APPENDIX F :

SALMONID FISH HABITAT USE SCHEDULE FOR NORTH COAST BASIN RIVERS AND STREAMS

Salmonid Fish Habitat Use

Salmonid fish (salmon and trout) are present throughout the North Coast subbasins planning area, although the various stocks/species use different parts of watersheds at different times, and not all stocks/species are present in all watersheds. Salmonid habitat use has been defined for many watersheds in the North Coast Subbasins. This information was used in the North Coast Subbasins TMDL for determining the appropriate period for applying separate criteria of the temperature standard. The temperature standard includes a year-round criterion of 64°F for protection of migration and rearing, and 55°F criterion for protection of spawning and egg incubation through fry emergence. Both of these criteria are applied as a 7-day average of daily maximum temperatures. In addition, increases in water temperature due to anthropogenic sources of heat are not permitted when the biological integrity of populations of federally threatened or endangered species would be impaired. In practice, this is most important for determining appropriate discharge limits for point sources of heat (e.g., wastewater treatment plants).

The following tables were provided by Joe Sheahan of the Oregon Department of Fish and Wildlife. Tables were developed based on observations and professional judgment of local fishery biologists. These tables suggest significant variability among streams for some species.

Specific Information is provided for the following watersheds: **Nehalem Subbasin**

- Lower Nehalem River:
- Upper Nehalem River;
- North Fork Nehalem River;
- Cook Creek:
- Salmonberry River;
- Other Lower Nehalem Tributaries;

Necanicum Subbasin

- Necanicum River and Tributaries;
- Ecola Creek and Tributaries;

Lower Columbia/Youngs River Subbasin

- Youngs River;
- Wallooski River;
- Other Columbia River Estuary Tributaries.

