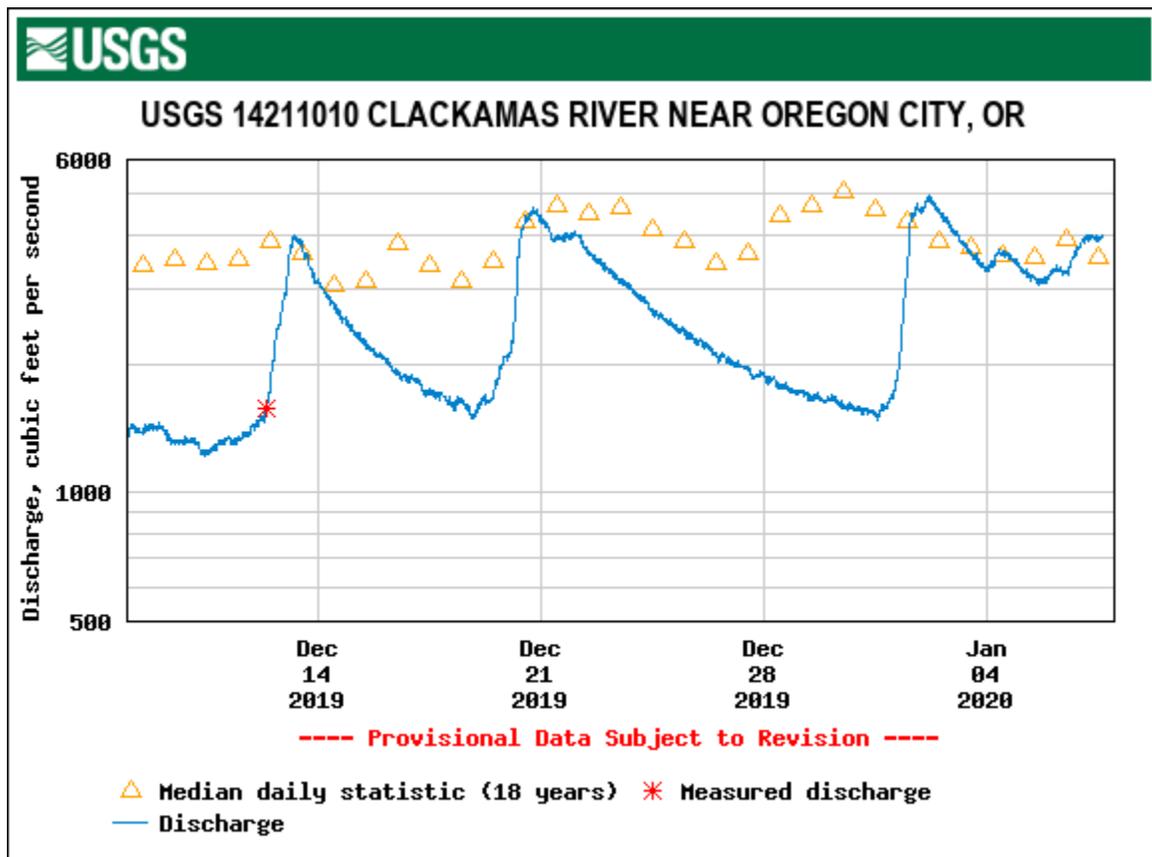
Total water production for calendar year 2019 was **3,801.89** million gallons, 7% lower than the 2018 production of **4,085.73** MG. It was a cool wet summer and demands were lower than in past years.



Clackamas River Conditions and Drought Report:

Attached is the December 2019 Drought Report from the Oregon Water Resources Department and the Clackamas River streamflow as of January 7, 2020. The Fall and early Winter have been very dry and rainfall and snowpack in our region were well below average. Clackamas River streamflow has also been running around 30% of average until the past week. The USGS discharge monitor at Oregon City currently depicts river levels at average flows for the first week of January.

Clackamas River Discharge as of January 7, 2020



Oregon

Water Conditions Report

December 30, 2019



Current Oregon statewide snow water equivalent (SWE) is 45 percent of normal. Basin values vary from 25 percent of normal in the Hood, Sandy, Lower Deschutes basin to 117 percent of normal in the Owyhee basin. The majority of SNOTEL sites are reporting values less than 8.0 inches of SWE.

Current Oregon statewide water year precipitation at NRCS SNOTEL sites is 50 percent of normal. Basin precipitation values range from 46 percent of normal in the Willamette basin to 71 percent of normal in the Owyhee basin.

Precipitation over the [past two weeks](#) has been below-normal, especially west of the Cascades where precipitation ranged from 2 to 5 inches below normal in parts of the southern Willamette Valley. The exception was in the north coast area where precipitation ranged from 1 to 2 inches above normal. For the [month of November](#), precipitation was below-normal across much of the state. In areas west of the Cascades and in southeast Oregon anomalies ranged between 5 and 25 percent of normal. In the northwest corner of the state November 2019 was one of the top 5 driest months of record. December is shaping up to be a little better but still well below normal for this time of year.

Temperatures over the [past two weeks](#) have been normal to below-normal across much of south central Oregon. Temperatures across the rest of the state ranged between 2 to 8 degrees above-normal. For the [month of November](#), temperatures were above-normal across most of the state. Especially in the southern Cascades and southwest Oregon where temperatures were up to 7 degrees warmer than normal for this time of year.

Over the next [8 to 14 days](#), the NOAA Climate Prediction Center is forecasting an increased probability of below-normal temperatures across most of the state. The precipitation outlook for the same period is for above-normal probability across the state. The most recent [three month outlook](#) indicates increased probability of above-normal temperatures across most of the state. The precipitation outlook for the same period is for equal chances of above or below normal probability across the state. The next long-term outlook will be issued on January 16, 2020.

[ENSO-neutral](#) is favored during the Northern Hemisphere winter 2019-2020 (70 percent chance), continuing through spring 2020 (~65 percent chance). Above-average sea surface temperatures (SSTs) were observed in the central tropical Pacific Ocean during November, with regions of above and below average SSTs observed farther east. For a more complete report, refer to the December 12, 2019 [diagnostic discussion](#) issued by the Climate Prediction Center. The next diagnostic discussion is scheduled for January 9, 2020. Another source of information is the latest [ENSO blog](#) on the climate.gov website.

With only a few days left in December, it looks like streamflows for the month will end up less than 55 percent of normal. This is a little higher than the 48 percent seen in November. Regionally for December, streamflow conditions were about 60 percent of

normal east of the Cascades and only about 40 percent to the west. Flows in the Umpqua were the lowest at around 22 percent of normal while the highest flows were in the Malheur Lake basin at just over 100 percent of normal. While there has been some recent improvement in western Oregon, some streams in the Umpqua basin are flowing at rates as low as 10 percent of normal.

USACE Reservoirs: Willamette: The Willamette system is 3 percent below minimum conservation pool. Green Peter is 15 feet and Detroit is 10 feet into the power pool. Detroit spillway trunnion pin was removed Friday, Dec 6th. Recent weather has helped to elevate inflows and bring several projects closer to rule curve. Flows in the Willamette River at Albany are 6,700 cfs with flows at Salem at 11,800 cfs.

Rogue: The Rogue system is currently 31 percent full and 5 percent below rule curve. Lost Creek is 30 percent full and 6 percent below rule curve and will continue holding flows at around 1,150 cfs. Applegate is at 8 percent full and 3 percent below rule curve and will hold releases at around 115 cfs over the next week. Current fisheries goals are minimizing the dewatering of spring chinook redds in 2019-2020, and minimizing early emergence by spring chinook in the spring of 2020.

Willow Creek: The Willow Creek Project is currently 36 percent full and 9 percent below Rule Curve. The current project objectives are to pass 2 cfs of inflow. Current project inflow is at 5.7 cfs.

USBR Reservoirs: Despite drier than normal conditions, Reclamation reservoirs in Oregon continue to have higher than average storage levels thanks to higher than average carryover at the start of the Water Year. Reclamation reservoirs are currently releasing minimum or zero flows and most currently have *flat-lined* storage levels as we wait for inflows to increase. Water Managers continue to actively monitor potential precipitation events since some reservoirs (Prineville, Bully Creek, Warm Springs, and Scoggins) are potentially a decent rainstorm away from exceeding maximum winter storage requirements as set by flood control regulations.

Umatilla River Basin: McKay reservoir is at 20 percent of capacity. Outflows are close to 10 cfs with inflows of about 20 cfs.

Deschutes River Basin: Ochoco and Prineville reservoirs are at 45 percent and 57 percent full respectively. Ochoco reservoir is releasing less than 5 cfs while Prineville reservoir is currently releasing about 100 cfs with inflows of about 67 cfs. Crescent Lake is at 50 percent, Wickiup is at 45 percent and Crane Prairie is at 76 percent of capacity.

