

Water Year 2014 Data Report

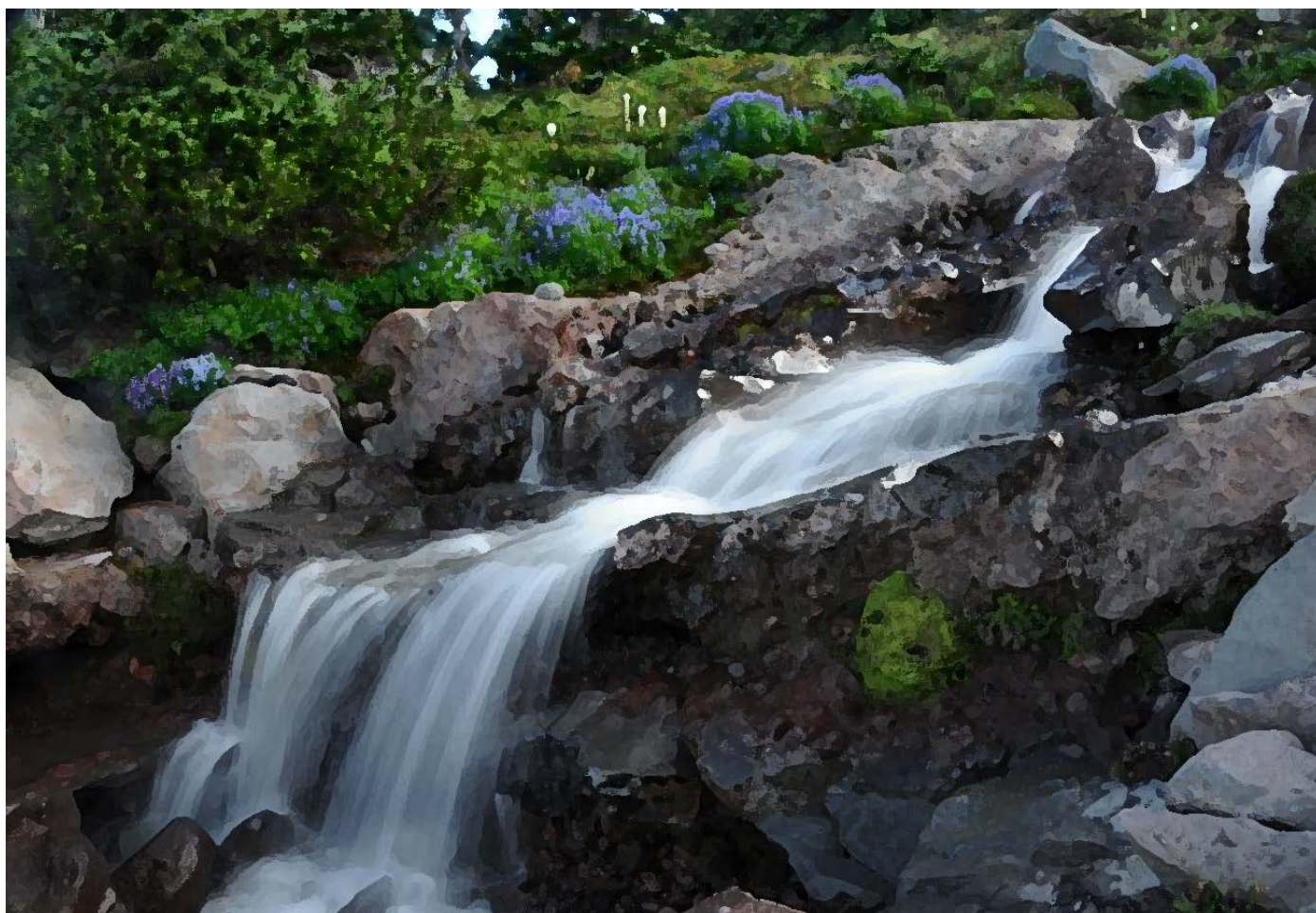
Thurston County Water Resources Environmental Monitoring Program

Forward

The following report summarizes data findings for the Water Year beginning October 1, 2013 through September 30, 2014. Where necessary, data prior to the current water years are included to illustrate trends that may indicate long term changes that are occurring. Likewise, data from the 2015 Water Year may also be used to illustrate trends that cross the formal water year timelines if necessary.

This report is a template that will serve as a starting point for future reports and as such will be expanded upon in the WY 2015 report as the formal format for these reports are amended and improved. This report is meant to summarize conditions that have been recorded over the entire water year, and, where possible the data charts, tables and other visual formats are included to help readers visualize topics discussed in the text.

MPB - 2015



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2014 Water Year Summary – Precipitation, Groundwater/Lakes and Streamflow

In 2014 the Resource Stewardship, Water Resources Group completed equipment and software upgrades of all Environmental Monitoring Program sites in its inventory. There are 122 data collection sites that are managed by the Water Resources Group located all across Thurston County. These sites consist of data collection equipment that measure multiple types of environmental conditions ranging from groundwater to atmospheric parameters and streamflow/river flow conditions. The data is collected, processed to Department of Ecology standards, and provided to users in many formats on the County's Water Resources Programs website (<http://www.co.thurston.wa.us/monitoring/>).

Thurston County has almost 20 years of data for several sites, and this data is now being used as part of the ongoing effort to track trends in multiple aspects of our environment. They include potential climate change indicators that seem to be causing shifts in overall trends of precipitation distribution and associated changes in groundwater behavior.

When discussing potential causes related to climate change, it is always difficult to prove that long-term changes are occurring because of the natural variation in climate. Generally, it takes decades of data to definitively demonstrate true, long-term shifts in climate, but the early indicators do point to a shifting weather pattern for the Pacific Northwest. Whether this trend is permanent or just a decadal cycle can only be answered with time and data. Below is the discussion of the data that Thurston County has collected for the Water Year 2014 (Oct 1, 2013 – September 30, 2014). All of the data that Thurston County collects is available at the web address above. Some examples are presented in the Appendices of this report or in Tables throughout the text.

The following is a summary table of the precipitation data at Building 4 of the Thurston County Courthouse for the 2014 Water Year. This data is selected because it is the station by which all other stations are compared, and it is available live online for live weather viewing

at: <http://www.weatherlink.com/user/bievermp/index.php?view=summary&headers=1>

Weather and Atmospheric Monitoring - WY 2014

One of the most important elements of the Environmental Monitoring Program is the weather and atmospheric monitoring. This is the core of the program because it allows us to gauge all of the other components within the monitoring program by indicating how much water is entering and leaving the water cycle. This in turn allows for flood and drought planning and also provides critical data for high, medium, and low conditions for streams and rivers, groundwater, and lakes. It also allows us to determine long term averages and extreme conditions that may affect the planning process for the County. It is also a meter for how much groundwater is in the aquifer system and how much storage or flooding may result in the future. This part of the program is also an integral part of the region's ability to track changes in climate patterns. This is becoming increasingly important as we track the environmental changes that may be occurring.

All of our environmental monitoring stations record rainfall. Some stations record barometric pressure, wind speed and direction, temperature, and evaporation potential. The types of weather stations deployed depend on the data requirements and geographic distribution of the sites. There are currently 21 stations operational in our network. These stations are distributed throughout the entire County but are focused more generally in the north central populated regions because the program originated in Olympia in 1989 and has been slowly expanding since 2009. A more regional expansion occurred beginning in 2010 and will continue into areas identified as gaps over the next few years. Each station records a full

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data suite every fifteen minutes, and the data is processed and posted online for viewing or downloading. Below is a discussion of the 2014 Water Year findings.

The most pronounced trend in precipitation over the past water year and continuing on from previous water years is the temporal distribution of rainfall. There is not necessarily statistically more or less precipitation, but it is being distributed out over a longer period during the wet season (Late Oct/ November through April). WY 2014 follows previous years' trends of dry mid-winter months and wet spring months.

Precipitation Summary for Water Year 2014 at the Thurston County Courthouse

Month	Measured Precip (in)	Average (in)	Departure (in)	Month	Measured Precip (in)	Average (in)	Departure (in)	Comments
Oct (2013)	1.66	4.61	- 2.95	Apr (2014)	5.34	3.43	1.91	Wet spring
Nov (2013)	4.07	8.10	- 4.03	May (2014)	3.75	2.05	1.70	Wet spring
Dec (2013)	2.00	8.21	- 6.21	Jun (2014)	1.12	1.61	- 0.49	
Jan (2014)	4.32	8.05	- 3.73	Jul (2014)	0.33	0.72	- 0.39	
Feb (2014)	5.68	5.83	- 0.15	Aug (2014)	2.18	1.13	1.05	
Mar (2014)	6.30	5.07	1.23	Sep (2014)	2.61	2.54	0.07	
WY 2014 Total (in)		Average (in)	WY 2014 Departure from 15 yr. Ave (in)	Comments				
39.36"		51.21	-11.85	Well below long-term average WY				
Wettest Day		5/3/14	1.30 "					

Red values indicate below average monthly rainfall

Blue values indicate above average monthly rainfall

Illustrated in the table is the continuing trend of below average fall and winter months with above average spring rainfall that has occurred since 2010. There have been notable variations in winter and summer precipitation in the past five years. Notably in 2012 and 2013, Western Washington experienced two summers with months of zero rainfall (2013 September had 0.0 in; 2014 August had 0.0 in). There have never been any months recorded in Olympia with zero rainfall until 2013 when it occurred back to back. Also during the summer months of 2012 and 2013, Western Washington experienced more lightning strikes in two summers than we have experienced in over the previous fifty years.

At the end of the 2014 Water Year, the trend is holding in that Thurston County is getting drier in the winter and wetter in the spring with very dry mid to late summers. We have not experienced record-setting daily deluges since 2009. These were very typical in November through January but have slowed dramatically in frequency over the past five years.

The pattern of precipitation that has emerged since 2009 is one of a more dispersed temporal pattern where approximately the same amount of precipitation falls, but it is spread more evenly throughout the wet season. The summer season remains dry to very dry and has consistently put Western Washington into one of the driest regions in the U.S. from mid-June through mid-September. In the summer months of 2014 between June and October, our area received five inches of rain. Most areas of the County receive the majority of their precipitation during these months. The Courthouse data was selected because of its central location in the County. The amount of rainfall in Thurston County varies widely from an average of 35 inches in Yelm in the eastern County to Summit Lake in the far west portion of the County coming in at an average of 70 inches. This is the typical spread of averages over the 25 mile separation between the

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driest and wettest sites in Thurston County. This dramatic range of precipitation distribution of the average annual rainfall is unique in western Washington.

Groundwater - WY 2014

There are currently ten groundwater wells in the Salmon Creek Basin south of Tumwater that have been monitored for water levels for over 12 years. The wells are distributed over an area of 13 square miles and have an average depth of approximately 25 feet. All of the wells are terminated in a glacial till layer that underlies the entire Salmon Creek Basin. The till essentially shunts vertical infiltration of groundwater into a horizontal vector with recharge below the till layer occurring outside the basin margins.

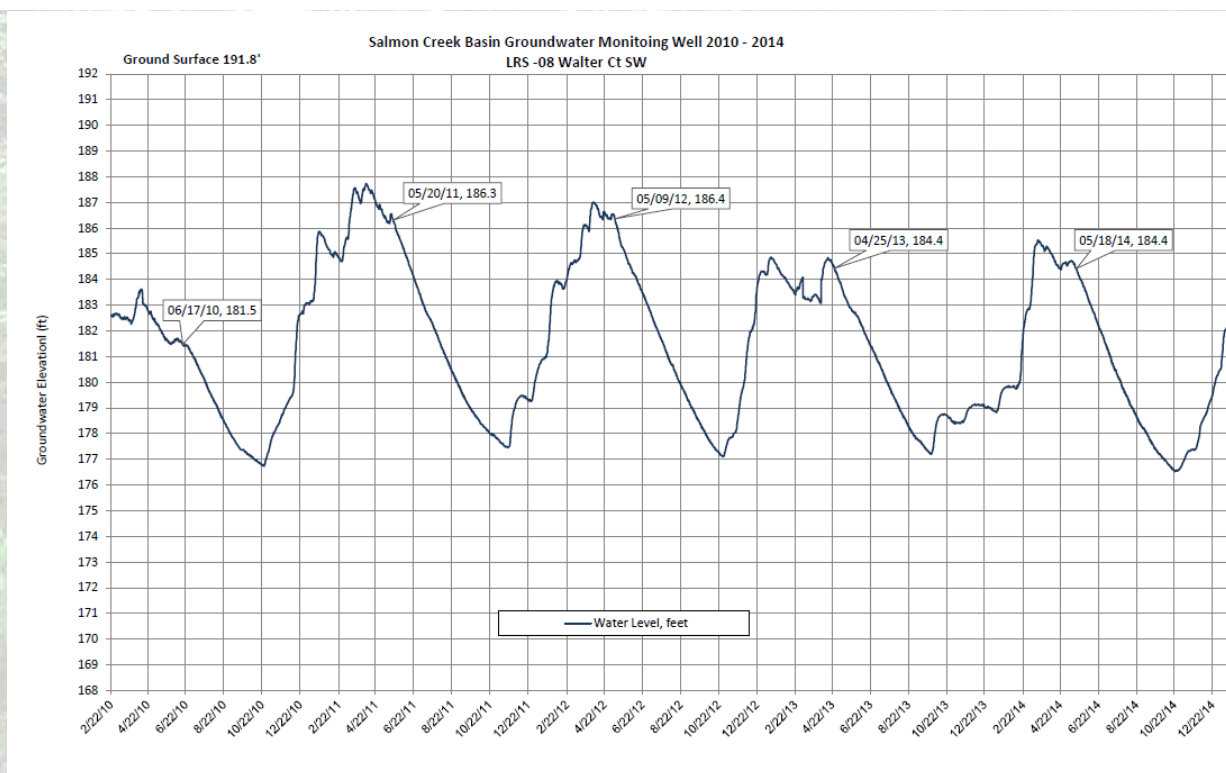
Originally, there were five wells installed in 1999 and 2000 during a season of severe and damaging groundwater flooding that occurred in this basin after a prolonged winter of much above average rainfall. Between 2000 and 2008, there were an additional five wells installed to more fully cover the area of the basin and to provide a simple way to indicate potential groundwater flooding problems.

Eight of the wells are equipped with groundwater sensing dataloggers that record groundwater levels in each well twice per day. The remaining wells are measured manually with a buzzer-alarmed tape down instrument to indicate depth and presence of groundwater in the well. The frequency of data collection provides staff with a consistent view of the underlying groundwater elevation and is used for determining the depth of water and is the primary indicator of groundwater flooding potential in the Salmon Creek Basin. The manual wells are measured each time the automated well data is collected via laptop.

These wells provide the most complete history of changes in groundwater over this entire period of record. It is difficult to gauge groundwater behavior over one single water year period and make meaningful observations with relation to changes in the condition of the groundwater system. The discussion in this report takes into consideration a historical record compared to what was observed in the 2014 Water Year.

With the temporal distribution of rainfall being stretched out over the fall, winter, and early spring and muted peak events, the groundwater response has also been stretched and the natural drawdown curves have flattened since 2009 into 2014. The groundwater peak routinely occurred the second week in March up through 2009 -2010 but by 2014 the annual high groundwater levels had shifted into April and May as seen in the plot of LRS-08 below. LRS-08 is located in the mid portion of the Salmon Creek Basin. A chart showing ten years of data is located in Appendix B.

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Automated GW well LRS-08 Mid Basin indicator well with natural drawdown level and date showing when the groundwater begins to recede after each wet season. Prior to 2009, the natural drawdown level was in March but has since shifted to May beginning in 2010. This is a trend that was not seen in this well since monitoring began in 1999. This pattern is also seen in the other nine wells in the Salmon Creek Basin.

Groundwater base levels have risen slightly over the past several years. This means that the when the water levels recede for the summer months they are not going down to the elevations they were the previous year. In 2014, the base levels for many of the wells were up by one foot or more since 2010. The change here is that we have not seen single day rainfall events above three and a half inches since 2012, and the groundwater generally approaches the surface in some areas during these events. Since there were none in 2014, the peak high in the observed groundwater level did not approach the surface and remains at, or even below, the average winter high water level.

Although the groundwater is generally higher universally in 2014, it is typically only higher in the base, or capacitive level. This means that the peak groundwater is not any higher than in most years but the groundwater level present in the system does not recede to the level it was in the previous year.

This seems to be causing most of the problems because the capacity of the saturation zone is lower and any new water backs up the system and adds to the overall groundwater volume. This is why in 2014 there were very few reports of surface flooding caused by groundwater. In 2014 there were only two reports that required field investigations of high groundwater in the Scott Lake area and one report in the Hidden Forest neighborhood Southeast of Lacey. Both of these sites are highly prone to flooding even during minor rainfall events and were reported by new residents. The surface flooding generally resolves within a day as it did again this time.

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Lakes

There are currently three lakes that the Environmental Monitoring Program monitors on a regular basis. They are Lake St. Clair, Long Lake in eastern Thurston County and Black Lake in western Thurston County. These lakes were equipped with automated level monitoring devices in 2013 to monitor lake surface elevations. All three lakes are populated and have extensive recreational use during the spring and summer months. In addition, the winter high water levels can cause some minor flooding and beach erosion along the shorelines of these lakes.

The biggest mystery to most people is the ever rising level of our local Lakes. Lakes are the windows to the groundwater and represent what is happening below the surface. They also represent a location where geology is different than the surrounding area, and they are the focal point of subsurface and surface water regimes. They are the nexus between many factors actively bringing groundwater to the surface. Most lakes are adept at handling increased groundwater loads by increasing their surface water output. For many lakes in Thurston County this is a balance that is kept in check fairly well. When this balance between inflow and outflow is not kept because there either is no surface water outlet or the geology prevents outflow or assists increased inflow, then the accumulation of groundwater has a compounding effect.

This is profoundly affecting Lake St. Clair east of Lacey. The data suggests that the compounding effect of higher base elevation groundwater is raising the overall level of Lake St. Clair. In 2014, the lake reached a level higher than it has in the past 25 years. This elevated surface elevation directly affects the date that boating at speeds above five miles per hour is allowed to reduce wake erosion along the shore. In 2014 the lake did not go below the action level elevation (69.5 feet) until July 30. In 2013 it went below the action level on July 22, and in 2012 it fell below 69.5 on July 7. In comparison, Lake St. Clair rarely went above 69.5 in the past 25 years meaning the lake elevation did not even exceed the action level for most of the period of record, and there were no boating restrictions at all. Only during the time period between 1997 and 2002 did it exceed the action level with some frequency in the winter. During that time, all areas of Thurston County were experiencing historic flooding and well above average rainfall. Within the past five years the opposite is true; the lake surface elevation only dropped below 69.5 feet for a few months in the driest parts of summer for the past four years. This is a profound change in the groundwater patterns, and there are likely many factors at play here. Regardless, Lake St. Clair has seen the highest recorded elevations since 1988, and the trend is continuing into 2015. Lake St. Clair has no surface drainage and is predominantly groundwater filled from a very large aquifer coving about fifty square miles of northeast Thurston County. Appendix C contains a data chart of Lake St. Clair between 1988 and 2015.

Although Lake St. Clair is the clearest example of what is occurring underground, it is not the only lake with high surface elevation. In fact, lake levels in almost every lake in the County are higher than usual. In 2014, the County received several reports of high water concerns from Long Lake, Ward Lake, and Scott Lake. These lakes are also reacting to the high baseline groundwater prevalent over the past several years. The difference is that most lakes have surface outlets that are able to somewhat compensate for the increase in groundwater influx. Most other lakes also have a steeper shore gradient so homes are not vertically situated near flood elevations and are much less prone to damage than those around Lake St. Clair.

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Streamflow WY 2014

The County has installed and maintains a total of eleven streamflow stations and provides funding for two additional monitoring locations serviced by the USGS on the Deschutes River and the Skookumchuck River. Most of these monitoring locations were established in the late 1980s or early 1990s. Three stations were installed after 2000.

Water Year 2014 did not produce any exceptional streamflow or river flooding events. The streams in Thurston County are generally driven by surface runoff that augments the base flow constituent that combine together to generate the net flow. The Nisqually River is the only river in Thurston County that has any consistent or significant snowmelt constituent to its flow volume. Every other river, stream, or small creek is fed by a combination of base flow from groundwater and a surface runoff component. These two components determine the quantity of flow in our local streams. This flow quantity (Q) then drives the channel morphology process in changing the configuration of stream channels and distribution (deposition or scouring of material) of upstream sediments.