| Life Stage/Activity/Species | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
|--------------------------------------|-----|----------|--------|----------|----------|---------|---------|----------|--------|----------|----------|-----|
| Upstream Adult Migration | | | | | | | | | | | | |
| Summer Steelhead | | | | | | | | | | | | |
| Winter Steelhead | | | | _ | | | | | | | | |
| Spring Chinook | | | | | | | | | _ | | | |
| Fall Chinook | | | | | | | | | | | - | |
| Coho | | | | | | | | | | | - | |
| Chum | | | | | | | | | | | | |
| Sockeye | | | | | | | | | | | | |
| Cutthroat Trout - resident/migratory | | | | | | | | | | | | |
| Adult Holding | | | | | | | | | | | | |
| Summer Steelhead | | | | | | | | | | | | |
| Winter Steelhead | | | | | | | | | | | | |
| Spring Chinook | | | | | | _ | | . — | | | | |
| Fall Chinook Coho | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| Chum Sockeye | | | | | | | | | | | | |
| Cutthroat Trout - resident/migratory | | | | | | | | | | | | |
| Adult Spawning | | | | | | | | | | | | |
| Summer Steelhead | | | | | | | | | | | | |
| Winter Steelhead | | | | | | | | | | | | |
| Spring Chinook | | | | | | İ | | | | <u> </u> | | |
| Fall Chinook | | | | | | | | | | | <u>.</u> | |
| Coho | | | | | | | | | 1 | | - | |
| Chum | | | | | | | | ' | 1 | | • | |
| Sockeye | | | | | | | | | | | 1 | |
| Cutthroat Trout - resident/migratory | | | | | | | | | | | | |
| Egg Incubation through Fry Emergence | | | | | | | | | | | | |
| Summer Steelhead | | | | | | | | | | | | |
| Winter Steelhead | | | | | | | | | | | | |
| Spring Chinook | | | | | | | | | | 7 | | |
| Fall Chinook | | | | | | | | | | | | |
| Coho | | | | | | | | | | | | |
| Chum | | | | | | | | | | | | |
| Sockeye | | | | | | | | | | | | |
| Cutthroat Trout - resident/migratory | | | | | | | | | | | | 1 |
| Juvenile Rearing | | | | | | | | | | | | |
| Summer Steelhead | | | | | | | | | | | | |
| Winter Steelhead | | | _ | | 1 | | 1 | | | | | |
| Spring Chinook | | | _ | | | | | | | | | T |
| Fall Chinook Coho | | | | | | | I | | | | | |
| Chum | | | | | | | | | | | | |
| Sockeye | | _ | | | | | | | | | | |
| Cutthroat Trout - resident/migratory | | | | | 1 | | 1 | 1 | | 1 | 1 | 1 |
| Downstream Juvenile Migration | | | | | | | | | | | | |
| Summer Steelhead | | | | | | | | | | | | |
| Winter Steelhead | | | | | | | | | | | | |
| Spring Chinook | | | I | | | | | | | | | |
| Fall Chinook | | | | | | ľ | | | | | | |
| Coho | | | | | | | | | | | | |
| Chum | | | | | | ľ | | | | | | |
| Sockeye | | | | | | | | | | | | |
| Cutthroat Trout - resident/migratory | | | | | | | | | | | | |
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| | Ret | oresents | period | s of pea | k use ba | ased on | profess | ional or | inion. | | | |
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| Life Stage/Activity/Species | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
|--|-----|--------|-----|-----|--------|-------|-----|-----|----------|-----|------|----------|
| Upstream Adult Migration | oun | 1 00 | | | 1.1200 | 0 ull | oui | | Sep | 0 | 1101 | 200 |
| Summer Steelhead | | | | | | | | | | | | |
| Winter Steelhead | | | | | | | | | | | | <u> </u> |
| Spring Chinook | | | | | Ī | | | | | | | |
| Fall Chinook | | | | | | | | | | | 1 | _ |
| Coho | | | | | | | | | · | | • | |
| Chum | | | | | | | | | | | | |
| Sockeye | | | | | | | | | | | | |
| Cutthroat Trout - resident/migratory | | | | | | | | | | | | |
| Adult Holding | | | | | | | | | | | | |
| Summer Steelhead | | | | | | | | | | | | |
| Winter Steelhead | | | | | | | | | | | | |
| Spring Chinook | | | | | , | | | | | | | |
| Fall Chinook | | | | | | | | | | | | |
| Coho | | | | | | | | | | | | |
| Chum | | | | | | | | | | | | |
| Sockeye | | | | | | | | | | | | |
| Cutthroat Trout - resident/migratory | | | | | | | | | | | | |
| Adult Spawning Summer Steelhead | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| Winter Steelhead | | | | | | l I | | _ | <u> </u> | | | - |
| Spring Chinook | | | | | | | | _ | r | - | | |
| Fall Chinook | | | | | | | | | | - | • | |
| Coho | | | | | | | | | | | | |
| Chum | | | | | | | | | | | i i | |
| Sockeye | | | | | | | | | | | | |
| Cutthroat Trout - resident/migratory Egg Incubation through Fry Emergence | | | | | _ | T I | | | | | | |
| Summer Steelhead | | | | | | | | | | | | |
| Winter Steelhead | | | | | | | | | | | | |
| Spring Chinook | | | | | | 1 | | | | | 1 | <u> </u> |
| Fall Chinook | | | | | | | | | — | r | 1 | |
| Coho | | | | | | | | | | | | |
| Chum | | | | | | | | | | | | |
| Sockeye | | | | | | | | | | | | |
| Cutthroat Trout - resident/migratory | | | | | | | | | | | | |
| Juvenile Rearing | | | | | | t i | | | | | | |
| Summer Steelhead | | | | | | | | | | | | |
| Winter Steelhead | | | | | | | | | | | | _ |
| Spring Chinook | | | | | | | | | | | | _ |
| Fall Chinook | | | | | | | | | | | | |
| Coho | | | | | | | | | | | | |
| Chum | | | | | | | | | | | | |
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| Cutthroat Trout - resident/migratory | l | | | | | | | | 1 | | 1 | |
| Downstream Juvenile Migration | | | | | | | | | | | | |
| Summer Steelhead | | | | | | | | | | | | |
| Winter Steelhead | | | | | | 1 | | | | | | |
| Spring Chinook | | | _ | | | T | | | | | | |
| Fall Chinook | | | | | | 1 | | 1 | | | | |
| Coho | | | | | _ | | | | | | | |
| Chum | | | | | | | | | | | | |
| Sockeye | | | | | | | | | | | | |
| Cutthroat Trout - resident/migratory | | | | | | | | 1 | | | | |
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Upper Nehalem River (above Highway 26) Anadromous

Represents periods of peak use based on professional opinion.

- Represents lesser level of use based professional opinionXRepresents periods of use based on reported observation.
- Represents periods of use based on reported observation.