Malheur River Basin: Warm Springs, Beulah, and Bully Creek reservoirs are at 56, 38, and 50 percent full respectively. All three are above normal for this time of year, increasing the chance of available carryover for next year.

Owyhee River Basin: Owyhee reservoir is well above normal at 67 percent. Inflows are currently about 240 cfs.

Burnt and Powder River Basins: Phillips and Unity reservoirs are at 23 percent and 41 percent full respectively. Phillips is releasing about 16 cfs with inflows around 15 cfs while Unity is releasing about 14 cfs.

[Tualatin River Basin](#): Scoggins reservoir is at 43 percent of capacity and releasing just over 20 cfs.

The most recent update to the [US Drought Monitor](#) now indicates that almost 98 percent of the state is in D0 (abnormally dry) conditions with almost 25 percent of the state listed as in D1 (moderate drought).

Wildfire potential through December is predicted to be normal across Oregon.

According to the [National Significant Wildland Fire Potential Outlook](#), large fire activity has been limited across the Northwest Geographic Area this fire season and should continue to be limited the rest of 2019. At the current time, there are no large fires ongoing in the region. More information can also be accessed through the Northwest Interagency Coordination Center [website](#). Another recommended resource is the Oregon Office of Emergency Management’s [RAPTOR](#) incident mapping program which includes current situational information, such as wildfire perimeters, thermal satellite, fire evacuation boundaries, and air quality info.

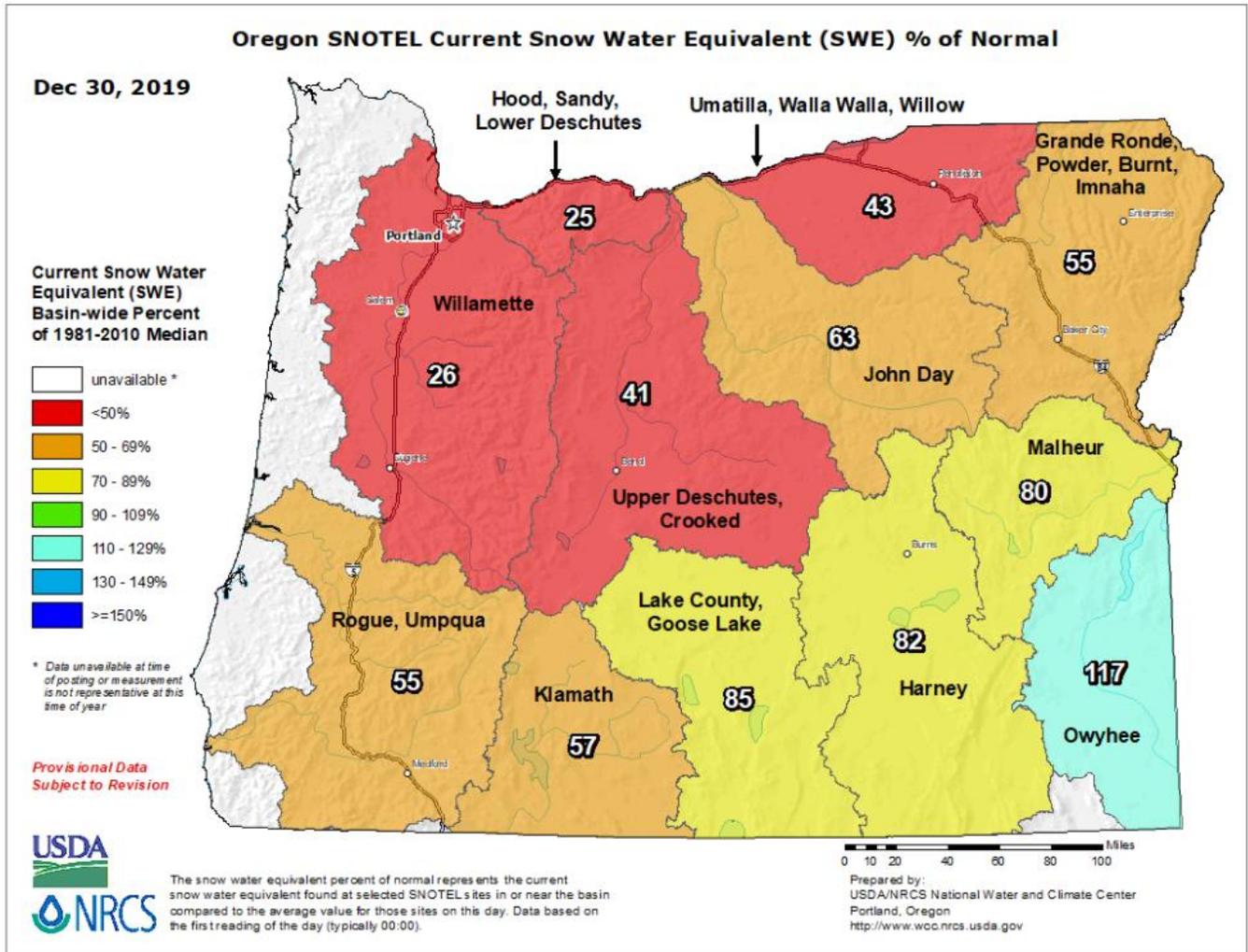
The Oregon Office of Emergency Management has put together a new [hydrology/meteorology dashboard](#) featuring many of the data sources used to generate this report.

Data & Products:

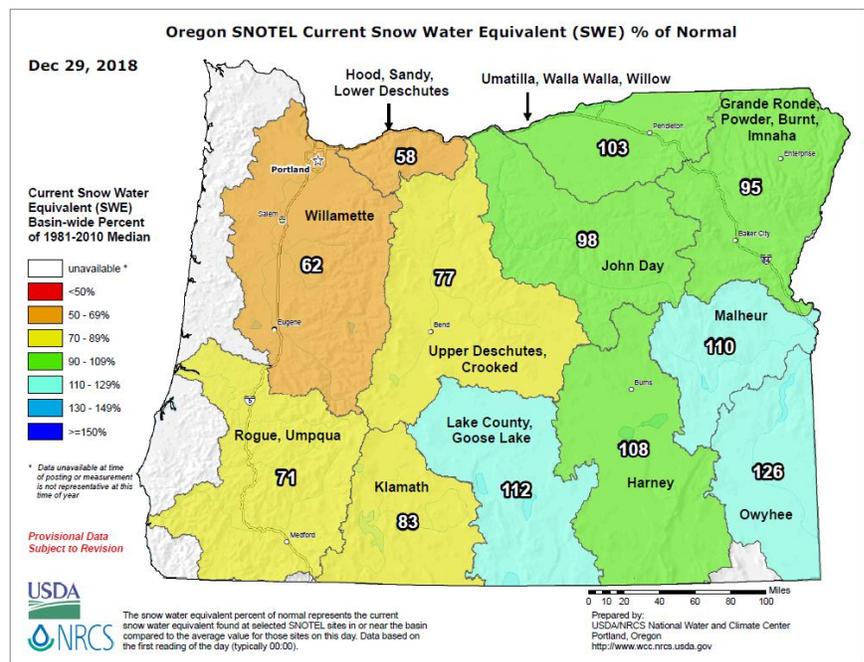
Page:

Snow Water Equivalent (SWE) - Percent of Normal	4
Precipitation (Mountain) - Percent of Normal	5
Precipitation – (1 Month) Percent of Normal	6
Temperature – (1 Month) Departure from Normal	7
Three Month Temperature and Precipitation Outlook	8
Total Moisture - Percentile	9
U.S. Drought Monitor for Oregon	10
Streamflow Conditions by County – December 29, 2019	11
Streamflow Conditions – Umpqua Basin (Douglas County)	11
Streamflow Conditions – Malheur Basin (Malheur County)	12
Streamflow Conditions – Umatilla Basin (Umatilla County)	12

