Streamflow Conditions in Washington State as of December 7-9, 2020

Presented to The Washington State Water Supply Availability Committee on December 11, 2020

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7-day Average Streamflow

Map showing streamflow data for Tuesday, December 08, 2020, across different regions with various color codes indicating the percentile classes.
Below Normal 7-day Average Streamflow

Explanation - Percentile classes

- Low
- <=5
- 6-9
- 10-24

- Extreme hydrologic drought
- Severe hydrologic drought
- Moderate hydrologic drought
- Below normal
As of December 9, 2020, statewide 7-day average flows are between the 10th and 24th percentile, which is below normal.
Chehalis River near Doty

USGS 12020000 CHEHALIS RIVER NEAR DOTY, WA
(Drainage area: 113 square miles, length of record: 80 - 81 years)

7-day average discharge, in cubic feet per second

USGS WaterWatch

Last updated: 2020-12-09

Explanation - Percentile classes

<table>
<thead>
<tr>
<th>Flow</th>
<th>Percentile</th>
</tr>
</thead>
<tbody>
<tr>
<td>Much below</td>
<td>10th percentile</td>
</tr>
<tr>
<td>Below normal</td>
<td>10-24</td>
</tr>
<tr>
<td>Normal</td>
<td>25-75</td>
</tr>
<tr>
<td>Above normal</td>
<td>75-90</td>
</tr>
<tr>
<td>95</td>
<td>90th percentile</td>
</tr>
<tr>
<td>90th highest</td>
<td>90th percentile</td>
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</tbody>
</table>

Flow
Index Gaging Stations, 7-day average streamflow (as of December 8, 2020)
Daily streamflow in Washington Rivers compared to historical streamflow on that date, June 5 – Dec. 7, 2020

- Early Summer Rain and Snowmelt
- Dry Late Summer
- Wet Fall
- Dry late Nov/early Dec
(2001, ’05 & ‘15 were years of statewide drought in Washington)
Average Nov. 2001, ‘05, ‘15 & ‘20 Streamflow
(2001, ‘05 & ‘15 were years of statewide drought in Washington)
Groundwater Conditions as of Dec. 8, 2020

Groundwater Watch:

Davenport well (east)
- 117-ft deep
- Wanapum Basalt

Scatter Creek well (west)
- 82-ft deep
- Sand and gravel
Chehalis River near Doty, which serves to inform on Ryderwood’s water supply, is below normal (comparable to last year in early December).

7-day average streamflow statewide is **Below Normal** (between the 10th and 24th percentile), though this is recent. Most of water year 2021 has been **Normal**.

Daily mean streamflow is **Below Normal** at 55% of stations (Dec. 7, 2020)

7-day average streamflow at eight index gaging stations:
- West side: Four sites are **Below Normal**, and one site is **Normal**.
- East side: Two sites are **Normal**, and one is **Below Normal**.
- South and Southwest WA most affected by recent dry period.

The index groundwater well levels showed both the Davenport (east) and Scatter Creek (west) wells are right at the historical daily median for this time of the year.