North Fork Nehalem River Anadromous

| Life Stage/Activity/Species | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
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| Upstream Adult Migration | | | | | | | | | | | | |
| Summer Steelhead | | | | | | | | | | | | |
| Winter Steelhead | | | | | | | | | | | | |
| Spring Chinook | | | | | | | | | | | | |
| Fall Chinook | | | | | | | | | | | | |
| Coho | | | | | | | | | | | | — |
| Chum | | | | | | | | | | | | |
| Sockeye | | | | | | | | | | | | _ |
| Cutthroat Trout - resident/migratory | | | | | | | | | | · · · · · | | |
| Adult Holding | | | | | | | | | | | | |
| Summer Steelhead | | | | | | | | | | | | |
| Winter Steelhead | | | | | | | | | | | | |
| Spring Chinook | | | | | | | | | | | | |
| Fall Chinook | | | | | | | | | | | | |
| Coho | | | | | | | | | | | | |
| Chum | | | | | | | | | | | | |
| Sockeye | | | | | | | | | | | | |
| Cutthroat Trout - resident/migratory | | | | | | | | | | | | |
| Adult Spawning | | | | | | | | | | | | |
| Summer Steelhead | | | | | | | | | | | | |
| Winter Steelhead | | | | | | | | | | | | |
| Spring Chinook | | | - | | | | | | | | | |
| Fall Chinook | | | | | | | | | | | | |
| Coho | | | | | | | | | | | | _ |
| Chum | | | | | | | | | | | | |
| Sockeye | | | | | | | | | | | | |
| Cutthroat Trout - resident/migratory | | | | | | | | | | | | |
| Egg Incubation through Fry Emergence | | | | | | | | | | | | |
| Summer Steelhead | | | | | | | | | | | | |
| Winter Steelhead | | | | | | | | | | | | |
| Spring Chinook | | | I | _ | | | | | | | | |
| Fall Chinook | | | | | | | | | | | | |
| Coho | | | | | | | | | • | | | _ |
| | | | _ | | | | | | | | _ | |
| Chum | | | | | | | | | | | _ | |
| Sockeye Cutthroat Trout - resident/migratory | | | | | | | | | | | | |
| Iuvenile Rearing | | | | | | | | | | | | |
| Summer Steelhead | | | | | | | | | | | | |
| Winter Steelhead | | | | | | | | | | | | |
| Spring Chinook | | | | | | | | | | | | |
| Fall Chinook | | | | | | | | | | | | |
| Coho | | | | | 1 | 1 | | | | | | I |
| Chum | | | | | | | | | | | | |
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| Sockeye | | | | | | | | | | | | |
| Cutthroat Trout - resident/migratory Downstream Juvenile Migration | | | | | | | | | | | | |
| Summer Steelhead | | | | | | | | | | | | |
| Winter Steelhead | | | | | | | | | | | | |
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| Spring Chinook | · | | | | _ | | | | | | | |
| Fall Chinook | | | | | | | | | | | | |
| Coho | | | | | _ | | | | | | | |
| Chum | | _ | | | | | | | | | | |
| Sockeye | | | | | | | | | | | | |
| Cutthroat Trout - resident/migratory | <u> </u> | | | | | | | | | | | |
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| | Ret | presents | lesser l | level of | use bas | sed prof | essional | l opinio | n | | | |
| | Rep X Rep | presents presents | lesser l periods | evel of s of use | use bas based c | | essional ted obse | l opinio ervation | n ı. | | | |