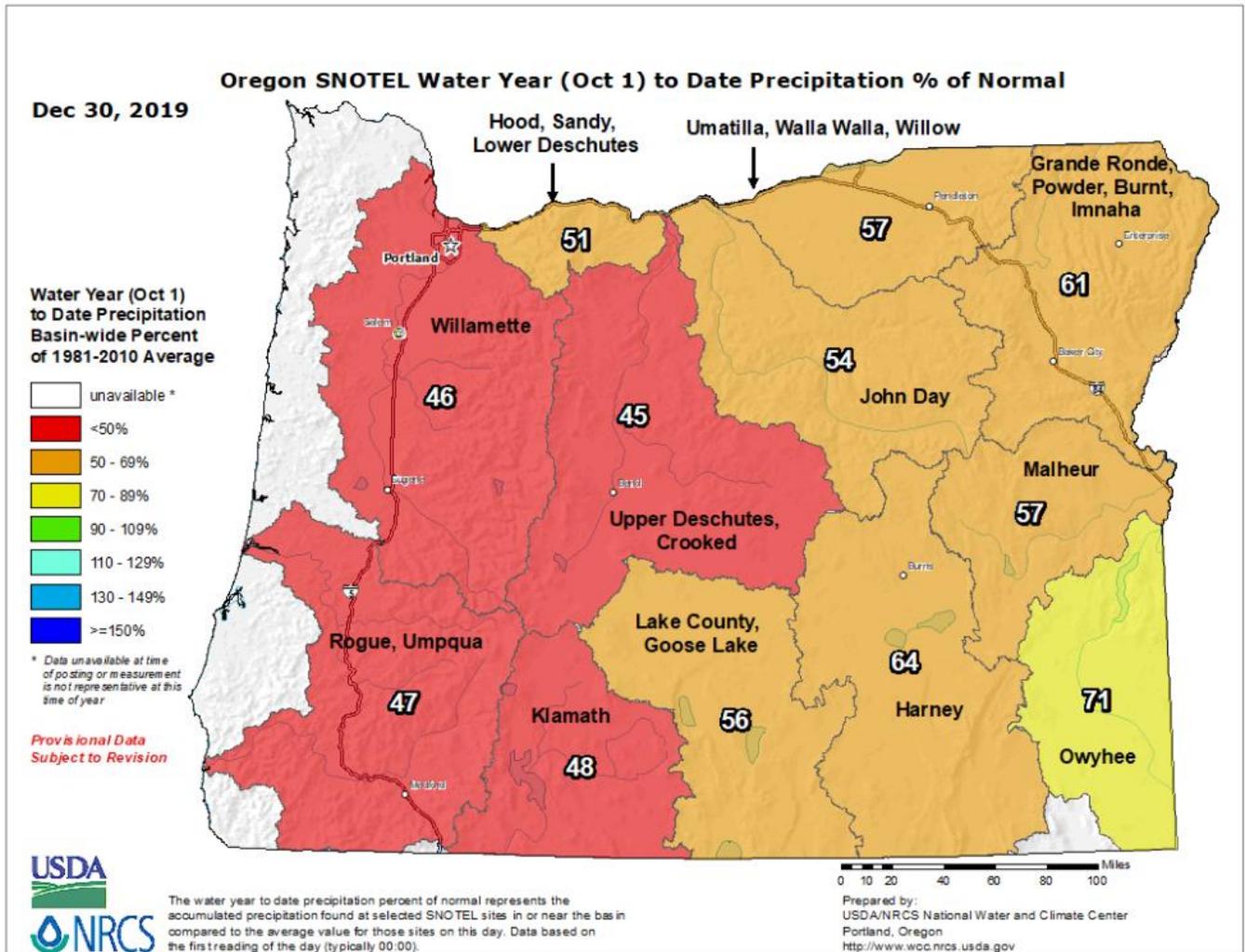
Snow Water Equivalent (SWE) - Percent of Normal



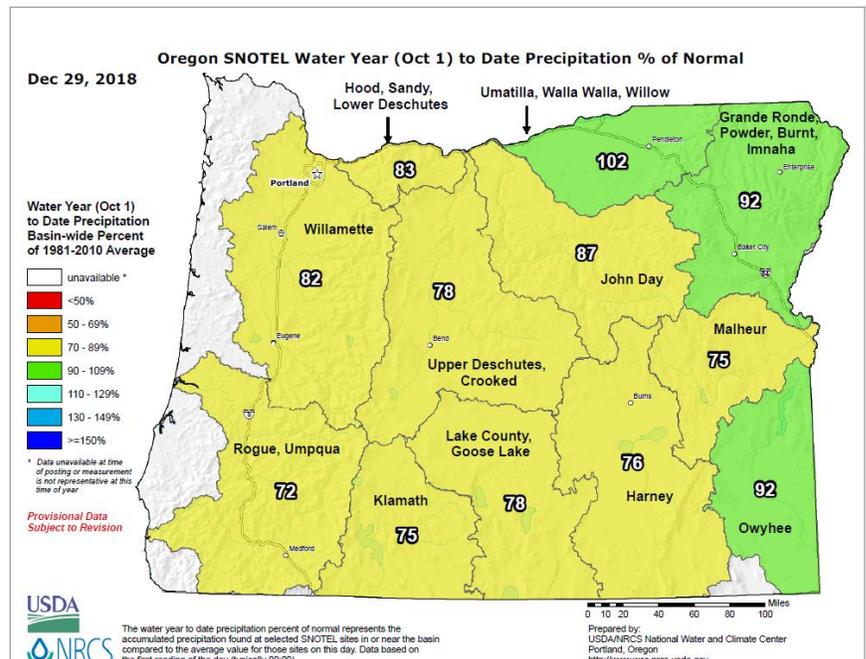
Compared to this time last year:



Precipitation (Mountain) - Percent of Normal



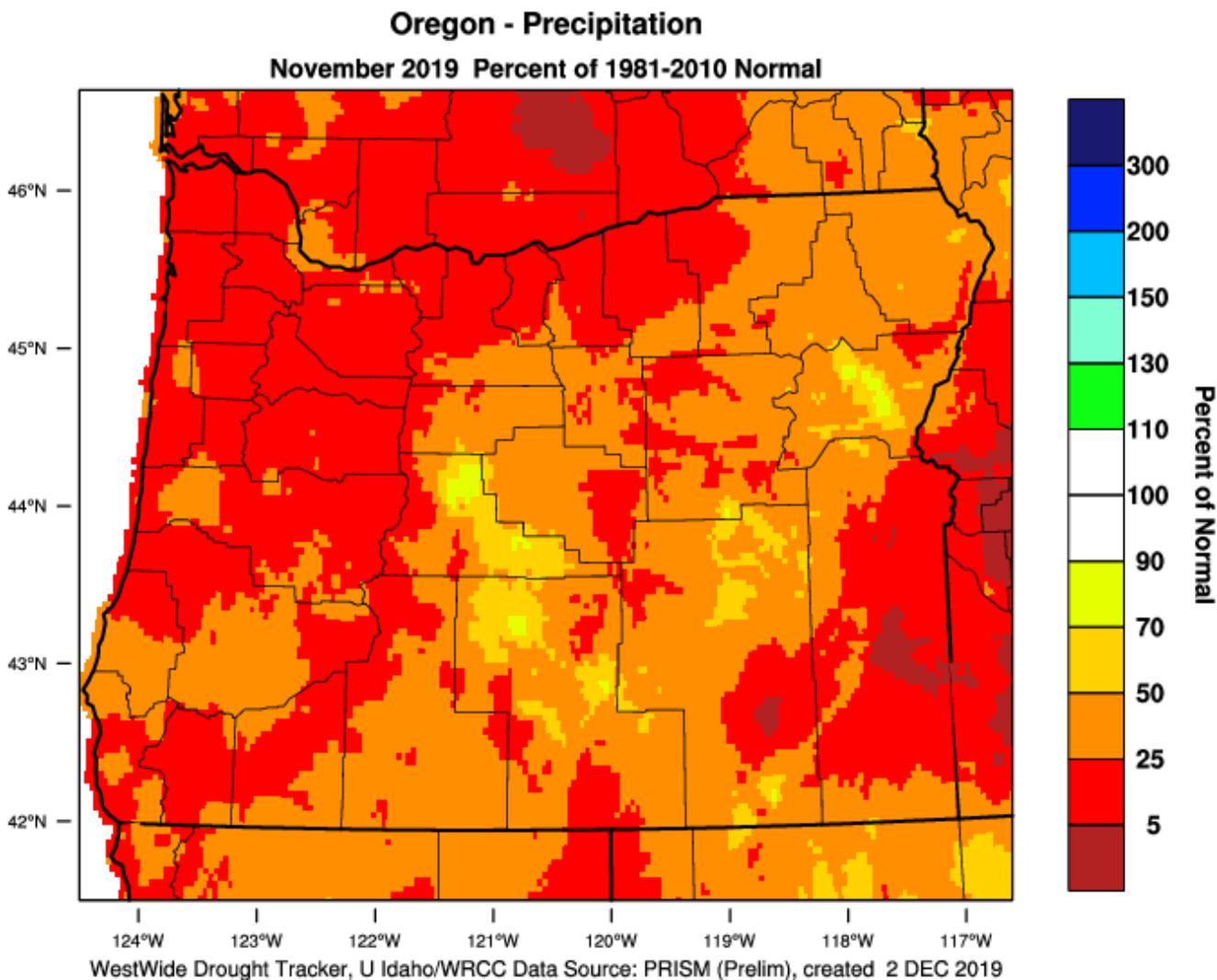
Compared to this time last
year:



Precipitation – (1 Month) Percent of Normal

Website: <https://wrcc.dri.edu/wwdt/index.php?folder=pon1>

PRISM > Precipitation Anomaly 1 Month > Oregon



[Download PRISM Precipitation Anomaly 1 Month NETCDF Data for United States](#)