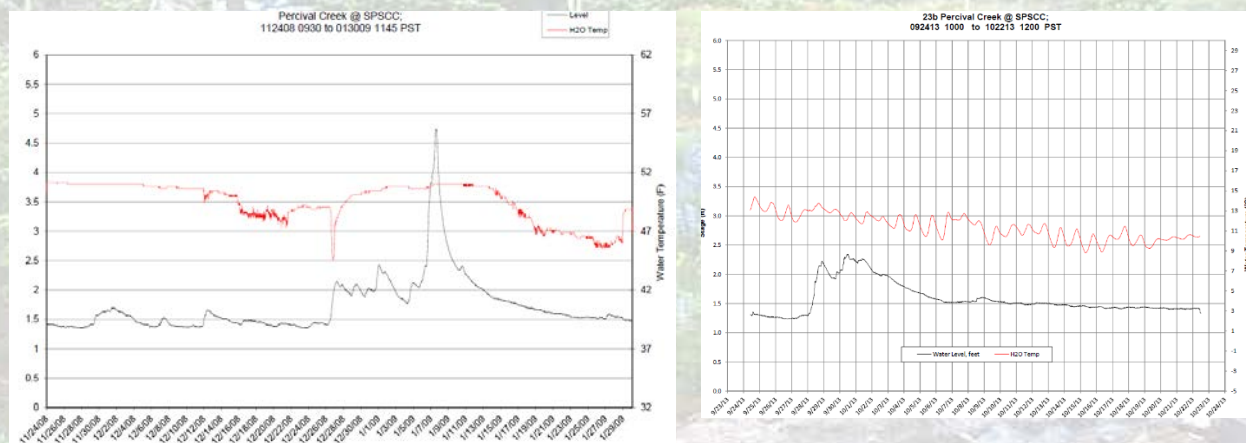
Since the last large precipitation events in 2007 and 2009, there have not been any flows in our local rivers and stream that have resulted in major channel migration or deposition. The flows have not been of sufficient quantity to deposit upland materials within the low energy regions of the lower reaches for many years now. The local streams have been slowly eroding the material deposited during the flooding events in 2007 and 2009. The rainfall events in these years deposited huge amounts of sand, gravel, and woody debris in all of our local streams and rivers and resulted in some of the worst flooding in over 100 years. Materials from fresh landslides were incorporated into the streams, and in some creeks such as McLane Creek over six feet of sediment was deposited below Swift Creek near the Delphi Road gauging station.

During Water Year 2014, one sustained event occurred in the very first week of the water year (October 2013) that elevated all the streams and rivers in Thurston County. It also drove groundwater up to seasonal highs because of the sustained nature and amount of precipitation. The event was responsible for over ten inches of precipitation falling within one week (between September 29 and October 3 2013). This type of event was not typical of our local rainfall pattern and represents the single largest rainfall event of the 2014 water year.

The duration of the event is the interesting part of the story with the amount being of secondary importance. Although there was a record amount of monthly rain, it occurred over a one week period at the end of a very dry summer season. The response to the event was a muted but measureable increase in groundwater and associated streamflows. An example of the two events is provided in the appendix and is used to illustrate the changing nature of the hydrologic cycle. It is of course one example of change in a very short period of record but it is a “sustained anomaly” that has been illustrated over the past several years and clearly has an effect on the local hydrologic cycle.

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Difference between the last Percival Creek flooding period in 2009 compared with the 2014 Water Year



The example above is a typical spectral response between a discrete precipitation “Pineapple Express” and the current cycle of precipitation that demonstrates more of a bell distribution curve. The WY 2014 event actually consisted of a higher amount of rainfall but stretched over a one week period. The difference is a clearly defined and dramatic change in the streamflow response to the two events. The WY 2014 event is the current pattern that shows up in every watershed; in the groundwater and lake levels as well.

Nowhere is the direct response to our different rainfall pattern more apparent than in the local streamflow. The reason being that the streams are a visible and immediate expression of the response to a rainfall event. These events demonstrate in real time the effect rainfall has on the surface waters of our County and hints at what occurs below the surface as well. In the groundwater section of this report this same pattern is described but in the streamflow record it is straight from the cloud to the stream with very little lag time or buffering.

Conclusion

Water Year 2014 continued to show the trend in a changing precipitation pattern that began in WY 2010. It has been characterized by a broadly distributed precipitation pattern over a period of six months with no large discrete events typical of the past twenty five years. This means that none of the typical flooding events triggered by four inch + rainfall described as Atmospheric Rivers (Romero and Biever et al.) or Pineapple Expresses have occurred since 2009. The rainfall pattern has evolved into this wider distribution pattern, but the same average amount of rainfall is still falling. Since the rainfall is the driving factor for all other hydrologically connected systems in Thurston County, this is affecting the groundwater, lake levels, and streamflow in some dramatic ways.

The examples presented in the text of this report as well as the graphic presentation of the WY 2014 data in the Appendices summarize the findings. It remains to be seen if this weather pattern is simply a simple decadal anomaly in a normal climate pattern or if it is indicative of a broader indication of global and regional climate change. One thing for certain is that whatever the current pattern is, there is an observable change in all the hydrologic systems that we monitor in Thurston County has occurred over the past five to seven years. Lake St. Clair is probably the most dramatic example of the ongoing changes happening above our heads and below our feet. WY 2014 into 2015 have seen the highest lake levels in recorded history in the lake causing hardship along its shores from winter into the summer months. The history of lake levels is presented in the Appendix C and is a clear indication of the current elevated condition.

Appendix A - Precipitation



05u--Yelm WRF_Rain

Water Year: 2014

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
01	0.51	0.10	0.71	0.01	0.03	0.01	0.00	0.00	0.00	0.00	0.00	0.00
02	0.40	0.52	0.07	0.11	0.01	0.48	0.00	0.00	0.00	0.00	0.00	0.00
03	0.00	0.00	0.00	0.00	0.00	0.69	0.06	0.00	0.00	0.00	0.00	0.00
04	0.01	0.04	0.00	0.00	0.00	0.18	0.08	0.01	0.00	0.00	0.00	0.00
05	0.00	0.06	0.00	0.00	0.00	0.91	0.13	0.53	0.00	0.00	0.00	0.00
06	0.07	0.17	0.00	0.17	0.00	0.14	0.03	0.10	0.00	0.00	0.00	0.00
07	0.13	0.72	0.00	0.36	0.05	0.01	0.00	0.00	0.00	0.00	0.00	0.00
08	0.17	0.00	0.00	0.34	0.00	0.79	0.16	0.51	0.00	0.00	0.00	0.00
09	0.00	0.04	0.00	0.41	0.36	0.57	0.00	1.04	0.00	0.00	0.00	0.00
10	0.07	0.00	0.03	0.23	0.32	0.49	0.00	0.21	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	1.04	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	0.12	0.07	0.16	0.18	0.17	0.00	0.00	0.00	0.36	0.00	0.31	0.00
13	0.00	0.02	0.01	0.03	0.03	0.02	0.00	0.00	0.15	0.00	0.34	0.00
14	0.00	0.00	0.00	0.00	0.26	0.28	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.30	0.01	0.00	0.46	0.11	0.00	0.00	0.00	0.00	0.10	0.00
16	0.00	0.06	0.00	0.01	1.11	0.90	0.08	0.00	0.48	0.00	0.00	0.00
17	0.00	0.62	0.00	0.01	1.35	0.00	0.64	0.00	0.00	0.00	0.00	0.04
18	0.01	0.32	0.02	0.00	0.74	0.01	0.00	0.42	0.00	0.00	0.00	0.00
19	0.01	0.19	0.00	0.00	0.22	0.15	0.38	0.00	0.01	0.00	0.00	0.00
20	0.01	0.00	0.05	0.00	0.33	0.01	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.08	0.01	0.04	0.00	0.22	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.03	0.00	0.01	0.00	0.50	0.00	0.00	0.05	0.00	0.01
23	0.01	0.00	0.13	0.00	0.19	0.00	0.48	0.11	0.02	0.52	0.00	0.64
24	0.02	0.01	0.00	0.01	0.48	0.00	0.36	0.00	0.00	0.00	0.00	0.52
25	0.01	0.00	0.00	0.01	0.00	0.08	0.09	0.46	0.00	0.00	0.00	0.05
26	0.00	0.00	0.00	0.00	0.01	0.27	0.08	0.03	0.14	0.00	0.00	0.32
27	0.07	0.00	0.01	0.01	0.00	0.16	0.43	0.00	0.14	0.00	0.00	0.01
28	0.00	0.00	0.00	0.39	0.00	0.25	0.00	0.01	0.10	0.00	0.00	0.00
29	0.00	0.00	0.00	0.51		0.73	0.00	0.00	0.05	0.00	0.00	0.03
30	0.00	0.10	0.00	0.23		0.37	0.00	0.00	0.00	0.00	0.22	0.00
31	0.12		0.08	0.14		0.01		0.00		0.00	0.00	
Total	1.74	3.34	1.39	4.21	6.51	7.62	3.72	3.43	1.45	0.57	0.97	1.62

Total Rainfall for Water Year 2014: 36.57

Notes:

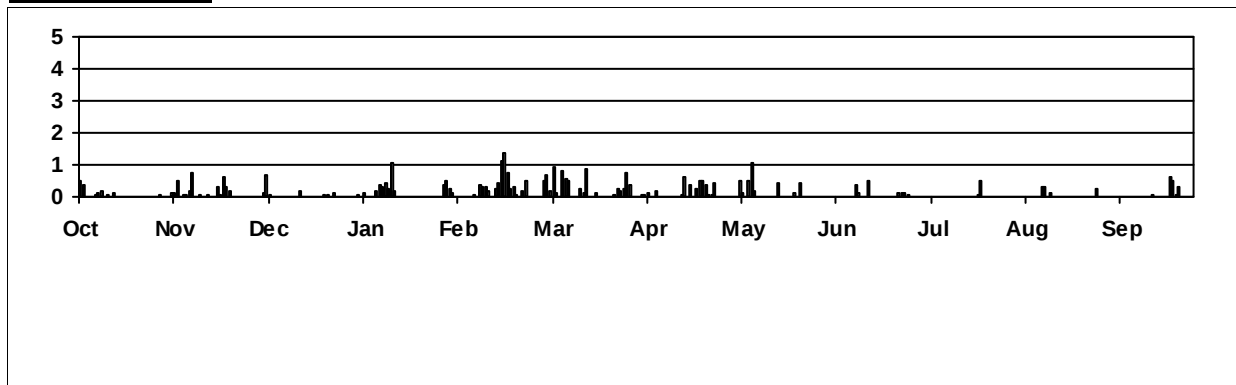
Precipitation is measured with a tipping bucket rain gauge. Ice and snow accumulations in the rain gauge are not measured until they melt.

Precipitation from snow is not measured accurately

Thurston County Water Resources Unit

Visit our website at

Annual Hyetograph:



10u--Meridian Rd_Rain

Water Year: 2014

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
01	0.71	0.09	0.67	0.01	0.02	0.02	0.05	0.00	0.00	0.00	0.00	0.00
02	0.46	0.41	0.06	0.11	0.00	0.51	0.00	0.00	0.00	0.00	0.00	0.00
03	0.01	0.00	0.00	0.01	0.00	0.52	0.16	0.84	0.00	0.00	0.00	0.00
04	0.00	0.08	0.01	0.00	0.00	0.22	0.10	0.34	0.00	0.00	0.00	0.00
05	0.00	0.05	0.00	0.00	0.00	1.38	0.19	0.09	0.00	0.00	0.00	0.00
06	0.07	0.17	0.00	0.13	0.00	0.50	0.00	0.00	0.00	0.00	0.00	0.00
07	0.13	0.74	0.00	0.34	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00
08	0.10	0.01	0.00	0.33	0.00	1.12	0.20	0.42	0.00	0.00	0.00	0.00
09	0.00	0.05	0.00	0.32	0.27	0.55	0.00	0.50	0.00	0.00	0.00	0.00
10	0.04	0.00	0.01	0.40	0.32	0.17	0.00	0.01	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	1.17	0.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	0.14	0.07	0.17	0.25	0.19	0.00	0.00	0.00	0.34	0.00	0.54	0.00
13	0.00	0.03	0.01	0.04	0.09	0.03	0.00	0.00	0.11	0.00	1.39	0.00
14	0.00	0.00	0.00	0.00	0.23	0.34	0.00	0.00	0.00	0.00	0.02	0.00
15	0.01	0.36	0.00	0.00	0.52	0.18	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.08	0.01	0.00	1.47	0.78	0.04	0.00	0.32	0.00	0.00	0.01
17	0.00	0.74	0.00	0.00	1.31	0.00	0.50	0.00	0.01	0.00	0.00	0.09
18	0.00	0.70	0.00	0.00	0.71	0.01	0.00	0.44	0.00	0.00	0.00	0.00
19	0.01	0.30	0.01	0.00	0.18	0.12	0.25	0.00	0.03	0.00	0.00	0.00
20	0.00	0.00	0.06	0.00	0.26	0.00	0.01	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.09	0.00	0.02	0.00	0.19	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.04	0.00	0.00	0.00	0.40	0.00	0.00	0.01	0.00	0.03
23	0.01	0.01	0.18	0.00	0.19	0.00	0.42	0.17	0.03	0.53	0.00	0.83
24	0.02	0.00	0.00	0.00	0.59	0.00	0.42	0.00	0.00	0.00	0.00	0.95
25	0.00	0.01	0.00	0.01	0.01	0.12	0.00	0.26	0.00	0.00	0.00	0.06
26	0.00	0.00	0.00	0.00	0.00	0.15	0.15	0.02	0.07	0.00	0.00	0.38
27	0.00	0.00	0.00	0.02	0.00	0.24	0.20	0.00	0.21	0.00	0.00	0.00
28	0.00	0.01	0.00	0.40	0.00	0.31	0.00	0.20	0.08	0.00	0.00	0.00
29	0.00	0.00	0.00	0.38		1.08	0.00	0.00	0.02	0.00	0.01	0.05
30	0.01	0.10	0.00	0.13		0.11	0.00	0.00	0.00	0.00	0.43	0.00
31	0.04		0.06	0.07		0.00		0.00		0.00	0.00	
Total	1.76	4.01	1.38	4.12	6.89	8.47	3.28	3.29	1.22	0.54	2.39	2.40

Total Rainfall for Water Year 2014: 39.75

Notes:

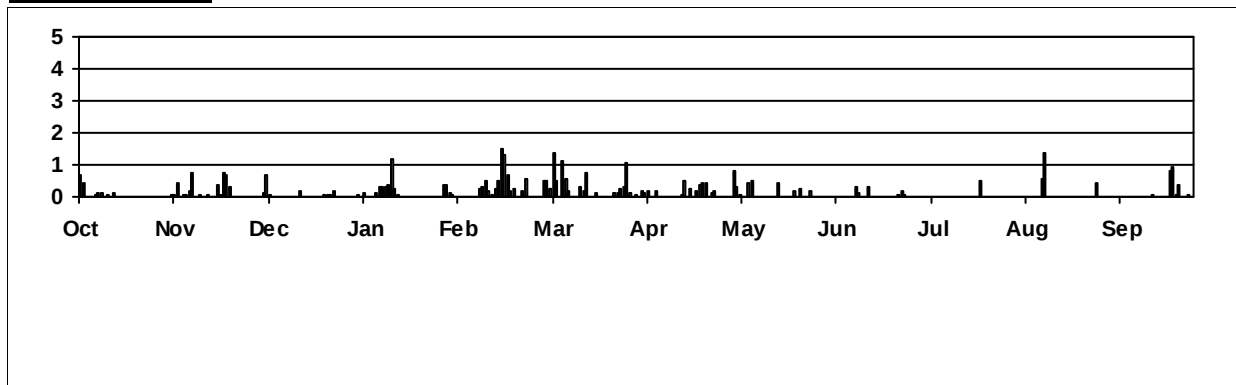
Precipitation is measured with a tipping bucket rain gauge. Ice and snow accumulations in the rain gauge are not measured until they melt.

Precipitation from snow is not measured accurately

Thurston County Water Resources Unit

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Annual Hyetograph:



11u--NOAA Olympia Airport

Water Year: 2014

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
01	0.88	0.03	0.93	0.01	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00
02	0.79	0.53	0.07	0.16	0.00	0.55	0.00	0.00	0.00	0.00	0.00	0.00
03	0.00	0.00	0.00	0.00	0.00	0.57	0.22	0.79	0.00	0.00	0.00	0.00
04	0.00	0.12	0.00	0.00	0.00	0.34	0.10	0.67	0.00	0.00	0.00	0.00
05	0.00	0.16	0.00	0.00	0.00	1.62	0.31	0.16	0.00	0.00	0.00	0.00
06	0.00	0.28	0.01	0.11	0.01	0.69	0.01	0.00	0.00	0.00	0.00	0.00
07	0.15	0.83	0.00	0.35	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00
08	0.09	0.01	0.00	0.38	0.31	1.74	0.17	0.52	0.00	0.00	0.00	0.00
09	0.00	0.04	0.00	0.30	0.11	0.38	0.00	0.31	0.00	0.00	0.00	0.00
10	0.04	0.00	0.01	0.61	0.44	0.09	0.00	0.05	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	1.09	0.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	0.10	0.18	0.29	0.43	0.35	0.00	0.00	0.00	0.26	0.00	0.26	0.00
13	0.00	0.05	0.05	0.16	0.10	0.04	0.00	0.00	0.05	0.00	0.59	0.00
14	0.00	0.00	0.00	0.00	0.41	0.51	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.59	0.09	0.00	0.71	0.20	0.01	0.00	0.00	0.00	0.00	0.00
16	0.00	0.03	0.00	0.00	1.12	0.57	0.13	0.00	0.03	0.00	0.00	0.01
17	0.00	0.48	0.00	0.00	1.42	0.00	0.62	0.00	0.00	0.00	0.00	0.10
18	0.00	0.79	0.03	0.00	0.77	0.00	0.00	0.25	0.00	0.00	0.00	0.02
19	0.00	0.39	0.00	0.00	0.22	0.14	0.43	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.18	0.00	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.05	0.00	0.03	0.00	0.14	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.04	0.00	0.00	0.00	0.24	0.00	0.00	0.00	0.00	0.02
23	0.00	0.00	0.30	0.00	0.19	0.01	0.70	0.19	0.03	0.27	0.00	0.88
24	0.00	0.00	0.00	0.00	0.80	0.00	0.48	0.00	0.00	0.00	0.00	0.70
25	0.00	0.00	0.00	0.00	0.00	0.11	0.02	0.27	0.00	0.00	0.00	0.20
26	0.00	0.00	0.00	0.00	0.00	0.22	0.27	0.04	0.00	0.00	0.00	1.06
27	0.00	0.00	0.00	0.12	0.00	0.12	0.41	0.00	0.39	0.00	0.00	0.00
28	0.00	0.00	0.00	0.36	0.00	0.39	0.00	0.09	0.12	0.00	0.00	0.00
29	0.00	0.00	0.00	0.62		0.74	0.00	0.00	0.00	0.00	0.01	0.08
30	0.00	0.12	0.00	0.12		0.13	0.00	0.00	0.00	0.00	0.59	0.00
31	0.00		0.03	0.07		0.00		0.00		0.00	0.00	
Total	2.05	4.63	2.08	4.89	8.33	9.17	4.26	3.34	0.88	0.27	1.45	3.07

Total Rainfall for Water Year 2014: 44.42

Notes:

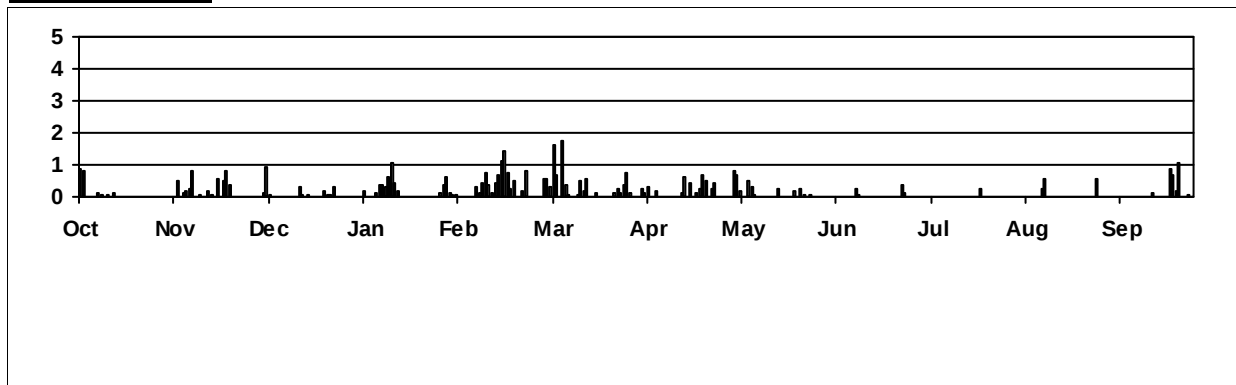
Precipitation is measured with a tipping bucket rain gauge. Ice and snow accumulations in the rain gauge are not measured until they melt.

