

2016 AQUATIC VEGETATION SURVEY REPORT

Echo Lake Aquatic Vegetation Survey



September 2016

Prepared for: City of Shoreline
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TABLE OF CONTENTS

	Page #
1 Introduction	1
2 Methods	5
3 Results and Discussion	6
4 Recommendations	7
5 References.....	8
6 Appendices.....	9
Appendix A. Department of Ecology Plant List	
Appendix B. Photos	
Appendix C. Aquatic Plants and Fish Pamphlet	

LIST OF FIGURES

Figure 1	City of Shoreline Drainage Basins
Figure 2	Echo Lake Aerial Map

LIST OF TABLES

Table 1	Native Aquatic Vegetation
Table 2	Non-Native Aquatic Vegetation

2016 AQUATIC VEGETATION SURVEY REPORT

ECHO LAKE AQUATIC VEGETATION SURVEY

1 INTRODUCTION

Echo Lake is an urban lake located in the north central portion of the City of Shoreline, in the McAleer Creek Drainage Basin (Figure 1). Echo Lake covers an area of 13 acres and has a maximum depth of 30-feet. The lake is surrounded by private properties, except for a public park and swimming beach located at the north end of the lake (Figure 2). The lake is primarily fed by groundwater but there is significant inflow to the lake in the form of surface water runoff from surrounding residential roadways, residential and commercial properties and Highway 99. For approximately 6 to 8 months of the year the lake is high enough for there to be flow at the outlet. When there is outflow, this water flows north, across the City boundary into Lake Ballinger. Water flows out of Lake Ballinger as McAleer Creek and a portion of McAleer Creek flows south through Shoreline on its way to Lake Washington.

Echo Lake has an active community of residents living on or near the lake. The Echo Lake community expressed concerns over the aquatic vegetation in Echo Lake – specifically the abundance of lily pads. The City of Shoreline therefore coordinated with the Department of Ecology to conduct an aquatic vegetation survey at Echo Lake in June 2016. The purpose of the survey was to identify the native and non-native aquatic and submerged aquatic vegetation in Echo Lake.

Invasive, non-native plants tend to be hardy able to withstand harsh growing conditions, therefore often out-compete native plants. Non-native plants do not have natural methods to keep their growth in check, such as plant-eating insects or diseases, because they evolved in a different part of the world. The King County Noxious Weed Control Board administers the Washington State noxious weed law in King County. The King County Noxious Weed List includes three classes of weeds:

- **Class A Weeds:** Eradication of all Class A plants is required by law throughout Washington.

- **Class B Weeds:** Species are designated for control in regions where they are not yet widespread.
- **Class C Weeds:** Allows counties to require control if locally desired or to choose to provide education or technical consultation.

In addition to the regulated weed list, the King County weed list also includes additional species that landowners are not required to control:

- **Non-Regulated Noxious Weeds:** State-listed Class B and Class C noxious weeds, but not designated for mandatory control in King County but have negative impacts for people and the environment.
- **King County Weeds of Concern:** Not classified as noxious weeds on the state list but are problematic in King County.

The survey revealed that Echo Lake contains nine native species and three non-native species. The three non-native species are classified as non-regulated noxious weeds by King County.



Figure 2. Echo Lake Aerial Map

2 METHODS

Freshwater aquatic plant monitoring is conducted by the Washington State Department of Ecology's Environmental Assessment Program. The monitoring program's purpose is to track aquatic plant community changes in lakes and rivers throughout the state, concentrating on invasive non-native species. The aquatic plant vegetation survey at Echo Lake was conducted by boat using visual identification. Submerged aquatic vegetation was collected using a rake and identified by visual identification.

3 RESULTS AND DISCUSSION

Nine native aquatic and submerged aquatic species were identified during the survey:

Table 1. Native Aquatic Vegetation

Scientific Name	Common Name
<i>Ceratophyllum demersum</i>	Coontail; hornwort
<i>Comarum palustre</i>	purple (marsh) cinquefoil
<i>Eleocharis sp.</i>	spike-rush
<i>Elodea nuttallii</i>	Nuttall's waterweed
<i>Juncus sp.</i>	rush
<i>Nuphar polysepala</i>	yellow water-lily
<i>Potamogeton amplifolius</i>	large-leaf pondweed
<i>Potamogeton sp. (thin leaved)</i>	thin leaved pondweed
<i>Schoenoplectus sp.</i>	naked-stemmed bulrush

Three non-native species were identified during the survey:

Table 2. Non-Native Aquatic Vegetation

Scientific Name	Common Name
<i>Iris pseudacorus</i>	yellow flag iris
<i>Nymphaea odorata</i>	fragrant waterlily
<i>Typha angustifolia</i>	lesser cat-tail

Yellow flag iris was observed in scattered patches, mainly along the Western shoreline (see Appendix B).

The non-native, fragrant waterlily was only observed in scattered patches along the Western shoreline, mixed with native yellow water-lily. Fragrant waterlily was not observed along the Eastern shoreline (see Appendix B).

The two patches of narrow leaf/lesser cattail are at the North-east shoreline of the lake (see Appendix B).

4 RECOMMENDATIONS

Native aquatic plants provide environmental benefits to lakes, such as food and habitat. However, very dense native plant growth, usually caused by an excess of nutrients, can be detrimental to some fish. A small amount of beneficial plant control is allowed under the Washington Department of Fish and Wildlife (WDFW), using the Second Edition of the WDFW publication “Aquatic Plants and Fish: Rules for Aquatic Plant Removal and Control” for guidance and as a permit.

The three non-native species (yellow flag iris, fragrant waterlily, and lesser cat-tail) are “**Non-Regulated Noxious Weeds**” in King County therefore, control of the weeds by the City is not necessary. Echo Lake residents can utilize the WDFW “Aquatic Plants and Fish” pamphlet (the pamphlet) as their permit to control the non-native species. According to the pamphlet, control of non-regulated noxious weeds must occur during the fish window (July 16-September 30). In order to control the lesser/narrow-leaf cat-tail, King County and the Department of Ecology recommend cutting the stalks of the plants below the water surface level (undercutting). Place the cut plant material in a municipal yard waste bin for composting, do not place the cut plant material on the lake shore.

5 REFERENCES

King County. Noxious weed lists and laws website:

<http://www.kingcounty.gov/environment/animals-and-plants/noxious-weeds/laws.aspx>

Parsons, Jenifer. 2012. Freshwater aquatic plants – what are they good for?

Washington State Lake Protection Association. Available at:

<http://www.walpa.org/waterline/sept-2012/freshwater-aquatic-plants-what-are-they-good-for/>

United States Forest Service. Weed of the Week website:

http://www.na.fs.fed.us/fhp/invasive_plants/weeds/narrow-leaved-cattail.pdf

Washington Department of Fish and Wildlife. 2015. Aquatic Plants and Fish:

Rules for Aquatic Plant Removal and Control. Available at:

<http://wdfw.wa.gov/publications/01728/wdfw01728.pdf>

Washington State Department of Ecology. Aquatic Plant Monitoring website:

<http://www.ecy.wa.gov/programs/eap/lakes/aquaticplants/index.html>

6 APPENDICES

APPENDIX A.

DEPARTMENT OF ECOLOGY PLANT LIST

Waterbody Name: Echo Lake (26N-04E-06)

County: KING

Date: 6/28/2016 **Comments:** Weather sunny and calm to light breeze. Visited with City of Shoreline staff. Found 2 patches of narrow leaf cattail at NE end, in park. Older homes on east shore, and apartments on west shore, most of shoreline is developed. Few submersed plants seen, mostly low-growing. Fragrant waterlily and Yellow flag iris were in scattered patches along the shore.

<i>Scientific name</i>	<i>Common name</i>	<i>Distribution Value*</i>	<i>Comments</i>
<i>Ceratophyllum demersum</i>	Coontail; hornwort	2	less robust than usual, but keyed to this species
<i>Comarum palustre</i>	purple (marsh) cinquefoi	1	south end
<i>Eleocharis sp.</i>	spike-rush	1	south end
<i>Elodea nuttallii</i>	Nuttall's waterweed	2	with very narrow leaves
<i>Iris pseudacorus</i>	yellow flag	3	present where there is habitat
<i>Juncus sp.</i>	rush	2	
<i>Nuphar polysepala</i>	yellow water-lily	2	
<i>Nymphaea odorata</i>	fragrant waterlily	2	scattered patches
<i>Potamogeton amplifolius</i>	large-leaf pondweed	1	north end
<i>Potamogeton sp (thin leaved)</i>	thin leaved pondweed	1	south end
<i>Schoenoplectus sp.</i>	naked-stemmed bulrush	2	south and west shores, shallow water
<i>Typha angustifolia</i>	lesser cat-tail	2	2 patches near launch

* 1 = scarce; in 1 or a few locations

3 = large patches, codominant with other species

5 = monospecific, dense growth excluding other species

2 = common, with a wide patchy distribution

4 = dominant, but other species present

9 = value was not recorded

Appendix B.
Photos



Location: North-east shoreline

Plant type: *Typha angustifolia* (lesser cat-tail)



Location: North-east shoreline

Plant type: *Typha angustifolia* (lesser cat-tail)



Location: North-east shoreline

Plant type: *Typha angustifolia* (lesser cat-tail)



Location: North-east shoreline

Plant type: *Typha angustifolia* (lesser cat-tail)



Location: Eastern shoreline

Plant type: *Nuphar polysepala* (yellow water-lily)



Location: Eastern shoreline

Plant type: *Nuphar polysepala* (yellow water-lily)



Location: South-east shoreline

Plant type: *Nuphar polysepala* (yellow water-lily)



Location: Southern shoreline

Plant types: *Elodea nuttallii* (Nuttall's waterweed) – on rake
Potamogeton sp (thin leaved pondweed) – on rake
Schoenoplectus sp. (naked-stemmed bulrush) – background



Location: South-west shoreline

Plant type: *Nymphaea odorata* (fragrant waterlily) – foreground
Nuphar polysepala (yellow water-lily) – background



Location: South-west shoreline

Plant type: *Nymphaea odorata* (fragrant waterlily) – foreground
Nuphar polysepala (yellow water-lily) – background



Location: Western shoreline

Plant type: *Nymphaea odorata* (fragrant waterlily)



Location: Western shoreline

Plant type: *Nymphaea odorata* (fragrant waterlily)

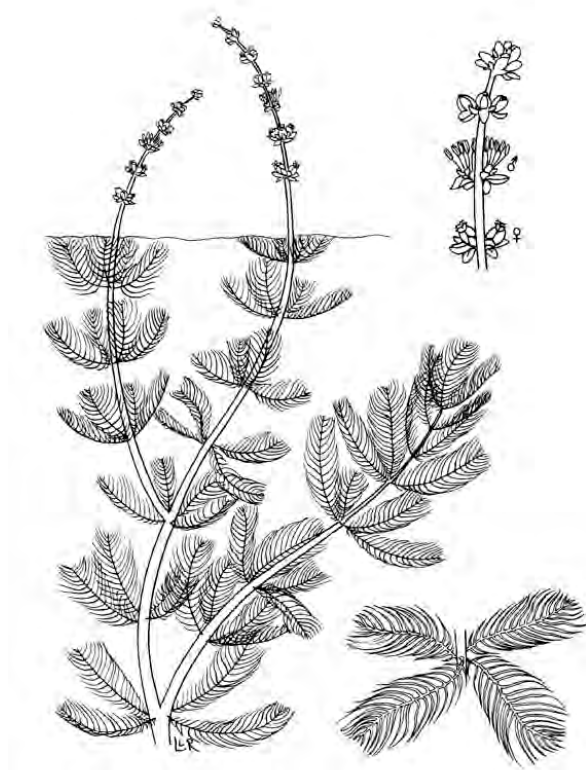
APPENDIX C.