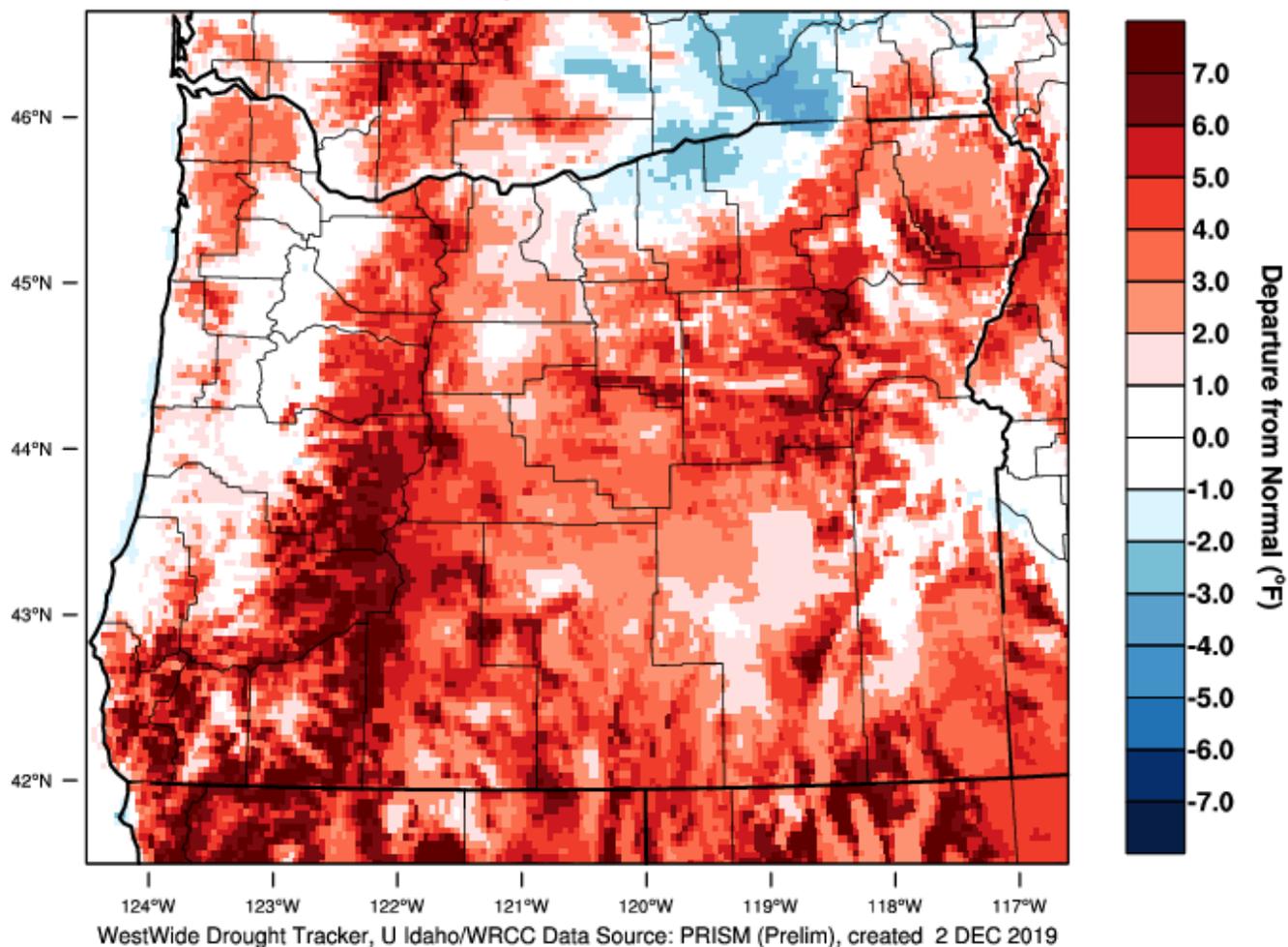
Temperature – (1 Month) Departure from Normal

Website: <https://wrcc.dri.edu/wwdt/index.php?region=or>

PRISM > Temperature Anomaly 1 Month > Oregon

Oregon - Mean Temperature

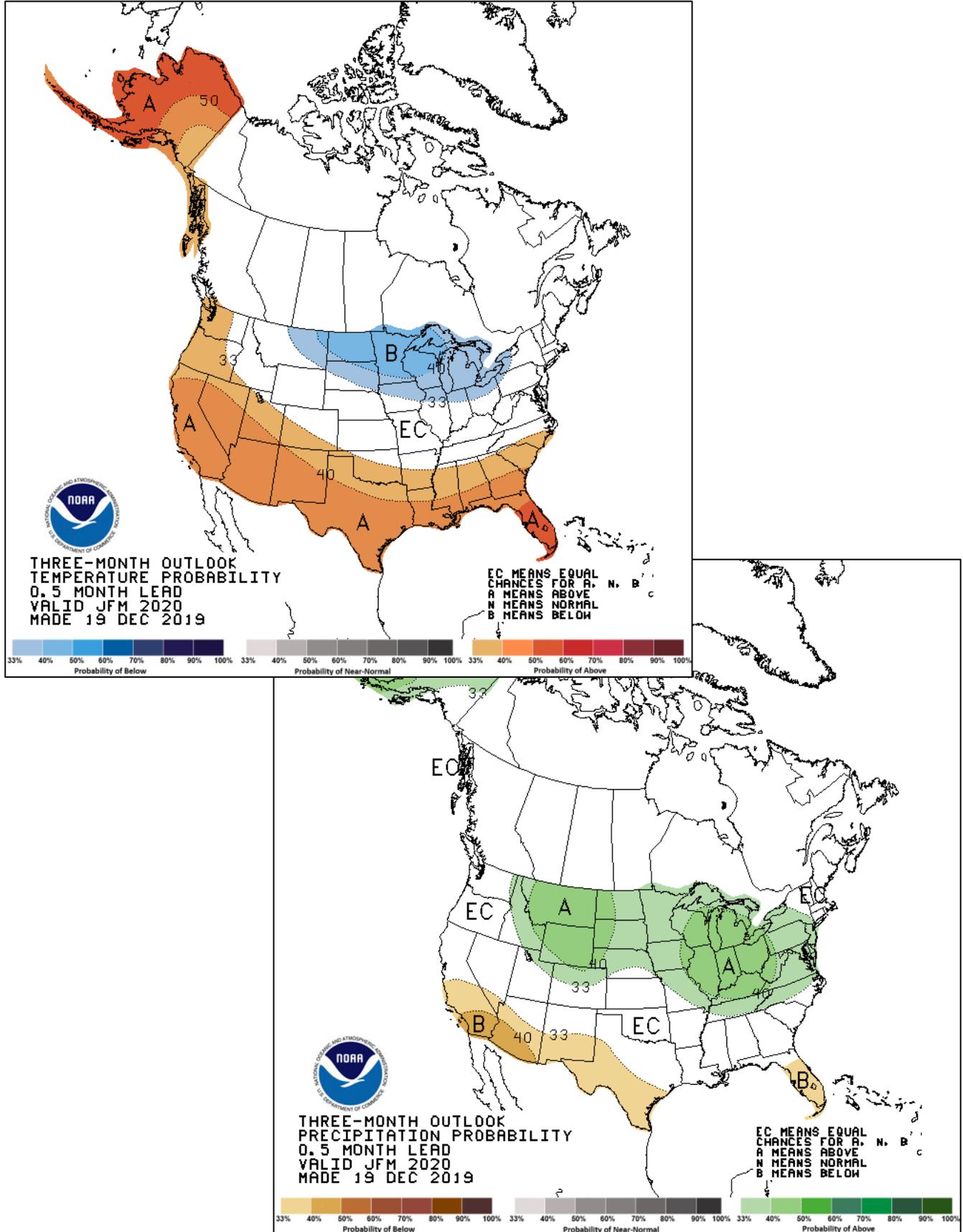
November 2019 Departure from 1981-2010 Normal