Cook Creek Anadromous

| Life Stage/Activity/Species | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
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| Upstream Adult Migration | | | | | | | | | | | | |
| Summer Steelhead | | | | | | | | | | | | |
| Winter Steelhead | | | | | | | | | | | | |
| Spring Chinook | | | | | | | | | | _ | | |
| Fall Chinook | | | | | | | | | | | | |
| Coho | | | | | | | | | | | | |
| Chum | | | | | | | | | | | | |
| Sockeye | | | | | | | | | | | 1 | |
| Cutthroat Trout - resident/migratory | | | | | | | | | | | | |
| Adult Holding | | | | | | | | | | | | |
| Summer Steelhead | | | | | | | | | | | | |
| Winter Steelhead | | | | | | | | | | | | |
| Spring Chinook | | | | | | | | | | | | |
| Fall Chinook | | | | | | | | | | | | |
| Coho | | | | | | | | | | | | |
| Chum | | | | | | | | | | | | |
| Sockeye | | | | | | | | | | | | |
| Cutthroat Trout - resident/migratory | | | | | | | | | | | | |
| Adult Spawning | 1 | | | | | | | | | | | |
| Summer Steelhead | | | | | | | | | | | | |
| Winter Steelhead | | | | | | | | | | | | |
| Spring Chinook | | | | | | - | | | | - | | |
| Fall Chinook | 1 | | | | | | | | | | | |
| Coho | 1 | | | | | | | | Ú . | | | _ |
| Chum | | | | | | | | | | | | |
| Sockeye | | | | | | | | | | | | |
| Cutthroat Trout - resident/migratory | | 1 | | 1 | | | | | | | | |
| Egg Incubation through Fry Emergence | | | 1 | | | t | | | | | | |
| Summer Steelhead | | | | | | | | | | | | |
| Winter Steelhead | | | | | | | | | | | | |
| Spring Chinook | | | 1 | | | T | 1 | | | | | |
| Fall Chinook | | 1 | 1 | | | | | | | | | |
| Coho | | | | | | | | | | | | |
| Chum | | | | | | | | | | | | |
| Sockeye | | | | | | | | | | | | |
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| Cutthroat Trout - resident/migratory | | | | | | Ī | | | | · | _ | |
| Juvenile Rearing | | | | | | | | | | | | |
| Summer Steelhead Winter Steelhead | | | | | | | | | | | | |
| Winter Steelhead | | | | | | | | | | | | |
| Spring Chinook | | | | | - | | | | | | | |
| Fall Chinook | | | | | - | | | | I | | | |
| Coho | | | | | | | | | | | | |
| Chum | | | | | | | | | | | | |
| Sockeye | | | | | | | | | | | | |
| Cutthroat Trout - resident/migratory | | | | | | | | 1 | | | | |
| Downstream Juvenile Migration | | | | | | | | | | | | |
| Summer Steelhead | | | | | | | | | | | | |
| Winter Steelhead | 1 | | | | | | | | | | | |
| Spring Chinook | 1 | | | | 1 | | | | | | | |
| Fall Chinook | 1 | | | | | | | | | | | |
| Coho | | | | | | | | | | | | |
| Chum | | | | | | | | | | | | |
| Sockeye | | | | | | | | | | | | |
| Cutthroat Trout - resident/migratory | | | | | | | | | | | | |
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| | | | | s of pre | sence-n | o level | of use i | ndicated | d | | | |
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Salmonberry River Anadromous

| Life Stage/Activity/Species | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
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| Upstream Adult Migration | | | | | | | | | | | | |
| Winter Steelhead | | | | | | | | | | | | |
| Spring Chinook | | | | | | | | | | | | |
| Fall Chinook | | | | | | | | | | | • | |
| Coho | | | | | | | | | | | - | |
| Cutthroat Trout - resident/migratory | _ | | 1 | | | | | , , | | · | - | |
| Adult Holding | | | | | | | | | | | | |
| Winter Steelhead | | | | | | | | | | | | |
| Spring Chinook | | | | | | | | | | | | |
| Fall Chinook | | | | | | | | | | I | | |
| Coho | | | | | | | | | | | | |
| Cutthroat Trout - resident/migratory | | | | | | | | | | | | |
| Adult Spawning | | | | | | | | | | | | |
| Winter Steelhead | | | | | | | | | | | | |
| Spring Chinook | | | | | | | | | | | | |
| Fall Chinook | | | | | | | | | | | - | |
| Coho | | | | | | | | | | | • | |
| Cutthroat Trout - resident/migratory | | | | | | | | | | | | |
| Egg Incubation through Fry Emergence | | | | | | | | | | | | |
| Winter Steelhead | | | | | | | | | | | | |
| Spring Chinook | | | | | | | | | | | | |
| Fall Chinook | | | | | | | | | | | | |
| Coho | | | | | | | | | | | | |
| Cutthroat Trout - resident/migratory | | | | | | | | | | | | |
| Juvenile Rearing | | | | | | I | | | | | | |
| Winter Steelhead | | | | | | | | | | | | |
| Spring Chinook | | | | | | | | | | | | |
| Fall Chinook | | | | | | | | | | | | |
| Coho | | | | | | | | | | | | |
| Cutthroat Trout - resident/migratory | | | | | | | | | | | | |
| Downstream Juvenile Migration | | | | | | | | | | | | |
| Winter Steelhead | | | | | | - | | | | | | |
| Spring Chinook | | | | | | | | | | | | |
| Fall Chinook | | | | | | | | | | | | |
| Coho | | | | | | | | | | | | |
| Cutthroat Trout - resident/migratory | | | | | | | | | | | | |
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| | Rep | oresents | period | s of pres | sence-n | o level | of use i | ndicated | 1 | | | |
| | No | t prese | nt | | | | | | | | | |