AQUATIC PLANTS AND FISH PAMPHLET

Washington Department of Fish and Wildlife

AQUATIC PLANTS AND FISH

RULES FOR AQUATIC PLANT REMOVAL AND CONTROL



JULY 2015

2ND EDITION



Washington Department of
FISH and WILDLIFE

The 2nd edition of the July 2015 Aquatic Plants and Fish pamphlet corrects errors in the Recommended Work Times table of the original edition. The 2nd edition replaces the original version and must be used when conducting aquatic plant control or removal projects under authority of the pamphlet.

Cover graphic of Eurasian Water Milfoil *Myriophyllum spicatum* provided by University of Florida/IFAS Center for Aquatic and Invasive Plants. Used with permission.



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Table of Contents

About This Pamphlet.....	1
Limit of WDFW Authority.....	2
Other Permits May Be Necessary	2
Aquatic Vegetation and Fish	2
Definitions.....	3
Methods and Requirements for Aquatic Plant Control and Removal	4
Removal of Aquatic Plants by Hand	4
Bottom Barriers and Screens	5
Weed Rolling.....	6
Mechanical Harvesting and Cutting	7
Rotovation.....	8
Aquatic plant dredging.....	8
Water level manipulation	9
Recommended Work Times.....	10

About This Pamphlet

Effective July 1, 2015 the 2015 Aquatic Plants and Fish pamphlet replaces the previous version of the pamphlet published in 1998 (APF-1-98). It serves as the Hydraulic Project Approval (HPA) for some types of aquatic weed or plant control and removal including physical and mechanical methods. It does not address using grass carp, herbicides, or water column dye. You may find information regarding those methods at Washington Department of Ecology’s website on aquatic plant management at <http://www.ecy.wa.gov/programs/wq/plants/management/index.html>. Depending on the method you select to control aquatic noxious weeds or beneficial plants, an individual HPA may be required. If you use this pamphlet as your HPA for aquatic weed or plant control, please review it thoroughly and follow all applicable provisions. You may download, save and print a copy of the Aquatic Plants and Fish pamphlet from the WDFW website at http://wdfw.wa.gov/licensing/aquatic_plant_removal/index.html or request one from a WDFW office. The administrative rules adopted by the Department of Fish and Wildlife (WDFW) addressed in this pamphlet are included in [WAC 220-660-290](#).

This pamphlet does not contain information about how to identify aquatic noxious weeds or beneficial plants, or make recommendations on which control method would be best in a specific situation. There are many online and other resources available that you may wish to consult when deciding whether or how to control aquatic plants. One such resource is Washington Department of Ecology’s Water Quality

website, specifically its pages titled *Aquatic Plants, Algae, and Lakes* at <http://www.ecy.wa.gov/programs/wq/links/plants.html>.

Limit of WDFW Authority

- An activity conducted solely to remove or control spartina does not require an HPA.
- An activity conducted solely to remove or control purple loosestrife and that is performed with hand-held tools or equipment, or equipment carried by you when used, does not require an HPA.
- Any other activity conducted solely to remove or control aquatic noxious weeds or aquatic beneficial plants requires either a copy of the current Aquatic Plants and Fish pamphlet available from the department or an individual HPA.
- Information on applying for individual HPAs and how to contact a WDFW biologist is available at the following WDFW website: <http://wdfw.wa.gov/licensing/hpa/>.

Other Permits May Be Necessary

The Aquatic Plants and Fish pamphlet pertains only to WDFW's administration of hydraulic projects regulated under the Revised Code of Washington ([Chapter 77.55 RCW](#)). It is your responsibility to apply for and obtain any additional permits or authorization from other government agencies (local, state and/or federal) and land owners that may be necessary for this project. The Governor's Office for Regulatory Innovation and Assistance (ORIA) at http://www.oria.wa.gov/site/alias_oria/347/default.aspx can assist you in determining your permit needs.

Aquatic Vegetation and Fish

Beneficial plants play a significant role in lakes and streams by providing food and habitat for fish life, stabilizing shorelines, and contributing to nutrient cycling. Sometimes beneficial plants can grow in overabundance, usually because of excessive inputs of nutrients such as nitrogen or phosphorus. In contrast, aquatic noxious weeds can threaten native vegetation, fish life, and the habitat that supports fish life.

Often the best approach to controlling and removing aquatic plants is developing a vegetation management plan. A vegetation management plan is a comprehensive approach to controlling aquatic plants where all strategies are considered and usually some combination of techniques is selected and implemented. These plans should be based on the biology and ecology of the aquatic plant to be controlled and the environmental characteristics of the site. Integrated vegetation management planning is encouraged to comprehensively address aquatic plant problems for a watercourse.

Definitions

The following definitions apply to **aquatic plant** control and removal activities that you conduct under authority of the Aquatic Plants and Fish pamphlet. Terms in **bold** font throughout this pamphlet are defined here.

Aquatic beneficial plant: all native and nonnative **aquatic plants** except those on the state noxious weed lists in [WAC 16-750-005](#), [16-750-011](#), and [16-750-015](#).

Aquatic noxious weed: an **aquatic plant** on the state noxious weed lists in [WAC 16-750-005](#), [16-750-011](#), and [16-750-015](#).

Aquatic plant: a native or nonnative emergent, submersed, partially submersed, free-floating, or floating-leaved plant species that is dependent upon fresh, brackish, or marine water ecosystems and includes all stages of development and parts.

Bottom barrier or screen: sheets of synthetic or natural fiber material used to cover and kill plants growing on the bottom of a watercourse.

Diver-operated dredging: the use of portable suction or hydraulic dredges held by SCUBA divers to remove **aquatic plants**.

Early infestation: a stage of development, life history, or area of coverage of an **aquatic noxious weed** that makes one hundred percent control and **eradication** likely to occur.

Entrained: the entrapment of fish into a watercourse diversion that has no screen, into high velocity water along the face of an improperly designed screen, or into the vegetation cut by a mechanical harvester.

Eradication: to eliminate an **aquatic noxious weed** within an area of infestation.

Hydraulic project approval (HPA): A written approval for a hydraulic project signed by the director of WDFW or the director's designee; or an Aquatic Plants and Fish pamphlet issued by the WDFW, which identifies and authorizes specific **aquatic plant** removal and control activities.

Mechanical harvesting and cutting: partially removing or controlling **aquatic plants** by using aquatic mechanical harvesters, which cut and collect **aquatic plants**, and mechanical cutters, which only cut **aquatic plants**.

Purple loosestrife: *Lythrum salicaria* or *Lythrum virgatum* as classified in [RCW 17.10.010 \(10\)](#) and defined in [RCW 17.26.020 \(5b\)](#).

Rotovation: the use of aquatic rotovators that have underwater rototiller-like blades to uproot **aquatic plants** as a means of control.

Spartina: *Spartina alterniflora*, *Spartina anglica*, *Spartina x townsendii* and *Spartina patens* as classified in [RCW 17.10.010 \(10\)](#) and defined in [RCW 17.26.020 \(5b\)](#).

Weed rolling: the use of a mechanical roller designed to control **aquatic plant** growth.

Methods and Requirements for Aquatic Plant Control and Removal

The methods identified in this section are commonly used for aquatic plant removal or control. When using these methods you must follow the rules in this section. If you cannot follow these rules, you may apply to WDFW for an individual HPA to permit exceptions to the rules. Table 1 summarizes the overall permit requirements.

Table 1. Permit Requirements for Aquatic Noxious Weed and Beneficial Plant Removal or Control

Control Method	Aquatic Noxious Weed			Aquatic Beneficial Plants		
	Permit Requirement			Permit Requirement		
	Pamphlet without Area Limitations	Pamphlet with Area Limitations	Individual HPA	Pamphlet without Area Limitations	Pamphlet with Area Limitations	Individual HPA
Removal by Hand	✓				✓	
Bottom Barriers and Screens		✓			✓	
Weed Rolling		✓				✓
Mechanical Harvesting and Cutting	✓					✓
Rotovation			✓			✓
Diver-operated Dredging	✓					✓
Other Dredging			✓			✓
Water Level Manipulation			✓			✓

Control or removal of aquatic plants under the *Aquatic Plants and Fish* pamphlet may be conducted without timing restriction. However, to minimize the possibility of harm to fish life during vulnerable life stages, please use Table 2 to identify recommended work times.

Removal of Aquatic Plants by Hand

Hand removal or control of **aquatic plants** can help eradicate an **early infestation** of **aquatic noxious weeds** and can be effective for small, confined areas.

Hand removal or control of both **aquatic noxious weeds** and **aquatic beneficial plants** must comply with the following technical provisions except where otherwise indicated. In addition, you should follow the timing recommendations identified in Table 2 to reduce the possibility of harm to fish life.

1. A copy of the current *Aquatic Plants and Fish* pamphlet available from the department serves as an HPA, unless otherwise indicated, and must be on the job site at all times.

2. Because of potential impacts to sockeye spawning areas, the department requires individual HPAs for activities in Baker Lake and lakes Osoyoos, Ozette, Pleasant, Cle Elum, Sammamish, and Washington. If authorization is given, the department may require mitigation through a written agreement between the applicant and the department for impacts of raking in the spawning area.
3. Work is restricted to hand-pulling, using hand-held tools or equipment, or using equipment that is carried by you when used.
4. Removing or controlling aquatic beneficial plants to maintain an access for boating or swimming is allowed along no more than ten linear feet of the applicant's shoreline. The department requires individual HPAs for boating and swimming access projects that cover a larger area.
5. When hand-pulling aquatic noxious weeds, remove the entire plant when possible. Completely remove detached plants and plant parts from waters of the state when possible. Dispose of detached plants and plant parts at an upland site so they will not reenter waters of the state.
6. Do not remove or disturb existing fish habitat components such as logs, stumps, and large boulders.
7. Conduct work in a manner that minimizes the release of sediment and sediment-laden water from the job site.
8. Prevent contaminants from the project, such as petroleum products, hydraulic fluid, or any other toxic or harmful materials, from entering or leaching into waters of the state.
9. If at any time, as a result of project activities, you observe a fish kill or fish life in distress, you must immediately cease operations and notify the department and the Washington Military Department Emergency Management Division (1-800-258-5990) of the problem. You may not resume work until the department gives approval. The department will require additional measures to mitigate the project impacts.
10. Do not use contaminated equipment, which can spread plant parts. Thoroughly remove and properly dispose of all viable plants and plant parts from the equipment before using the equipment in waters of the state.

Bottom Barriers and Screens

Bottom barriers or screens can help eradicate an **early infestation** of **aquatic noxious weeds** and are best used in small, confined areas where control of all plants is needed.

Bottom barrier or screen projects to control or remove either **aquatic noxious weeds** or **aquatic beneficial plants** must comply with the following technical provisions except where otherwise indicated. In addition, you should follow the timing recommendations identified in Table 2 to reduce the possibility of harm to fish life.

1. A copy of the current *Aquatic Plants and Fish* pamphlet available from the department serves as an HPA, unless otherwise indicated, and must be on the job site at all times.
2. Because of potential impacts to sockeye spawning areas, the department requires individual HPAs for activities in Baker Lake and lakes Osoyoos, Ozette, Pleasant, Cle Elum, Sammamish, and Washington. If authorization is given, the department may require mitigation through a written

agreement between the applicant and the department for impacts of the activity to the spawning area.