Three Month Temperature and Precipitation Outlook

January through March

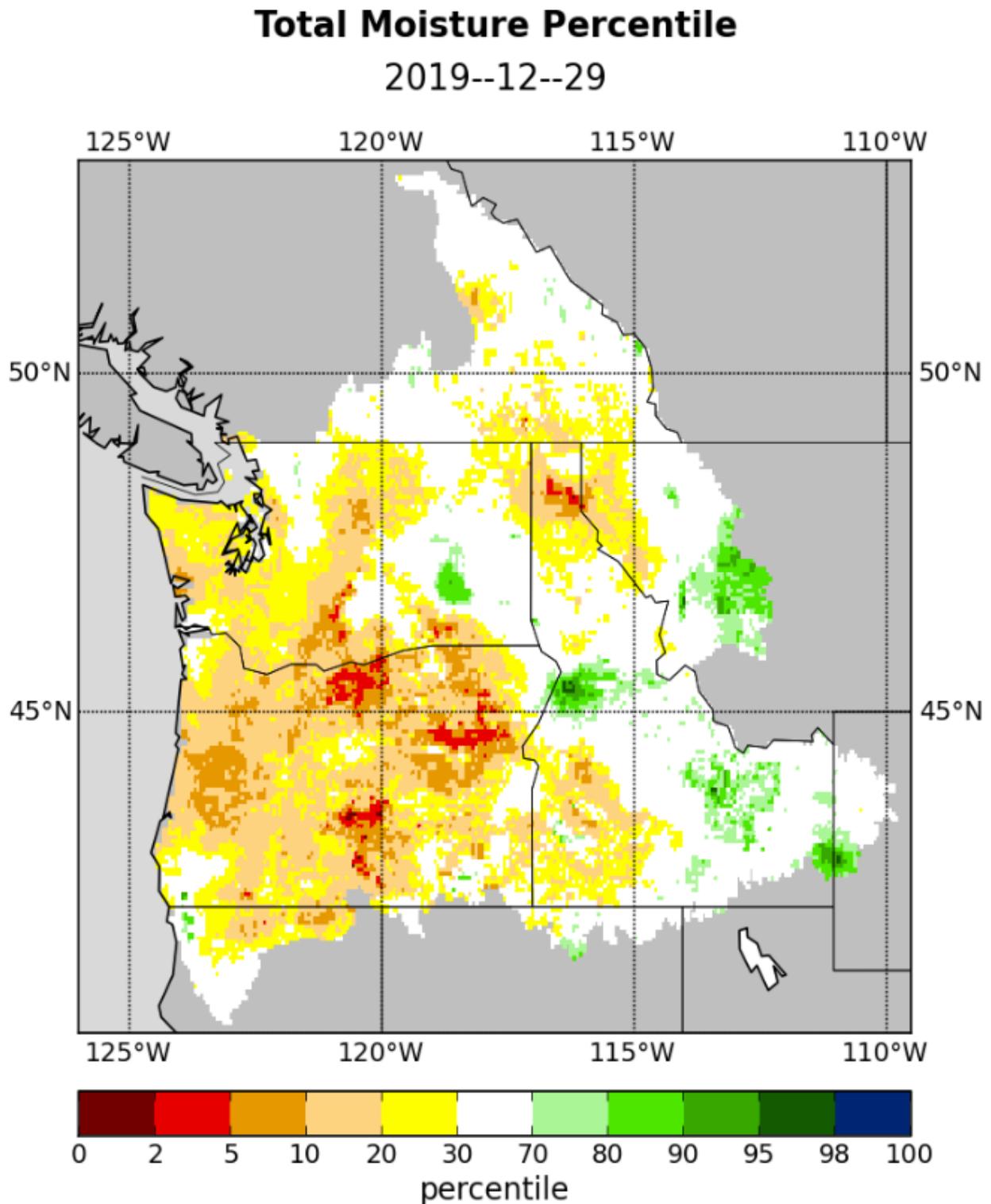
Website: http://www.cpc.ncep.noaa.gov/products/predictions/long_range/seasonal.php?lead=1



Total Moisture - Percentile

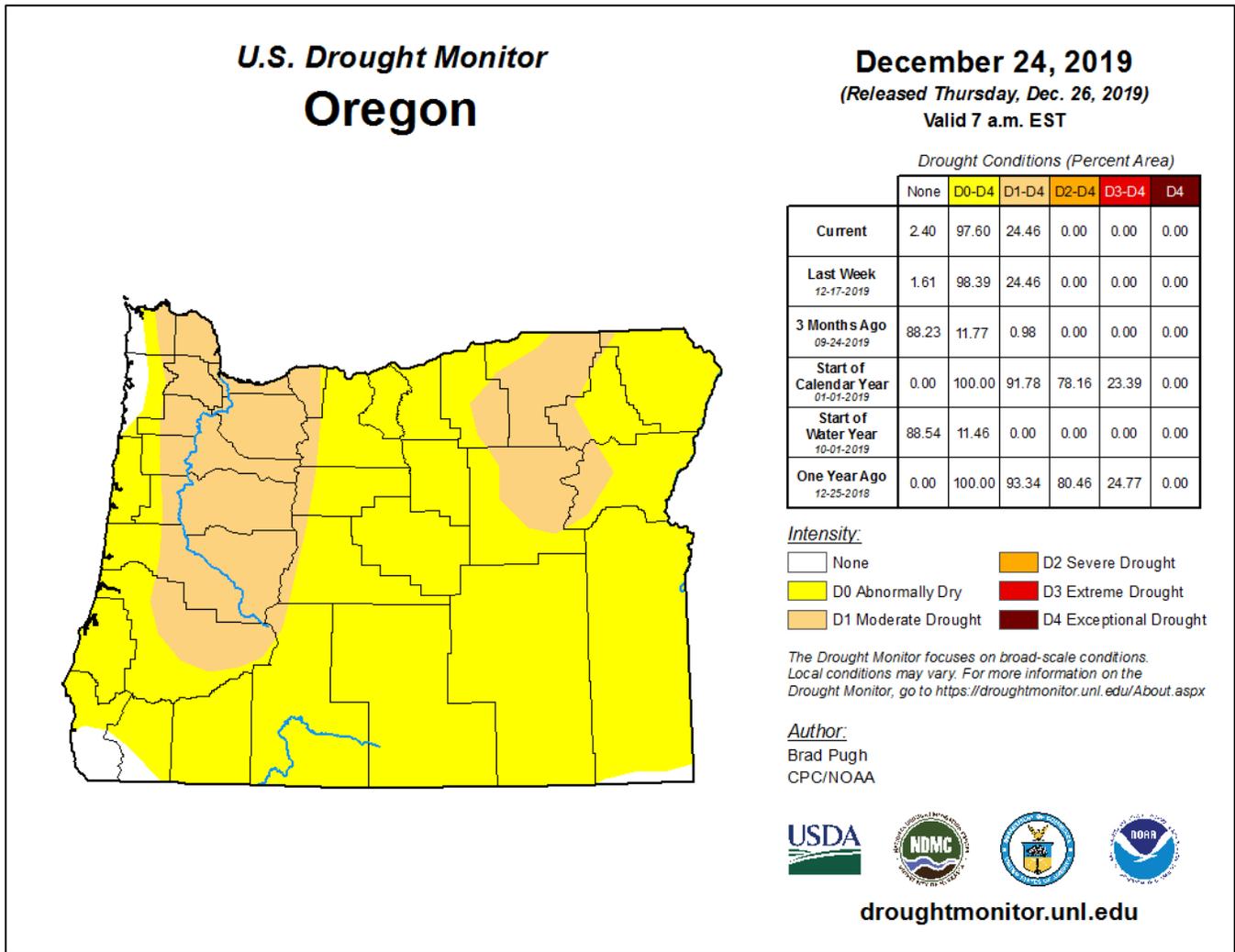
Total Moisture (STOT) is a moisture index calculated by adding Soil Moisture and Snow Water Equivalent. STOT represents the total water content of a region.

Website: http://www.hydro.ucla.edu/SurfaceWaterGroup/forecast/monitor_pnw/index.shtml