Precipitation from snow is not measured accurately

Thurston County Water Resources Unit

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Annual Hyetograph:



11w--Rainier Transfer Station

Water Year: 2014

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
01	0.78	0.14	0.90	0.01	0.02	0.01	0.00	0.00	0.00	0.00	0.01	0.00
02	0.40	0.56	0.06	0.15	0.00	0.51	0.00	0.00	0.00	0.00	0.00	0.01
03	0.01	0.00	0.01	0.00	0.00	0.82	0.19	0.65	0.00	0.00	0.00	0.00
04	0.00	0.08	0.00	0.01	0.00	0.22	0.11	0.42	0.00	0.00	0.00	0.00
05	0.00	0.06	0.00	0.00	0.00	1.31	0.22	0.06	0.00	0.00	0.00	0.00
06	0.13	0.32	0.00	0.21	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00
07	0.16	1.05	0.00	0.41	0.07	0.02	0.00	0.00	0.00	0.00	0.00	0.00
08	0.38	0.00	0.00	0.61	0.00	1.26	0.17	0.56	0.00	0.00	0.00	0.00
09	0.00	0.04	0.00	0.30	0.38	0.59	0.00	1.36	0.00	0.00	0.00	0.00
10	0.02	0.01	0.07	0.33	0.40	0.31	0.00	0.29	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	1.49	0.49	0.00	0.00	0.01	0.00	0.00	0.00	0.00
12	0.17	0.10	0.18	0.30	0.27	0.00	0.00	0.00	0.76	0.00	0.32	0.00
13	0.00	0.02	0.00	0.04	0.16	0.03	0.00	0.00	0.17	0.00	0.69	0.00
14	0.00	0.00	0.00	0.00	0.40	0.40	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.40	0.00	0.00	0.66	0.18	0.01	0.00	0.03	0.00	0.11	0.00
16	0.00	0.09	0.00	0.00	1.44	1.11	0.05	0.00	0.15	0.00	0.00	0.00
17	0.00	0.87	0.00	0.01	1.40	0.00	0.79	0.00	0.03	0.00	0.00	0.09
18	0.00	0.68	0.02	0.00	0.98	0.02	0.00	0.42	0.00	0.00	0.00	0.01
19	0.01	0.42	0.00	0.00	0.42	0.12	0.51	0.00	0.03	0.00	0.00	0.00
20	0.01	0.00	0.07	0.01	0.57	0.03	0.00	0.00	0.00	0.00	0.00	0.00
21	0.01	0.00	0.11	0.00	0.06	0.00	0.26	0.00	0.00	0.00	0.00	0.00
22	0.01	0.00	0.04	0.00	0.00	0.00	0.67	0.00	0.00	0.02	0.00	0.02
23	0.00	0.00	0.27	0.00	0.21	0.01	0.64	0.15	0.04	0.39	0.00	0.79
24	0.01	0.01	0.00	0.00	0.60	0.00	0.48	0.00	0.00	0.00	0.00	0.62
25	0.01	0.00	0.00	0.00	0.00	0.14	0.00	0.51	0.00	0.00	0.00	0.10
26	0.00	0.01	0.00	0.00	0.00	0.25	0.19	0.06	0.08	0.00	0.00	0.59
27	0.07	0.00	0.00	0.02	0.00	0.45	0.29	0.00	0.23	0.00	0.00	0.00
28	0.00	0.00	0.00	0.42	0.00	0.35	0.04	0.11	0.39	0.00	0.00	0.00
29	0.00	0.00	0.00	0.40		1.16	0.00	0.01	0.02	0.00	0.00	0.02
30	0.03	0.12	0.00	0.26		0.40	0.00	0.00	0.00	0.00	0.20	0.00
31	0.02		0.13	0.14		0.00		0.00		0.00	0.00	
Total	2.23	4.98	1.86	5.12	8.53	10.12	4.64	4.61	1.93	0.41	1.33	2.25

Total Rainfall for Water Year 2014: 48.01

Notes:

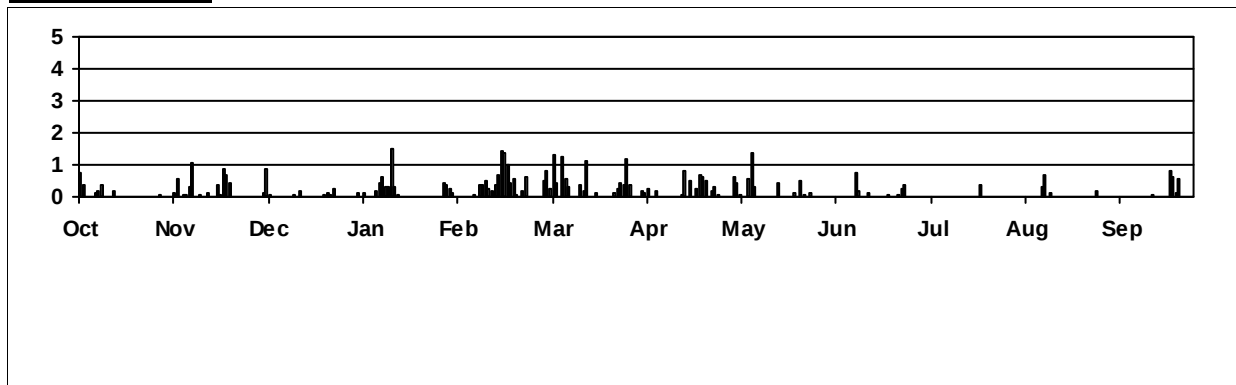
Precipitation is measured with a tipping bucket rain gauge. Ice and snow accumulations in the rain gauge are not measured until they melt.

Precipitation from snow is not measured accurately

Thurston County Water Resources Unit

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Annual Hyetograph:



13u--Lake Lawrence_Rain

Water Year: 2014

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
01	0.30	0.11	1.05	0.01	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
02	0.41	0.56	0.08	0.14	0.01	0.33	0.00	0.00	0.00	0.00	0.00	0.01
03	0.00	0.00	0.01	0.00	0.00	0.73	0.07	0.30	0.00	0.00	0.00	0.00
04	0.01	0.05	0.00	0.00	0.01	0.18	0.12	0.13	0.00	0.00	0.00	0.00
05	0.00	0.02	0.00	0.01	0.00	1.68	0.24	0.02	0.00	0.00	0.00	0.00
06	0.09	0.19	0.01	0.11	0.00	0.32	0.02	0.00	0.00	0.00	0.00	0.00
07	0.12	1.11	0.00	0.32	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00
08	0.22	0.00	0.00	0.43	0.00	0.87	0.19	0.48	0.00	0.00	0.00	0.00
09	0.00	0.03	0.00	0.25	0.33	0.74	0.00	0.47	0.00	0.00	0.00	0.00
10	0.03	0.01	0.01	0.32	0.22	0.23	0.00	0.07	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	1.19	0.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	0.13	0.04	0.11	0.27	0.32	0.00	0.00	0.00	0.30	0.00	0.30	0.00
13	0.00	0.01	0.00	0.04	0.02	0.04	0.00	0.00	0.16	0.00	0.46	0.00
14	0.00	0.00	0.00	0.00	0.39	0.34	0.00	0.00	0.00	0.00	0.01	0.00
15	0.00	0.37	0.00	0.00	0.55	0.14	0.00	0.00	0.10	0.00	0.21	0.00
16	0.00	0.03	0.00	0.00	1.07	1.15	0.02	0.00	0.08	0.00	0.00	0.00
17	0.00	0.34	0.00	0.00	1.42	0.01	0.60	0.00	0.00	0.00	0.00	0.03
18	0.00	0.33	0.03	0.00	0.88	0.00	0.00	0.35	0.00	0.00	0.00	0.00
19	0.01	0.31	0.01	0.00	0.25	0.14	0.39	0.00	0.02	0.00	0.00	0.00
20	0.00	0.00	0.03	0.00	0.43	0.01	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.01	0.06	0.01	0.02	0.00	0.18	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.05	0.01	0.01	0.00	0.42	0.00	0.00	0.06	0.00	0.00
23	0.01	0.00	0.19	0.00	0.13	0.01	0.38	0.10	0.03	0.57	0.00	0.46
24	0.00	0.00	0.00	0.01	0.30	0.00	0.36	0.00	0.00	0.00	0.00	0.52
25	0.01	0.01	0.00	0.00	0.00	0.19	0.10	0.52	0.00	0.00	0.00	0.08
26	0.00	0.00	0.00	0.00	0.01	0.04	0.11	0.08	0.05	0.00	0.00	0.18
27	0.07	0.00	0.01	0.01	0.00	0.07	0.27	0.00	0.12	0.00	0.00	0.00
28	0.00	0.00	0.00	0.34	0.00	0.11	0.02	0.12	0.15	0.00	0.00	0.00
29	0.00	0.00	0.00	0.51		0.82	0.00	0.02	0.01	0.00	0.00	0.00
30	0.01	0.12	0.00	0.13		0.15	0.00	0.00	0.00	0.00	0.18	0.00
31	0.06		0.07	0.17		0.01		0.00		0.00	0.00	
Total	1.48	3.65	1.72	4.28	6.79	8.31	3.49	2.66	1.02	0.63	1.16	1.28

Total Rainfall for Water Year 2014: 36.47

Notes:

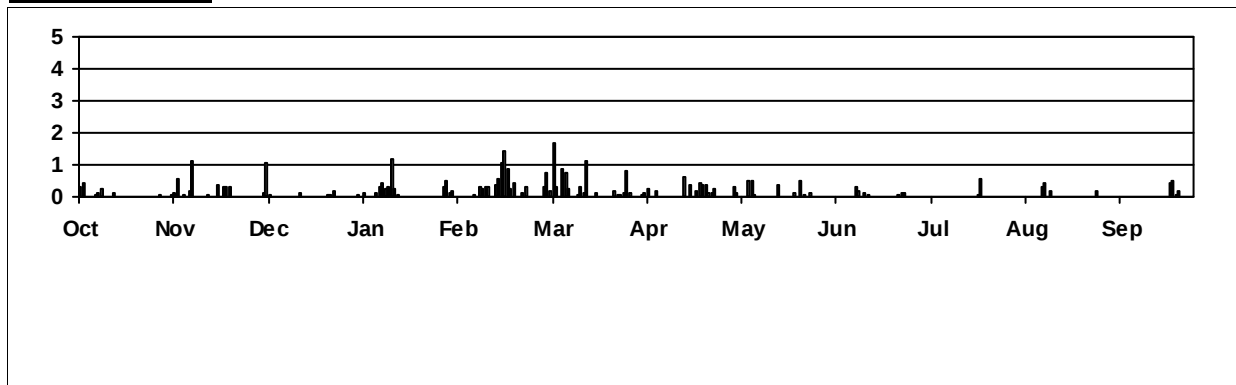
Precipitation is measured with a tipping bucket rain gauge. Ice and snow accumulations in the rain gauge are not measured until they melt.

Precipitation from snow is not measured accurately

Thurston County Water Resources Unit

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Annual Hyetograph:



18u--Lacey Fire Dist. 3 Fire Station_Rain

Water Year: 2014

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
01	0.62	0.08	0.59	0.01	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00
02	0.45	0.38	0.02	0.14	0.00	0.54	0.00	0.00	0.00	0.00	0.00	0.01
03	0.00	0.06	0.00	0.00	0.00	0.65	0.22	0.74	0.00	0.00	0.00	0.00
04	0.01	0.08	0.00	0.00	0.00	0.44	0.06	0.60	0.00	0.00	0.00	0.00
05	0.00	0.06	0.00	0.00	0.00	1.63	0.31	0.04	0.00	0.00	0.00	0.00
06	0.03	0.25	0.00	0.18	0.00	0.61	0.00	0.00	0.00	0.00	0.00	0.00
07	0.15	0.88	0.00	0.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
08	0.07	0.00	0.00	0.35	0.00	1.45	0.16	0.51	0.00	0.00	0.00	0.00
09	0.00	0.05	0.00	0.50	0.37	0.33	0.00	0.29	0.00	0.00	0.00	0.00
10	0.03	0.00	0.02	0.41	0.38	0.07	0.00	0.03	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	1.18	0.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	0.11	0.13	0.20	0.21	0.38	0.00	0.00	0.00	0.22	0.00	0.38	0.00
13	0.00	0.04	0.01	0.11	0.09	0.03	0.00	0.00	0.10	0.00	1.14	0.00
14	0.00	0.00	0.00	0.00	0.40	0.42	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.23	0.03	0.00	0.68	0.16	0.00	0.00	0.00	0.00	0.01	0.00
16	0.01	0.00	0.00	0.00	1.36	0.54	0.07	0.00	0.00	0.00	0.00	0.00
17	0.00	0.48	0.00	0.00	1.32	0.00	0.61	0.00	0.00	0.00	0.00	0.16
18	0.00	0.84	0.01	0.00	0.85	0.01	0.00	0.09	0.00	0.00	0.00	0.00
19	0.02	0.19	0.00	0.00	0.41	0.17	0.35	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.14	0.00	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.07	0.00	0.01	0.00	0.21	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.04	0.01	0.00	0.00	0.45	0.00	0.00	0.00	0.00	0.01
23	0.01	0.00	0.24	0.00	0.22	0.00	0.55	0.22	0.04	0.31	0.00	0.95
24	0.00	0.01	0.00	0.00	0.73	0.00	0.44	0.00	0.00	0.00	0.00	0.65
25	0.00	0.00	0.00	0.00	0.00	0.12	0.07	0.31	0.00	0.00	0.00	0.16
26	0.00	0.00	0.00	0.01	0.00	0.14	0.23	0.02	0.03	0.00	0.00	0.51
27	0.01	0.00	0.00	0.01	0.00	0.07	0.42	0.01	0.27	0.00	0.00	0.00
28	0.00	0.00	0.00	0.45	0.00	0.37	0.03	0.01	0.15	0.00	0.00	0.00
29	0.00	0.00	0.00	0.47		0.69	0.00	0.00	0.00	0.00	0.02	0.05
30	0.00	0.09	0.00	0.13		0.29	0.00	0.00	0.00	0.00	0.74	0.00
31	0.06		0.05	0.04		0.00		0.00		0.00	0.00	
Total	1.58	3.85	1.42	4.50	8.29	8.73	4.18	2.87	0.81	0.31	2.29	2.50

Total Rainfall for Water Year 2014: 41.33

Notes:

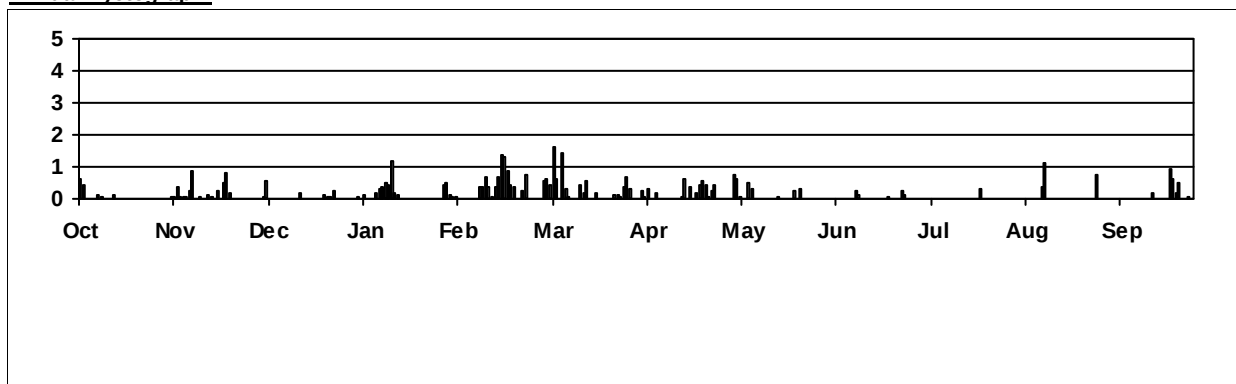
Precipitation is measured with a tipping bucket rain gauge. Ice and snow accumulations in the rain gauge are not measured until they melt.

Precipitation from snow is not measured accurately

Thurston County Water Resources Unit

Visit our website at

Annual Hyetograph:



18w--WARC TC_Rain

Water Year: 2014

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
01	0.54	0.08	0.42	0.01	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00
02	0.37	0.36	0.01	0.15	0.00	0.49	0.00	0.00	0.00	0.00	0.00	0.01
03	0.00	0.01	0.00	0.00	0.00	0.55	0.20	0.91	0.00	0.00	0.00	0.00
04	0.00	0.06	0.00	0.00	0.00	0.38	0.07	0.53	0.00	0.00	0.00	0.00
05	0.00	0.06	0.00	0.00	0.00	1.46	0.24	0.15	0.00	0.00	0.00	0.00
06	0.05	0.23	0.00	0.18	0.00	0.49	0.00	0.00	0.00	0.00	0.00	0.00
07	0.14	0.80	0.00	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
08	0.13	0.01	0.00	0.49	0.00	1.20	0.19	0.45	0.00	0.00	0.00	0.00
09	0.00	0.05	0.00	0.48	0.30	0.32	0.00	0.52	0.00	0.00	0.00	0.00
10	0.04	0.00	0.01	0.28	0.30	0.09	0.00	0.01	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	1.04	0.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	0.14	0.11	0.18	0.16	0.28	0.00	0.00	0.00	0.26	0.00	0.44	0.00
13	0.00	0.04	0.01	0.03	0.10	0.02	0.00	0.00	0.14	0.00	1.52	0.00
14	0.01	0.00	0.00	0.00	0.37	0.31	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.20	0.03	0.00	0.60	0.11	0.02	0.00	0.00	0.00	0.01	0.00
16	0.00	0.00	0.00	0.00	1.26	0.56	0.08	0.00	0.00	0.00	0.00	0.00
17	0.00	0.46	0.00	0.00	1.27	0.00	0.51	0.00	0.01	0.00	0.00	0.08
18	0.01	0.65	0.04	0.00	0.75	0.02	0.00	0.05	0.00	0.00	0.00	0.01
19	0.01	0.17	0.00	0.00	0.29	0.18	0.35	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.10	0.00	0.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.09	0.00	0.01	0.00	0.19	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.02	0.01	0.00	0.00	0.37	0.00	0.00	0.00	0.00	0.00
23	0.01	0.00	0.16	0.00	0.25	0.00	0.48	0.21	0.03	0.38	0.00	0.75
24	0.01	0.00	0.00	0.00	0.66	0.00	0.32	0.00	0.00	0.00	0.00	0.62
25	0.01	0.00	0.00	0.00	0.01	0.11	0.04	0.30	0.00	0.00	0.00	0.10
26	0.00	0.00	0.00	0.01	0.00	0.13	0.15	0.03	0.08	0.00	0.00	0.41
27	0.00	0.00	0.01	0.02	0.00	0.18	0.36	0.00	0.29	0.00	0.00	0.01
28	0.00	0.00	0.00	0.36	0.00	0.33	0.07	0.00	0.13	0.00	0.00	0.00
29	0.00	0.00	0.00	0.60		0.58	0.00	0.00	0.03	0.00	0.01	0.05
30	0.00	0.08	0.00	0.11		0.21	0.00	0.00	0.00	0.00	0.91	0.00
31	0.05		0.05	0.05		0.01		0.00		0.00	0.00	
Total	1.52	3.37	1.13	4.28	7.42	7.73	3.64	3.16	0.97	0.38	2.89	2.04

Total Rainfall for Water Year 2014: 38.53

Notes:

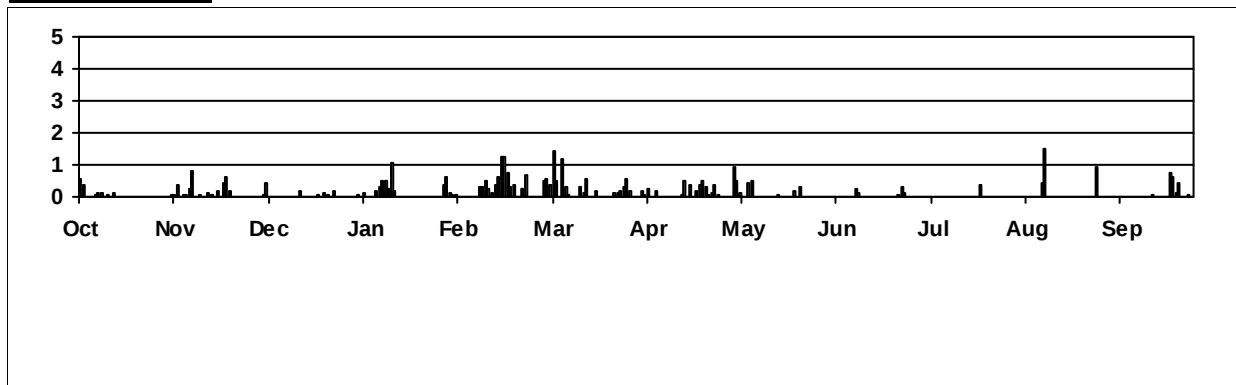
Precipitation is measured with a tipping bucket rain gauge. Ice and snow accumulations in the rain gauge are not measured until they melt.