3. For removing and controlling aquatic noxious weeds, the bottom barrier or screen material can cover no more than fifty percent of the length of the applicant's shoreline. The department requires individual HPAs for bottom barrier or screen projects covering a larger area. Bottom barrier or screen and anchor material consisting of biodegradable material may be left in place. Within two years of placement, unless otherwise approved by the department, completely remove bottom barrier or screen and anchor material that is not biodegradable to encourage recolonization of aquatic beneficial plants.
4. To remove or control aquatic beneficial plants to maintain an area for boating or swimming, a bottom barrier or screen and anchor material may be installed along no more than ten linear feet of the applicant's shoreline. The department requires individual HPAs for bottom barrier or screen projects for boating and swimming access projects covering a larger area.
5. Securely anchor a bottom barrier or screen material with pea gravel-filled bags, rock, or similar material to prevent billowing and movement off site.
6. Regularly maintain a bottom barrier or screen and anchors to ensure the barrier or screen and anchors are functioning properly. Barriers or screens that have moved or are billowing must immediately be securely reinstalled or removed from waters of the state.
7. Existing fish habitat components such as logs, stumps, and large boulders may be relocated within the water body if needed to properly install the bottom barrier or screen. Do not remove these habitat components from the water body.
8. If at any time, as a result of project activities, you observe a fish kill or fish life in distress, you must immediately cease operations and notify the department and the Washington Military Department Emergency Management Division (1-800-258-5990) of the problem. You may not resume work until the department gives approval. The department will require additional measures to mitigate the project impacts.
9. Do not use contaminated equipment, which can spread plant parts. Thoroughly remove and properly dispose of all viable plants and plant parts from the equipment before using the equipment in waters of the state.

Weed Rolling

Weed rollers are best used when you need to control all **aquatic plants**.

Weed rolling projects to control or remove both **aquatic noxious weeds** and **aquatic beneficial plants** must comply with the following technical provisions except where otherwise indicated.

1. A copy of the current *Aquatic Plants and Fish* pamphlet available from the department serves as an HPA, unless otherwise indicated, and must be on the job site at all times.
2. Because of potential impacts to sockeye spawning areas, the department requires individual HPAs for activities in Baker Lake and lakes Osoyoos, Ozette, Pleasant, Cle Elum, Sammamish, and Washington. If authorization is given, the department may require mitigation through a written agreement between the applicant and the department for impacts of the activity to the spawning area.

3. Weed rollers cannot be used to remove an early infestation of aquatic noxious weeds. Using weed rollers to remove or control all other infestation levels of aquatic noxious weeds can cover an area of no more than two thousand five hundred square feet. The department requires individual HPAs for weed roller projects covering a larger area.
4. The department requires individual HPAs to remove or control aquatic beneficial plants.
5. When using weed rollers to remove or control aquatic noxious weeds, completely remove detached plants and plant parts from the water body. Dispose of detached plants and plant parts at an upland site so they will not reenter waters of the state.
6. Conduct work in a manner that minimizes the release of sediment and sediment-laden water from the job site.
7. Prevent contaminants from the project, such as petroleum products, hydraulic fluid, or any other toxic or harmful materials, from entering or leaching into waters of the state.
8. If at any time, as a result of project activities, you observe a fish kill or fish life in distress, you must immediately cease operations and notify the department and the Washington Military Department Emergency Management Division (1-800-258-5990) of the problem. You may not resume work until the department gives approval. The department will require additional measures to mitigate the project impacts.
9. Existing fish habitat components such as logs, stumps, and large boulders may be relocated within the water body if needed to properly install the weed roller. Do not remove these habitat components from the water body.
10. Do not use contaminated equipment, which can spread plant parts. Thoroughly remove and properly dispose of all viable plants and plant parts from the equipment before using the equipment in waters of the state.

Mechanical Harvesting and Cutting

Mechanical harvesting and cutting projects to control or remove both **aquatic noxious weeds** and **aquatic beneficial plants** must comply with the following technical provisions except where otherwise indicated. In addition, you should follow the timing recommendations identified in Table 2 to reduce the possibility of harm to fish life.

1. A copy of the current *Aquatic Plants and Fish* pamphlet available from the department serves as an HPA, unless otherwise indicated, and must be on the job site at all times.
2. Do not use mechanical harvesters and cutters to remove an early infestation of aquatic noxious weeds.
3. The department requires individual HPAs to remove aquatic beneficial plants.
4. When using mechanical harvesters or cutters to remove or control aquatic noxious weeds, completely remove detached plants and plant parts from the water body. Dispose of detached plants and plant parts at an upland site so they will not reenter waters of the state.
5. Prevent contaminants from the project, such as petroleum products, hydraulic fluid, or any other toxic or harmful materials, from entering or leaching into waters of the state. Keep equipment well-maintained and use food-grade oil in the hydraulic system.

6. If at any time, as a result of project activities, you observe a fish kill or fish life in distress, you must immediately cease operations and notify the department and the Washington Military Department Emergency Management Division (1-800-258-5990) of the problem. You may not resume work until the department gives approval. The department will require additional measures to mitigate the project impacts.
7. Existing fish habitat components such as logs, stumps, and large boulders may be relocated within the water body if needed to operate the equipment. Do not remove these habitat components from the water body.
8. Conduct mechanical harvester and cutter operations only in waters deep enough to avoid contacting the bottom with the cutter blades.
9. Always operate mechanical harvesters and cutters so that they cause the least adverse impact to fish life.
10. Immediately and safely return to the water body all fish life that becomes entrained in the cut vegetation while operating a mechanical harvester.
11. Do not use contaminated equipment which can spread plant parts. Thoroughly remove and properly dispose of all viable plants and plant parts from the equipment before using the equipment in waters of the state.
12. Limit alteration or disturbance of the bank and bank vegetation to that required to conduct the project. Protect all disturbed areas from erosion using vegetation or other means. Replant the banks within one year with native or other approved woody species.

Rotovation

The department requires an individual HPA for **rotovation** projects. **Rotovation** projects to control or remove **aquatic noxious weeds** and **aquatic beneficial plants** may not be conducted under the *Aquatic Plants and Fish* pamphlet.

Aquatic plant dredging

Diver-operated dredging can help eradicate an **early infestation** of **aquatic noxious weeds** and can help conduct long-term maintenance after control or removal using other methods.

Diver-operated dredging projects to control or remove **aquatic noxious weeds** must comply with the following technical provisions except where otherwise indicated. In addition, you should follow the timing recommendations identified in Table 2 to reduce the possibility of harm to fish life. The department requires individual HPAs to eradicate or control **aquatic beneficial plants** using **diver-operated dredging**.

For dredging other than **diver-operated dredging** the department requires an individual HPA to control or remove **aquatic plants** and these projects may not be conducted under the *Aquatic Plants and Fish* pamphlet.

1. A copy of the current *Aquatic Plants and Fish* pamphlet available from the department serves as an HPA for **diver-operated dredging** only, unless otherwise indicated, and must be on the job site at all times.

2. Because of potential impacts to sockeye spawning areas, the department requires individual HPAs for activities in Baker Lake and lakes Osoyoos, Ozette, Pleasant, Cle Elum, Sammamish, and Washington. If authorization is given, the department may require mitigation through a written agreement between the applicant and the department for impacts of the activity to the spawning area.
3. Prevent contaminants from the project, such as petroleum products, hydraulic fluid, or any other toxic or harmful materials, from entering or leaching into waters of the state. Keep equipment well-maintained and use food-grade oil in the hydraulic system.
4. If at any time, as a result of project activities, you observe a fish kill or fish life in distress, you must immediately cease operations and notify the department and the Washington Military Department Emergency Management Division (1-800-258-5990) of the problem. You may not resume work until the department gives approval. The department will require additional measures to mitigate the project impacts.
5. Existing fish habitat components such as logs, stumps, and large boulders may be relocated within the water body if needed to operate the equipment. Do not remove these habitat components from the water body.
6. Always conduct dredging with dredge types and methods that cause the least adverse impact to fish life.
7. Do not use contaminated equipment, which can spread plant parts. Thoroughly remove and properly dispose of all viable plants and plant parts from the equipment before using the equipment in waters of the state.
8. To avoid stranding fish, the bed must not contain pits, potholes, or large depressions when dredging is finished.
9. Limit alteration or disturbance of the bank and bank vegetation to that needed to conduct the project. Protect all disturbed areas from erosion, using vegetation or other means. Replant the banks within one year with native or other approved woody species.
10. When using diver-operated dredging to remove or control aquatic noxious weeds, you must completely remove plants and plant parts from the water body. Remove plants and plant parts from the dredge slurry before returning it to the water body. Dispose of dredged bed materials, including detached plants and plant parts, at an upland disposal site so they will not reenter waters of the state.
11. Operate a hydraulic dredge with the intake at or below the surface of the material that is being removed. Raise the intake up to three feet above the bed only for brief periods of purging or flushing the intake system.

Water level manipulation

Manipulating water levels (drawdowns) to remove or control **aquatic noxious weeds** or **aquatic beneficial plants** by exposing plants and root systems to extreme temperature and moisture conditions may be appropriate under specific circumstances. Accurate plant identification is important to ensure success.

The department requires an individual HPA to manipulate water levels and these projects may not be conducted under the *Aquatic Plants and Fish* pamphlet.

Recommended Work Times

Table 2 lists the recommended work times for each county and certain waterbodies within each county. The listed timing indicates those periods when WDFW recommends you conduct your project if you are using the pamphlet as the **HPA**. If you wish to conduct your project activities outside of these recommended times please submit an application for an individual **HPA** to WDFW.

1. The general work time for a county applies to all state waters within that county, unless otherwise indicated in the table.
2. The work time for listed state waters applies to all its tributaries, unless otherwise indicated. Some state waters occur in multiple counties. Check the listing for the county in which you wish to remove or control **aquatic plants** to determine the work time for that water.
3. Where a tributary is listed as a boundary, that boundary shall be the line perpendicular to the receiving stream that is projected from the most upstream point of the tributary mouth to the opposite bank of the receiving stream.
4. **Aquatic plant** removal and control within waterbodies identified in the table of recommended work times as "Submit Application" are not recommended under the *Aquatic Plants and Fish* pamphlet. Please submit an application for an individual **HPA** to work in these waterbodies.

Table 2. Recommended Work Times for Removal or Control of Aquatic Plants

Washington Counties and State Waters Water Resource Inventory Area (WRIA) in parentheses	Aquatic Plant Removal or Control Recommended Only Between These Dates
Adams County	July 1 - October 31
Crab Creek (41.0002)	July 16 - February 28
Esquatzel Creek (36.MISC)	June 1 - February 28
Palouse River (34.0003)	July 16 - February 28
Asotin County	July 16 - September 15
Snake River (35.0002)	See below
Alpowa Creek (35.1440)	July 16 - December 15
Asotin Creek (35.1716)	July 16 - August 15
Couse Creek (35.2147)	July 16 - December 15
Grande Ronde River (35.2192)	July 16 - September 15
Tenmile Creek (35.2100)	July 16 - December 15
Benton County	June 1 - September 30
Columbia River	See below
Glade Creek (31.0851)	August 1 - September 30
Yakima River (37.0002)	June 1 - September 15
Amon Creek (37.0009)	June 1 - September 30
Corral Creek (37.0002)	June 1 - September 30
Spring Creek (37.0205)	June 1 - September 30
Chelan County	July 16 - August 15
Columbia River	See below
Antoine Creek (49.0294) - Mouth to falls at river mile 1.0	July 1 - February 28
Antoine Creek (49.0294) - Upstream of falls at river mile 1.0	July 1 - March 31
Chelan River (47.0052) - Mouth to Chelan Dam	July 16 - September 30
Colockum Creek (40.0760)	July 1 - October 31
Entiat River (46.0042) - Mouth to Entiat Falls	July 16 - July 31
Entiat River (46.0042) - Upstream of Entiat Falls	July 16 - March 31
Crum Canyon (46.0107)	July 16 - March 31
Mad River (46.0125)	July 16 - July 31
Indian Creek (46.0128)	July 16 - February 28
Lake Chelan (47.0052)	Submit Application
Railroad Creek (47.0410)	July 16 - September 30
Stehekin River (47.0508)	Submit Application
Twenty-five Mile Creek (47.0195)	July 16 - September 30
Other Lake Chelan tributaries outside of North Cascades National Park	July 1 - August 15
Other Lake Chelan tributaries within North Cascades National Park	Submit Application
Number 1 Canyon (45.0011)	July 1 - February 28
Number 2 Canyon (45.0012)	July 1 - February 28
Squilchuck Creek (40.0836) - Mouth to South Wenatchee Avenue	July 1 - September 30
Squilchuck Creek (40.0836) - Upstream of South Wenatchee Avenue	July 1 - February 28
Stemilt Creek (40.0808) - Mouth to falls	July 1 - September 30
Stemilt Creek (40.0808) - Upstream of falls	July 1 - February 28
Wenatchee River (45.0030) - Mouth to Hwy 2 Bridge in Leavenworth	July 15 - September 30
Wenatchee River (45.0030) - Hwy 2 Bridge in Leavenworth to Lake Wenatchee	July 15 - August 15
Beaver Creek (45.0751)	July 1 - September 30
Chiwaukum Creek (45.0700)	July 1 - July 31
Chiwawa River (45.0759) - Mouth to Phelps Creek	July 1 - July 31
Chiwawa River (45.0759) - Upstream of Phelps Creek	July 1 - July 31
Deep Creek (45.0764)	July 1 - February 28
Phelps Creek (45.0875)	July 16 - August 15
Icicle Creek (45.0474) - Mouth to Johnny Creek	July 1 - July 31
Icicle Creek (45.0474) - Upstream of Johnny Creek	July 1 - July 31
Fourth of July Creek (45.0525)	July 1 - February 28