Other Lower Nehalem Tributaries Anadromous

| Life Stage/Activity/Species | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
|--|----------|----------|----------|-----------|----------|-----------|-----------|-----------------|---------|-----|-----|-----|
| Upstream Adult Migration | | | | | | | | | | | | |
| Summer Steelhead | | | | | | | | | | | | |
| Winter Steelhead | | | | | | | | | | | | |
| Spring Chinook | | | | | | | | | | | | |
| Fall Chinook | | | | | | | | | | | | |
| Coho | | | | | | | | | | | | |
| Chum | | | | | | | | | | | - | |
| Sockeye | | | | | | | | | | | | |
| Cutthroat Trout - resident/migratory | | | | | | | | | | | | |
| Adult Holding | | | | | | | | | | | | |
| Summer Steelhead | | | | | | | | | | | | |
| Winter Steelhead | | | | | | | | | | | | |
| Spring Chinook | | | | | | | | | | | | |
| Fall Chinook | | | | | | | | | | | | |
| Coho | | | | | | | | | | | | |
| Chum | | | | | | | | | | | | |
| Sockeye | | | | | | | | | | | | |
| Cutthroat Trout - resident/migratory | 1 | | | | | | | | | | | |
| Adult Spawning | | | | | | | | | | | | |
| Summer Steelhead | | | | | | | | | | | | |
| Winter Steelhead | | | | | | Ī | | | | | | |
| Spring Chinook | 1 | | | | | | | | | | | |
| Fall Chinook | | | | | | | | | l . | | | |
| Coho | 1 | | | | | | | | ļ | | | |
| Chum | | | | | | | | | | | - | |
| Sockeye | | | | | | | | | | | | |
| Cutthroat Trout - resident/migratory | | | | | | | | | | | | |
| Egg Incubation through Fry Emergence Summer Steelhead | | | | | | | | | | | | |
| Winter Steelhead | | | | | | | | | | | | |
| Spring Chinook | | | | | | | | | | | | |
| Fall Chinook | | | | | | | | | | | | |
| Coho | | | | | | | | | | | | |
| Chum | | | | | | | | | | | | |
| Sockeye | | | | | | | | | | | | |
| Cutthroat Trout - resident/migratory | | | | | | | | | | | | |
| Juvenile Rearing | | | | | | | | | | | | |
| Summer Steelhead | | | | | | | | | | | | |
| Winter Steelhead | | | | | | | | | | | | |
| Spring Chinook | 1 | | | | | | | | | | | |
| Fall Chinook | | | | | | | | | | | | |
| Coho | | | | | | | | | | | | |
| Chum | | | | | | | | | | | | |
| Sockeye | | | | | | | | | | | | |
| Cutthroat Trout - resident/migratory | | | | | | | | | | | | |
| Downstream Juvenile Migration | | | | | | | | | | | | |
| Summer Steelhead | | | | | | | | | | | | |
| Winter Steelhead | 1 | | T I | | | | | | | | | |
| Spring Chinook | 1 | | | | | | | | | | | |
| Fall Chinook | 1 | | | | | | | | | | | |
| Coho | 1 | | | | | ł | | | | | | |
| Chum | | | | | - | | | | | | | |
| Sockeye | | | | | | | | | | | | |
| Cutthroat Trout - resident/migratory | <u> </u> | | | | | | | | | | | |
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| | Re | oresents | s period | s of pea | k use ba | ased on | profess | sional op | oinion. | | | |
| | | | | | | | | <u>l opinio</u> | | | | |
| | | | | | | | | ervation | | | | |
| | | | | s of pres | sence-n | o level o | of use ii | ndicated | | | | |
| | No | t prese | nt | | | | | | | | | |