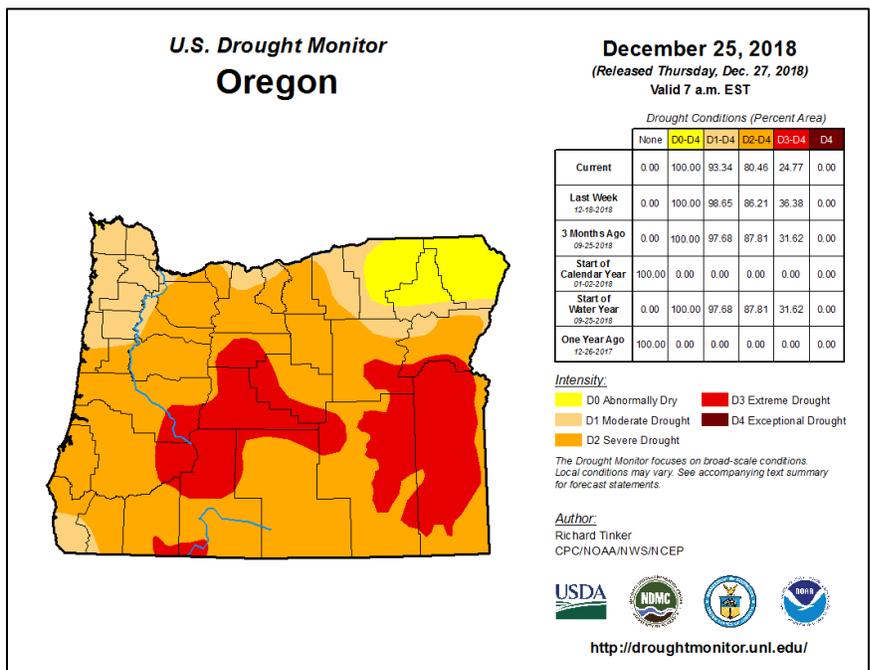


U.S. Drought Monitor for Oregon

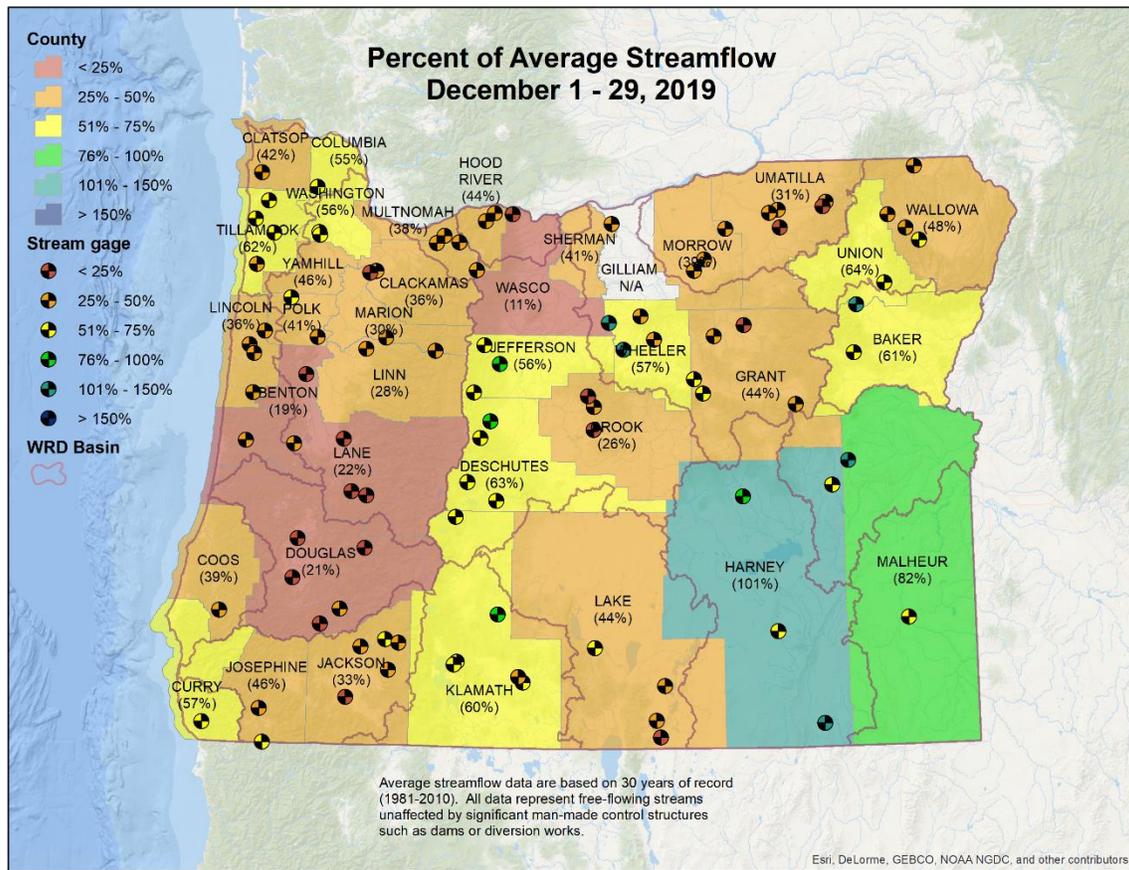
Website: <https://droughtmonitor.unl.edu/CurrentMap/StateDroughtMonitor.aspx?OR>



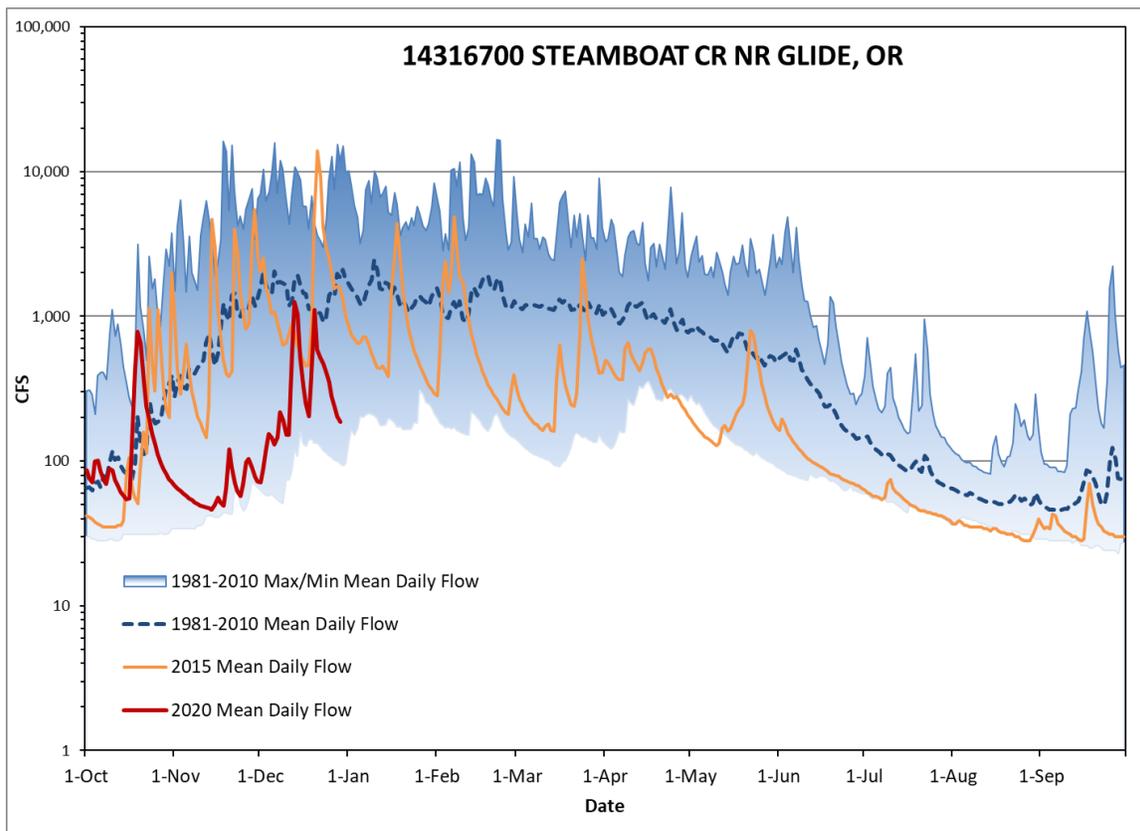
Compared to this time last year:



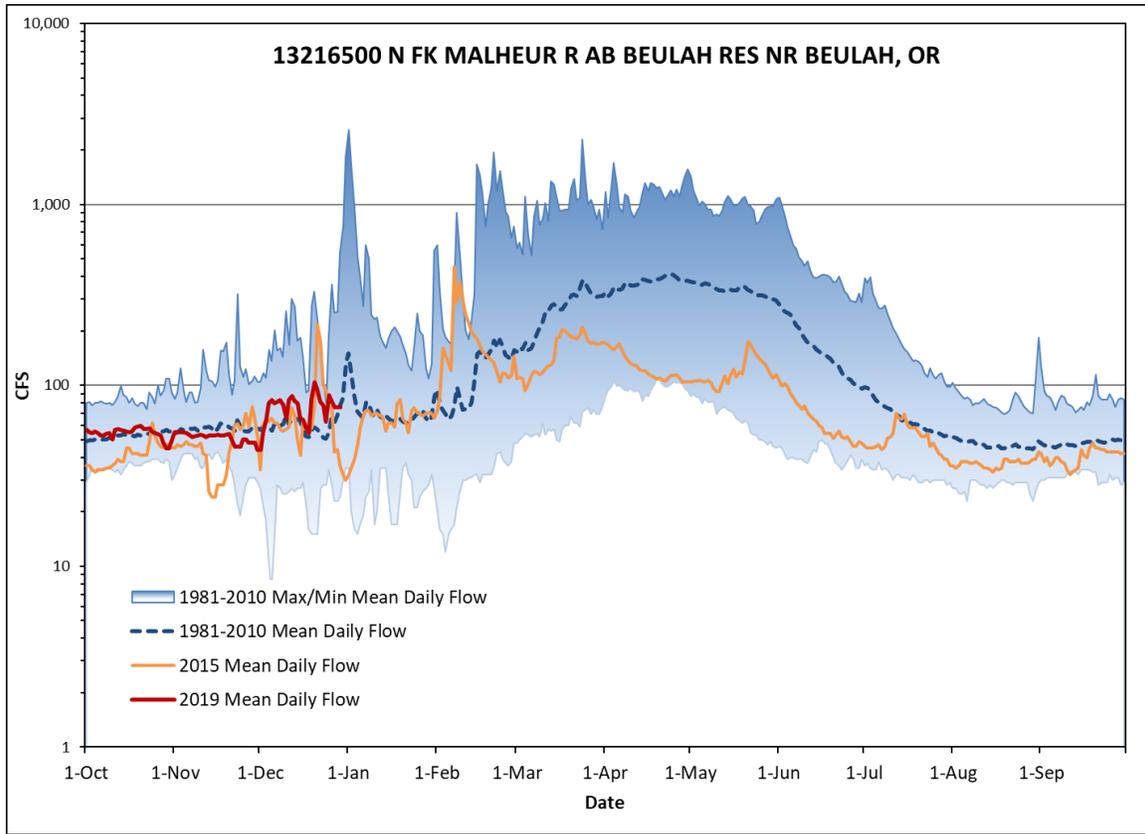
Streamflow Conditions by County – December 29, 2019