Washington Counties and State Waters Water Resource Inventory Area (WRIA) in parentheses	Aquatic Plant Removal or Control Recommended Only Between These Dates
Lake Wenatchee (45.0030)	Submit Application
Little Wenatchee (45.0985) - Mouth to Wilderness Boundary	July 1 - July 31
Little Wenatchee (45.0985) - Upstream of Wilderness Boundary	Submit Application
White River (45.1116) - Mouth to White River Falls	July 1 - July 31
White River (45.1116) - Upstream of White River Falls	July 1 - February 28
Nason Creek (45.0888)	July 1 - July 31
Peshastin Creek (45.0232) - Mouth to Negro Creek	July 16 - August 15
Ingalls Creek (45.0273) - Mouth to Cascade Creek	Submit Application
Ingalls Creek (45.0273) - Upstream of Cascade Creek	July 16 - February 28
Negro Creek (45.0323) - Mouth to falls at stream mile 2.9	Submit Application
Negro Creek (45.0323) - Upstream of falls at stream mile 2.9	July 16 - February 28
Ruby Creek (45.0318)	July 16 - February 28
Peshastin Creek (45.0232) - Upstream of Negro Creek	August 1 - February 28
Tronson Creek (45.0346)	August 1 - February 28
Scotty Creek (45.0376)	August 1 - February 28
Shaser Creek (45.0365)	August 1 - February 28
Clallam County	July 16 - September 15
Clallam River (19.0129)	August 1 - August 15
Dungeness River (18.0018)	Submit Application
Independent Creek (18.MISC)	August 1 - August 31
Elwha River (18.0272)	August 1 - August 15
Hoko River (19.0148)	August 1 - September 15
Jimmycomelately Creek (17.0285)	August 1 - August 31
Lake Ozette (20.0046)	Submit Application
Little Quilcene River (17.0076)	July 16 - August 31
Lake Ozette tributaries	July 16 - September 15
Lyre River (19.0031)	August 1 - September 15
McDonald Creek (18.0160)	August 1 - September 15
Morse Creek (18.0185)	August 1 - August 15
Ozette River (20.0046)	July 16 - September 15
Pysht River (19.0113)	August 1 - September 15
Quillayute River (20.0096, 20.0162, 20.0175)	August 1 - August 15
Bogachiel River (20.0162)	Submit Application
Calawah River (20.0175)	August 1 - August 15
Salmon Creek (17.0245)	July 16 - August 31
Sekiu River (19.0203)	August 1 - September 15
Snow Creek (17.0219)	July 16 - August 31
Sol Duc River (20.0096)	Submit Application
Lake Pleasant (20.0313)	Submit Application
Lake Pleasant tributaries	July 16 - September 15
Sooes River (20.0015)	July 16 - September 15
Clark County	July 16 - September 30
Columbia River	See below
Lacamas Creek (28.0160) - Mouth to dam	August 1 - August 31
Lacamas Creek (28.0160) - Upstream of dam	August 1 - September 30
Lewis River (27.0168)	August 1 - August 15
East Fork Lewis River (27.0173) - Mouth to Lucia Falls	August 1 - August 15
East Fork Lewis River (27.0173) - Lucia Falls to Sunset Falls	August 1 - February 28
East Fork Lewis River (27.0173) - Upstream of Sunset Falls	August 1 - February 28
Lake River (28.0020)	January 1 - December 31
Burnt Bridge Creek (28.0143)	August 1 - August 31
Salmon Creek (28.0059)	August 1 - August 31
Whipple Creek (28.0038)	August 1 - September 30

Washington Counties and State Waters	Aquatic Plant Removal or Control Recommended Only Between These Dates
Water Resource Inventory Area (WRIA) in parentheses	
North Fork Lewis River (27.0334) - Confluence of East Fork to Merwin Dam	August 1 - August 15
Cedar Creek (27.0339)	August 1 - September 15
North Fork Lewis River (27.0334) - Merwin Dam to Lower Falls	July 16 - August 15
Canyon Creek (27.0442)	July 16 - February 28
North Fork Lewis River (27.0168) - Upstream of Lower Falls	July 16 - August 15
Washougal River (28.0159) - Mouth to headwaters	August 1 - August 31
Columbia County	July 16 - September 30
Touchet River (32.0097)	August 1 - August 15
Grande Ronde River tributaries (35.2192)	July 16 - August 15
North Fork Touchet/Wolf Fork (32.0761)	Submit Application
South Fork Touchet (32.0708)	Submit Application
Tucannon River (35.0009)	July 16 - August 15
Walla Walla River (32.0008) - Mouth to Oregon State line	July 16 - September 15
Mill Creek (32.1436) - Mouth to Oregon State line	August 1 - August 15
Cowlitz County	July 16 - September 30
Chehalis River (22.0190/23.0190) - South Fork Chehalis River - Mouth to Fisk Falls	August 1 - August 31
Chehalis River (22.0190/23.0190) - South Fork Chehalis River - Upstream of Fisk Falls	August 1 - August 31
Columbia River	See below
Abernathy Creek (25.0297)	July 16 - September 15
Burke Creek (27.0148)	August 1 - August 31
Burris Creek (27.0151)	August 1 - August 31
Bybee Creek (27.0142)	August 1 - August 31
Canyon Creek (27.0147)	August 1 - August 31
Coal Creek (25.0340)	July 16 - September 15
Clark Creek (25.0371)	August 1 - August 31
Cowlitz River (26.0002) - Mouth to barrier dam at river mile 49.5	July 16 - August 15
Coweman River (26.0003) - Mouth to Baird Creek	August 1 - August 31
Coweman River (26.0003) - Upstream of Baird Creek	August 1 - August 31
Cowlitz River (26.0002) - Tributaries below barrier dam to mouth	July 16 - September 30
Owl Creek (26.1441)	July 16 - September 15
Toutle River (26.0227)	July 16 - August 15
North Fork Toutle River (26.0314) - Mouth to Debris Dam	July 16 - August 15
North Fork Toutle River (26.0314) - Upstream of Debris Dam	July 16 - August 15
Green River (26.0323) - Mouth to Shultz Creek	July 16 - September 30
Green River (26.0323) - Upstream of Shultz Creek	July 16 - September 30
South Fork Toutle (26.0248) - Mouth to Bear Creek	July 16 - September 15
South Fork Toutle (26.0248) - Upstream of Bear Creek	July 16 - September 15
Tributaries to Silver Lake	July 16 - September 30
Germany Creek (25.0313)	July 16 - September 15
Kalama River (27.0002) - Mouth to Kalama Falls	August 1 - August 15
Kalama River (27.0002) - Upstream of Kalama Falls	August 1 - August 15
Lewis River (27.0168) - Mouth to East Fork Lewis River	August 1 - August 15
North Fork Lewis River (27.0334) - Confluence of East Fork to Merwin Dam	August 1 - August 15
North Fork Lewis River (27.0334) - Merwin Dam to Lower Falls	July 16 - August 15
Mill Creek (25.0284)	July 16 - September 15
Schoolhouse Creek (27.0139)	August 1 - August 31
Douglas County	July 1 - September 30
Columbia River	See below
Douglas Creek Canyon (44.0146)	May 16 - January 31
Foster Creek (50.0065)	August 1 - April 15
McCarteney Creek (44.0002)	July 1 - February 28
Pine/Corbaley Canyon Creek (44.0779)	September 16 - April 15
Rock Island Creek (44.0630)	July 1 - September 30

Washington Counties and State Waters Water Resource Inventory Area (WRIA) in parentheses	Aquatic Plant Removal or Control Recommended Only Between These Dates
Ferry County	July 1 - August 31
Columbia River	See below
Kettle River (60.0002)	June 16 - August 31
Boulder Creek (60.0130) - Mouth to Hodgson Road Bridge	Submit Application
Boulder Creek (60.0130) - Upstream of Hodgson Road Bridge	June 16 - February 28
Deadman Creek (60.0008) - Mouth to SR395 Crossing	Submit Application
Deadman Creek (60.0008) - Upstream of SR395	June 16 - February 28
Goosmus Creek (60.0254)	June 16 - February 28
Toroda Creek (60.0410)	July 1 - September 30
San Poil River (52.0004)	June 16 - September 30
Granite Creek (52.0099) - Mouth to Powerhouse Dam	June 16 - September 30
Granite Creek (52.0099) - Upstream of Powerhouse Dam	June 16 - February 28
West Fork River San Poil (52.0192) - Mouth to Deep Creek	June 16 - September 30
West Fork San Poil River (52.0192) - Upstream of Deep Creek	June 16 - September 30
Gold Creek (52.0197)	June 16 - February 28
Franklin County	June 1 - September 30
Columbia River	See below
Snake River	See below
Palouse River (34.0003)	July 16 - February 28
North bank tributaries of the lower Snake River between Palouse River and the mouth of the Snake River	June 16 - October 31
Garfield County	July 16 - September 30
Snake River (35.0003)	See below
Alpowa Creek (35.1440)	July 16 - December 15
Asotin Creek (35.1716)	July 16 - August 15
Deadman Creek (35.0688)	July 16 - December 15
Grande Ronde River tributaries (35.2192)	July 16 - August 15
Meadow Creek (35.0689)	July 16 - December 15
Tucannon River (35.0009) - Mouth to Panjab Creek	July 16 - August 15
Tucannon River (35.0009) - Upstream of Panjab Creek	July 16 - August 15
Pataha Creek (35.0123) - Mouth to Pataha Creek	January 1 - December 31
Pataha Creek (35.0123) - Upstream of Pataha Creek	July 16 - December 31
Grant County	July 1 - October 31
Columbia River	See below
Crab Creek (41.0002)	July 16 - September 15
Grays Harbor County	July 16 - October 15
Chehalis River (22.0190/23.0190) - Mouth to Porter Creek	August 1 - August 31
Chehalis River (22.0190/23.0190) - Porter Creek to Fisk Falls	August 1 - August 15
Chehalis River (22.0190/23.0190) - Upstream of Fisk Falls	August 1 - August 15
Cedar Creek (23.0570)	August 1 - September 30
Cloquallum Creek (22.0501)	August 1 - September 30
Porter Creek (23.0543)	August 1 - September 30
Satsop River (22.0360)	August 1 - August 31
Wishkah River (22.0191)	August 1 - October 15
Wynoochee River (22.0260)	August 1 - September 30
Copalis River (21.0767)	August 1 - October 15
Elk River (22.1333)	July 1 - October 31
Hoquiam River (22.0137)	August 1 - October 15
Humtulpis River (22.0004) - Mouth to Forks	August 1 - September 30
Humtulpis River (22.0004) - Upstream of Forks	August 1 - September 30
Johns River (22.1270)	August 1 - September 30
Moclips River (21.0731)	August 1 - October 15
North River (24.0034)	August 1 - September 30

