

WRIA 8 Cedar-Sammamish Watershed Water Availability



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What is a watershed? Washington is divided into 62 major watersheds or Water Resource Inventory Areas (WRIAs), which are areas that each capture precipitation and funnel rain and snowmelt through smaller subbasins into streams, tributaries, and rivers and typically drain to marine waters or the Columbia River.

Introduction to WRIA 8

The Cedar-Sammamish Watershed or Water Resource Inventory Area (WRIA) 8 is defined as the area that drains to the Lake Washington Ship Canal, Chittenden Locks, and out to Puget Sound. It includes the Cedar River, Lake Sammamish, the Sammamish River, Lake Washington, Lake Union, and all tributary streams.

The watershed is located in the central Puget Sound area, and includes northwestern and central portions of King County. WRIA 8 has the greatest urban development and population density of any watershed in Washington State, and is the source for much of the drinking water for the greater Seattle area.

How can I get water?

Depending on your proposal, you may have more than one option to acquire a reliable water supply:

- Connecting to an existing water system is usually the fastest and easiest option if your project is within the system's service area.
- Using a permit-exempt well if you meet the limits under state law.
- Purchasing an existing water right and transferring it to the new use.
- Applying for a new water right, which may need mitigation.



See *Options for Acquiring Water* section for more information about water right permit options and when to meet with Ecology staff.



Washington Water Law Waters of the state belong to the public and can't be owned by any one individual or group. Water right holders have the right to use water, from a set source, for a particular purpose, in a specific location.

The Department of Ecology is responsible for managing the water resources of the state, including issuing the right to use water as well as protecting the instream resources for the benefit of the public.

Washington water law is based on the "prior appropriation" system, often called "first in time, first in right." New water rights may not harm older water rights. Applications for water from the same source must be processed in the order they are received, although there are certain exceptions.

Applicable Laws and Regulations

- RCW 90.03: Washington Water Code
- RCW 90.44: Regulation of Public Groundwaters
- RCW 90.54: Water Resources Act of 1971
- RCW 90.94: Streamflow Restoration
- WAC 173-508: The Instream Flow Rule for WRIA 8

Water Availability Factors

Due to Washington's varied land uses, hydrology, and precipitation levels, water availability for new water right permits varies dramatically across the state. In the Cedar-Sammamish Watershed, key factors affecting water availability include:

- Instream flow rule
- Existing water rights, including unquantified Tribal rights
- Seawater intrusion
- Precipitation

Instream flow rule

Instream flow rules are an element of water and river management that help maintain healthy ecosystems that support fish, communities, and economies. WRIA 8 has an instream flow rule, adopted in 1979, to preserve the uses and values of individual rivers and streams.

The instream flow rule:

- Protects the river from new permitted water rights by setting minimum flow levels, which are like water rights for the stream. Instream flows do not put water in the streams and do not affect existing (senior) water rights.
- Creates year-round or seasonal closures for some streams, protecting existing flows from new appropriations.
 - RCW 90.94 allows new homes using permit-exempt groundwater to potentially impact instream flows and closures in this watershed. (See the *permit-exempt options* section.)

Existing water rights

Water rights have been issued in the Cedar-Sammamish Watershed for over 100 years, and as a result, most water in the watershed is already legally spoken for or "appropriated."

Tribal interests

The Muckleshoot Indian Tribe is concerned about maintaining flows and fish habitat in the watershed. By request, Ecology notifies the tribe of all new water right applications and decisions.



Seawater intrusion

The movement of salt water into freshwater aquifers, known as seawater intrusion, is a concern for coastal areas of Puget Sound. Any groundwater withdrawals located in the coastal areas are evaluated for the risk of seawater intrusion into existing fresh groundwater supplies.

Precipitation

Average precipitation ranges from about 35 inches per year near Puget Sound to about 55 inches per year in the Cascade Mountains. Most of this precipitation arrives during the winter months when water demands are the lowest, and only a fraction becomes available for human and economic uses.

During the summer, after the snowpack in the mountains is gone, there is little rain, so stream flows are dependent on groundwater inflow. This means that groundwater and surface water are least available when water demands are the highest.