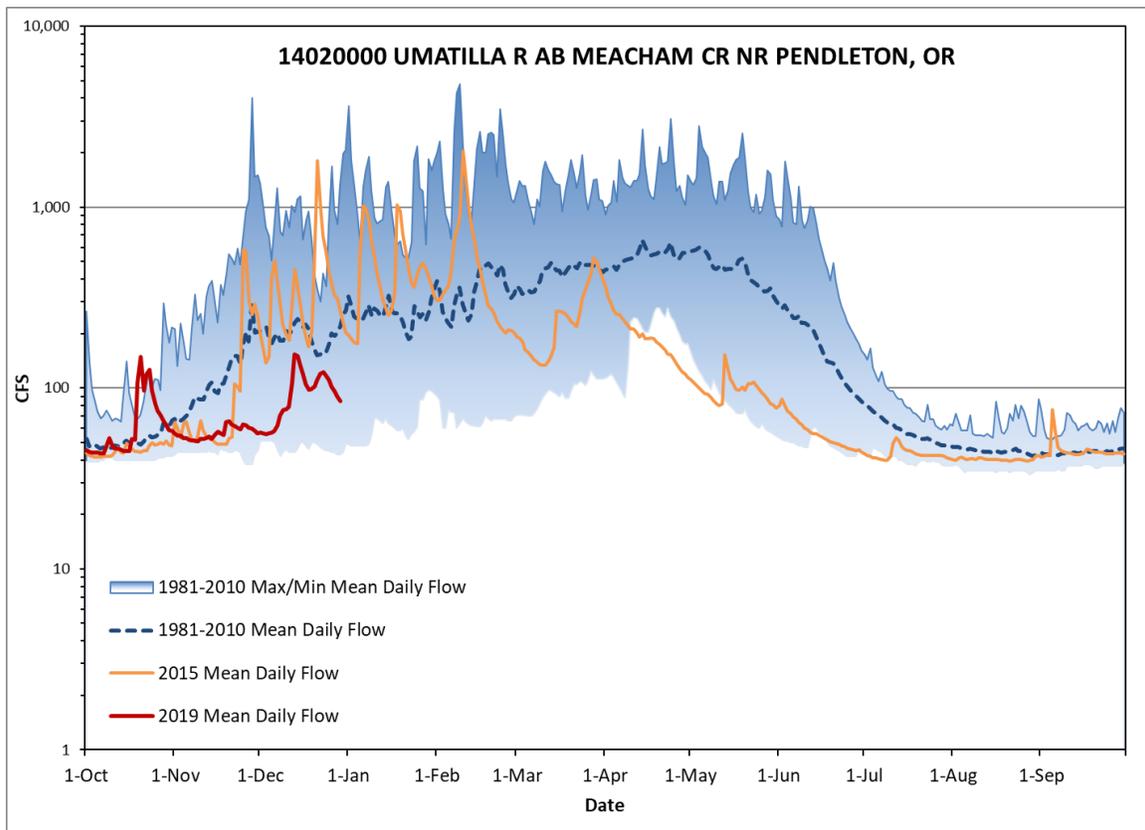
Streamflow Conditions – Umpqua Basin (Douglas County)



Streamflow Conditions – Malheur Basin (Malheur County)



Streamflow Conditions – Umatilla Basin (Umatilla County)





Lake Oswego/Tigard Water Supply Partnership

TO: Oversight Committee

**FROM: Kari Duncan and John Goodrich
Operations Committee**

DATE: January 13, 2020

SUBJECT: Lake Oswego Tigard Water Management and Conservation Plan

Background:

The Cities of Lake Oswego and Tigard (Cities) presented their joint 2019 Water Management and Conservation Plan (WMCP) to the Oregon Water Resources Department (OWRD) in 2019 and OWRD is ready to approve the plan once the Water Rights Permit extensions are approved. This joint plan enables the Cities to coordinate the management and conservation of their shared water resource in the Clackamas River, in recognition of the Lake Oswego-Tigard Water Partnership Agreement signed in 2008. This Agreement provided for the construction and management of a joint water supply system to divert water from the Clackamas River using Lake Oswego's Clackamas River surface water rights.

The City of Lake Oswego (Lake Oswego) first submitted a WMCP in 2007 and the OWRD issued a Final Order approving the WMCP on April 8, 2008. Lake Oswego submitted an updated plan in 2010. Lake Oswego is submitting this plan to meet the Oregon Administrative Rule (OAR) in Chapter 690, Division 086 that requires water providers to submit an updated plan within 10 years of a final order approving a previous WMCP. This WMCP updates the 2010 plan.

The City of Tigard (Tigard) is operating under a WMCP for which OWRD issued a final order of approval on September 22, 2011. Under OAR Chapter 690, Division 086, Tigard also is required to obtain approval from OWRD for an update to its WMCP within 10 years of the final order. This WMCP will replace the 2011 Tigard WMCP.

This joint WMCP describes the methods that the Cities will employ to efficiently manage their current water rights and presents a comprehensive 20-year strategy to meet their future municipal water supply needs.

Objective:

The WMCP is required under the Division 86 rule to meet specific review criteria. These criteria include projections of future water needs, water conservation measures noted under OAR 690-086-0150, identification of resource issues, a curtailment plan, and a schedule for future water demand projections. The previous plans developed separately by Lake Oswego and Tigard are now merged into a common, coordinated plan.

Action:

The report and presentation are for information only. The Cities may wish to adopt the curtailment plan formally through code or ordinance so that key plan elements, such as mandatory water reduction, are enforceable.



Subject: Award of a Public Improvement Contract: Work Order 290 – River Intake Pump Station Upgrades.	
Meeting Date: January 7, 2020	Staff Member: Kari Duncan Department: Engineering
Action Required <input checked="" type="checkbox"/> Motion <input type="checkbox"/> Public Hearing <input type="checkbox"/> Ordinance <input type="checkbox"/> Resolution <input type="checkbox"/> Information Only <input type="checkbox"/> Council Direction <input type="checkbox"/> Consent Agenda	Advisory Board/Commission Recommendation <input type="checkbox"/> Approval <input type="checkbox"/> Denial <input type="checkbox"/> None Forwarded <input checked="" type="checkbox"/> Not Applicable Comments:
	Staff Recommendation: Approve a Public Improvement Contract
Recommended Language for Motion: Move to award a public improvement contract to Stellar J. Corporation in the amount of \$584,500 for Work Order 290: River Intake Pump Station Upgrades.	
Project / Issue Relates To:	
<input type="checkbox"/> Council Goals/Priorities <input type="checkbox"/> Adopted Master Plan(s) <input checked="" type="checkbox"/> Not Applicable	

EXECUTIVE SUMMARY

Construction of the River Intake Pump Station (RIPS) was completed in 2015 as part of the Lake Oswego-Tigard Water Partnership. The RIPS is a critical component of the water supply system used to supply water to Lake Oswego and Tigard citizens. Installation of a fifth and final pump at the RIPS will improve facility reliability and resiliency.

BACKGROUND

The RIPS facility was designed to ultimately house five, vertical turbine pumps. The initial construction of the RIPS included the installation of four of the five pumps with space set aside for a fifth and final pump. Although it was not initially anticipated that the fifth pump would be added until later, it was decided that it is beneficial to install the pump at this time to provide more flexibility at the pump station and allow the other pumps to be taken offline for repair and maintenance.

DISCUSSION

Engineering Department staff contracted with local engineering consulting firm Black & Veatch (BV) to prepare plans and specifications for installation of the fifth and final pump at the RIPS. As the original engineer of record for design of the RIPS facility, BV was able to economically update the original plans and specifications for purposes of soliciting bids from contractors for this final pump installation. On November 20th and 22nd, the City published notice in the Daily Journal of Commerce, inviting qualified bidders to submit bids for the project. A mandatory contractor pre-bid meeting was held at the RIPS. Potential bidders were allowed inside the facility to familiarize themselves with the site of the work and existing conditions. On December 12th, 2019, five bids were received from contractors. The lowest, responsive and responsible bid was submitted by Stellar J. Corporation from Woodland, WA. The bid amount is \$584,500. The Engineer's estimate was \$637,000.