Washington Counties and State Waters Water Resource Inventory Area (WRIA) in parentheses	Aquatic Plant Removal or Control Recommended Only Between These Dates
Queets River (21.0001)	August 1 - August 15
Quinault River (21.0398)	August 1 - August 15
Raft River (21.0337)	August 1 - October 15
Island County	June 16 - October 15
Cavalero Creek (06.0065)	June 16 - December 15
Chapman Creek (06.0070)	June 16 - December 15
Crescent Creek (06.0002)	June 16 - December 15
Cultus Creek (06.0026)	June 16 - March 15
Deer Creek (06.0024)	June 16 - March 15
Dugualla Creek (06.0001)	June 16 - March 15
Glendale Creek (06.0025)	June 16 - December 15
Kristoferson Creek (06.0062-06.0063)	May 1 - December 15
Maxwelton Creek (06.0029)	June 16 - December 15
North Bluff Creek (06.0006)	June 16 - March 15
Old Clinton Creek (06.0023)	June 16 - March 15
Jefferson County	July 16 - October 31
Big Quilcene River (17.0012) - Mouth to Falls	July 16 - August 31
Big Quilcene River (17.0012) - Falls to Forks	August 1 - February 28
Big Quilcene River (17.0012) - Upstream of Forks	August 1 - February 28
Bogachiel River (20.0162)	Submit Application
Chimacum Creek (17.0203)	July 16 - September 15
Donovan Creek (17.0115)	July 1 - October 15
Dosewallips River (16.0442)	July 16 - August 15
Duckabush River (16.0351)	July 16 - August 15
Dungeness River (18.0018)	August 1 - August 15
Elwha River (18.0272)	August 1 - August 15
Goodman Creek (20.0406)	August 1 - September 15
Hoh River (20.0422)	August 1 - August 15
Little Quilcene River (17.0076)	July 16 - August 31
Queets River (21.0001)	August 1 - August 15
Matheny Creek (21.0165)	August 1 - August 15
Sams River (21.0205)	August 1 - August 15
Quinault River (21.0398)	August 1 - August 15
Salmon Creek (17.0245)	July 16 - August 31
Skokomish River (16.0001)	August 1 - August 31
Snow Creek (17.0219)	July 16 - August 31
Tarboo Creek (17.0129)	August 1 - September 30
Thorndyke Creek (17.0170)	August 1 - October 15
King County	July 16 - September 30
Cedar River (08.0299) - Mouth to Forks	August 1 - August 31
Cedar River (08.0299) - Upstream of Forks	August 1 - August 31
Issaquah Creek (08.0178)	August 1 - August 31
Sammamish River (08.0057)	August 1 - August 31
Steele Creek (08.0379)	July 16 - February 28
Green River (Duwamish River) (09.0001) - Mouth to Sawmill Creek	August 1 - August 31
Green River (Duwamish River) (09.0001) - Upstream of Sawmill Creek	August 1 - August 31
Lake Washington tributaries (08.LKWA)	August 1 - August 31
Snoqualmie River (07.0219) - Mouth to Snoqualmie Falls	August 1 - August 15
Snoqualmie River (07.0219) - Snoqualmie Falls to mouth of South Fork	July 16 - February 28
Patterson Creek (07.0376)	July 16 - September 30
Middle Fork Snoqualmie River (07.0219) - Mouth to Taylor Creek	July 16 - February 28
Middle Fork Snoqualmie River (07.0219) - Upstream of Taylor Creek	July 16 - February 28
Goat Creek (07.0754)	July 16 - February 28

Washington Counties and State Waters	Aquatic Plant Removal or Control Recommended Only Between These Dates
Water Resource Inventory Area (WRIA) in parentheses	
North Fork Snoqualmie River (07.0527) - Mouth to Lennox Creek	July 16 - February 28
North Fork Snoqualmie River (07.0527) - Upstream of Lennox Creek	July 16 - February 28
Deep Creek (07.0562)	July 16 - February 28
Illinois Creek (07.0624)	July 16 - February 28
Lennox Creek (07.0596)	July 16 - February 28
Bear Creek (07.0606)	July 16 - February 28
Raging River (07.0384)	August 1 - September 15
South Fork Skykomish River (07.0012) - Mouth to Sunset Falls	August 1 - August 15
South Fork Skykomish River (07.0012) - Upstream of Sunset Falls	August 1 - August 15
Beckler River (07.1413) - Mouth to Boulder Creek	August 1 - August 15
Beckler River (07.1413) - Upstream of Boulder Creek	July 16 - February 28
Rapid River (07.1461) - Mouth to Meadow Creek	August 1 - August 31
Rapid River (07.1461) - Upstream of Meadow Creek	August 1 - February 28
Index Creek (07.1264) - Mouth to Mud Lake Creek	August 1 - August 31
Index Creek (07.1264) - Upstream of Mud Lake Creek including Salmon Creek	July 16 - February 28
Miller River (07.1329) - Mouth to Forks	August 1 - August 15
Miller River (07.1329) - Upstream of Forks	August 1 - August 15
Coney Creek (07.1347)	July 16 - February 28
East Fork Miller River (07.1329) - Mouth to Great Falls Creek	July 16 - August 15
East Fork Miller River (07.1329) - Upstream of Great Falls Creek	July 16 - February 28
Foss River (07.1562) - Mouth to Forks	July 16 - August 31
East Fork Foss River (07.1562) - Mouth to Burn Creek	July 16 - August 15
East Fork Foss River (07.1562) - Upstream of Burn Creek	July 16 - February 28
West Fork Foss River (07.1573) - Mouth to falls at River Mile 2.0	July 16 - August 31
West Fork Foss River (07.1573) - Upstream of falls at River Mile 2.0	July 16 - February 28
West Fork Miller River (07.1335)	July 16 - February 28
Money Creek (07.1300) - Mouth to 0.5 mile upstream of Kimball Creek	August 1 - August 31
Money Creek (07.1300) - Upstream of 0.5 mile upstream of Kimball Creek	August 1 - February 28
Kimball Creek (07.1301)	August 1 - August 31
Tye River (07.0012) - Mouth to Alpine Falls	August 1 - August 31
Tye River (07.0012) - Upstream of Alpine Falls	July 16 - February 28
South Fork Snoqualmie River (07.0467)	July 16 - February 28
Denny Creek (07.0517)	July 16 - February 28
Tolt River (07.0291) - Mouth to forks	August 1 - August 31
North Fork Tolt River (07.0291) - Mouth to Yellow Creek	July 16 - September 15
North Fork Tolt River (07.0291) - Upstream of Yellow Creek	July 16 - February 28
South Fork Tolt River (07.0302) - Mouth to dam	July 16 - September 15
South Fork Tolt River (07.0302) - Upstream of Tolt Reservoir	July 16 - February 28
Yellow Creek (07.0337)	July 16 - February 28
White River (10.0031)	July 16 - August 15
Greenwater River (10.0122)	July 16 - August 15
Kittitas County	July 1 - September 30
Brushy Creek (40.0612)	July 1 - February 28
Colockum Creek (40.0760)	July 1 - October 31
Quilomene Creek (40.0613)	July 1 - October 31
Stemilt Creek (40.0808) - Upstream of falls	July 1 - February 28
Tarpiscan Creek (40.0723)	July 1 - February 28
Tekiason Creek (40.0686)	July 1 - February 28
Whisky Dick Creek (40.0591)	July 1 - February 28
Yakima River (39.0002) - Roza Dam to Teanaway River	August 1 - August 31
Naches River (38.0003) - Tieton River to Bumping River	July 1 - August 15
Little Naches River (38.0852) - Mouth to Matthew Creek	July 16 - August 15
Little Naches River (38.0852) - Upstream of Matthew Creek	July 16 - August 15

Washington Counties and State Waters Water Resource Inventory Area (WRIA) in parentheses	Aquatic Plant Removal or Control Recommended Only Between These Dates
Pileup Creek (38.0932)	July 16 - August 31
Gold Creek (38.MISC)	July 16 - February 28
Swauk Creek (39.1157)	July 16 - September 30
Baker Creek (39.1157)	July 16 - September 30
First Creek (39.1157)	July 16 - September 30
Iron Creek (39.1157)	July 16 - September 30
Williams Creek (39.1157)	July 16 - September 30
Boulder Creek (39.1157)	July 16 - February 28
Cougar Gulch (39.1157)	July 16 - February 28
Lion Gulch (39.1157)	July 16 - February 28
Yakima River (39.0002) - Teanaway River to Easton Dam	August 1 - August 31
Yakima River (39.0002) - Upstream of Easton Dam	August 1 - August 31
Cle Elum River (39.1434) - Mouth to Dam	July 16 - August 31
Cle Elum River (39.1434) - Upstream of Cle Elum Dam	Submit Application
Big Boulder Creek (39.1434MISC)	August 1 - February 28
Camp Creek (39.1434MISC)	August 1 - February 28
Fortune Creek (39.1434MISC)	August 1 - August 15
South Fork Fortune Creek (39.1434MISC)	August 1 - February 28
Howson Creek (39.1434)	July 16 - February 28
Little Salmon Le Sac Creek (39.1482)	August 1 - August 15
Paris Creek (39.1434MISC)	August 1 - February 28
Salmon Le Sac Creek (39.1520)	August 1 - February 28
Kachess River (39.1739) - Upstream of Lake Kachess	Submit Application
Kachess River (39.1739) - Below Dam	July 16 - August 15
Box Canyon Creek (39.1765)	Submit Application
Mineral Creek (39.1792)	August 1 - August 15
Lake Keechelus (39.1842) tributaries	July 16 - August 15
Gold Creek (Lake Keechelus) (39.1842)	Submit Application
Manastash Creek (39.0988)	July 16 - September 30
Naneum Creek (39.0821)	July 16 - September 30
Taneum Creek (39.1081) - Mouth to I-90	July 16 - August 31
Taneum Creek (39.1157) - Upstream of I-90	July 16 - September 30
Teanaway River (39.1236)	July 16 - August 31
NF Teanaway River (39.1260)	Submit Application
Umtanum Creek (39.0553)	July 16 - September 30
Wenas Creek, Below Dam (39.0032)	July 16 - October 15
Wenas Creek, Upstream of Wenas Lake (39.0032)	July 16 - February 28
Other Yakima River tributaries not listed	July 16 - August 31
Kitsap County	July 16 - October 15
Anderson Creek (15.0211)	August 1 - November 15
Barker Creek (15.0255)	August 1 - September 30
Big Beef Creek (15.0389)	August 1 - August 15
Big Scandia Creek (15.0280)	August 1 - September 30
Blackjack Creek (15.0203)	August 1 - September 30
Burley Creek (15.0056)	August 1 - September 30
Chico Creek (15.0229)	August 1 - October 15
Clear Creek (15.0249)	August 1 - September 30
Curley Creek (15.0185)	August 1 - September 30
Dewatto River (15.0420)	August 1 - August 15
Dogfish Creek (15.0285)	August 1 - August 15
Gorst Creek (15.0216)	August 1 - August 15
Grovers Creek (15.0299)	August 1 - August 31
Johnson Creek (15.0387)	August 1 - October 31