Necanicum River and Tributaries Anadromous

| Life Stage/Activity/Species | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
|---|-----|----------|----------|----------|----------|---------|---------|----------|---------|-----|-----|-----|
| Upstream Adult Migration | | | | | | | | | | | | |
| Summer Steelhead | | | | | | | | | | | | |
| Winter Steelhead | | | | | | | | | | | | |
| Spring Chinook | | | | | | | | | | | | |
| Fall Chinook | | | | | | | | | | | _ | |
| Coho | | | | | | | | | | | | |
| Chum | | | | | | | | | | | • | |
| Sockeye | | | | | | | | | | | | |
| Cutthroat Trout - resident/migratory | | | | | | | | 1 | 1 | 1 | 1 | |
| Adult Holding | | | | | | | _ | | | | | |
| Summer Steelhead | | | | | | | | | | | | |
| Winter Steelhead | | | | | | | | | | | | |
| Spring Chinook | | | | | | | | | | | | |
| Fall Chinook | | | | | | | | | | | | |
| Coho | | | | | | | | | | | | |
| Chum | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| Sockeye | | | | | | | | | | | | |
| Cutthroat Trout - resident/migratory | | | | | | | | | | | | |
| Adult Spawning Summer Steelhead | | | | | | | | | | | | |
| | | | | | _ | | | | | | | _ |
| Winter Steelhead | | | | | _ | | | | | | | |
| Spring Chinook | | | | | | | | | | | | |
| Fall Chinook | 1 | | | | | | | | | | | _ |
| Coho | | | | | | | | | | | | |
| Chum | | | | | | | | | | | | |
| Sockeye | | | | | | | | | | | | |
| Cutthroat Trout - resident/migratory | | | | | | - | | | | | | |
| Egg Incubation through Fry Emergence | | | | | | | | | | | | |
| Summer Steelhead | | | | | | | | | | | | |
| Winter Steelhead | | | | | | | | | | | | |
| Spring Chinook | | | | | | Ī | | | | | | |
| Fall Chinook | | | | | | | | | | | | |
| Coho | | | | | | | | | | | | |
| Chum | | | | | | | | | | | | |
| Sockeye | | | | | | | | | | | | |
| Cutthroat Trout - resident/migratory | | | 1 | | | | | | | | | |
| Iuvenile Rearing | | | | | | T | | | | | | |
| Summer Steelhead | | | | | | | | | | | | |
| Winter Steelhead | | | 1 | | | I | 1 | I | 1 | 1 | 1 | 1 |
| Spring Chinook | | | | | | | | | | | | |
| Fall Chinook | | | | _ | | | | | | | | |
| Coho | | | _ | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | | | | | | 1 | 1 | 1 | 1 | 1 | 1 | |
| Chum | | | <u> </u> | | | | | | | | | |
| Sockeye | | | | | | | | | | | | |
| Cutthroat Trout - resident/migratory Downstream Juvenile Migration | | | 1 | | | 1 | 1 | 1 | 1 | 1 | 1 | |
| Summer Steelhead | | | | | | | | | | | | |
| | | _ | | | | | | | | | | |
| Winter Steelhead | | _ | 1 | | | | | | | | | |
| Spring Chinook | | | | _ | | | | | | | | |
| Fall Chinook | | | | _ | | | | | | | | |
| Coho | | | | | | T | | | | | | |
| Chum | | | | | | | | | | | | |
| Sockeye | | | | | | | | | | | | |
| Cutthroat Trout - resident/migratory | I | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | Re | presents | s period | s of pea | k use ba | ased on | profess | ional or | oinion. | | | |
| | | | s lesser | | | | | | | | | |
| | | | s period | | | | | | | | | |
| | | | s period | | | | | | | | | |
| | | | stock no | | | | | | | | | |
| | | t presen | | | | | | | | | | |