Precipitation from snow is not measured accurately

Thurston County Water Resources Unit

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Annual Hyetograph:



20u--Southbay Firestation_Rain

Water Year: 2014

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
01	0.60	0.07	0.49	0.02	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00
02	0.44	0.30	0.01	0.17	0.00	0.46	0.00	0.00	0.00	0.00	0.00	0.01
03	0.00	0.00	0.00	0.00	0.00	0.43	0.18	1.21	0.00	0.00	0.00	0.00
04	0.00	0.08	0.00	0.00	0.00	0.44	0.08	0.62	0.00	0.00	0.00	0.00
05	0.01	0.11	0.00	0.00	0.00	1.44	0.20	0.24	0.00	0.00	0.00	0.00
06	0.02	0.26	0.00	0.19	0.00	0.49	0.00	0.00	0.00	0.00	0.00	0.00
07	0.19	0.78	0.00	0.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
08	0.15	0.00	0.00	0.40	0.00	1.25	0.22	0.48	0.00	0.00	0.00	0.00
09	0.00	0.07	0.00	0.33	0.40	0.31	0.00	0.40	0.00	0.00	0.00	0.00
10	0.06	0.01	0.01	0.35	0.39	0.09	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	1.06	0.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	0.12	0.12	0.20	0.14	0.34	0.00	0.00	0.00	0.25	0.00	0.29	0.00
13	0.00	0.06	0.01	0.05	0.08	0.03	0.00	0.00	0.11	0.00	0.70	0.00
14	0.01	0.00	0.00	0.00	0.45	0.27	0.00	0.00	0.00	0.00	0.00	0.00
15	0.01	0.18	0.04	0.00	0.63	0.17	0.03	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	1.38	0.47	0.06	0.00	0.05	0.00	0.00	0.00
17	0.00	0.29	0.00	0.00	1.25	0.01	0.66	0.02	0.00	0.00	0.00	0.15
18	0.01	0.69	0.00	0.00	0.85	0.06	0.00	0.07	0.00	0.00	0.00	0.01
19	0.01	0.15	0.00	0.00	0.26	0.10	0.46	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.16	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.07	0.00	0.03	0.00	0.12	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.03	0.01	0.00	0.00	0.23	0.00	0.00	0.00	0.00	0.01
23	0.01	0.00	0.18	0.00	0.23	0.00	0.65	0.25	0.04	0.22	0.00	0.85
24	0.02	0.01	0.00	0.00	0.84	0.00	0.55	0.00	0.01	0.00	0.00	0.57
25	0.00	0.00	0.00	0.00	0.01	0.12	0.12	0.35	0.00	0.00	0.00	0.27
26	0.00	0.00	0.00	0.01	0.00	0.19	0.29	0.00	0.02	0.00	0.00	0.44
27	0.00	0.00	0.00	0.02	0.00	0.27	0.35	0.00	0.30	0.00	0.00	0.00
28	0.00	0.00	0.02	0.40	0.00	0.81	0.03	0.00	0.19	0.00	0.00	0.00
29	0.00	0.00	0.00	0.55		0.62	0.00	0.00	0.01	0.00	0.00	0.06
30	0.01	0.10	0.00	0.16		0.13	0.00	0.00	0.00	0.00	1.12	0.00
31	0.05		0.05	0.03		0.00		0.00		0.00	0.00	

Total	1.72	3.28	1.27	4.20	8.29	8.16	4.23	3.64	0.98	0.22	2.11	2.37
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Total Rainfall for Water Year 2014: 40.47

Notes:

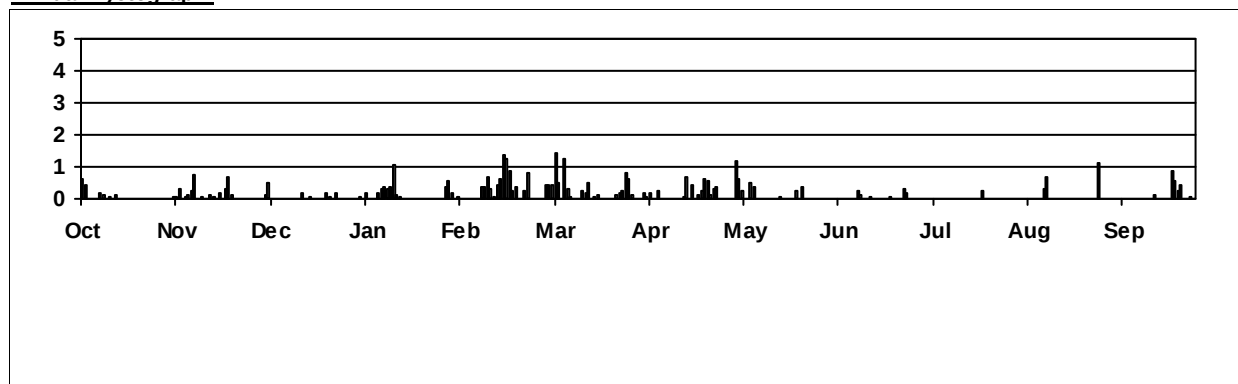
Precipitation is measured with a tipping bucket rain gauge. Ice and snow accumulations in the rain gauge are not measured until they melt.

Precipitation from snow is not measured accurately

Thurston County Water Resources Unit

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Annual Hyetograph:



23u--Percival Creek, Bldg 4_Rain

Water Year: 2014

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
01	0.56	0.07	0.81	0.01	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00
02	0.42	0.44	0.05	0.16	0.00	0.28	0.00	0.00	0.00	0.00	0.00	0.00
03	0.01	0.00	0.00	0.00	0.00	0.26	0.24	1.30	0.00	0.00	0.00	0.00
04	0.00	0.11	0.00	0.01	0.00	0.19	0.02	0.85	0.00	0.00	0.00	0.00
05	0.00	0.15	0.00	0.00	0.00	0.72	0.37	0.08	0.00	0.00	0.00	0.00
06	0.03	0.33	0.01	0.16	0.00	0.26	0.00	0.00	0.00	0.00	0.00	0.00
07	0.16	0.89	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
08	0.12	0.00	0.00	0.46	0.00	0.82	0.19	0.65	0.00	0.00	0.00	0.00
09	0.00	0.05	0.00	0.42	0.31	0.18	0.06	0.31	0.00	0.00	0.00	0.00
10	0.03	0.00	0.01	0.55	0.19	0.03	0.00	0.01	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	1.03	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	0.18	0.16	0.27	0.16	0.21	0.00	0.00	0.00 e	0.35	0.00	0.29	0.00
13	0.00	0.05	0.04	0.03	0.06	0.01	0.00	0.00 e	0.08	0.03	0.60	0.00
14	0.00	0.00	0.00	0.00	0.61	0.20	0.00	0.00 e	0.00	0.00	0.00	0.00
15	0.00	0.35	0.10	0.00	0.70	0.25	0.00	0.00 e	0.00	0.00	0.00	0.00
16	0.00	0.02	0.01	0.00	0.83	0.49	0.11	0.00 e	0.00	0.00	0.00	0.00
17	0.00	0.44	0.00	0.00	0.69	0.00	0.72	0.01 e	0.00	0.00	0.00	0.12
18	0.01	0.75	0.02	0.00	0.55	0.04	0.00	0.09 e	0.00	0.00	0.00	0.01
19	0.01	0.13	0.00	0.00	0.29	0.13	0.42	0.00 e	0.00	0.00	0.00	0.00
20	0.00	0.00	0.22	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.07	0.00	0.02	0.00	0.15	0.00	0.00	0.00	0.00	0.00
22	0.00	0.01	0.05	0.01	0.00	0.00	0.33	0.00	0.00	0.00	0.00	0.01
23	0.00	0.00	0.28	0.00	0.20	0.00	0.92	0.17	0.03	0.30	0.00	0.93
24	0.00	0.00	0.00	0.00	0.32	0.00	0.80	0.00	0.00	0.00	0.00	0.67
25	0.01	0.00	0.00	0.00	0.00	0.10	0.10	0.31	0.00	0.00	0.00	0.38
26	0.00	0.00	0.00	0.00	0.00	0.36	0.45	0.01	0.02	0.00	0.00	0.42
27	0.00	0.00	0.00	0.01	0.00	0.11	0.43	0.06	0.43	0.00	0.00	0.00
28	0.00	0.00	0.00	0.47	0.00	0.90	0.03	0.00	0.21	0.00	0.00	0.00
29	0.00	0.00	0.00	0.42		0.79	0.00	0.00	0.00	0.00	0.00	0.07
30	0.01	0.12	0.00	0.13		0.18	0.00	0.00	0.00	0.00	1.29	0.00
31	0.11		0.06	0.04		0.00		0.00		0.00	0.00	
Total	1.66	4.07	2.00	4.32	5.68	6.30	5.34	3.85	1.12	0.33	2.18	2.61

Total Rainfall for Water Year 2014: 39.46

Notes:

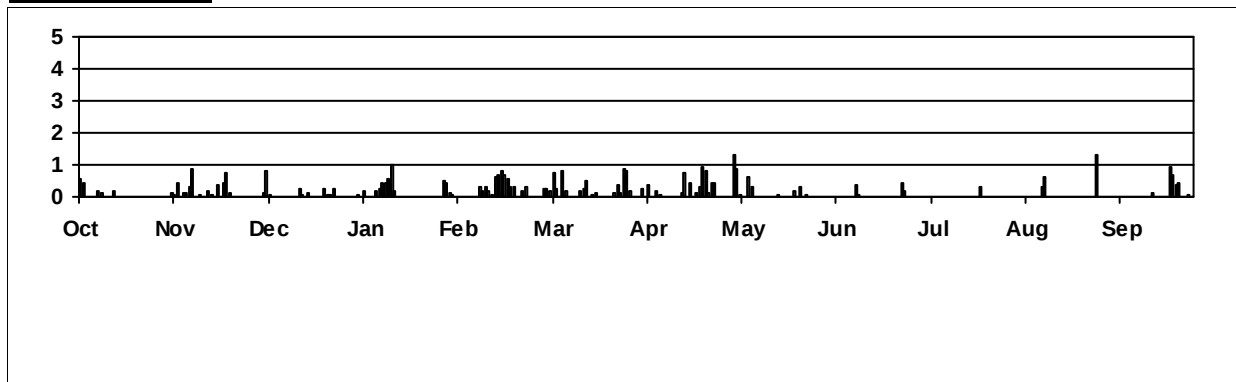
Precipitation is measured with a tipping bucket rain gauge. Ice and snow accumulations in the rain gauge are not measured until they melt.

Precipitation from snow is not measured accurately

Thurston County Water Resources Unit

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Annual Hyetograph:



24u--McLane FS Wx

Water Year: 2014

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
01	0.35	0.05	0.89	0.01	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00
02	0.37	0.60	0.05	0.19	0.00	0.80	0.00	0.00	0.00	0.00	0.03	0.01
03	0.00	0.00	0.00	0.00	0.00	0.60	0.22	0.87	0.00	0.00	0.00	0.00
04	0.01	0.14	0.00	0.00	0.00	0.55	0.03	0.77	0.00	0.00	0.00	0.00
05	0.00	0.24	0.00	0.01	0.00	1.79	0.36	0.06	0.00	0.00	0.00	0.00
06	0.02	0.37	0.00	0.21	0.00	1.08	0.00	0.00	0.00	0.00	0.00	0.00
07	0.15	1.14	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
08	0.26	0.00	0.00	0.58	0.00	2.03	0.20	0.55	0.00	0.00	0.00	0.00
09	0.00	0.07	0.00	0.40	0.43	0.43	0.00	0.38	0.00	0.00	0.00	0.00
10	0.02	0.00	0.01	0.72	0.52	0.05	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	1.92	1.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	0.12	0.21	0.27	0.24	0.65	0.00	0.00	0.00	0.16	0.00	0.30	0.00
13	0.00	0.06	0.00	0.09	0.11	0.02	0.00	0.00	0.06	0.00	0.79	0.00
14	0.00	0.00	0.00	0.00	0.88	0.52	0.00	0.00	0.00	0.00	0.01	0.00
15	0.00	0.33	0.04	0.00	0.82	0.20	0.00	0.00	0.01	0.00	0.01	0.00
16	0.00	0.01	0.01	0.00	1.83	0.38	0.22	0.00	0.03	0.00	0.00	0.00
17	0.00	0.34	0.00	0.00	1.07	0.00	0.83	0.01	0.00	0.00	0.00	0.17
18	0.00	1.40	0.03	0.00	1.14	0.06	0.00	0.20	0.00	0.00	0.00	0.01
19	0.01	0.32	0.00	0.00	0.46	0.10	0.56	0.00	0.00	0.00	0.00	0.00
20	0.00	0.01	0.17	0.00	0.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.06	0.00	0.03	0.00	0.08	0.00	0.00	0.00	0.00	0.00
22	0.00	0.01	0.02	0.01	0.00	0.00	0.19	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.17	0.00	0.23	0.00	1.07	0.15	0.03	0.45	0.00	1.09
24	0.01	0.00	0.00	0.00	0.99	0.00	0.72	0.00	0.00	0.04	0.00	0.84
25	0.00	0.00	0.00	0.00	0.01	0.28	0.01	0.52	0.00	0.00	0.00	0.13
26	0.00	0.01	0.00	0.00	0.00	0.21	0.46	0.00	0.02	0.00	0.00	0.73
27	0.00	0.00	0.01	0.02	0.00	0.18	0.35	0.03	0.49	0.00	0.00	0.00
28	0.00	0.00	0.00	0.51	0.00	0.99	0.02	0.00	0.20	0.00	0.00	0.00
29	0.00	0.00	0.00	0.44		1.01	0.00	0.00	0.00	0.00	0.00	0.09
30	0.01	0.12	0.00	0.12		0.09	0.00	0.00	0.00	0.00	1.20	0.00
31	0.10		0.03	0.03		0.00		0.00		0.00	0.00	

Total	1.43	5.43	1.76	5.70	10.72	11.37	5.32	3.54	1.00	0.49	2.34	3.07
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Total Rainfall for Water Year 2014: 52.17

Notes:

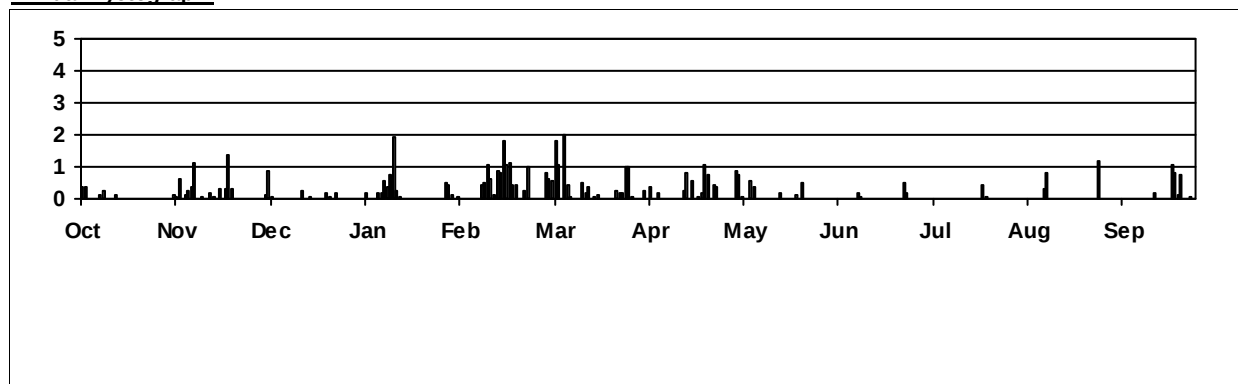
Precipitation is measured with a tipping bucket rain gauge. Ice and snow accumulations in the rain gauge are not measured until they melt.

Precipitation from snow is not measured accurately

Thurston County Water Resources Unit

Visit our website at

Annual Hyetograph:



27u--Boston Harbor_Rain

Water Year: 2014

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
01	0.30	0.07	0.57	0.01	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00
02	0.61	0.36	0.00	0.20	0.00	0.44	0.00	0.00	0.00	0.00	0.00	0.01
03	0.00	0.00	0.00	0.00	0.00	0.44	0.19	0.80	0.00	0.00	0.00	0.00
04	0.00	0.13	0.00	0.00	0.00	0.62	0.16	0.48	0.00	0.00	0.00	0.00
05	0.00	0.10	0.00	0.01	0.00	1.53	0.22	0.37	0.00	0.00	0.00	0.00
06	0.04	0.32	0.00	0.13	0.00	0.68	0.00	0.00	0.00	0.00	0.00	0.00
07	0.12	0.82	0.00	0.32	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00
08	0.15	0.00	0.00	0.30	0.00	1.24	0.16	0.63	0.00	0.00	0.00	0.00
09	0.00	0.09	0.00	0.18	0.36	0.28	0.00	0.37	0.00	0.00	0.00	0.01
10	0.03	0.00	0.04	0.64	0.41	0.08	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.01	1.04	0.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	0.08	0.11	0.27	0.13	0.23	0.00	0.00	0.00	0.13	0.00	0.39	0.00
13	0.00	0.03	0.00	0.01	0.11	0.06	0.00	0.00	0.08	0.00	1.52	0.00
14	0.00	0.00	0.00	0.00	0.53	0.35	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.18	0.16	0.00	0.62	0.23	0.04	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	1.50	0.50	0.12	0.00	0.27	0.00	0.00	0.00
17	0.00	0.44	0.00	0.00	1.26	0.01	0.87	0.00	0.01	0.00	0.00	0.19
18	0.00	0.61	0.01	0.00	0.86	0.06	0.00	0.29	0.00	0.00	0.00	0.02
19	0.00	0.12	0.00	0.00	0.23	0.11	0.49	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.13	0.00	0.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.06	0.00	0.02	0.00	0.08	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.02	0.00	0.00	0.00	0.29	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.21	0.00	0.25	0.00	0.82	0.21	0.03	0.39	0.00	0.88
24	0.01	0.00	0.00	0.00	0.85	0.00	0.54	0.00	0.00	0.00	0.00	0.91
25	0.00	0.01	0.00	0.00	0.01	0.24	0.03	0.37	0.00	0.00	0.00	0.30
26	0.00	0.00	0.00	0.00	0.00	0.08	0.25	0.00	0.01	0.00	0.00	0.44
27	0.00	0.00	0.02	0.01	0.00	0.14	0.40	0.00	0.37	0.00	0.00	0.00
28	0.00	0.00	0.00	0.43	0.00	0.56	0.00	0.00	0.29	0.00	0.00	0.00
29	0.00	0.00	0.00	0.51		0.68	0.00	0.00	0.00	0.00	0.00	0.03
30	0.01	0.11	0.00	0.14		0.11	0.00	0.00	0.00	0.00	0.65	0.00
31	0.09		0.07	0.05		0.00		0.00		0.00	0.00	
Total	1.44	3.50	1.57	4.11	8.31	8.50	4.66	3.52	1.19	0.39	2.56	2.79

Total Rainfall for Water Year 2014: 42.54

Notes:

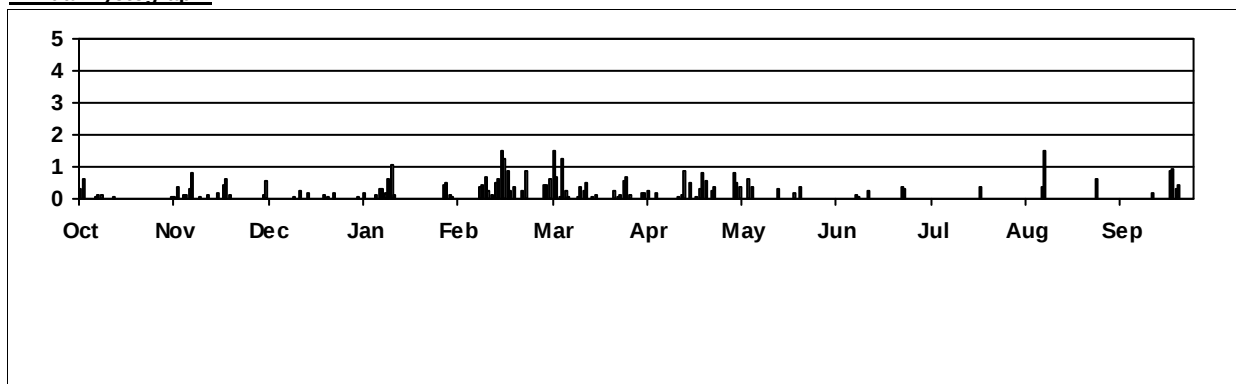
Precipitation is measured with a tipping bucket rain gauge. Ice and snow accumulations in the rain gauge are not measured until they melt.