Washington Counties and State Waters	Aquatic Plant Removal or Control Recommended Only Between These Dates
Water Resource Inventory Area (WRIA) in parentheses	
Ollala Creek (15.0107)	August 1 - September 30
Ross Creek (15.0209)	August 1 - November 15
Salmonberry Creek (15.0188)	August 1 - November 30
Seabeck Creek (15.0400)	August 1 - August 15
Steele Creek (15.0273)	August 1 - September 30
Tahuya River (15.0446)	August 1 - August 31
Union River (15.0503)	August 1 - August 31
Klickitat County	July 15 - September 30
Alder Creek (31.0459)	August 1 - September 30
Chapman Creek (31.0192)	August 1 - September 30
Glade Creek (31.0851)	August 1 - September 30
Juniper Canyon Creek (31.0378)	August 1 - September 30
Klickitat River (30.0002) - Mouth to Klickitat hatchery	Submit Application
Klickitat River (30.0002) - Upstream of Klickitat hatchery	Submit Application
Little White Salmon River (29.0131) - Mouth to Cabbage Creek	July 16 - January 31
Little White Salmon River (29.0131) - Upstream of Cabbage Creek	July 16 - January 31
Pine Creek (31.0354)	August 1 - September 30
Rock Creek (31.0014)	August 1 - September 30
Six Prong Creek (31.0465)	August 1 - September 30
White Salmon River (29.0160) - Mouth to Cascade Creek	July 16 - August 15
White Salmon River (29.0160) - Upstream of Cascade Creek	July 16 - August 15
Wood Gulch Creek (31.0263)	August 1 - September 30
Lewis County	August 1 - September 30
Chehalis River (22.0190/23.0190) - Mouth to South Fork Chehalis River	August 1 - August 15
Chehalis River (22.0190/23.0190) - Upstream of South Fork Chehalis River	August 1 - August 31
Newaukum River (23.0882) - Mouth to South Fork	August 1 - August 31
Newaukum River (23.0882) - Upstream of South Fork	August 1 - August 31
Skookumchuck River (23.0761)	August 1 - August 31
Cowlitz River (26.0002)	August 1 - August 15
Cispus River (26.0668) - Mouth to Squaw Creek (26.1010)	August 1 - August 15
Cispus River (26.0668) - Squaw Creek to Chambers Creek	July 16 - February 28
Cispus River (26.0668) - Upstream of Chambers Creek	July 16 - February 28
Yellowjacket Creek (26.0757)	August 1 - August 15
McCoy Creek (26.0766) - Mouth to lower falls	August 1 - August 15
McCoy Creek (26.0766) - Upstream of lower falls	July 16 - February 28
Walupt Creek (26.1010)	Submit Application
Packwood Lake Tributaries	August 16 - September 15
Tilton River (26.0560) - Mouth to North Fork	August 1 - September 30
Tilton River (26.0560) - Upstream of North Fork	August 1 - September 30
Toutle River (26.0227)	August 1 - August 31
North Fork Toutle River (26.0314)	July 16 - August 15
Green River (26.0323)	July 16 - September 30
Deschutes River (13.0028)	July 16 - August 31
Little Deschutes River (13.0110)	July 16 - February 28
Nisqually River (11.0008) - Upstream of Alder Lake	July 16 - September 30
Lincoln County	June 16 - February 28
Columbia River*	See below
Hawk Creek (53.0101) - Mouth to falls	June 16 - August 31
Hawk Creek (53.0101) - Upstream of falls	June 16 - February 28
Upper Crab Creek (42.0001)	June 16 - February 28
Wilson Creek (43.0020)	June 16 - February 28
Mason County	August 1 - October 15
Cloquallum Creek (22.0501)	August 1 - September 30

Washington Counties and State Waters	Aquatic Plant Removal or Control Recommended Only Between These Dates
Water Resource Inventory Area (WRIA) in parentheses	
Coulter Creek (15.0002)	August 1 - August 31
Dewatto River (15.0420)	August 1 - August 31
Goldsborough Creek (14.0035)	August 1 - October 15
John Creek (16.0253)	August 1 - August 31
Hamma Hamma River (16.0251) - Mouth to falls	August 1 - August 31
Johns Creek (14.0049)	August 1 - August 15
Lilliwaup River (16.0230) - Mouth to falls	August 1 - August 31
Lilliwaup River (16.0230) - Upstream of falls	August 1 - February 28
Mill Creek (14.0029)	August 1 - August 15
Satsop River (22.0360)	August 1 - August 31
Schaerer Creek (16.0326)	August 1 - August 31
Sherwood Creek (14.0094)	August 1 - August 15
Skokomish River (16.0001) - Mouth to Forks	August 1 - August 31
Skokomish River (16.0001) - Upstream of Forks	August 1 - August 31
Tahuya River (15.0446)	August 1 - August 31
Twanoh Creek (14.0134)	August 1 - October 31
Union River (15.0503)	August 1 - August 31
Okanogan County	July 1 - August 15
Aneas Creek (49.0243) - Mouth to falls	July 16 - August 31
Aneas Creek (49.0243) - Upstream of falls	July 1 - March 31
Chewiliken Creek (49.0232) - Mouth to falls	July 16 - August 31
Chewiliken Creek (49.0232) - Upstream of falls	July 1 - March 31
Chiliwist Creek (49.0034) - Mouth to falls	July 16 - August 31
Chiliwist Creek (49.0034) - Upstream of falls	July 1 - March 31
Foster Creek (50.0065)	July 1 - February 28
Methow River (48.0007) - Columbia confluence to Twisp River	July 1 - July 31
Methow River tributaries between Black Canyon Creek and Gold Creek	July 1 - February 28
Black Canyon Creek (48.0015) - Mouth to Left Fork	Submit Application
Black Canyon Creek (48.0015) - Upstream of Left Fork	July 1 - February 28
Gold Creek (48.0104) - Mouth to Foggy Dew Creek	Submit Application
Foggy Dew Creek (48.0153) - Mouth to Foggy Dew Falls	Submit Application
Foggy Dew Creek (48.0153) - Upstream of Foggy Dew Falls	July 1 - February 28
Middle Fork Gold Creek (48.0139)	July 1 - February 28
North Fork Gold Creek (48.0104)	Submit Application
Crater Creek (48.0177) - Mouth to Martin Creek	Submit Application
Crater Creek (48.0177) - Upstream of Martin Creek	July 1 - February 28
Martin Creek (48.0177)	July 1 - February 28
South Fork Gold Creek (48.0105) - Mouth to Rainy Creek	Submit Application
South Fork Gold Creek (48.0105) - Upstream of Rainy Creek	July 1 - February 28
Rainy Creek (48.0105)	July 1 - February 28
McFarland Creek (48.0090) - Mouth to Vinegar Gulch	Submit Application
McFarland Creek (48.0090) - Upstream of Vinegar Gulch	July 1 - February 28
Methow River tributaries between Libby Creek and Beaver Creek	July 1 - February 28
Beaver Creek (48.0307)	Submit Application
Frazer Creek (48.0309)	July 1 - February 28
Lightning Creek (48.0361)	July 1 - February 28
Middle Fork Beaver Creek (48.0307)	July 1 - February 28
South Fork Beaver Creek (48.0342)	July 1 - February 28
Libby Creek (48.0203) - Mouth to Hornet Draw Creek	Submit Application
Libby Creek (48.0203) - Upstream of Hornet Draw	July 1 - February 28
Methow River (48.0007) - Twisp River to Goat Creek	July 1 - July 31
Methow River (48.0007) - Upstream of Goat Creek	July 1 - July 31
Chewuch River (48.0728) - Mouth to Meadow Creek	July 1 - July 31

Washington Counties and State Waters	Aquatic Plant Removal or Control Recommended Only Between These Dates
Water Resource Inventory Area (WRIA) in parentheses	
Chewuch River (48.0728) - Upstream of Meadow Creek	July 1 - February 28
Early Winters Creek (48.1408) - Mouth to Silver Star Creek	Submit Application
Early Winters Creek (48.1408) - Upstream of Silver Star Creek	July 1 - February 28
Goat Creek (48.1364) - Mouth to 500' upstream of Montana Creek	Submit Application
Goat Creek (48.1364) - 500' Upstream of Montana Creek to Roundup Creek	July 1 - February 28
Goat Creek (48.1364) - Upstream of Roundup Creek	Submit Application
Lost River (48.0592)	July 16 - August 15
Twisp River (48.0374)	July 1 - July 31
Buttermilk Creek (48.0466)	Submit Application
North Creek (48.0674)	Submit Application
North Fork Twisp River (48.0691)	July 1 - February 28
South Creek (48.0641) - Upstream of Louis Creek	July 1 - February 28
South Creek (48.0641) - Mouth to Louis Creek	Submit Application
South Fork Twisp River (48.0698)	July 1 - February 28
Wolf Creek (48.1300)	Submit Application
Myers Creek (60.0517)	July 1 - February 28
Bolster Creek (60.0517)	July 1 - February 28
Ethel Creek (60.0517)	July 1 - February 28
Gold Creek (60.0517)	July 1 - February 28
Mary Ann Creek (60.0517)	July 1 - February 28
North Fork Mary Ann Creek (60.0517)	July 1 - February 28
Okanogan River (49.0019) - Mouth to Zosel Dam	July 1 - August 31
Antoine Creek (49.0294) - Mouth to velocity gradient at river mile 1.0	July 1 - February 28
Antoine Creek (49.0294) - Upstream of falls	July 1 - March 31
Bonaparte Creek (49.0246) - Upstream of falls	July 1 - March 31
Bonaparte Creek (49.0246) - Mouth to Bonaparte Falls at river mile 1.0	July 1 - February 28
Loup Loup Creek (49.0048) - Mouth to Loup Loup Falls at river mile 2.4	July 1 - February 28
Loup Loup Creek (49.0048) - Upstream of Loup Loup Falls at river mile 2.4	July 1 - March 31
Mosquito Creek (49.0321) - Mouth to falls	July 1 - August 31
Mosquito Creek (49.0321) - Upstream of falls	July 1 - March 31
Nine Mile Creek (49.0516)	July 1 - February 28
Omak Creek (49.0138) - Mouth to Mission Falls at river mile 5.4	July 1 - February 28
Omak Creek (49.0138) - Upstream of falls	July 1 - March 31
Salmon Creek (49.0079) - Mouth to diversion	July 1 - August 31
Salmon Creek (49.0079) - Upstream of diversion	July 1 - February 28
Similkameen River (49.0325) - Mouth to Enloe Dam	July 1 - August 31
Similkameen River (49.0325) - Upstream of Enloe Dam	July 1 - October 31
Sinlahekin Creek (49.0349) - Mouth to barrier dam at Connors Lake	July 1 - August 31
Cecile Creek (49.0447)	July 1 - February 28
Chopaka Creek (49.0357)	July 1 - February 28
Toats Coulee Creek (49.0368)	July 1 - February 28
Cougar Creek (49.0368)	July 1 - February 28
Siwash Creek (49.0284) - Falls to headwaters	July 1 - March 31
Siwash Creek (49.0284) - Mouth to falls at river mile 1.4	July 1 - February 28
Tonasket Creek (49.0501) - Mouth to Tonasket Falls at river mile 1.8	July 1 - February 28
Tonasket Creek (49.0501) - Upstream of Tonasket Falls at river mile 1.8	July 1 - March 31
Tunk Creek (49.0211) - Mouth to falls	July 1 - February 28
Tunk Creek (49.0211) - Upstream of falls	July 1 - March 31
San Poil River (52.0004)	June 16 - September 30
West Fork San Poil (52.0192)	June 16 - September 30
Gold Creek (52.0197)	June 16 - February 28
Toroda Creek (60.0410)	July 1 - September 30
Pacific County	August 1 - September 30