Ecola Creek and Tributaries Anadromous

| Life Stage/Activity/Species | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | | | | | | | |
|--------------------------------------|-----|----------|--------|----------|----------|---------|---------|----------|--------|-----|-----|-----|--|--|--|--|--|--|--|
| Upstream Adult Migration | | | | | | | | | | | | | | | | | | | |
| Summer Steelhead | | | | | | | | | | | | | | | | | | | |
| Winter Steelhead | | | | | | | | | | | | | | | | | | | |
| Spring Chinook | | | | | | | | | | | | | | | | | | | |
| Fall Chinook | | | | | | | | | | | | | | | | | | | |
| Coho | | | | | | | | | | | | | | | | | | | |
| Chum | | | | | | | | | | | | | | | | | | | |
| Sockeye | | | | | | | | | | | | | | | | | | | |
| Cutthroat Trout - resident/migratory | | | | | | | | | | | | | | | | | | | |
| Adult Holding | | | | | | | | | | | | | | | | | | | |
| Summer Steelhead | | | | | | | | | | | | | | | | | | | |
| Winter Steelhead | | | | | | | | | | | | | | | | | | | |
| Spring Chinook | | | | | | | | | | | | | | | | | | | |
| Fall Chinook | | | | | | | | | | | | | | | | | | | |
| Coho | | | | | | | | | | | | | | | | | | | |
| Chum | | | | | | | | | | | | | | | | | | | |
| Sockeye | | | | | | | | | | | | | | | | | | | |
| Cutthroat Trout - resident/migratory | | | | | | | | | | | | | | | | | | | |
| Adult Spawning | | | | | | | | | | | | | | | | | | | |
| Summer Steelhead | | | | | | | | | | | | | | | | | | | |
| Winter Steelhead | | | | | | | | | | | | | | | | | | | |
| Spring Chinook | | | | | | | | | | | | | | | | | | | |
| Fall Chinook | | | | | | | | | | | | | | | | | | | |
| Coho | | | | | | | | | | | | | | | | | | | |
| Chum | | | | | | | | | | | | | | | | | | | |
| Sockeye | | | | | | | | | | | | | | | | | | | |
| Cutthroat Trout - resident/migratory | | | | | | | | | | | | | | | | | | | |
| Egg Incubation through Fry Emergence | | | | | | | | | | | | | | | | | | | |
| Summer Steelhead | | | | | | | | | | | | | | | | | | | |
| Winter Steelhead | | | | | | | | | | | | | | | | | | | |
| Spring Chinook | | | | | | | | | | | | | | | | | | | |
| Fall Chinook | | | | | | | | | | | | | | | | | | | |
| Coho | | | | | | | | | | | | | | | | | | | |
| Chum | | | | | | | | | | | | | | | | | | | |
| Sockeye | | | | | | | | | | | | | | | | | | | |
| Cutthroat Trout - resident/migratory | | | | | | | | | | | | | | | | | | | |
| Juvenile Rearing | | | | | | | | | | | | | | | | | | | |
| Summer Steelhead | | | | | | | | | | | | | | | | | | | |
| Winter Steelhead | | | | | | | | | | | | | | | | | | | |
| Spring Chinook | | | | | | | | | | | | | | | | | | | |
| Fall Chinook | | | | _ | | | | | | | | | | | | | | | |
| Coho | | | | | | | | | | | | | | | | | | | |
| Chum | | | | | | | | | | | | | | | | | | | |
| Sockeye | | | | | | | | | | | | | | | | | | | |
| Cutthroat Trout - resident/migratory | | | | | | | | | | | | | | | | | | | |
| Downstream Juvenile Migration | | | | | | | | | | | | | | | | | | | |
| Summer Steelhead | | | | | | | | | | | | | | | | | | | |
| Winter Steelhead | | | | | | | | | | | | | | | | | | | |
| Spring Chinook | | | | | | | | | | | | | | | | | | | |
| Fall Chinook | | | | | | | | | | | | | | | | | | | |
| Coho | | | | | | | | | | | | | | | | | | | |
| Chum | | | | | | | | | | | | | | | | | | | |
| Sockeye | | | | | | | | | | | | | | | | | | | |
| Cutthroat Trout - resident/migratory | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| | Re | oresents | period | s of pea | k use ba | used on | profess | ional op | inion. | | | | | | | | | | |
| | | | | | use bas | | | | | | | | | | | | | | |
| | | | | | based o | | | | | | | | | | | | | | |
| | | | | | sence-n | | | | | | | | | | | | | | |
| | | tnrese | | | | | | | | | | | | | | | | | |

Youngs River Anadromous

| Life Stage/Activity/Species | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
|--|-------|----------|----------|----------|-----------|-----------|---------|----------|--------|-----|-------|-------|
| Upstream Adult Migration | | | | | | | | | | | | |
| Summer Steelhead | | | | | | | | | | | | |
| Winter Steelhead Spring Chinook | | | | | | | | | | | | |
| Fall Chinook | | | | | | | | | - | | | |
| Coho | HL | | | | | | | | | | нр | HP HI |
| Chum | T IL | | | | | | | | T | HL | HP HP | |
| Sockeye | | | | | | | | | | | | |
| Cutthroat Trout - resident/migratory | | I | | | | | | | | | | |
| Adult Holding | | | | | | | | | | | | |
| Summer Steelhead | | | | | | | | | | | | |
| Winter Steelhead | | | | | | | | | | | | |
| Spring Chinook | | | | | | 1 | | | | | | |
| Fall Chinook | | | | | | | | | | | | |
| Coho Chum | | | | | | | | | | | | |
| Sockeye | | | | | | | | | | | | |
| Cutthroat Trout - resident/migratory | | | | | | | | | | | | |
| Adult Spawning | | | | | | | | | | | | |
| Summer Steelhead | | | | | | | | | | | | |
| Winter Steelhead | | | | | | | | | | | | |
| Spring Chinook | | | | | | Ī | | | | | | |
| Fall Chinook | | | | | | | | | | | | |
| Coho | | | | | | | | | μ | | | |
| Chum | | | | | | | | | | HL | HP HP | HP HI |
| Sockeye | | | | | | | | | | | | _ |
| Cutthroat Trout - resident/migratory | | | | | | T | | | | | | |
| Egg Incubation through Fry Emergence Summer Steelhead | | | | | | | | | | | | |
| Winter Steelhead | | | | | | | | | | | | |
| Spring Chinook | | | | | | | 1 | | | | | |
| Fall Chinook | | | 1 | | | | | | | | | _ |
| Coho | | | | | | | | | | | | |
| Chum | HP HL | | | | | | | | | | HL HP | HP HI |
| Sockeye | | | | | | | | | | | | |
| Cutthroat Trout - resident/migratory | | | | | | | | | | | | |
| Juvenile Rearing | | | | | | | | | | | | |
| Summer Steelhead | | | | | | | | | | | | |
| Winter Steelhead | | | | | | | | | | | | |
| Spring Chinook Fall Chinook | | | | | | | | | | | | |
| Fall Chinook Coho | | | | | | | | | I | | | |
| Cono Chum | ні нр | НРИР | HP HL | | | | | | | | | |
| Sockeye | | | | | | | | | | | | |
| Cutthroat Trout - resident/migratory | | | | | | | | | | | | |
| Downstream Juvenile Migration | | | | | | | | | | | | |
| Summer Steelhead | | | | | | | | | | | | |
| Winter Steelhead | | | | | | | | | | | | |
| Spring Chinook | | | | | | | | | | | | |
| Fall Chinook | | | | | | | | | | | | |
| Coho | | | | | | - | | | | | | |
| Chum | | HP | HP HP | HP HL | | | | | | | | |
| Sockeye | | | | | | | | | | | | |
| Cutthroat Trout - resident/migratory | _ | | | | | | | | | | | |
| | Re | nrecente | neriod | s of peo | k jise bi | ased on | profess | ional or | ninion | | | |
| | | | | = | | ed profe | = | | | | | |
| | | | | | | on report | | | | | | |
| | | | | | | o level | | | | | | |
| | | | y prese | | | | | | | | | |
| | | | y presei | | level | | | | | | | |
| | Hat | tchery s | tock no | | | lrainage | | | | | | |
| | No | t presen | ıt | | | | | | | | | |