Summary

Increasing demands for water over time, from ongoing population growth, agriculture, and other consumptive uses as well as associated land use practices, have resulted in lower streamflows and declining groundwater levels in some areas. These decreases have impacted important resources for fisheries and general stream health. The impacts of climate change in the watershed are also yet to be fully realized. Water availability is limited throughout the Cedar-Sammamish Watershed.



Options for Acquiring Water

Permit-exempt options

State law, RCW 90.44.050, exempts the following uses from the water right permitting process:

- Single or group domestic uses, not exceeding 5,000 gallons per day (gpd), although in some areas, including WRIA 8, there are other restrictions (see <u>Domestic uses</u>, later in this section).
- Irrigation of up to a half-acre of non-commercial lawn or garden.
- Industrial purposes (such as water for a store, restaurant, or small industrial facility, or irrigation
 of a small commercial farm), not exceeding 5,000 gpd.
- Stockwater to provide drinking water for stock animals. Other stock-related purposes (such as washing down a milking parlor or irrigating hay for stock animals) may require a water right permit.

A project proposal is also limited to the use of one exemption for each type of use, so a housing subdivision, for example, cannot use a series of wells to exceed the 5,000 gpd limit or the half-acre of non-commercial lawn and garden. The entire subdivision, collectively, cannot exceed either limitation.

There is no exemption from permitting for surface water diversions.



Domestic uses

If your project will rely on a well drilled before January 19, 2018, you are regulated solely under RCW 90.44.050, and new requirements under RCW 90.94 do not apply. The following describes additional requirements for single and group domestic uses that will rely on a well drilled after January 19, 2018:



If you are building a new home that will rely on a new¹ permit-exempt well:

- Your combined indoor and outdoor domestic water use is limited to 950 gpd as a maximum annual average, not to exceed 5,000 gpd on any given day. For example, you could withdraw 3,000 gallons on one summer day, so long as you do not do so enough that your average exceeds 950 gpd in a year.
- Your outdoor personal lawn and garden remain limited to an area no greater than one-half acre. (Note that your outdoor water use for your lawn and garden is included in the 950 gpd annual average limit.)
- If there is a drought emergency declaration, your water use can be restricted to 350 gpd for indoor uses only, with the exception of any water needed to maintain a fire control buffer.



If you are building more than one home reliant on a new permit-exempt well: Your group domestic use is regulated by both RCW 90.44.050 and 90.94.030.

The limit under RCW 90.94.030 is per connection, meaning that for subdivisions, each house is limited to the 950 gpd maximum annual average limit and the 350 gpd indoor use only during a declared drought emergency. However, the entire subdivision is limited to the 5,000 gpd limit established under RCW 90.44.050.

Table 1. Permit-exempt domestic use for an individual home or group use.

Criteria	Well drilled on or after Jan. 19, 2018	Well drilled before Jan. 19, 2018
Daily water limitation	5,000 gpd	5,000 gpd
Annual average daily use limit per home	950 gpd	-
Total irrigation allowed	½ acre	½ acre
Total group use limits	5,000 gpd* ½ acre of irrigation	5,000 gpd ½ acre of irrigation
Read the fine print	RCW 90.94.030 RCW 90.44.050	RCW 90.44.050

^{*}During a state drought declaration for the area, water use may be limited to 350 gpd per connection.

¹ Drilled after January 19, 2018.



Permit options

If your project cannot access water from an existing water purveyor, nor qualify for use of a permitexempt well, you will need to:

- Apply for **and receive** a new water right, or
- Acquire an existing water right and apply for and receive a change or transfer for the new use, new point of withdrawal/diversion, and/or new place of use.



Ecology asks anyone who needs a water right (new, change, or transfer) to submit the pre-application consultation form and meet with us to review your water supply needs and project proposal. See the *Resources* section for forms and other information.

New water right

Attempting to acquire new water rights within areas regulated with either instream flows or closures will be a very difficult and expensive process. It requires hiring qualified professionals and submitting a comprehensive mitigation and monitoring plan. This does not guarantee approval of a water right. Mitigation can be any action or group of actions that address, in-time and in-place, the impact of the water withdrawal or diversion on instream flows or other senior water rights.

Mitigation refers to measures taken to prevent any impact on streamflow during the period that water is not available, by either:

- Halting the diversion or withdrawal, or
- Replacing the water taken—in time and in-place.