Washington Counties and State Waters	Aquatic Plant Removal or Control Recommended Only Between These Dates
Water Resource Inventory Area (WRIA) in parentheses	
Bear River (24.0689)	August 1 - September 30
Bone River (24.0405)	August 1 - September 30
Chehalis River (22.0190/23.0190)	August 1 - August 15
Columbia River	See below
Chinook River (24.MISC)	August 1 - September 30
Grays River (25.0093)	July 16 - September 15
Naselle River (24.0543)	August 1 - September 15
Nemah River (24.0460)	August 1 - September 30
Niawiakum River (24.0417)	August 1 - September 30
North River (24.0034)	August 1 - September 30
Palix River (24.0426)	August 1 - September 30
Willapa River (24.0251)	August 1 - September 30
Pend Oreille County	July 1 - August 31
Little Spokane River (55.0003)	August 1 - March 15
West Branch Little Spokane River (55.0439)	August 1 - March 15
Harvey Creek (62.0310) - Mouth to Rocky Fork of Harvey Creek	August 1 - August 31
Harvey Creek (62.0310) - Upstream of Rocky Fork of Harvey Creek	July 16 - February 28
Pend Oreille River (62.0002)	Submit Application
Big Muddy Creek (62.0279)	August 1 - March 15
Bracket Creek (62.0815)	August 1 - March 15
Calispel Creek (62.0628)	August 1 - August 31
Exposure Creek (62.0261)	August 1 - August 31
Kent Creek (62.0819)	August 1 - March 15
Le Clerc Creek (62.0415)	August 1 - August 31
Lime Creek (62.0014)	August 1 - March 15
Lodge Creek (62.0859)	August 1 - August 31
Lost Creek (62.0322)	August 1 - March 15
Marshall Creek (62.0842)	August 1 - March 15
Pee Wee Creek (62.0007) - Mouth to falls	August 1 - August 31
Pee Wee Creek (62.0007) - Upstream of falls	August 1 - March 15
Renshaw Creek (62.0310)	August 1 - March 15
Sullivan (O'Sullivan) Creek (62.0074)	August 1 - August 31
North Fork Sullivan Creek (62.0075)	August 1 - August 31
Tributaries of Deep Creek in Pend Oreille County (61.0195)	July 16 - August 15
Currant Creek (61.0249)	July 16 - August 15
Meadow Creek (61.0351)	July 16 - August 15
Rocky Creek (61.0364)	July 16 - August 15
Silver Creek (61.0195)	July 16 - August 15
Smackout Creek (61.0226)	July 16 - August 15
Pierce County	July 16 - August 31
Chambers/Clover Creek Watershed (12.MISC)	July 16 - September 30
Flett Creek (12.0009)	July 16 - October 31
Leach Creek (12.0008)	July 16 - September 30
Nisqually River (11.0008) - Mouth to Alder Lake	July 16 - August 31
Nisqually River (11.0008) - Upstream of Alder Lake	July 16 - September 30
Mashel River (11.0101) - Mouth to Busy Wild Creek	July 16 - September 30
Mashel River (11.0101) - Upstream of Busy Wild Creek	July 16 - September 30
Puyallup River (10.0021) - Mouth to PSE Electron Powerhouse Outfall	July 16 - August 31
Puyallup River (10.0021) - Upstream of PSE Electron Powerhouse Outfall	July 16 - August 15
Carbon River (10.0413)	July 16 - August 15
Cayada Creek (10.0525) - Mouth to falls about 800 feet upstream	July 16 - August 31
Cayada Creek (10.0525) - Upstream of the falls	January 1 - December 31
South Prairie Creek (10.0429)	July 16 - August 15

Washington Counties and State Waters	Aquatic Plant Removal or Control Recommended Only Between These Dates
Water Resource Inventory Area (WRIA) in parentheses	
Voight Creek (10.0414) - Mouth to falls at River Mile 4.0	July 16 - August 31
Voight Creek (10.0414) - Upstream of falls River Mile 4.0	July 16 - February 28
White River (10.0031)	July 16 - August 15
Clearwater River (10.0080)	July 16 - August 15
Greenwater River (10.0122)	July 16 - August 15
Huckleberry Creek (10.0253)	July 16 - August 15
West Fork White River (10.0186)	July 16 - August 15
Sequalitchew Creek (12.0019)	July 16 - September 30
San Juan County	July 1 - August 31
Cascade Creek (02.0057), Orcas Island - Upstream of lower falls	July 1 - February 28
Cascade Creek (02.0057), Orcas Island, Buck Bay to falls located approximately 300 feet above mouth	July 1 - October 31
Doe Creek (02.MISC), San Juan Island, Westcott Bay to falls (approximately 250 feet from mouth)	June 16 - October 15
False Bay Creek (02.MISC) - San Juan Island; Mouth to lake	July 1 - October 31
Glenwood Springs, Orcas Island; direct tributary to Eastsound Bay	July 1 - October 15
Moran Creek (02.MISC) - Orcas Island; from Cascade Lake delta upstream 1/4 mile	July 1 - October 15
Unnamed Creek (02.0041) - San Juan Island; Mouth to lake	July 1 - October 15
Skagit County	August 1 - September 15
Granite Creek (04.2313) - Upstream of East Creek	July 16 - February 28
North Fork Stillaguamish River (05.0135) - Mouth to Squire Creek	August 1 - August 15
North Fork Stillaguamish River (05.0135) - Squire Creek to Cascade Creek	August 1 - August 15
North Fork Stillaguamish River (05.0135) - Upstream of Cascade Creek	July 16 - February 28
Samish River (03.0005)	August 1 - September 15
Skagit River (03.0176/04.0176)	Submit Application
Baker River (04.0435) - Mouth to Baker Dam	Submit Application
Cascade River (04.1411)	Submit Application
Day Creek (03.1435)	July 16 - February 28
Lookout Creek (04.1447)	July 16 - February 28
Sibley Creek (04.1481)	July 16 - February 28
Day Creek (03.0299) - Mouth to Rocky Creek	Submit Application
Day Creek (03.0299) - Upstream of Rocky Creek	August 1 - February 28
Finney Creek (04.0392) - Mouth to Big Fir Creek	Submit Application
Finney Creek (04.0392) - Upstream of Big Fir Creek	July 16 - February 28
Illabot Creek (04.1346)	Submit Application
Sauk River (04.0673) - Mouth to Forks	Submit Application
Sauk River (04.0673) - Upstream of Forks	August 1 - August 15
Suiattle River (04.0710)	Submit Application
Wiseman Creek (03.0280) - Mouth to SR20	Submit Application
Wiseman Creek (03.0280) - Upstream of SR20	July 16 - February 28
South Fork Nooksack River (01.0246) - Mouth to falls at River Mile 30	Submit Application
South Fork Nooksack River (01.0246) - Falls at River Mile 30 to Wanlick Creek	Submit Application
South Fork Nooksack River (01.0246) - Upstream of Wanlick Creek	Submit Application
Skamania County	July 15 - September 15
Columbia River	See below
Cispus River (26.0668)	August 1 - August 15
Cispus River (26.0668) tributaries located in Skamania County	August 1 - October 31
East Fork Lewis River (27.0173) - Lucia Falls to Sunset Falls	August 1 - February 28
East Fork Lewis River (27.0173) - Upstream of Sunset Falls	August 1 - February 28
Green River (26.0323) (Tributary of North Fork Toutle River)	July 16 - September 30
Hamilton Creek (28.0303)	August 1 - August 31
Hardy Creek (28.0303)	August 1 - August 31
Little White Salmon River (29.0131) - Mouth to Hatchery	July 16 - August 15
Little White Salmon River (29.0131) - Hatchery to Cabbage Creek	July 16 - January 31

Washington Counties and State Waters	Aquatic Plant Removal or Control Recommended Only Between These Dates
Water Resource Inventory Area (WRIA) in parentheses	
Little White Salmon River (29.0131) - Upstream of Cabbage Creek	July 16 - January 31
North Fork Lewis River (27.0168) - Merwin Dam to Lower Falls Canyon Creek (27.0442)	July 16 - August 15
North Fork Lewis River (27.0168) - Upstream of Lower Falls	July 16 - February 28
Washougal River (28.0159) - Mouth to Stebbins Creek	August 1 - August 31
Washougal River (28.0159) - Upstream of Stebbins Creek	August 1 - August 31
White Salmon River (29.0160) - Mouth to Cascade Creek	July 16 - August 15
White Salmon River (29.0160) - Upstream of Cascade Creek	July 16 - August 15
Wind River (29.0023)	August 1 - August 15
Woodward Creek (28.0298)	August 1 - August 31
Snohomish County	July 16 - September 15
Lake Washington tributaries	August 1 - August 15
Sauk River (04.0673) - Mouth to Forks	August 1 - August 15
Sauk River (04.0673) - Upstream of Forks	August 1 - August 15
Suiattle River (04.0710)	August 1 - August 15
Snohomish River (07.0012) - Mouth to Highway 9	August 1 - October 31
Snohomish River (07.0012) - Upstream of Highway 9	August 1 - August 15
Pilchuck River (07.0125) - Mouth to City of Snohomish diversion dam	August 1 - August 31
Pilchuck River (07.0125) - City of Snohomish diversion dam to Boulder Creek	August 1 - September 15
Pilchuck River (07.0125) - Upstream of Boulder Creek	August 1 - September 15
Skykomish River (07.0012) - Mouth to forks	August 1 - August 15
Deer Creek (05.0173) - Mouth to stream mile 0.5	August 1 - August 31
Deer Creek (05.0173) - Upstream of stream mile 0.5	August 1 - February 28
North Fork Skykomish River (07.0982) - Mouth to Bear Creek Falls	August 1 - August 31
North Fork Skykomish River (07.0982) - Bear Creek Falls to Deer Falls	August 1 - August 31
North Fork Skykomish River (07.0982) - Deer Falls to West Cady Creek	August 1 - February 28
North Fork Skykomish River (07.0982) - Upstream of West Cady Creek	August 1 - February 28
Howard Creek (07.1042)	July 16 - February 28
Silver Creek (07.1053) - Mouth to Lake Gulch	August 1 - August 31
Silver Creek (07.1053) - Upstream of Lake Gulch	August 1 - February 28
Troublesome Creek (07.1085)	August 1 - February 28
West Fork Troublesome Creek (07.1092)	August 1 - August 31
South Fork Skykomish River (07.0012) - Mouth to Sunset Falls	August 1 - August 15
Beckler River (07.1413) - Mouth to Boulder Creek	August 1 - August 15
Beckler River (07.1413) - Upstream of Boulder Creek	July 16 - February 28
Rapid River (07.1461) - Mouth to Meadow Creek	August 1 - August 31
Rapid River (07.1461) - Upstream of Meadow Creek	August 1 - February 28
Sultan River (07.0881) - Mouth to Diversion Dam at river mile 9.4	August 1 - August 15
Sultan River (07.0881) - Diversion Dam to Elk Creek	July 16 - February 28
Sultan River (07.0881) - Upstream of Elk Creek	July 16 - February 28
Wallace River (07.0940) - Mouth to Wallace Falls	August 1 - August 31
Wallace River (07.0940) - Upstream of Wallace Falls	August 1 - February 28
Olney Creek (07.0946) - Mouth to Olney Falls	August 1 - August 31
Olney Creek (07.0946) - Upstream of Olney Falls	August 1 - February 28
Snoqualmie River Mouth to Falls (07.0219)	August 1 - August 15
All other Snohomish River tributaries	August 1 - August 31
Stillaguamish River (05.0001) - Mouth to forks	August 1 - August 31
North Fork Stillaguamish River (05.0135) - Mouth to Squire Creek	August 1 - August 15
North Fork Stillaguamish River (05.0135) - Squire Creek to Cascade Creek	August 1 - August 15
North Fork Stillaguamish River (05.0135) - Upstream of Cascade Creek	July 16 - February 28
South Fork Stillaguamish River (05.0001) - Mouth to Deer Creek	August 1 - August 15
South Fork Stillaguamish River (05.0001) - Upstream of Deer Creek	August 1 - August 15
Spokane County	June 16 - August 31