Precipitation from snow is not measured accurately

Thurston County Water Resources Unit

Visit our website at

Annual Hyetograph:



33w--Griffin FS_Rain

Water Year: 2014

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
01	0.46	0.05	0.93	0.02	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00
02	0.70	0.38	0.02	0.23	0.00	0.64	0.00	0.00	0.00	0.00	0.00	0.01
03	0.00	0.00	0.00	0.00	0.00	0.54	0.26	0.69	0.00	0.00	0.00	0.00
04	0.00	0.16	0.00	0.00	0.00	0.63	0.11	0.97	0.00	0.00	0.00	0.00
05	0.00	0.11	0.00	0.00	0.00	1.82	0.34	0.23	0.00	0.00	0.00	0.00
06	0.02	0.41	0.00	0.17	0.00	1.28	0.00	0.00	0.00	0.00	0.00	0.00
07	0.10	0.85	0.00	0.24	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00
08	0.22	0.00	0.00	0.57	0.00	1.61	0.19	0.58	0.00	0.00	0.00	0.00
09	0.01	0.09	0.00	0.24	0.44	0.32	0.00	0.35	0.00	0.00	0.00	0.00
10	0.05	0.00	0.01	0.74	0.43	0.06	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	1.49	0.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	0.07	0.18	0.28	0.22	0.26	0.00	0.00	0.00	0.24	0.00	0.33	0.00
13	0.00	0.00	0.00	0.06	0.16	0.03	0.00	0.00	0.07	0.00	0.79	0.00
14	0.00	0.00	0.00	0.00	0.93	0.29	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.29	0.15	0.00	1.10	0.26	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	1.86	0.41	0.22	0.00	0.10	0.00	0.00	0.00
17	0.00	0.42	0.00	0.00	1.41	0.00	0.87	0.00	0.00	0.00	0.00	0.38
18	0.00	0.76	0.06	0.00	1.24	0.18	0.00	0.39	0.00	0.00	0.00	0.01
19	0.00	0.18	0.00	0.00	0.31	0.17	0.48	0.00	0.00	0.00	0.00	0.00
20	0.00	0.01	0.17	0.00	0.46	0.00	0.01	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.11	0.00	0.04	0.00	0.08	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.02	0.00	0.00	0.00	0.24	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.17	0.00	0.23	0.00	1.12	0.14	0.02	0.86	0.00	0.99
24	0.00	0.00	0.00	0.00	1.10	0.00	0.58	0.00	0.01	0.01	0.00	1.00
25	0.00	0.00	0.00	0.00	0.01	0.41	0.17	0.29	0.00	0.00	0.00	0.07
26	0.00	0.01	0.00	0.00	0.00	0.10	0.40	0.01	0.00	0.00	0.00	0.41
27	0.00	0.00	0.02	0.02	0.00	0.15	0.41	0.00	0.56	0.00	0.00	0.19
28	0.00	0.00	0.00	0.56	0.00	0.86	0.03	0.00	0.20	0.00	0.00	0.00
29	0.00	0.00	0.00	0.44		1.07	0.00	0.00	0.00	0.00	0.00	0.07
30	0.00	0.14	0.00	0.22		0.16	0.00	0.00	0.00	0.00	0.80	0.00
31	0.10		0.06	0.06		0.01		0.00		0.00	0.00	
Total	1.73	4.04	2.00	5.28	11.01	11.05	5.51	3.65	1.20	0.87	1.92	3.13

Total Rainfall for Water Year 2014: 51.39

Notes:

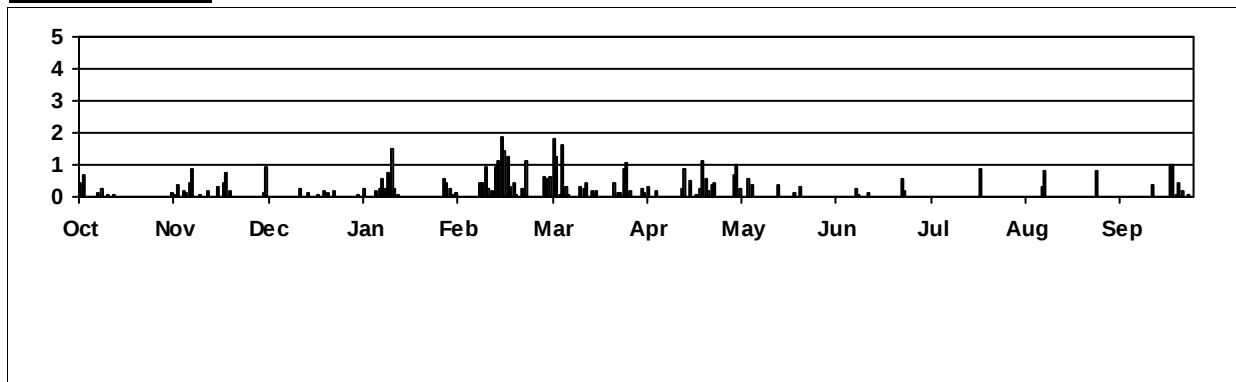
Precipitation is measured with a tipping bucket rain gauge. Ice and snow accumulations in the rain gauge are not measured until they melt.

Precipitation from snow is not measured accurately

Thurston County Water Resources Unit

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Annual Hyetograph:



45u--Littlerock_Rain

Water Year: 2014

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
01	0.83	0.14	1.51	0.00	0.04	0.03	0.00	0.00	0.00	0.00	0.00	0.00
02	0.61	0.56	0.08	0.20	0.00	0.56	0.00	0.00	0.00	0.00	0.00	0.01
03	0.00	0.00	0.00	0.00	0.00	0.71	0.27	0.91	0.00	0.00	0.00	0.00
04	0.01	0.23	0.00	0.00	0.00	0.36	0.05	0.82	0.00	0.00	0.00	0.00
05	0.00	0.24	0.00	0.01	0.00	1.36	0.39	0.29	0.00	0.00	0.00	0.00
06	0.04	0.37	0.00	0.20	0.00	0.91	0.01	0.00	0.00	0.00	0.00	0.00
07	0.22	0.91	0.00	0.46	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00
08	0.04	0.06	0.00	0.45	0.00	1.54	0.14	0.62	0.00	0.00	0.00	0.00
09	0.01	0.05	0.00	0.33	0.46	0.44	0.00	0.41	0.00	0.00	0.00	0.00
10	0.02	0.00	0.04	0.74	0.47	0.10	0.00	0.01	0.00	0.00	0.00	0.00
11	0.00	0.00	0.01	1.08	0.64	0.01	0.00	0.00	0.00	0.00	0.00	0.00
12	0.16	0.17	0.34	0.73	0.31	0.00	0.00	0.00	0.22	0.00	0.28	0.00
13	0.00	0.05	0.04	0.26	0.22	0.08	0.00	0.00	0.01	0.00	0.35	0.00
14	0.01	0.00	0.00	0.00	0.37	0.85	0.00	0.00	0.00	0.01	0.00	0.00
15	0.00	0.68	0.15	0.00	0.66	0.25	0.01	0.00	0.02	0.00	0.00	0.00
16	0.00	0.06	0.01	0.00	1.51	0.49	0.36	0.00	0.01	0.00	0.00	0.00
17	0.00	0.72	0.01	0.00	1.35	0.01	0.66	0.00	0.00	0.00	0.00	0.10
18	0.00	0.88	0.01	0.00	0.89	0.01	0.00	0.26	0.00	0.00	0.00	0.00
19	0.01	0.28	0.00	0.00	0.36	0.15	0.42	0.00	0.00	0.00	0.00	0.00
20	0.01	0.00	0.39	0.00	0.54	0.00	0.00	0.00	0.00	0.01	0.00	0.00
21	0.00	0.00	0.09	0.00	0.05	0.00	0.13	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.07	0.01	0.00	0.00	0.32	0.00	0.00	0.00	0.00	0.02
23	0.00	0.00	0.44	0.00	0.18	0.00	0.86	0.20	0.03	0.78	0.00	0.86
24	0.01	0.00	0.00	0.00	0.78	0.00	0.47	0.00	0.00	0.03	0.00	0.68
25	0.00	0.01	0.00	0.00	0.00	0.13	0.06	0.26	0.00	0.00	0.00	0.19
26	0.00	0.00	0.00	0.00	0.00	0.35	0.34	0.00	0.04	0.00	0.00	1.20
27	0.02	0.00	0.02	0.02	0.00	0.14	0.12	0.22	0.31	0.00	0.00	0.00
28	0.01	0.00	0.00	0.55	0.00	0.45	0.00	0.04	0.26	0.00	0.00	0.00
29	0.00	0.00	0.00	0.43		0.94	0.00	0.01	0.00	0.00	0.00	0.20
30	0.06	0.19	0.00	0.19		0.18	0.00	0.00	0.00	0.00	0.39	0.00
31	0.25		0.08	0.08		0.01		0.00		0.00	0.00	
Total	2.32	5.60	3.29	5.74	8.83	10.08	4.61	4.05	0.90	0.83	1.02	3.26

Total Rainfall for Water Year 2014: 50.53

Notes:

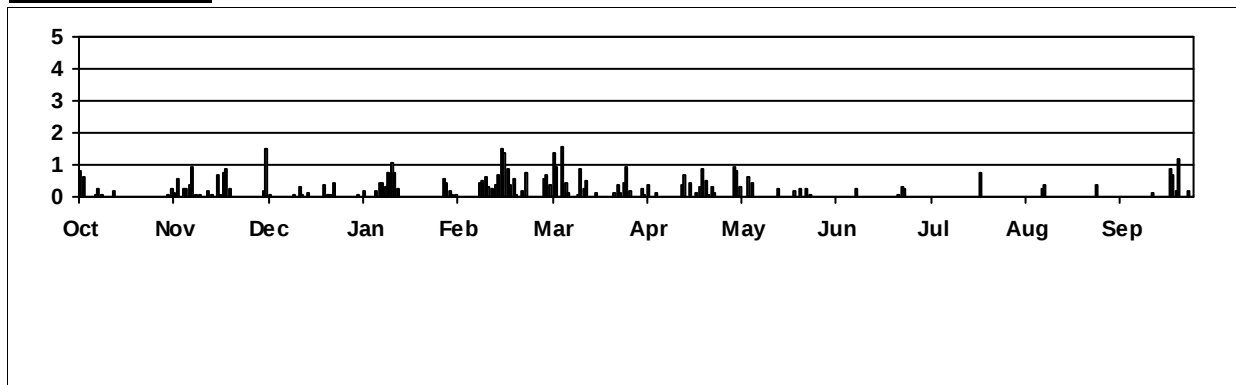
Precipitation is measured with a tipping bucket rain gauge. Ice and snow accumulations in the rain gauge are not measured until they melt.

Precipitation from snow is not measured accurately

Thurston County Water Resources Unit

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Annual Hyetograph:



45w--Rochester Drop Box_Rain

Water Year: 2014

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
01	0.98	0.13	1.49	0.00	0.05	0.03	0.00	0.00	0.00	0.00	0.00	0.00
02	0.80	0.49	0.23	0.27	0.00	0.50	0.00	0.00	0.00	0.00	0.00	0.01
03	0.00	0.00	0.00	0.01	0.00	0.66	0.27	0.82	0.00	0.00	0.00	0.00
04	0.00	0.20	0.00	0.00	0.00	0.26	0.17	0.59	0.00	0.00	0.00	0.00
05	0.00	0.11	0.00	0.00	0.00	1.18	0.34	0.18	0.00	0.00	0.00	0.00
06	0.02	0.36	0.00	0.24	0.00	0.99	0.02	0.00	0.00	0.00	0.00	0.00
07	0.25	0.94	0.00	0.47	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00
08	0.05	0.03	0.01	0.56	0.00	1.19	0.18	0.55	0.00	0.00	0.00	0.00
09	0.00	0.04	0.00	0.17	0.60	0.42	0.01	0.59	0.00	0.00	0.00	0.00
10	0.04	0.00	0.09	0.60	0.45	0.12	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	1.05	0.48	0.00	0.04	0.00	0.00	0.00	0.00	0.00
12	0.12	0.14	0.26	0.73	0.19	0.00	0.00	0.00	0.19	0.00	0.28	0.00
13	0.00	0.05	0.02	0.15	0.24	0.11	0.00	0.00	0.01	0.00	0.51	0.00
14	0.00	0.13	0.00	0.01	0.31	0.48	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.40	0.11	0.00	0.76	0.22	0.02	0.00	0.03	0.00	0.00	0.00
16	0.00	0.08	0.00	0.00	1.59	0.65	0.44	0.00	0.08	0.00	0.00	0.00
17	0.00	0.64	0.04	0.00	1.50	0.02	0.77	0.00	0.00	0.00	0.00	0.14
18	0.01	0.70	0.01	0.00	0.85	0.03	0.01	0.24	0.00	0.00	0.00	0.00
19	0.00	0.16	0.00	0.00	0.37	0.16	0.31	0.00	0.00	0.00	0.00	0.00
20	0.01	0.00	0.32	0.00	0.56	0.01	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.08	0.00	0.08	0.00	0.16	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.07	0.01	0.00	0.00	0.37	0.00	0.00	0.00	0.00	0.02
23	0.00	0.00	0.46	0.00	0.18	0.00	0.95	0.21	0.03	0.92	0.00	0.75
24	0.02	0.00	0.00	0.00	0.67	0.00	0.48	0.00	0.00	0.02	0.00	0.45
25	0.00	0.00	0.00	0.00	0.00	0.19	0.01	0.27	0.00	0.00	0.00	0.17
26	0.00	0.01	0.00	0.00	0.00	0.22	0.37	0.01	0.07	0.00	0.00	0.79
27	0.01	0.00	0.03	0.01	0.00	0.23	0.21	0.00	0.32	0.00	0.00	0.00
28	0.00	0.00	0.00	0.49	0.00	0.42	0.02	0.13	0.18	0.00	0.01	0.00
29	0.00	0.00	0.00	0.34		0.88	0.00	0.02	0.01	0.00	0.00	0.12
30	0.04	0.20	0.00	0.28		0.20	0.00	0.00	0.00	0.00	0.26	0.01
31	0.15		0.14	0.04		0.00		0.00		0.00	0.00	
Total	2.50	4.81	3.36	5.43	8.88	9.20	5.15	3.61	0.92	0.94	1.06	2.46

Total Rainfall for Water Year 2014: 48.32

Notes:

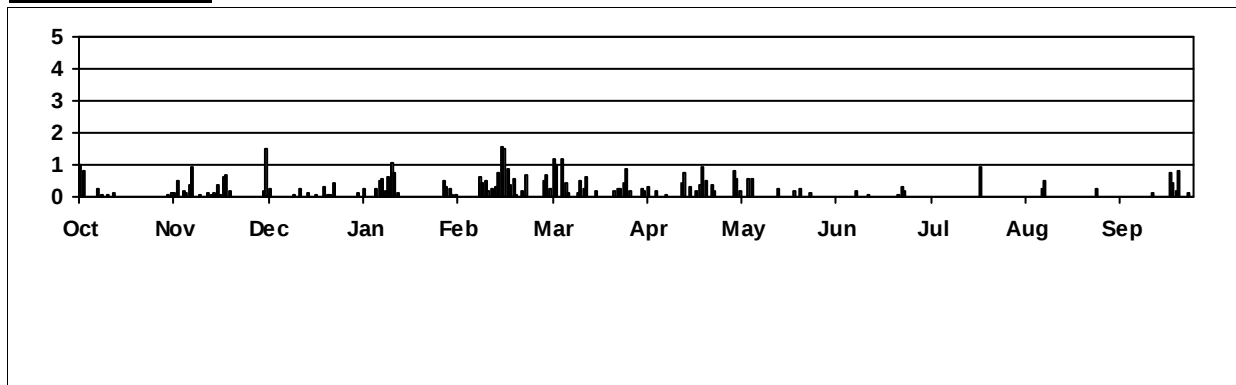
Precipitation is measured with a tipping bucket rain gauge. Ice and snow accumulations in the rain gauge are not measured until they melt.

Precipitation from snow is not measured accurately

Thurstun County Water Resources Unit

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Annual Hyetograph:



55u--Tenino_Rain

Water Year: 2014

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
01	0.73	0.13	1.07	0.01	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00
02	0.59	0.49	0.11	0.17	0.01	0.63	0.00	0.00	0.00	0.00	0.00	0.01
03	0.00	0.00	0.00	0.00	0.00	1.02	0.14	1.12	0.00	0.00	0.00	0.00
04	0.01	0.12	0.00	0.00	0.00	0.20	0.08	0.60	0.00	0.00	0.00	0.00
05	0.00	0.06	0.00	0.01	0.00	1.20	0.27	0.11	0.00	0.00	0.00	0.00
06	0.03	0.34	0.00	0.16	0.00	0.73	0.01	0.00	0.00	0.00	0.00	0.00
07	0.20	0.90	0.00	0.54	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00
08	0.23	0.00	0.00	0.43	0.01	1.26	0.16	0.59	0.00	0.00	0.00	0.00
09	0.01	0.03	0.00	0.28	0.38	0.75	0.00	0.73	0.00	0.00	0.00	0.00
10	0.04	0.00	0.08	0.40	0.29	0.21	0.00	0.00	0.00	0.00	0.00	0.00
11	0.01	0.00	0.00	1.11	0.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	0.10	0.16	0.29	0.47	0.19	0.00	0.00	0.00	0.46	0.00	0.32	0.00
13	0.00	0.02	0.04	0.07	0.06	0.08	0.00	0.00	0.07	0.00	0.38	0.00
14	0.01	0.02	0.00	0.00	0.36	0.51	0.00	0.00	0.00	0.00	0.02	0.00
15	0.00	0.35	0.09	0.00	0.54	0.16	0.03	0.00	0.01	0.00	0.05	0.00
16	0.00	0.04	0.00	0.00	1.37	0.85	0.16	0.00	0.27	0.00	0.00	0.00
17	0.00	0.75	0.00	0.00	1.36	0.00	0.75	0.02	0.00	0.00	0.00	0.10
18	0.00	0.74	0.02	0.00	0.82	0.00	0.00	0.45	0.00	0.00	0.00	0.00
19	0.00	0.37	0.01	0.00	0.45	0.14	0.28	0.01	0.03	0.00	0.00	0.00
20	0.00	0.01	0.25	0.00	0.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.10	0.00	0.05	0.00	0.20	0.00	0.00	0.00	0.00	0.00
22	0.00	0.01	0.06	0.00	0.01	0.00	0.40	0.00	0.00	0.02	0.00	0.03
23	0.01	0.00	0.35	0.00	0.20	0.00	0.78	0.21	0.03	0.47	0.00	0.68
24	0.01	0.00	0.00	0.00	0.64	0.00	0.60	0.00	0.00	0.00	0.00	1.02
25	0.00	0.00	0.00	0.01	0.00	0.14	0.04	0.39	0.00	0.00	0.00	0.11
26	0.00	0.00	0.00	0.00	0.00	0.31	0.31	0.12	0.04	0.00	0.00	0.83
27	0.02	0.00	0.01	0.01	0.00	0.29	0.31	0.02	0.35	0.00	0.00	0.00
28	0.01	0.01	0.00	0.48	0.00	0.74	0.01	0.02	0.12	0.00	0.00	0.00
29	0.00	0.00	0.00	0.41		1.00	0.00	0.03	0.01	0.00	0.01	0.05
30	0.03	0.15	0.00	0.26		0.19	0.00	0.00	0.00	0.00	0.19	0.00
31	0.11		0.09	0.15		0.00		0.00		0.00	0.00	
Total	2.15	4.70	2.57	4.97	7.93	10.43	4.53	4.42	1.39	0.49	0.97	2.83

Total Rainfall for Water Year 2014: 47.38

Notes:

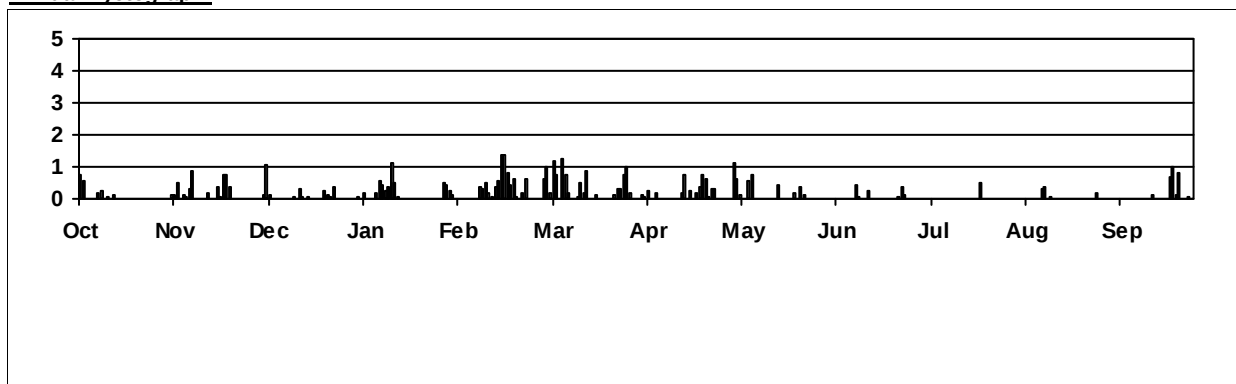
Precipitation is measured with a tipping bucket rain gauge. Ice and snow accumulations in the rain gauge are not measured until they melt.