A common form of mitigation is to retire an existing water right upstream from the new use.

Projects proposing non-consumptive uses of water may be approvable in both closed areas and areas with instream flow regulations.

Change or transfer an existing water right

It can be easier to buy an existing water right and change the place of use, the point of diversion or withdrawal, or the purpose or manner of use. It is important that the water right be in good standing by regular use over its lifetime. Changing either of these aspects of a water right can be challenging if the change creates a new or different impact on a stream.

Processing options

The wait for your water right application to be processed can be years. To speed up the process, you can submit your new or change water right application through the <u>Cost Reimbursement Program</u>.

For more information on this and other options, refer to <u>Alternatives for Water Right Application</u> <u>Processing.</u>

You can discuss all of your options for supplying water to your project at a pre-application consultation with Ecology. To schedule, submit the <u>pre-application consultation form</u>.



Resources

Contact Information

Ecology Northwest Regional Office Mail address: PO Box 330316 Shoreline WA 98133-9716

Physical address: 15700 Dayton Ave N

Shoreline, WA **206-594-0000**

More Information

Visit our website for the most current information. ecology.wa.gov/Water-Shorelines/Water-supply

Publications and forms are searchable in the online database.

ecology.wa.gov/publications

Forms

- Water Right Pre-Application Consultation form, Form ECY 070-440 https://apps.ecology.wa.gov/publications/summarypages/ecy070440.html
- Application for a New Water Right, Form ECY 040-114 https://apps.ecology.wa.gov/publications/summarypages/ecy040114.html
- Application to Change or Transfer a Water Right or Claim, Form ECY 040-197 https://apps.ecology.wa.gov/publications/summarypages/ecy040197.html

Publications

- <u>Cost Reimbursement Program</u>, Publication 22-11-022 https://apps.ecology.wa.gov/publications/SummaryPages/2211022.html
- <u>Alternatives for Water Right Application Processing</u>, Publication 11-11-067 https://apps.ecology.wa.gov/publications/summarypages/1111067.html
- Focus on: <u>The Groundwater Permit Exemption</u>, Publication 19-11-090 https://apps.ecology.wa.gov/publications/SummaryPages/1911090.html

Website – ecology.wa.gov

- Visit the <u>water rights permits page</u> for more information and helpful links. https://ecology.wa.gov/WaterRightPermits
- Use the <u>Water Rights Search</u> to locate and research water rights on land parcels anywhere in the state.
 - https://ecology.wa.gov/WaterRightsSearch



Map

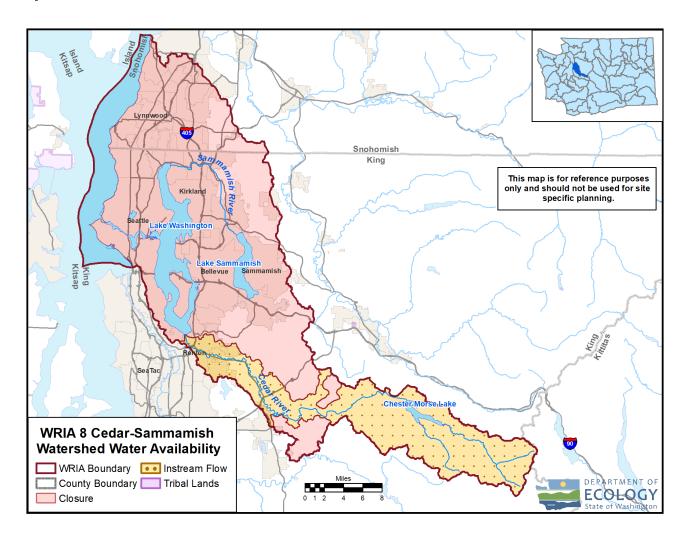


Figure 1. Water resource inventory area 8 – Cedar-Sammamish Basin

ADA accommodations

The Department of Ecology is committed to providing people with disabilities access to information and services by meeting or exceeding the requirements of the Americans with Disabilities Act (ADA), Section 504 and 508 of the Rehabilitation Act, and Washington State Policy #188.

To request an ADA accommodation, contact Ecology by phone at 360-407-6872, or visit https://ecology.wa.gov/accessibility. For Relay Service or TTY call 711 or 877-833-6341.