RECOMMENDATION

Move to approve award of a public improvement contract to Stellar J. Corporation for Work Order 290: River Intake Pump Station Upgrades, in the amount of \$584,500.



Revenue and Expense Account Summary

For Fiscal: 2019-2020 Period Ending: 12/31/2019

		Current Total Budget	Period Activity	Fiscal Activity	Budget Remaining	Percent Remaining
610 - WATER FUND						
Revenue						
610-611-310310-0000	Insurance Reimbursements	0.00	0.00	33,993.00	-33,993.00	0.00 %
610-611-310910-0000	Sundry Income	70,000.00	0.00	34,597.01	35,402.99	50.58 %
	Revenue Total:	70,000.00	0.00	68,590.01	1,409.99	2.01 %
Expense						
610-611-411100-0000	Full-Time Salaries and Wages	1,899,000.00	0.00	0.00	1,899,000.00	100.00 %
610-611-411110-0000	Full-Time Regular Salaries	0.00	26,648.48	320,912.57	-320,912.57	0.00 %
610-611-411120-0000	Full-Time Other Paid Leave	0.00	2,940.14	7,995.26	-7,995.26	0.00 %
610-611-411122-0000	Full-Time Vacation Leave	0.00	-251.84	33,842.39	-33,842.39	0.00 %
610-611-411125-0000	Full-Time Comp Leave	0.00	2,572.45	18,534.91	-18,534.91	0.00 %
610-611-411130-0000	Full-Time Sick Leave	0.00	6,808.45	17,409.88	-17,409.88	0.00 %
610-611-411300-0000	Overtime Salaries	39,000.00	1,642.03	14,315.45	24,684.55	63.29 %
610-611-411400-0000	Special Pay	70,000.00	1,846.44	9,617.76	60,382.24	86.26 %
610-611-411410-0000	Working out of Classification	0.00	0.00	735.83	-735.83	0.00 %
610-611-411430-0000	Shift Differential Pay	0.00	165.83	2,937.94	-2,937.94	0.00 %
610-611-411435-0000	Accrued Vacation Payoff	0.00	0.00	14,275.42	-14,275.42	0.00 %
610-611-411450-0000	Holiday Pay	0.00	0.00	3,234.40	-3,234.40	0.00 %
610-611-412100-0000	Payroll Taxes	170,000.00	3,370.24	36,256.92	133,743.08	78.67 %
610-611-412200-0000	PERS	603,000.00	11,764.19	130,272.85	472,727.15	78.40 %
610-611-412300-0000	Health Insurance	506,000.00	20,208.57	115,438.53	390,561.47	77.19 %
610-611-412400-0000	Other Benefits	73,000.00	973.30	15,743.40	57,256.60	78.43 %
610-611-421000-0000	General Office Supplies	6,000.00	113.40	1,155.36	4,844.64	80.74 %
610-611-422300-0000	Postage	2,000.00	21.84	645.81	1,354.19	67.71 %
610-611-427150-0000	Safety Equipment	4,000.00	153.22	1,348.33	2,651.67	66.29 %
610-611-427200-0000	Clothing Allowance	10,000.00	89.46	2,214.63	7,785.37	77.85 %
610-611-427300-0000	Laundry Service	4,000.00	213.50	1,202.25	2,797.75	69.94 %
610-611-428000-0000	Small Tools and Supplies	10,000.00	103.37	1,763.12	8,236.88	82.37 %
610-611-429500-0000	Misc Furnishings & Equipment	12,000.00	145.47	5,227.62	6,772.38	56.44 %
610-611-429700-0000	Publications and Reports	2,000.00	59.50	372.10	1,627.90	81.40 %
610-611-431000-0000	Misc Professional & Technical	110,000.00	1,985.25	16,827.74	93,172.26	84.70 %
610-611-431540-0000	Software, Purchases & Licenses	60,000.00	10,530.00	16,530.00	43,470.00	72.45 %
610-611-431910-0000	Laboratory Services	65,000.00	1,905.00	11,018.00	53,982.00	83.05 %
610-611-431932-0000	Contracted Services	240,000.00	32,849.03	63,223.53	176,776.47	73.66 %
610-611-431937-0000	Vehicle Contract Service Fee	6,000.00	0.00	1,033.56	4,966.44	82.77 %
610-611-432110-0000	Technical Seminars, Training	30,000.00	776.14	5,569.31	24,430.69	81.44 %
610-611-432200-0000	Tuition Reimbursement	6,000.00	0.00	0.00	6,000.00	100.00 %
610-611-432300-0000	Membership Dues	10,000.00	450.00	2,626.00	7,374.00	73.74 %
610-611-434400-0000	Purchased Water	120,000.00	6,067.92	23,865.39	96,134.61	80.11 %
610-611-435230-0000	Telemetry Communication Charge	8,000.00	2.10	10.50	7,989.50	99.87 %
610-611-435240-0000	Miscellaneous Communication	30,000.00	790.02	9,607.31	20,392.69	67.98 %
610-611-437110-0000	Landscape Maintenance Contract	80,000.00	3,572.14	20,660.62	59,339.38	74.17 %
610-611-437180-0000	Grounds Maint-Misc Contr Svcs	0.00	0.00	1,317.50	-1,317.50	0.00 %
610-611-437230-0000	Janitorial and Cleaning Sply	10,000.00	130.52	762.57	9,237.43	92.37 %
610-611-437260-0000	Sludge Beds Maintenance	165,000.00	1,714.10	26,536.32	138,463.68	83.92 %
610-611-437280-0000	Bldg Maint-Misc Contracted Svc	70,000.00	4,105.26	19,996.37	50,003.63	71.43 %
610-611-437290-0000	Bldg Maint-Misc Materials	10,000.00	0.00	283.01	9,716.99	97.17 %
610-611-437310-0000	Equipment Repair and Service	240,000.00	17,076.05	74,878.22	165,121.78	68.80 %
610-611-437330-0000	Vehicle Repairs, Parts & Supp	8,000.00	0.00	2,314.38	5,685.62	71.07 %
610-611-437340-0000	Gasoline, Oil and Lubricants	4,000.00	0.00	358.37	3,641.63	91.04 %
610-611-437410-0000	Electricity	1,798,000.00	39,027.97	233,347.05	1,564,652.95	87.02 %
610-611-437420-0000	Natural Gas and Propane	50,000.00	2,792.01	6,100.58	43,899.42	87.80 %
610-611-437585-0000	Water Treatment Chemicals	460,000.00	15,281.16	107,909.30	352,090.70	76.54 %

Revenue and Expense

For Fiscal: 2019-2020 Period Ending: 12/31/2019

	Current Total Budget	Period Activity	Fiscal Activity	Budget Remaining	Percent Remaining
610-611-438110-0000 Internal Fees for Service - Admin	437,000.00	0.00	89,581.00	347,419.00	79.50 %
610-611-438672-0000 Internal Fees for Service - Electroni	8,000.00	0.00	2,081.00	5,919.00	73.99 %
610-611-439900-0000 Other Miscellaneous Exp	0.00	425.25	1,569.69	-1,569.69	0.00 %
610-611-481310-0000 Rehabilitation/Replacemt Dev	500,000.00	0.00	108,034.95	391,965.05	78.39 %
Expense Total:	7,935,000.00	219,067.96	1,601,495.00	6,333,505.00	79.82 %
610 Total:	7,865,000.00	219,067.96	1,532,904.99	6,332,095.01	80.51 %
(Surplus) Deficit:	7,865,000.00	219,067.96	1,532,904.99	6,332,095.01	80.51 %

Group Summary

Account Type	Current Total Budget	Period Activity	Fiscal Activity	Budget Remaining	Percent Remaining
610 - WATER FUND					
Revenue	70,000.00	0.00	68,590.01	1,409.99	2.01 %
Expense	7,935,000.00	219,067.96	1,601,495.00	6,333,505.00	79.82 %
610 Total:	7,865,000.00	219,067.96	1,532,904.99	6,332,095.01	80.51 %
(Surplus) Deficit:	7,865,000.00	219,067.96	1,532,904.99	6,332,095.01	80.51 %

Fund Summary

Fund	Current Total Budget	Period Activity	Fiscal Activity	Budget Remaining	Percent Remaining
610 - WATER FUND	7,865,000.00	219,067.96	1,532,904.99	6,332,095.01	80.51 %
(Surplus) Deficit:	7,865,000.00	219,067.96	1,532,904.99	6,332,095.01	80.51 %