Precipitation from snow is not measured accurately

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59u--Bloody Run USGS_Rain

Water Year: 2014

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
01	0.42	0.00	1.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
02	0.56	0.59	0.10	0.14	0.01	0.30	0.00	0.00	0.00	0.00	0.00	0.00
03	0.01	0.00	0.00	0.00	0.00	0.42	0.19	0.35	0.00	0.00	0.00	0.00
04	0.00	0.09	0.00	0.00	0.00	0.25	0.22	0.68	0.00	0.00	0.00	0.00
05	0.00	0.06	0.00	0.00	0.00	1.03	0.25	0.08	0.00	0.00	0.00	0.00
06	0.01	0.27	0.00	0.12	0.00	0.39	0.06	0.00	0.00	0.00	0.00	0.00
07	0.32	0.85	0.00	0.58	0.02	0.06	0.01	0.00	0.00	0.00	0.00	0.00
08	0.05	0.00	0.00	0.67	0.08	0.96	0.18	0.34	0.00	0.00	0.00	0.00
09	0.00	0.01	0.00	0.24	0.19	0.53	0.00	0.52	0.00	0.00	0.00	0.00
10	0.00	0.01	0.06	0.39	0.17	0.21	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.71	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	0.14	0.06	0.18	0.35	0.25	0.00	0.00	0.00	1.51	0.00	0.32	0.00
13	0.00	0.17	0.06	0.05	0.02	0.02	0.00	0.00	0.14	0.00	0.54	0.00
14	0.00	0.01	0.00	0.00	0.38	0.46	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.46	0.02	0.00	0.57	0.11	0.02	0.00	0.06	0.00	0.02	0.00
16	0.00	0.07	0.00	0.00	1.02	1.12	0.11	0.00	0.05	0.00	0.00	0.00
17	0.00	0.48	0.00	0.00	1.23	0.00	1.32	0.00	0.01	0.00	0.00	0.04
18	0.00	0.55	0.00	0.00	0.60	0.00	0.01	0.33	0.00	0.00	0.00	0.01
19	0.00	0.38	0.00	0.00	0.25	0.14	0.30	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.13	0.00	0.55	0.00	0.00	0.00	0.02	0.00	0.00	0.00
21	0.00	0.00	0.14	0.00	0.04	0.00	0.20	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.03	0.00	0.00	0.00	0.69	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.31	0.00	0.09	0.00	0.50	0.23	0.02	0.64	0.00	0.53
24	0.00	0.00	0.00	0.00	0.41	0.00	0.49	0.00	0.00	0.02	0.00	0.69
25	0.00	0.00	0.00	0.00	0.00	0.09	0.01	0.50	0.00	0.00	0.00	0.09
26	0.00	0.00	0.00	0.00	0.00	0.18	0.12	0.15	0.03	0.00	0.00	0.29
27	0.02	0.00	0.04	0.00	0.00	0.20	0.39	0.01	0.15	0.00	0.00	0.01
28	0.00	0.00	0.01	0.43	0.00	0.11	0.02	0.05	0.08	0.00	0.00	0.00
29	0.00	0.00	0.00	0.48		0.98	0.00	0.02	0.03	0.00	0.01	0.04
30	0.00	0.17	0.00	0.25		0.40	0.00	0.00	0.00	0.00	0.24	0.00
31	0.05		0.07	0.23		0.00		0.00		0.00	0.00	
Total	1.58	4.23	2.23	4.64	5.97	7.96	5.09	3.26	2.10	0.66	1.13	1.70

Total Rainfall for Water Year 2014: 40.55

Notes:

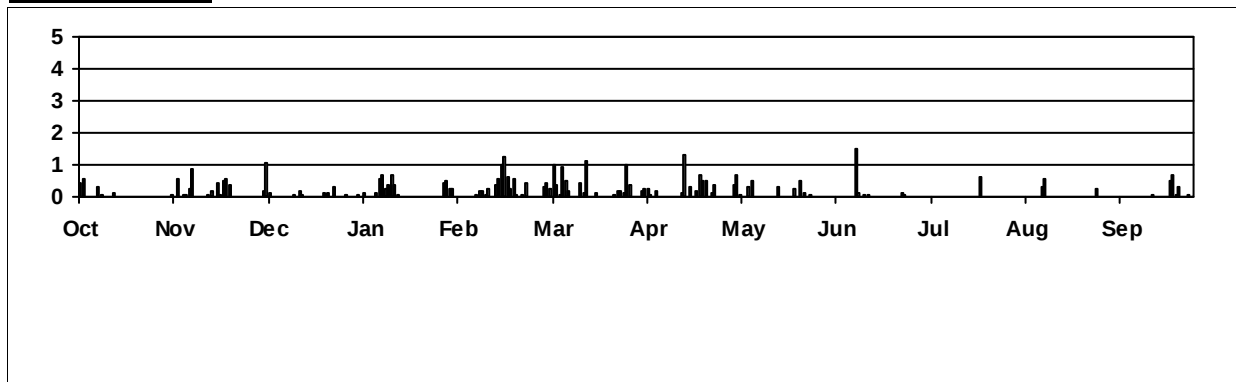
Precipitation is measured with a tipping bucket rain gauge. Ice and snow accumulations in the rain gauge are not measured until they melt.

Precipitation from snow is not measured accurately

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60u--Bucoda USGS_Rain

Water Year: 2014

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
01	0.39	0.01	1.04	0.01	0.01	0.00	0.01	0.00	0.00	0.00	0.01	0.00
02	0.60	0.49	0.12	0.14	0.00	0.28	0.00	0.00	0.00	0.00	0.00	0.00
03	0.00	0.01	0.00	0.00	0.00	0.78	0.05	1.01	0.00	0.00	0.00	0.00
04	0.00	0.13	0.00	0.00	0.00	0.12	0.04	0.59	0.00	0.00	0.00	0.00
05	0.00	0.03	0.00	0.00	0.00	1.08	0.20	0.24	0.00	0.00	0.00	0.00
06	0.00	0.30	0.00	0.20	0.00	0.60	0.08	0.00	0.00	0.00	0.00	0.00
07	0.19	0.57	0.00	0.63	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
08	0.13	0.00	0.00	0.37	0.00	0.87	0.16	0.36	0.00	0.00	0.00	0.00
09	0.00	0.01	0.00	0.19	0.29	0.75	0.01	0.51	0.00	0.00	0.00	0.00
10	0.08	0.01	0.10	0.28	0.17	0.16	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.69	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	0.15	0.15	0.18	0.23	0.18	0.00	0.00	0.00	0.82	0.00	0.24	0.00
13	0.00	0.15	0.04	0.03	0.03	0.03	0.00	0.00	0.12	0.00	0.40	0.00
14	0.00	0.03	0.00	0.00	0.37	0.22	0.00	0.00	0.00	0.00	0.01	0.00
15	0.00	0.19	0.00	0.00	0.62	0.01	0.03	0.00	0.09	0.00	0.04	0.00
16	0.00	0.08	0.00	0.00	1.29	0.92	0.18	0.00	0.02	0.00	0.00	0.00
17	0.00	0.54	0.01	0.00	1.07	0.03	0.70	0.03	0.00	0.00	0.00	0.10
18	0.00	0.40	0.01	0.00	0.40	0.00	0.00	0.30	0.00	0.00	0.00	0.04
19	0.00	0.25	0.00	0.00	0.32	0.09	0.33	0.00	0.02	0.00	0.00	0.00
20	0.00	0.00	0.21	0.00	0.29	0.00	0.00	0.00	0.01	0.04	0.00	0.00
21	0.00	0.00	0.10	0.00	0.04	0.00	0.25	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.01	0.00	0.00	0.58	0.00	0.00	0.01	0.00	0.00
23	0.00	0.00	0.30	0.00	0.11	0.00	0.96	0.24	0.03	0.46	0.00	0.59
24	0.00	0.00	0.00	0.00	0.53	0.00	0.30	0.00	0.00	0.02	0.00	1.04
25	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.43	0.00	0.00	0.00	0.13
26	0.00	0.01	0.00	0.00	0.00	0.24	0.24	0.17	0.03	0.00	0.00	0.61
27	0.00	0.00	0.01	0.01	0.00	0.19	0.29	0.01	0.19	0.00	0.00	0.01
28	0.00	0.00	0.00	0.49	0.00	0.74	0.02	0.08	0.03	0.00	0.00	0.00
29	0.00	0.00	0.00	0.18		0.97	0.00	0.02	0.00	0.00	0.04	0.05
30	0.03	0.16	0.00	0.34		0.16	0.00	0.00	0.00	0.00	0.18	0.01
31	0.04		0.08	0.13		0.01		0.00		0.00	0.00	
Total	1.61	3.52	2.20	3.93	5.84	8.33	4.43	3.99	1.36	0.53	0.92	2.58

Total Rainfall for Water Year 2014: 39.24

Notes:

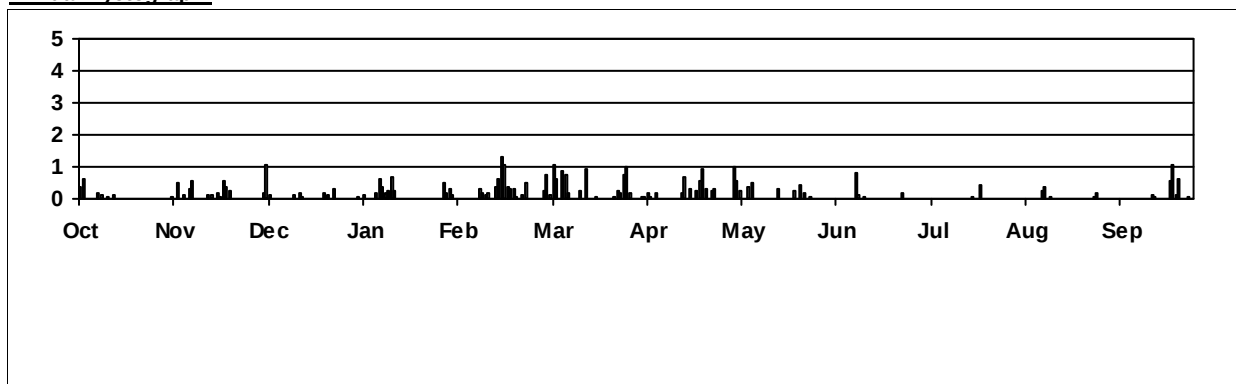
Precipitation is measured with a tipping bucket rain gauge. Ice and snow accumulations in the rain gauge are not measured until they melt.

Precipitation from snow is not measured accurately

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Annual Hyetograph:



65u--Grand Mound_Rain

Water Year: 2014

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
01	0.40	0.10	1.22	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00
02	0.52	0.38	0.18	0.16	0.01	0.49	0.00	0.00	0.00	0.00	0.00	0.01
03	0.00	0.01	0.00	0.00	0.00	0.91	0.11	0.66	0.00	0.00	0.00	0.00
04	0.00	0.18	0.00	0.01	0.00	0.17	0.09	0.48	0.00	0.00	0.00	0.00
05	0.01	0.02	0.00	0.00	0.00	1.14	0.36	0.19	0.00	0.00	0.00	0.00
06	0.03	0.33	0.00	0.22	0.00	0.99	0.05	0.00	0.00	0.00	0.00	0.00
07	0.17	0.86	0.00	0.51	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00
08	0.16	0.00	0.00	0.52	0.00	1.12	0.17	0.46	0.00	0.00	0.00	0.00
09	0.00	0.03	0.00	0.15	0.39	0.56	0.00	0.40	0.00	0.00	0.00	0.00
10	0.02	0.00	0.08	0.39	0.22	0.13	0.00	0.00	0.00	0.00	0.00	0.00
11	0.01	0.00	0.00	1.08	0.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	0.13	0.16	0.19	0.36	0.17	0.00	0.00	0.00	0.35	0.00	0.30	0.00
13	0.00	0.04	0.02	0.07	0.06	0.06	0.00	0.00	0.01	0.00	0.21	0.00
14	0.01	0.03	0.00	0.00	0.32	0.32	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.37	0.03	0.00	0.76	0.10	0.01	0.00	0.01	0.00	0.00	0.00
16	0.00	0.11	0.01	0.00	1.68	0.73	0.22	0.00	0.05	0.00	0.00	0.00
17	0.00	0.57	0.00	0.00	1.20	0.03	0.67	0.01	0.00	0.00	0.00	0.14
18	0.00	0.77	0.01	0.00	0.73	0.01	0.00	0.50	0.00	0.00	0.00	0.01
19	0.01	0.19	0.01	0.00	0.40	0.10	0.29	0.00	0.03	0.00	0.00	0.00
20	0.01	0.01	0.28	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.05	0.00	0.07	0.00	0.21	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.01	0.00	0.00	0.37	0.00	0.00	0.00	0.00	0.07
23	0.00	0.00	0.36	0.00	0.13	0.00	0.95	0.21	0.02	0.71	0.00	0.60
24	0.01	0.00	0.00	0.00	0.53	0.00	0.65	0.00	0.01	0.02	0.00	0.43
25	0.00	0.00	0.00	0.00	0.00	0.18	0.00	0.29	0.00	0.00	0.00	0.14
26	0.00	0.00	0.00	0.00	0.00	0.21	0.36	0.04	0.08	0.00	0.00	0.45
27	0.01	0.00	0.03	0.01	0.00	0.18	0.24	0.25	0.15	0.00	0.00	0.00
28	0.00	0.00	0.00	0.47	0.00	0.43	0.03	0.07	0.19	0.00	0.00	0.00
29	0.00	0.01	0.00	0.24		0.85	0.00	0.02	0.04	0.00	0.00	0.05
30	0.03	0.17	0.00	0.38		0.26	0.00	0.00	0.00	0.00	0.22	0.01
31	0.08		0.13	0.05		0.00		0.00		0.00	0.00	
Total	1.61	4.34	2.60	4.63	7.55	8.98	4.79	3.58	0.94	0.73	0.73	1.91

Total Rainfall for Water Year 2014: 42.39

Notes:

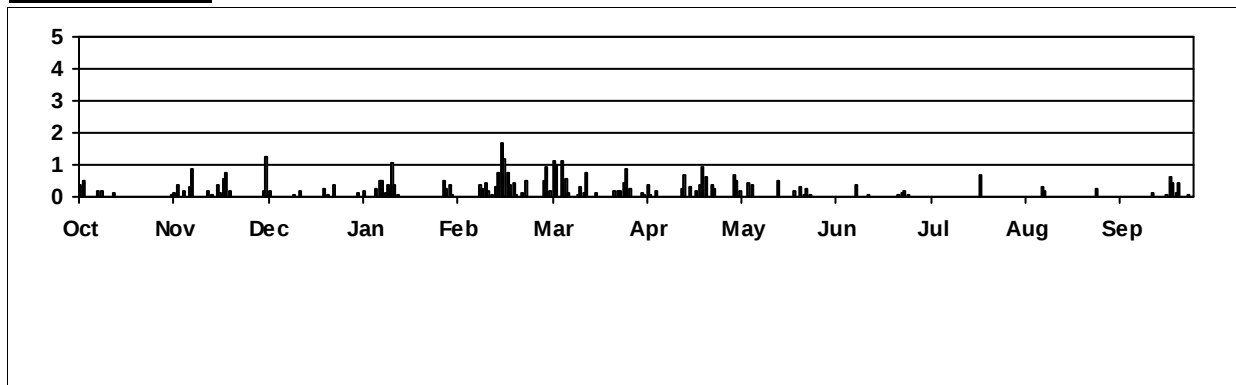
Precipitation is measured with a tipping bucket rain gauge. Ice and snow accumulations in the rain gauge are not measured until they melt.

Precipitation from snow is not measured accurately

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69u--Summit Lake_Rain

Water Year: 2014

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
01	0.68	0.04	1.43	0.02	0.07	0.00	0.10	0.00	0.00	0.00	0.00	0.00
02	0.62	0.67	0.12	0.41	0.01	0.87	0.00	0.00	0.00	0.00	0.00	0.12
03	0.00	0.00	0.00	0.00	0.00	0.85	0.31	0.88	0.00	0.04	0.00	0.00
04	0.00	0.18	0.00	0.00	0.00	0.93	0.11	1.08	0.00	0.00	0.00	0.00
05	0.00	0.17	0.00	0.00	0.00	1.83	0.56	0.37	0.00	0.00	0.00	0.00
06	0.09	0.41	0.00	0.15	0.00	1.72	0.03	0.00	0.00	0.00	0.00	0.00
07	0.38	1.38	0.00	0.44	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00
08	0.03	0.04	0.00	0.69	0.00	2.19	0.31	1.01	0.00	0.00	0.00	0.00
09	0.00	0.10	0.00	0.55	0.47	0.66	0.00	0.60	0.00	0.00	0.00	0.00
10	0.09	0.01	0.05	0.80	0.71	0.14	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	1.94	0.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	0.07	0.25	0.43	0.57	0.53	0.00	0.00	0.00	0.28	0.00	0.27	0.00
13	0.00	0.08	0.02	0.34	0.17	0.09	0.00	0.00	0.03	0.01	0.60	0.00
14	0.00	0.00	0.04	0.00	0.87	0.67	0.00	0.00	0.00	0.01	0.01	0.00
15	0.00	0.78	0.27	0.00	1.23	0.74	0.02	0.00	0.00	0.00	0.03	0.00
16	0.00	0.16	0.00	0.00	2.48	0.59	0.33	0.00	0.22	0.00	0.00	0.00
17	0.00	0.65	0.01	0.00	2.52	0.00	1.39	0.01	0.00	0.00	0.00	0.31
18	0.00	1.04	0.07	0.00	1.28	0.11	0.00	0.19	0.00	0.00	0.00	0.02
19	0.00	0.07	0.00	0.00	0.78	0.32	0.73	0.00	0.05	0.00	0.00	0.00
20	0.00	0.00	0.27	0.00	0.65	0.00	0.00	0.00	0.00	0.01	0.00	0.00
21	0.00	0.00	0.13	0.00	0.11	0.00	0.02	0.00	0.00	0.00	0.00	0.00
22	0.00	0.01	0.08	0.01	0.00	0.00	0.50	0.00	0.00	0.00	0.00	0.02
23	0.00	0.00	0.48	0.00	0.24	0.01	1.03	0.18	0.04	0.67	0.00	1.07
24	0.00	0.00	0.00	0.00	0.92	0.00	0.57	0.00	0.00	0.02	0.00	0.68
25	0.00	0.01	0.00	0.00	0.03	0.49	0.01	0.31	0.21	0.00	0.00	0.22
26	0.00	0.00	0.00	0.01	0.00	0.19	0.50	0.00	0.05	0.00	0.00	0.65
27	0.00	0.00	0.06	0.01	0.00	0.19	0.69	0.13	0.59	0.00	0.00	0.00
28	0.00	0.01	0.00	0.56	0.00	0.65	0.08	0.01	0.59	0.00	0.00	0.00
29	0.00	0.00	0.00	0.49		1.45	0.00	0.00	0.01	0.00	0.00	0.06
30	0.02	0.24	0.00	0.46		0.33	0.00	0.00	0.00	0.00	0.91	0.01
31	0.18		0.06	0.16		0.00		0.00		0.00	0.00	
Total	2.16	6.30	3.52	7.61	13.88	15.10	7.29	4.77	2.07	0.76	1.82	3.16

Total Rainfall for Water Year 2014: 68.44

Notes:

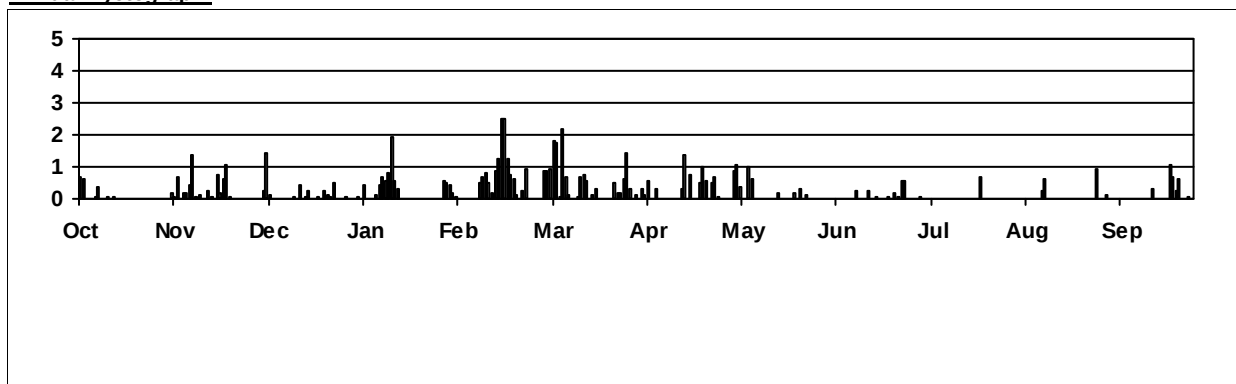
Precipitation is measured with a tipping bucket rain gauge. Ice and snow accumulations in the rain gauge are not measured until they melt.