Washington Counties and State Waters	Aquatic Plant Removal or Control Recommended Only Between These Dates
Water Resource Inventory Area (WRIA) in parentheses	
Latah Creek (56.0003)	June 16 - August 31
Little Spokane River (55.0600) - Mouth to Deer Creek	June 16 - August 31
Little Spokane River (55.0600) - Upstream of Deer Creek	June 16 - August 31
Spokane River (57.0001)	June 16 - August 31
Stevens County	July 16 - August 31
Columbia River	See below
Big Sheep Creek (61.0150)	July 16 - August 15
Colville River (59.0002) - Mouth to the Falls	July 16 - September 30
Colville River (59.0002) - Upstream of the Falls	July 16 - September 30
Deep Creek (61.0195)	July 16 - August 15
Onion Creek (61.0098)	July 16 - August 15
Sheep Creek (59.0861)	July 16 - September 30
Lake Roosevelt tributaries from the mouth of the Spokane River to mouth of the Colville River	July 16 - February 28
Lake Roosevelt tributaries from the mouth of the Colville River north to the B.C. Border	July 16 - February 28
Tributaries of Little Spokane River (55.0600)	June 16 - August 31
Calispel Creek (62.0628)	August 1 - August 31
Other tributaries to the Pend Oreille River in Stevens County	July 1 - August 31
Thurston County	July 16 - September 15
Cedar Creek (23.0570)	August 1 - September 30
Chehalis River (22.0190/23.0190) - Upstream of Porter Creek	August 1 - August 15
Skookumchuck River (23.0761) - Mouth to Skookumchuck Reservoir	August 1 - August 31
Skookumchuck River (23.0761) - Upstream of Skookumchuck Reservoir	August 1 - August 31
Deschutes River (13.0028) - Mouth to Deschutes Falls	July 16 - August 31
Deschutes River (13.0028) - Upstream of Deschutes Falls	July 16 - August 31
Ellis Creek (13.0022)	May 16 - September 30
Little Deschutes River (13.0110)	July 16 - February 28
McLane Creek (13.0138)	August 1 - October 31
Percival Creek (13.0029)	July 16 - August 31
Nisqually River (11.0008)	July 16 - August 31
Tributaries of Nisqually River (11.0008)	July 16 - August 31
Porter Creek (23.0543)	August 1 - September 30
Schneider Creek (14.0009)	August 1 - October 31
Waddell Creek (23.0677)	August 1 - September 30
Woodard Creek (13.0012)	July 16 - August 31
Woodland Creek (13.0006)	July 16 - September 30
Wahkiakum County	July 16 - September 15
Columbia River	See below
Abernathy Creek (25.0297)	July 16 - September 15
Deep River (25.0011)	July 16 - September 15
Elochoman River (25.0236)	July 16 - September 15
Grays River (25.0093)	July 16 - September 15
Mill Creek (25.0284)	July 16 - September 15
Naselle River (24.0543)	July 16 - September 15
Skamokowa Creek (25.0194)	July 16 - September 15
Walla Walla County	July 16 - September 30
Walla Walla River (32.0008) - Mouth to Oregon state line	July 16 - September 15
Mill Creek (32.1436) - Mouth to Oregon state line	August 1 - August 15
Touchet River (32.0097) - Mouth to Forks	August 1 - August 15
North Fork Touchet/Wolf Fork (32.0761)	Submit Application
South Fork Touchet (32.0708)	Submit Application
Whatcom County	July 16 - August 15
Damfino Creek (00.0032)	July 16 - August 31
Nooksack River (01.0120)	Submit Application

Washington Counties and State Waters	Aquatic Plant Removal or Control Recommended Only Between These Dates
Water Resource Inventory Area (WRIA) in parentheses	
Cascade Creek (02.0057) - Mouth to FR 37	Submit Application
Cascade Creek (02.0057) - Upstream of FR 37	July 16 - February 28
Middle Fork Nooksack River (01.0339) - Mouth to City of Bellingham Diversion Dam	Submit Application
Middle Fork Nooksack River (01.0339) - Upstream of City of Bellingham Diversion Dam	Submit Application
North Fork Nooksack River (01.0120) - Mouth to Nooksack Falls	Submit Application
North Fork Nooksack River (01.0120) - Upstream of Nooksack Falls	Submit Application
Barometer Creek (01.0513)	July 16 - February 28
Ruth Creek (01.0531)	July 16 - February 28
Swamp Creek (01.0518)	July 16 - February 28
Wells Creek (02.0057)	Submit Application
Bar Creek (01.0500)	July 16 - February 28
South Fork Nooksack (01.0246) - Mouth to Wanlick Creek	Submit Application
South Fork Nooksack (01.0246) - Upstream of Wanlick Creek	Submit Application
Samish River (03.0005)	July 16 - August 15
Skagit River (03.0176/04.0176)	Submit Application
Baker River (04.0435) - Mouth to Baker Lake Dam (04.0435)	Submit Application
Baker River (04.0435) - Baker Lake to national park boundary	Submit Application
Boulder Creek (04.0499)	July 16 - February 28
Park Creek (04.0506) - Mouth to fish passage barrier at river mile 1.6	Submit Application
Park Creek (04.0506) - Upstream of river mile 1.6	July 16 - February 28
Swift Creek (04.0509) - Mouth to Rainbow Creek	Submit Application
Swift Creek (04.0509) - Upstream of Rainbow Creek	July 16 - February 28
Ross Lake (03.0176/04.0176) tributaries	Submit Application
Ruby Creek (04.2199)	Submit Application
Canyon Creek (04.2458) - Mouth to Barron Creek	Submit Application
Canyon Creek (04.2458) - Upstream of Barron Creek and tributaries	October 1 - February 28
Barron Creek (04.2591)	October 1 - February 28
Boulder Creek (04.2478) - Mouth to 300 feet upstream	Submit Application
Boulder Creek (04.2478) - 300 feet upstream of mouth to headwaters	October 1 - February 28
Friday Creek (04.2549) - Mouth to 300 feet upstream	Submit Application
Friday Creek (04.2549) - 300 feet upstream of mouth to headwaters	October 1 - February 28
Holmes Creek (04.2473) - Mouth to 300 feet upstream	Submit Application
Holmes Creek (04.2473) - 300 feet upstream of mouth to headwaters	October 1 - February 28
Mill Creek (04.2504) - Mouth to 300 feet upstream	Submit Application
Mill Creek (04.2504) - 300 feet upstream of mouth to headwaters	October 1 - February 28
Nickol Creek (04.2476) - Mouth to 300 feet upstream	Submit Application
Nickol Creek (04.2476) - 300 feet upstream of mouth to headwaters	October 1 - February 28
North Fork Canyon Creek (04.2583) - Mouth to Elk Creek	Submit Application
Cascade Creek (05.2584)	October 1 - February 28
North Fork Canyon Creek (04.2583) - Upstream of Elk Creek	October 1 - February 28
Slate Creek (04.2557) - Mouth to falls at River Mile 0.6	Submit Application
Slate Creek (04.2557) - Upstream of falls at River Mile 0.6	October 1 - February 28
Granite Creek (04.2313) - Mouth to East Creek	Submit Application
Granite Creek (04.2313) - Upstream of East Creek and tributaries	October 1 - February 28
Saar Creek (00.0003)	August 1 - September 30
Silesia Creek (00.0042) - Canadian Border to Middle Fork	July 16 - August 15
Silesia Creek (00.0042) - Middle Fork to national park boundary	July 16 - February 28
Rapid Creek (00.0048)	July 16 - February 28
West Fork Silesia Creek (00.0044)	July 16 - February 28
Winchester Creek (00.0045)	July 16 - February 28
Whitman County	July 16 - December 15
Snake River (35.0002)	See below
Alkali Flats Creek (35.0570)	July 16 - December 15

Washington Counties and State Waters	Aquatic Plant Removal or Control Recommended Only Between These Dates
Water Resource Inventory Area (WRIA) in parentheses	
Almota Creek (35.1017)	July 16 - December 15
Little Almota Creek (35.1018)	July 16 - December 15
Palouse River (34.0003) - Mouth to Palouse Falls	July 16 - September 30
Palouse River (34.0003) - Upstream of Palouse Falls	July 16 - February 28
Penewawa Creek (35.0916)	July 16 - December 15
Wawawi Canyon Creek (35.1165)	July 16 - December 15
Yakima County	June 1 - September 15
Glade Creek (31.0851)	August 1 - September 30
Klickitat River (30.0002)	Submit Application
Yakima River (37.0002/38.0002/39.0002) - Mouth to Roza Dam	June 1 - September 15
Ahtanum Creek (37.1382)	June 16 - September 30
North Fork Ahtanum Creek (37.1382)	Submit Application
South Fork Ahtanum Creek (37.1382)	Submit Application
Naches River (38.0003) - Mouth to Tieton River	July 1 - October 15
Naches River (38.0003) - Upstream of mouth of Tieton River to Bumping River	July 1 - August 15
Bumping River (38.0998)	July 16 - August 15
American River (38.1000)	Submit Application
Gold Creek (38.MISC)	July 16 - February 28
Kettle Creek (38.1033)	Submit Application
Miner Creek (38.1027)	July 16 - February 28
Morse Creek (38.1072) - Mouth to SR410 Crossing	August 1 - August 15
Morse Creek (38.1072) - Upstream of SR410 Crossing	August 1 - February 28
Rock Creek (38.MISC)	July 16 - February 28
Timber Creek (38.1062)	August 1 - August 15
Union Creek (38.1045) - Upstream of 500' above falls	August 1 - February 28
Union Creek (38.1045) - Mouth to 500' above falls	Submit Application
Other American River tributaries not listed	August 1 - February 28
Deep Creek (38.MISC)	Submit Application
Copper Creek (38.MISC)	August 1 - August 15
Cowiche Creek (38.0005) - Mouth to South Fork Cowiche Creek	July 1 - September 30
North Fork Cowiche Creek (38.0008)	July 1 - February 28
South Fork Cowiche Creek (38.0031) - Mouth to Reynolds Creek	July 1 - September 30
South Fork Cowiche Creek (38.0031) - Upstream of Reynolds Creek	July 16 - October 31
Granite Creek (38.MISC)	August 1 - August 15
Little Naches River (38.0852) - Mouth to Matthews Creek	July 16 - August 15
Little Naches River (38.0852) - Upstream of Matthews Creek	July 16 - August 15
Crow Creek (38.0858)	July 16 - August 15
Nile Creek (38.0692)	July 16 - October 15
Rattlesnake Creek (38.0518)	July 16 - August 15
Tieton River (38.0166) - Mouth to Rimrock Dam	July 1 - August 31
North Fork Tieton River (38.0291) - Below Clear Lake Dam	Submit Application
North Fork Tieton River (38.0291) - Upstream of Clear Lake	July 1 - August 15
Clear Creek (38.0317)	July 16 - February 28
South Fork Tieton River (38.0374) - Below South Fork Falls	Submit Application
South Fork Tieton River (38.0374) - Upstream of South Fork Falls	July 16 - February 28
Indian Creek (38.0302)	Submit Application
Tributaries of Tieton River below Rimrock Dam	July 16 - February 28
Umtanum Creek (39.0553)	July 16 - September 30
Wenas Creek (39.0032)	July 16 - October 15
Other Yakima River tributaries	July 16 - August 31
Columbia River	-
Mouth to the I-205 Bridge	August 1 - March 31
I-205 Bridge to Bonneville Dam	July 16 - September 15

Washington Counties and State Waters	Aquatic Plant Removal or Control Recommended Only Between These Dates
Water Resource Inventory Area (WRIA) in parentheses	
Bonneville Dam to Snake River	July 16 - February 28
Snake River to Priest Rapids Dam	July 16 - September 30
Priest Rapids Dam to Mouth of Crab Creek	July 16 - February 28
Mouth of Crab Creek to Wanapum Dam	July 16 - September 30
Wanapum Dam to the SR 285 bridge in South Wenatchee	July 16 - February 28
SR 285 bridge in South Wenatchee to the SR 2 bridge	July 16 - September 30
SR 2 bridge to one mile downstream of the Chelan River	July 16 - February 28
From one mile downstream of the Chelan River to the SR 97 bridge	July 16 - September 30
From SR 97 bridge to Chief Joseph Dam	July 16 - February 28
Chief Joseph Dam to Grand Coulee Dam	June 16 - March 31
Grand Coulee Dam to Canadian border	Submit Application
All Columbia River tributaries	See county listings
Snake River	-
Mouth to Ice Harbor Dam	July 16 - September 30
Ice Harbor Dam to Mouth of Clearwater River	July 16 - March 31
Mouth of Clearwater River to State Line	August 1 - August 31
All Snake River tributaries	See county listings
Lakes	Use County Work Times
Marine waters, Strait of Juan de Fuca, Puget Sound, and Hood Canal	Use County Work Times