## North Santiam Watershed Drought Stage Calculator

| Month | October 2026 |
|---|---|

| Indicator | Value | Drought Stage | Source |
|---|---|---|---|
| Air temperature | 2.8 | 2 | https://www.nwrfc.noaa.gov/water_supply/wy_summary/wy_summary.php?tab=6 |
| Precipitation | 45 | 3 | https://www.nwrfc.noaa.gov/water_supply/wy_summary/wy_summary.php?tab=4 |
| Snowpack | | | https://www.wcc.nrcs.usda.gov/ftpref/nwcc/basin-rpt/ |
| Detroit Reservoir (+/- WCD) | -22.5 | 3 | https://public.crohms.org/nwp/teacup/willamette/ |
| Streamflow (Greens Bridge) | 10-24 (Below Normal) | 1 | https://dashboard.waterdata.usgs.gov/app/nwd/en/?aoi=huc-1709&view=default |
| Streamflow (Mehama) | >24 | 0 | https://dashboard.waterdata.usgs.gov/app/nwd/en/?aoi=huc-1709&view=default |
| Streamflow (Boulder Creek) | <=5 (Severe Drought) | 3 | https://dashboard.waterdata.usgs.gov/app/nwd/en/?aoi=huc-1709&view=default |
| Water temperature (Greens Bridge) | 12.9 | 1 | https://waterdata.usgs.gov/monitoring-location/USGS-14184100/#period=P7D&dataTypeId=continuous-00010-0&showFieldMeasurements=true |
| Water temperature (Boulder Creek) | 7.9 | 0 | https://waterdata.usgs.gov/monitoring-location/USGS-14178000/#period=P7D&dataTypeId=continuous-00010-0&showFieldMeasurements=true |
| Water temperature (Little North Santiam) | 9.9 | 0 | https://waterdata.usgs.gov/monitoring-location/USGS-14181900/#period=P7D&dataTypeId=continuous-00010-0&showFieldMeasurements=true |
| Wildfire hazard | Low | 0 | https://www.fs.usda.gov/r06/willamette/fire |
| Boat ramps (Detroit elevation in ft) | | | https://public.crohms.org/nwp/teacup/willamette/ |
| Salem water supply (Mehama) | 2270 | 0 | https://waterdata.usgs.gov/monitoring-location/USGS-14183000/#period=P1Y&dataTypeId=daily-00060-0&showFieldMeasurements=false |

| | |
|---|---|
| Number of Indicators | 11 |
| Average for drought stage | 1.182 |
| **Drought Stage** | **1** |

Climate Indicators

| Drought Stage | Air temperature (1 month departure from normal, °F): Santiam River basin, year-round | Precipitation (% normal for water year): Santiam River basin, October - May | Precipitation (% normal for water year): Santiam River basin, April - September |
|---|---|---|---|
| 0 | <0.5 | 81+ | 86+ |
| 1 | 0-2 | 71-80 | 81-85 |
| 2 | 2-4 | 61-70 | 71-80 |
| 3 | 4-6 | 41-60 | 61-70 |
| 4 | 6+ | 40 or < | 60 or < |

Hydrologic Indicators

| Drought Stage | Snowpack (% normal snow water equivalent): North Santiam, December - February | Snowpack (% normal snow water equivalent): North Santiam, March - May |
|---|---|---|
| 0 | 71+ | 86+ |
| 1 | 61-70 | 71-85 |
| 2 | 51-60 | 61-70 |
| 3 | 21-50 | 51-60 |
| 4 | 20 or < | 50 or < |

| Drought Stage | Detroit Reservoir level (% above water control diagram): February - May | Detroit Reservoir level (% above water control diagram): June - October |
|---|---|---|
| 0 | >-3 | >-3 |
| 1 | -3 to -10 | -3 to -10 |
| 2 | -11 to -30 | -11 to -20 |
| 3 | -31 to -50 | -21 to -35 |
| 4 | -51 or < | -36 or < |

| Drought Stage | Streamflow (USGS 7-day flow class and percentile): Greens Bridge, year-round | Streamflow (USGS 7-day flow class and percentile): Mehama, year-round | Streamflow (USGS 7-day flow class and percentile): Boulder Creek, year-round |
|---|---|---|---|
| 0 | >24 | >24 | >24 |
| 1 | 10-24 (Below Normal) | 10-24 (Below Normal) | 10-24 (Below Normal) |
| 2 | 6-9 (Moderate Drought) | 6-9 (Moderate Drought) | 6-9 (Moderate Drought) |
| 3 | <=5 (Severe Drought) | <=5 (Severe Drought) | <=5 (Severe Drought) |
| 4 | New low (Extreme drought) | New low (Extreme drought) | New low (Extreme drought) |

Environmental Indicators

| Drought Stage | Water temperature (above TMDL threshold, °C): Greens Bridge, September 1 - June 15 | Water temperature (above TMDL threshold, °C): Greens Bridge, June 16 - August 31 | Water temperature (above TMDL threshold, °C): Boulder Creek, year-round |
|---|---|---|---|
| 0 | <-1.0 | <-1.0 | <-1.0 |
| 1 | -1.0 to 0 | -1.0 to 0 | -1.0 to 0 |
| 2 | 0.1 to 2.0 | 0.1 to 2.0 | 0.1 to 2.0 |
| 3 | 2.1 to 4.0 | 2.1 to 4.0 | 2.1 to 4.0 |
| 4 | 4.1+ | 4.1+ | 4.1+ |

| Drought Stage | Water temperature (above TMDL threshold, °C): Little North Santiam, September - June | Water temperature (above TMDL threshold, °C): Little North Santiam, year-round |
|---|---|---|
| 0 | <-1.0 | <-1.0 |
| 1 | -1.0 to 0 | -1.0 to 0 |
| 2 | 0.1 to 2.0 | 0.1 to 2.0 |
| 3 | 2.1 to 4.0 | 2.1 to 4.0 |
| 4 | 4.1+ | 4.1+ |

| Drought Stage | Wildfire hazard (National Fire Danger Rating System): Willamette National Forest, year-round |
|---|---|
| 0 | Low |
| 1 | Moderate |
| 2 | High |
| 3 | Very High |
| 4 | Extreme |

Socioeconomic Indicators

| Drought Stage | Boat ramps served (feet): Detroit Reservoir, April - September | Salem water supply (7-day average streamflow, cfs): USGS gage at Mehama, year-round |
|---|---|---|
| 0 | >1558 | >1000 |
| 1 | 1558-1556 | 901-1000 |
| 2 | 1555-1540 | 801-900 |
| 3 | 1539-1450 | 701-800 |
| 4 | <1450 | 700 or < |