Precipitation from snow is not measured accurately

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APPENDIX B – Groundwater



LRS7a--3804 93rd Ave SW

Water Year: 2014

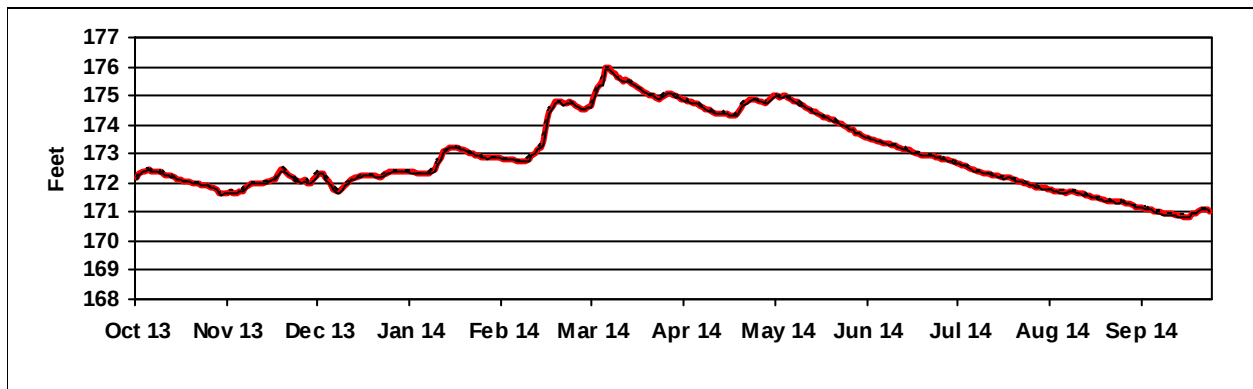
Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
01	172.17	171.63	172.25	172.38	172.86	174.55	175.03	174.80	173.84	172.83	171.92	171.33
02	172.31	171.68	172.35	172.37	172.84	174.52	174.98	174.74	173.73	172.80	171.88	171.29
03	172.41	171.66	172.34	172.37	172.82	174.58	174.93	174.79	173.70	172.78	171.87	171.28
04	172.43	171.65	172.17	172.35	172.81	174.63	174.88	174.94	173.66	172.74	171.82	171.23
05	172.45	171.70	172.03	172.34	172.79	174.93	174.84	174.98	173.59	172.71	171.82	171.18
06	172.43	171.73	171.92	172.30	172.78	175.28	174.81	174.99	173.55	172.68	171.78	171.18
07	172.42	171.85	171.80	172.33	172.76	175.37	174.77	174.96	173.52	172.65	171.76	171.16
08	172.40	171.94	171.68	172.34	172.72	175.58	174.74	174.98	173.48	172.61	171.73	171.12
09	172.37	171.98	171.68	172.38	172.72	175.95	174.70	175.00	173.45	172.59	171.71	171.09
10	172.33	171.99	171.85	172.45	172.74	175.95	174.65	174.96	173.40	172.55	171.68	171.08
11	172.29	172.00	171.95	172.68	172.82	175.85	174.59	174.90	173.36	172.49	171.68	171.03
12	172.27	172.01	172.04	172.88	172.94	175.74	174.55	174.83	173.34	172.46	171.66	170.99
13	172.23	172.01	172.11	173.05	173.03	175.62	174.50	174.77	173.33	172.41	171.72	170.99
14	172.19	172.02	172.16	173.15	173.14	175.61	174.46	174.70	173.30	172.40	171.70	170.93
15	172.13	172.06	172.20	173.20	173.24	175.52	174.41	174.64	173.28	172.36	171.69	170.92
16	172.11	172.10	172.24	173.23	173.43	175.53	174.39	174.58	173.24	172.33	171.67	170.92
17	172.08	172.14	172.26	173.22	174.15	175.48	174.42	174.53	173.20	172.31	171.64	170.92
18	172.07	172.24	172.25	173.19	174.48	175.42	174.40	174.49	173.18	172.27	171.61	170.90
19	172.04	172.46	172.26	173.16	174.64	175.38	174.38	174.43	173.14	172.25	171.59	170.86
20	172.01	172.44	172.24	173.13	174.78	175.29	174.33	174.36	173.12	172.23	171.56	170.86
21	171.99	172.33	172.23	173.08	174.80	175.24	174.32	174.31	173.06	172.21	171.53	170.85
22	171.97	172.25	172.19	173.04	174.77	175.15	174.30	174.26	173.03	172.16	171.50	170.84
23	171.95	172.18	172.22	173.01	174.70	175.10	174.38	174.24	173.00	172.18	171.47	170.85
24	171.92	172.10	172.30	172.97	174.76	175.03	174.62	174.18	172.98	172.17	171.46	170.97
25	171.90	172.04	172.34	172.94	174.77	175.00	174.71	174.15	172.95	172.14	171.42	170.97
26	171.87	172.04	172.37	172.91	174.74	174.94	174.78	174.11	172.93	172.10	171.40	171.04
27	171.87	172.11	172.38	172.88	174.68	174.88	174.87	174.06	172.93	172.07	171.37	171.08
28	171.77	172.00	172.39	172.85	174.62	174.92	174.89	174.02	172.93	172.04	171.35	171.07
29	171.65	172.01	172.40	172.90		175.02	174.87	173.97	172.90	172.00	171.34	171.07
30	171.61	172.10	172.40	172.90		175.07	174.83	173.91	172.87	171.98	171.34	171.04
31	171.62		172.38	172.86		175.09		173.87		171.93	171.35	

Avg Stage	172.11	172.01	172.17	172.80	173.65	175.23	174.64	174.53	173.27	172.37	171.61	171.03
Max Instantaneous	172	173	172	173	175	176	175	175	174	173	172	171
Max Mean Daily	172	172	172	173	175	176	175	175	174	173	172	171

Average Stage for Water Year 2014: 172.95

Thurston County, Water Resources Div, Technical Services Gp. 360-867-2070

Annual Stage (ft)-- Mean — Max ----- Min —



LRS8--8943 Walter Ct SW

Water Year: 2014

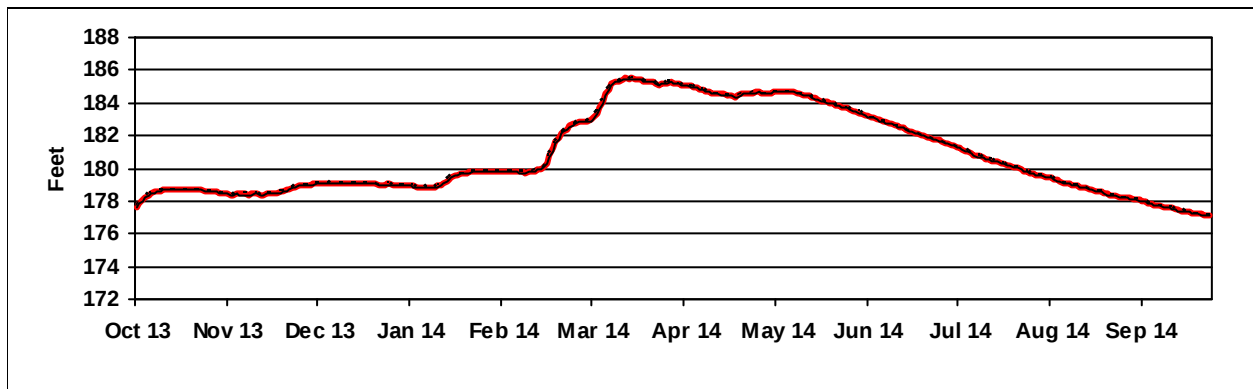
Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
01	177.67	178.46	179.08	178.96	179.82	182.83	185.25	184.60	183.54	181.62	179.71	178.20
02	177.89	178.41	179.10	178.98	179.82	182.85	185.19	184.53	183.49	181.54	179.62	178.22
03	178.07	178.38	179.10	178.91	179.81	182.87	185.17	184.55	183.41	181.49	179.60	178.17
04	178.23	178.45	179.12	178.89	179.81	182.95	185.12	184.62	183.34	181.42	179.54	178.11
05	178.37	178.42	179.13	178.89	179.82	183.11	185.07	184.67	183.26	181.36	179.48	178.07
06	178.47	178.42	179.14	178.89	179.85	183.38	185.02	184.69	183.18	181.28	179.45	178.05
07	178.54	178.42	179.11	178.85	179.82	183.73	185.01	184.69	183.10	181.24	179.40	177.99
08	178.60	178.41	179.10	178.85	179.77	184.06	184.97	184.72	183.07	181.16	179.33	177.95
09	178.65	178.42	179.11	178.83	179.76	184.55	184.91	184.72	183.00	181.09	179.28	177.89
10	178.68	178.43	179.13	178.87	179.74	184.88	184.86	184.71	182.94	181.03	179.23	177.86
11	178.69	178.43	179.14	178.92	179.82	185.14	184.83	184.70	182.89	180.96	179.13	177.80
12	178.72	178.39	179.12	178.98	179.80	185.28	184.75	184.67	182.81	180.84	179.10	177.75
13	178.73	178.41	179.09	179.11	179.87	185.35	184.70	184.62	182.75	180.74	179.06	177.72
14	178.74	178.44	179.11	179.26	179.92	185.36	184.64	184.59	182.71	180.74	179.02	177.66
15	178.75	178.48	179.10	179.38	179.99	185.39	184.58	184.51	182.66	180.66	178.98	177.63
16	178.74	178.45	179.11	179.49	180.06	185.50	184.55	184.45	182.57	180.60	178.94	177.58
17	178.74	178.44	179.12	179.58	180.36	185.48	184.53	184.42	182.49	180.53	178.89	177.56
18	178.75	178.50	179.11	179.63	180.82	185.50	184.52	184.36	182.45	180.48	178.84	177.50
19	178.74	178.54	179.08	179.69	181.23	185.49	184.46	184.28	182.37	180.47	178.80	177.44
20	178.72	178.59	179.12	179.73	181.60	185.43	184.45	184.21	182.30	180.40	178.74	177.43
21	178.71	178.67	179.05	179.75	181.90	185.41	184.45	184.15	182.23	180.32	178.69	177.38
22	178.71	178.77	179.02	179.76	182.14	185.35	184.39	184.11	182.16	180.26	178.63	177.35
23	178.68	178.85	179.00	179.79	182.30	185.31	184.43	184.04	182.08	180.22	178.58	177.32
24	178.65	178.90	179.00	179.79	182.44	185.31	184.54	183.99	182.04	180.15	178.54	177.29
25	178.62	178.93	179.03	179.81	182.59	185.29	184.60	183.97	181.99	180.11	178.48	177.25
26	178.59	178.98	179.04	179.83	182.70	185.22	184.63	183.90	181.94	180.08	178.43	177.22
27	178.62	179.01	179.01	179.81	182.77	185.11	184.62	183.85	181.87	180.02	178.38	177.20
28	178.56	179.01	179.01	179.84	182.83	185.15	184.64	183.77	181.83	179.94	178.34	177.19
29	178.51	179.02	179.02	179.84		185.20	184.65	183.72	181.76	179.86	178.30	177.16
30	178.49	179.05	179.01	179.82		185.25	184.67	183.68	181.71	179.79	178.27	177.12
31	178.44		178.97	179.80		185.29		183.59		179.74	178.24	

Avg Stage	178.55	178.60	179.08	179.37	180.76	184.74	184.74	184.33	182.60	180.65	178.94	177.64
Max Instantaneous	179	179	179	180	183	186	185	185	184	182	180	178
Max Mean Daily	179	179	179	180	183	186	185	185	184	182	180	178

Average Stage for Water Year 2014: 180.83

Thurston County, Water Resources Div, Technical Services Gp. 360-867-2070

Annual Stage (ft)-- Mean — Max ----- Min —



LRS9--2729 93rd Ave SW (Lathrop)

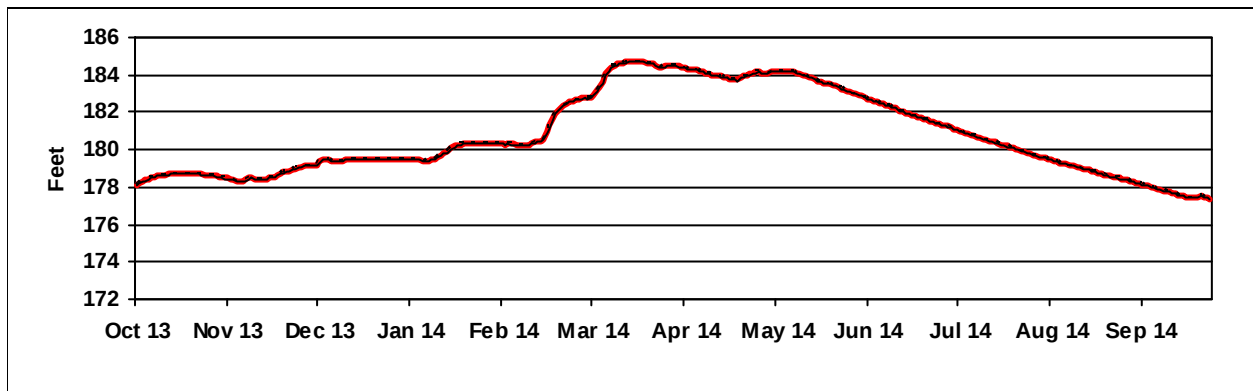
Water Year: 2014

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
01	178.08	178.48	179.21	179.48	180.34	182.75	184.50	184.11	183.05	181.35	179.74	178.38
02	178.20	178.46	179.36	179.48	180.32	182.76	184.48	184.07	183.00	181.30	179.69	178.36
03	178.30	178.45	179.47	179.45	180.28	182.77	184.46	184.07	182.94	181.25	179.64	178.33
04	178.37	178.35	179.45	179.44	180.30	182.80	184.42	184.16	182.87	181.18	179.59	178.26
05	178.45	178.34	179.43	179.44	180.29	182.95	184.38	184.18	182.80	181.13	179.55	178.22
06	178.52	178.33	179.42	179.40	180.29	183.17	184.34	184.19	182.73	181.08	179.50	178.20
07	178.56	178.39	179.40	179.41	180.26	183.38	184.32	184.16	182.68	181.02	179.45	178.14
08	178.60	178.47	179.36	179.42	180.22	183.68	184.29	184.19	182.63	180.97	179.40	178.10
09	178.63	178.48	179.38	179.44	180.19	184.04	184.25	184.21	182.57	180.91	179.36	178.04
10	178.65	178.46	179.41	179.47	180.19	184.28	184.19	184.21	182.50	180.86	179.31	178.01
11	178.67	178.45	179.44	179.59	180.25	184.44	184.17	184.17	182.45	180.80	179.26	177.95
12	178.68	178.44	179.45	179.69	180.35	184.53	184.12	184.14	182.39	180.75	179.23	177.90
13	178.69	178.44	179.46	179.78	180.40	184.58	184.07	184.10	182.33	180.70	179.21	177.87
14	178.69	178.46	179.48	179.87	180.44	184.59	184.02	184.06	182.28	180.64	179.17	177.82
15	178.69	178.50	179.48	179.97	180.49	184.62	183.98	184.00	182.23	180.58	179.14	177.78
16	178.71	178.53	179.50	180.09	180.55	184.67	183.94	183.93	182.16	180.54	179.09	177.74
17	178.71	178.54	179.50	180.18	180.94	184.70	183.92	183.90	182.09	180.48	179.04	177.70
18	178.71	178.61	179.50	180.24	181.26	184.73	183.90	183.83	182.05	180.43	179.00	177.65
19	178.71	178.74	179.49	180.28	181.68	184.74	183.84	183.75	181.98	180.39	178.95	177.60
20	178.70	178.79	179.50	180.32	181.98	184.71	183.80	183.69	181.92	180.33	178.91	177.57
21	178.69	178.83	179.47	180.33	182.18	184.72	183.78	183.63	181.87	180.28	178.86	177.54
22	178.68	178.88	179.46	180.35	182.30	184.68	183.72	183.59	181.82	180.23	178.81	177.49
23	178.68	178.95	179.45	180.36	182.39	184.64	183.73	183.55	181.76	180.19	178.76	177.46
24	178.66	179.00	179.48	180.37	182.47	184.63	183.87	183.50	181.70	180.15	178.73	177.47
25	178.64	179.05	179.50	180.36	182.57	184.60	183.92	183.44	181.65	180.09	178.67	177.45
26	178.62	179.09	179.50	180.35	182.63	184.53	184.01	183.39	181.61	180.04	178.63	177.46
27	178.63	179.13	179.49	180.35	182.67	184.45	184.05	183.33	181.55	179.99	178.58	177.55
28	178.58	179.14	179.48	180.35	182.72	184.45	184.11	183.27	181.51	179.95	178.55	177.49
29	178.53	179.15	179.49	180.36		184.47	184.15	183.21	181.44	179.90	178.51	177.43
30	178.50	179.18	179.49	180.37		184.51	184.17	183.16	181.39	179.84	178.47	177.38
31	178.47		179.47	180.34		184.52		183.09		179.79	178.43	
Avg Stage	178.58	178.67	179.45	179.95	181.11	184.16	184.10	183.82	182.20	180.55	179.07	177.81
Max Instantaneous	179	179	180	180	183	185	185	184	183	181	180	178
Max Mean Daily	179	179	180	180	183	185	185	184	183	181	180	178

Average Stage for Water Year 2014: 180.79

Thurston County, Water Resources Div, Technical Services Gp. 360-867-2070

Annual Stage (ft)-- Mean — Max ----- Min —



04/02/2015 10:16:26 AM

LRS11a--9605 Tilley Rd S

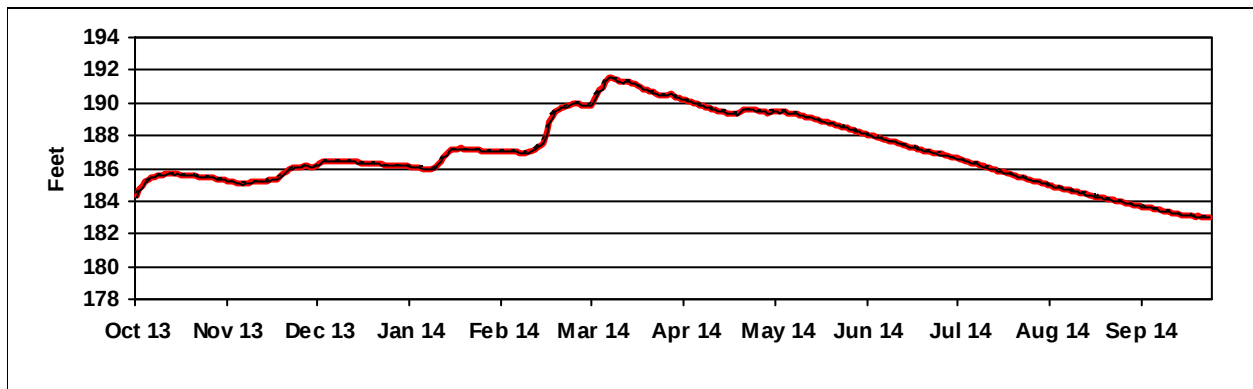
Water Year: 2014

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
01	184.36	185.25	186.17	186.13	187.02	189.86	190.46	189.48	188.36	186.88	185.26	183.90
02	184.70	185.25	186.29	186.12	187.02	189.82	190.38	189.43	188.31	186.83	185.21	183.86
03	184.96	185.21	186.39	186.09	187.00	189.86	190.33	189.41	188.25	186.78	185.16	183.83
04	185.17	185.13	186.40	186.07	187.05	189.90	190.26	189.43	188.19	186.71	185.10	183.78
05	185.33	185.06	186.43	186.05	187.03	190.11	190.20	189.45	188.12	186.67	185.06	183.74
06	185.44	185.03	186.46	186.00	187.04	190.52	190.13	189.45	188.07	186.62	185.01	183.71
07	185.51	185.10	186.46	185.95	187.01	190.79	190.08	189.42	188.00	186.56	184.97	183.67
08	185.57	185.12	186.45	185.96	186.97	190.96	190.03	189.43	187.96	186.52	184.90	183.63
09	185.61	185.15	186.45	185.97	186.94	191.36	189.96	189.44	187.90	186.46	184.86	183.59
10	185.63	185.16	186.45	186.03	186.94	191.53	189.89	189.41	187.85	186.41	184.81	183.57
11	185.64	185.18	186.44	186.23	186.98	191.54	189.84	189.39	187.79	186.35	184.74	183.51
12	185.66	185.19	186.42	186.47	187.06	191.48	189.76	189.36	187.73	186.29	184.69	183.47
13	185.64	185.22	186.40	186.71	187.16	191.39	189.69	189.32	187.68	186.26	184.67	183.44
14	185.64	185.23	186.39	186.90	187.27	191.34	189.62	189.27	187.64	186.20	184.62	183.39
15	185.65	185.28	186.37	187.04	187.39	191.26	189.56	189.23	187.60	186.13	184.58	183.36
16	185.63	185.30	186.36	187.14	187.56	191.29	189.50	189.17	187.54	186.09	184.55	183.33
17	185.61	185.31	186.35	187.19	188.28	191.28	189.47	189.12	187.48	186.02	184.51	183.29
18	185.60	185.38	186.34	187.22	188.85	191.23	189.43	189.08	187.45	185.97	184.46	183.26
19	185.58	185.53	186.30	187.23	189.23	191.16	189.41	189.02	187.39	185.92	184.42	183.21
20	185.55	185.68	186.32	187.22	189.47	191.06	189.37	188.96	187.34	185.86	184.39	183.19
21	185.53	185.81	186.28	187.20	189.63	190.98	189.34	188.90	187.29	185.81	184.34	183.15
22	185.51	185.91	186.25	187.17	189.72	190.88	189.31	188.86	187.24	185.77	184.29	183.12
23	185.49	186.01	186.25	187.16	189.76	190.79	189.32	188.81	187.18	185.73	184.25	183.10
24	185.46	186.06	186.24	187.13	189.80	190.71	189.48	188.75	187.14	185.69	184.22	183.10
25	185.43	186.08	186.24	187.11	189.88	190.65	189.57	188.72	187.08	185.63	184.17	183.06
26	185.41	186.11	186.24	187.08	189.95	190.57	189.61	188.67	187.04	185.58	184.13	183.07
27	185.39	186.14	186.22	187.04	189.96	190.48	189.60	188.61	187.00	185.51	184.08	183.05
28	185.36	186.14	186.20	187.02	189.93	190.45	189.57	188.56	186.97	185.48	184.05	183.03
29	185.33	186.12	186.20	187.05		190.47	189.55	188.51	186.91	185.42	184.00	183.01
30	185.30	186.12	186.18	187.02		190.51	189.52	188.46	186.86	185.37	183.97	182.98
31	185.27		186.16	187.01		190.54		188.40		185.32	183.94	
Avg Stage	185.42	185.51	186.33	186.70	188.14	190.80	189.74	189.08	187.58	186.09	184.56	183.38
Max Instantaneous	186	186	186	187	190	192	190	189	188	187	185	184
Max Mean Daily	186	186	186	187	190	192	190	189	188	187	185	184

Average Stage for Water Year 2014: 186.94

Thurston County, Water Resources Div, Technical Services Gp. 360-867-2070

Annual Stage (ft)-- Mean — Max ----- Min —



LRS12--9411 SW Kimmie St

Water Year: 2014

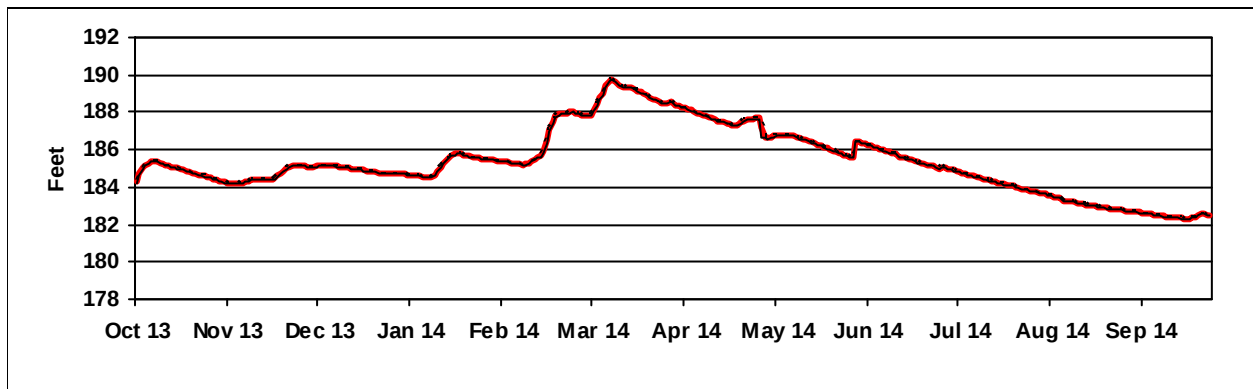
Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
01	184.31	184.21	185.13	184.66	185.40	187.87	188.43	187.20	185.54	185.09	183.77	182.73
02	184.71	184.22	185.15	184.64	185.38	187.81	188.38	186.63	186.49	185.04	183.73	182.75
03	185.01	184.18	185.16	184.62	185.36	187.85	188.33	186.63	186.44	185.00	183.70	182.72
04	185.21	184.25	185.16	184.60	185.34	187.88	188.27	186.68	186.37	184.94	183.66	182.68
05	185.31	184.23	185.17	184.58	185.31	188.09	188.21	186.71	186.31	184.90	183.63	182.66
06	185.36	184.21	185.17	184.55	185.30	188.48	188.15	186.75	186.25	184.86	183.59	182.65
07	185.36	184.32	185.15	184.54	185.28	188.77	188.10	186.75	186.19	184.81	183.55	182.62
08	185.35	184.35	185.11	184.56	185.24	189.00	188.04	186.77	186.14	184.77	183.50	182.61
09	185.31	184.37	185.08	184.57	185.21	189.40	187.99	186.78	186.07	184.72	183.48	182.58
10	185.26	184.37	185.06	184.65	185.22	189.68	187.92	186.77	186.02	184.67	183.44	182.56
11	185.21	184.38	185.04	184.87	185.29	189.72	187.87	186.73	185.97	184.62	183.28	182.52
12	185.16	184.39	185.01	185.09	185.38	189.66	187.81	186.72	185.91	184.58	183.26	182.49
13	185.10	184.39	184.99	185.31	185.46	189.54	187.73	186.66	185.86	184.54	183.27	182.48
14	185.05	184.40	184.97	185.49	185.56	189.47	187.68	186.62	185.80	184.49	183.22	182.45
15	185.01	184.42	184.94	185.62	185.67	189.38	187.61	186.56	185.76	184.44	183.20	182.43
16	184.96	184.45	184.92	185.70	185.87	189.36	187.54	186.51	185.70	184.40	183.17	182.41
17	184.91	184.48	184.90	185.75	186.50	189.34	187.52	186.46	185.64	184.36	183.14	182.39
18	184.87	184.58	184.88	185.76	187.10	189.30	187.47	186.39	185.60	184.32	183.10	182.37
19	184.82	184.76	184.84	185.75	187.51	189.25	187.43	186.32	185.54	184.28	183.07	182.34
20	184.77	184.89	184.84	185.74	187.78	189.16	187.37	186.25	185.49	184.23	183.05	182.33
21	184.72	185.01	184.81	185.69	187.91	189.08	187.35	186.19	185.44	184.20	183.02	182.30
22	184.67	185.09	184.78	185.65	187.97	188.98	187.32	186.13	185.38	184.15	182.99	182.29
23	184.62	185.14	184.77	185.63	187.96	188.90	187.33	186.07	185.33	184.12	182.96	182.30
24	184.58	185.16	184.76	185.59	187.97	188.80	187.47	186.02	185.29	184.09	182.94	182.42
25	184.53	185.16	184.76	185.54	188.00	188.74	187.54	185.96	185.23	184.04	182.90	182.40
26	184.48	185.15	184.75	185.51	188.02	188.65	187.60	185.90	185.20	184.00	182.87	182.53
27	184.44	185.13	184.74	185.48	187.99	188.56	187.65	185.83	185.15	183.96	182.85	182.59
28	184.40	185.09	184.73	185.44	187.94	188.51	187.67	185.78	185.11	183.93	182.82	182.56
29	184.35	185.05	184.71	185.49		188.50	187.69	185.72	185.06	183.89	182.80	182.53
30	184.30	185.02	184.70	185.44		188.52	187.68	185.66	185.00	183.85	182.79	182.50
31	184.26		184.68	185.42		188.55		185.60		183.81	182.77	

Avg Stage	184.85	184.63	184.93	185.22	186.39	188.86	187.77	186.38	185.71	184.42	183.21	182.51
Max Instantaneous	185	185	185	186	188	190	188	188	186	185	184	183
Max Mean Daily	185	185	185	186	188	190	188	187	186	185	184	183

Average Stage for Water Year 2014: 185.41

Thurston County, Water Resources Div, Technical Services Gp. 360-867-2070

Annual Stage (ft)-- Mean — Max ----- Min —



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MW3--3623 104TH Ave SW (Jones)

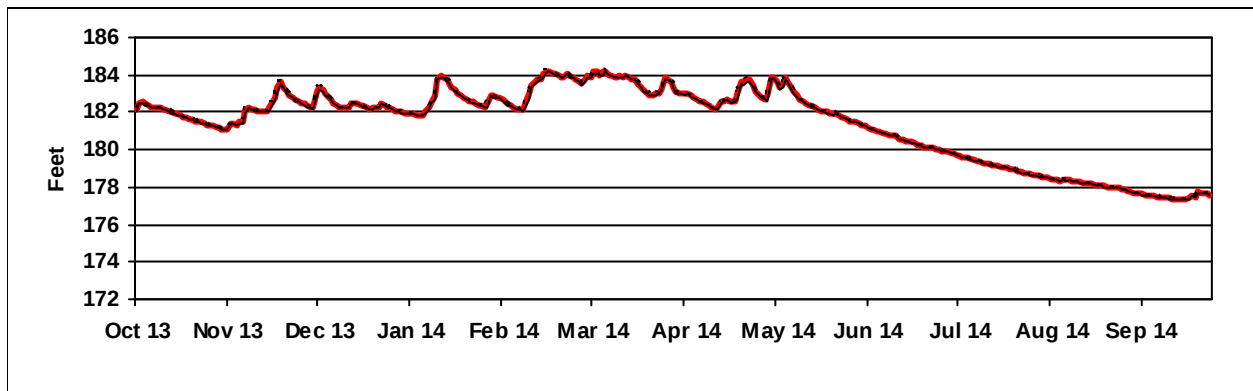
Water Year: 2014

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
01	182.15	181.12	183.12	181.93	182.77	183.52	183.37	182.79	181.50	179.96	178.66	177.89
02	182.52	181.41	183.33	181.95	182.66	183.74	183.11	182.66	181.47	179.91	178.61	177.76
03	182.54	181.41	183.20	181.91	182.54	183.94	183.04	182.94	181.41	179.88	178.59	177.73
04	182.43	181.35	182.99	181.86	182.42	183.90	182.98	183.82	181.33	179.82	178.55	177.70
05	182.36	181.46	182.80	181.82	182.34	184.13	183.01	183.89	181.26	179.78	178.53	177.67
06	182.28	181.53	182.67	181.84	182.28	184.18	183.01	183.64	181.20	179.73	178.48	177.66
07	182.25	182.14	182.52	182.02	182.19	183.98	182.85	183.30	181.13	179.69	178.45	177.63
08	182.25	182.28	182.37	182.27	182.12	184.19	182.79	183.54	181.07	179.63	178.42	177.61
09	182.23	182.18	182.28	182.52	182.13	184.17	182.70	183.81	181.01	179.59	178.38	177.58
10	182.16	182.11	182.24	182.86	182.47	184.02	182.60	183.66	180.95	179.54	178.33	177.57
11	182.10	182.04	182.22	183.79	183.00	183.94	182.53	183.33	180.89	179.48	178.38	177.53
12	182.09	182.06	182.30	183.92	183.42	183.88	182.43	183.09	180.84	179.44	178.37	177.50
13	182.00	182.07	182.44	183.86	183.60	183.84	182.35	182.86	180.81	179.39	178.42	177.48
14	181.93	182.04	182.43	183.73	183.71	183.94	182.27	182.69	180.76	179.36	178.35	177.45
15	181.89	182.28	182.45	183.57	183.80	183.90	182.20	182.55	180.72	179.31	178.34	177.42
16	181.82	182.54	182.39	183.37	184.06	183.95	182.23	182.45	180.66	179.25	178.31	177.41
17	181.75	182.76	182.32	183.19	184.23	183.87	182.58	182.36	180.59	179.22	178.27	177.39
18	181.72	183.33	182.23	183.03	184.23	183.78	182.57	182.33	180.54	179.19	178.24	177.39
19	181.66	183.62	182.15	182.92	184.10	183.78	182.67	182.27	180.49	179.15	178.23	177.35
20	181.60	183.35	182.25	182.80	184.06	183.58	182.60	182.17	180.44	179.11	178.19	177.34
21	181.56	183.07	182.24	182.69	183.96	183.37	182.53	182.08	180.39	179.06	178.16	177.32
22	181.51	182.90	182.21	182.60	183.88	183.18	182.60	182.01	180.33	179.02	178.12	177.31
23	181.46	182.77	182.44	182.54	183.87	183.05	182.96	182.00	180.26	179.01	178.09	177.44
24	181.40	182.65	182.38	182.47	184.06	182.95	183.63	181.93	180.22	178.98	178.09	177.57
25	181.35	182.54	182.31	182.40	183.93	182.92	183.61	181.94	180.17	178.93	178.04	177.49
26	181.31	182.47	182.23	182.34	183.86	183.00	183.73	181.93	180.14	178.90	178.00	177.72
27	181.29	182.42	182.15	182.28	183.77	183.00	183.73	181.83	180.13	178.84	177.98	177.70
28	181.23	182.33	182.08	182.50	183.68	183.26	183.40	181.76	180.10	178.81	177.96	177.67
29	181.17	182.24	182.05	182.92		183.81	183.12	181.70	180.06	178.78	177.94	177.65
30	181.10	182.30	182.01	182.87		183.77	182.93	181.64	180.02	178.74	177.96	177.61
31	181.09		181.97	182.81		183.65		181.56		178.69	177.92	
Avg Stage	181.81	182.29	182.41	182.70	183.33	183.68	182.87	182.60	180.70	179.30	178.27	177.55
Max Instantaneous	183	184	183	184	184	184	184	184	182	180	179	178
Max Mean Daily	183	184	183	184	184	184	184	184	182	180	179	178

Average Stage for Water Year 2014: 181.46

Thurston County, Water Resources Div, Technical Services Gp. 360-867-2070

Annual Stage (ft)-- Mean — Max ----- Min —



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MW5--800 93rd Ave SE

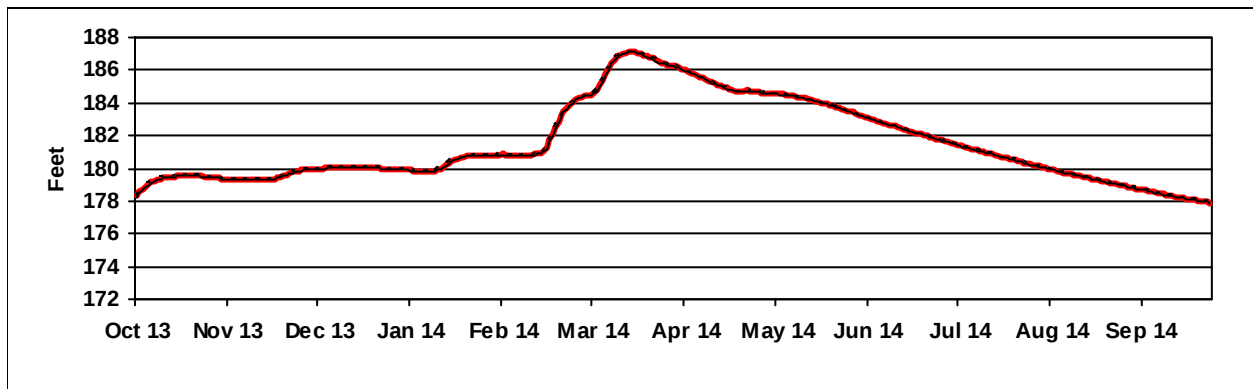
Water Year: 2014

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
01	178.35	179.33	179.99	179.90	180.85	184.38	186.32	184.64	183.42	181.71	180.23	178.93
02	178.55	179.31	180.00	179.89	180.86	184.40	186.23	184.61	183.32	181.66	180.18	178.88
03	178.73	179.29	180.00	179.87	180.85	184.42	186.18	184.58	183.27	181.62	180.13	178.85
04	178.89	179.32	180.01	179.84	180.84	184.46	186.09	184.56	183.21	181.55	180.09	178.80
05	179.04	179.34	180.03	179.84	180.83	184.57	186.00	184.55	183.14	181.51	180.05	178.77
06	179.15	179.32	180.05	179.82	180.85	184.79	185.91	184.54	183.08	181.45	180.00	178.74
07	179.24	179.32	180.05	179.81	180.84	185.09	185.85	184.53	183.02	181.41	179.95	178.70
08	179.32	179.32	180.04	179.82	180.81	185.38	185.78	184.52	182.97	181.35	179.91	178.67
09	179.38	179.33	180.05	179.81	180.78	185.77	185.69	184.49	182.91	181.31	179.86	178.61
10	179.43	179.33	180.06	179.82	180.76	186.15	185.60	184.46	182.86	181.27	179.82	178.59
11	179.46	179.33	180.07	179.89	180.79	186.45	185.53	184.43	182.80	181.21	179.75	178.54
12	179.49	179.31	180.07	179.99	180.81	186.70	185.44	184.41	182.74	181.16	179.72	178.50
13	179.50	179.32	180.06	180.12	180.86	186.86	185.35	184.38	182.68	181.10	179.69	178.47
14	179.51	179.34	180.07	180.25	180.90	186.94	185.26	184.35	182.63	181.07	179.64	178.42
15	179.54	179.36	180.06	180.36	180.96	187.00	185.19	184.32	182.60	181.02	179.61	178.39
16	179.54	179.36	180.07	180.47	181.01	187.08	185.11	184.28	182.53	180.96	179.57	178.36
17	179.55	179.37	180.08	180.55	181.27	187.10	185.03	184.24	182.46	180.92	179.53	178.34
18	179.56	179.41	180.08	180.61	181.71	187.12	184.96	184.20	182.42	180.87	179.49	178.29
19	179.55	179.48	180.06	180.68	182.14	187.11	184.89	184.14	182.35	180.82	179.46	178.24
20	179.54	179.56	180.07	180.72	182.54	187.04	184.82	184.08	182.30	180.78	179.41	178.22
21	179.54	179.63	180.04	180.74	182.91	186.99	184.79	184.02	182.24	180.73	179.37	178.18
22	179.53	179.71	180.02	180.76	183.22	186.91	184.72	183.98	182.19	180.68	179.32	178.15
23	179.52	179.77	180.00	180.79	183.49	186.84	184.69	183.93	182.12	180.65	179.28	178.12
24	179.51	179.82	179.99	180.81	183.69	186.78	184.70	183.87	182.09	180.59	179.25	178.09
25	179.48	179.84	179.99	180.82	183.90	186.73	184.76	183.82	182.03	180.54	179.19	178.06
26	179.46	179.89	179.99	180.83	184.07	186.62	184.78	183.76	182.00	180.49	179.15	178.02
27	179.46	179.92	179.98	180.83	184.21	186.49	184.74	183.69	181.94	180.45	179.12	178.00
28	179.43	179.94	179.96	180.83	184.32	186.42	184.69	183.64	181.89	180.40	179.08	177.99
29	179.40	179.95	179.94	180.85		186.38	184.69	183.58	181.83	180.36	179.04	177.96
30	179.38	179.96	179.94	180.85		186.35	184.68	183.54	181.77	180.31	179.01	177.92
31	179.34		179.92	180.84		186.34		183.48		180.26	178.97	
Avg Stage	179.33	179.52	180.02	180.36	181.82	186.18	185.28	184.18	182.56	180.97	179.58	178.39
Max Instantaneous	180	180	180	181	184	187	186	185	183	182	180	179
Max Mean Daily	180	180	180	181	184	187	186	185	183	182	180	179

Average Stage for Water Year 2014: 181.52

Thurston County, Water Resources Div, Technical Services Gp. 360-867-2070

Annual Stage (ft)-- Mean — Max ----- Min —



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Appendix C - Lake Levels (Lake St. Clair 25-Year Historical Chart)



Lake Saint Clair

Water Elevations Observed at Peninsula Dr Bridge & Olympia's Data Logger