Wallooskee River Anadromous

| Life Stage/Activity/Species | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
|--------------------------------------|--------|-----------|---------|----------|----------|----------|----------|----------|---------|-----|----------|-------|
| Upstream Adult Migration | | | | | | | | | | | | |
| Summer Steelhead | | | | | | | | | | | | |
| Winter Steelhead | | | | | | | | | | | | |
| Spring Chinook | | | | | | | | | | | <u> </u> | |
| Fall Chinook | | | | | | | | | | | | |
| Coho | HL | | | | | | | | | | HP | HP HP |
| Chum | | | | | | | | | | HL | HP HP | HP HL |
| Sockeye | | | | | | | | | | | | |
| Cutthroat Trout - resident/migratory | | | | | | | | | | | | |
| Adult Holding | | | | | | | | | | | | |
| Summer Steelhead | | | | | | | | | | | | |
| Winter Steelhead | | | | | | | | | | | | |
| Spring Chinook | | | | | | | | | | | | |
| Fall Chinook | | | | | | | | | | | | |
| Coho | | | | | | | | | | | | |
| Chum | | | | | | | | | | | | |
| Sockeye | | | | | | | | | | | | |
| Cutthroat Trout - resident/migratory | | | | | | | | | | | | |
| Adult Spawning | | | | | | | | | | | | |
| Summer Steelhead | | | | | | | | | | | | |
| Winter Steelhead | | | | | | Ļ | | | | | | |
| Spring Chinook | | | | | | | | | | | | |
| Fall Chinook | | | | | | | | | | | - | |
| Coho | | | | | | | | | | | | |
| Chum | | | | | | | | | | HL | HP HP | HP HL |
| Sockeye | | | | | | | | | | | | |
| Cutthroat Trout - resident/migratory | | | | | | | | | | | | |
| Egg Incubation through Fry Emergence | | | | | | | | | | | | |
| Summer Steelhead | | | | | | | | | | | | |
| Winter Steelhead | | | | | | | | | | | | |
| Spring Chinook | | | | | | | | | | | | |
| Fall Chinook | | | | | | | | | | | | |
| Coho | | | | | | | | | | | | |
| Chum | HP HL | | | | | | | | | | HL HP | HP HP |
| Sockeye | | | | | | | | | | | | |
| Cutthroat Trout - resident/migratory | | | | | | | | | | | | |
| Juvenile Rearing | | | | | | | | | | | | |
| Summer Steelhead | | | | | | | | | | | | |
| Winter Steelhead | | | | | | | | | | | | |
| Spring Chinook | | | | | | | | | | | | |
| Fall Chinook | | | | | | | | | | | | |
| Coho | | | | | | | | | | | | |
| Chum | HL HP | HP HP | HP HL | | | | | | | | | |
| Sockeye | | | | | | | | | | | | |
| Cutthroat Trout - resident/migratory | | | | | | | | | | | | |
| Downstream Juvenile Migration | | | | | | | | | | | | |
| Summer Steelhead | | | | | | | | | | | | |
| Winter Steelhead | 1 | | | | | | | | | | | |
| Spring Chinook | | | | | | | | | | | | |
| Fall Chinook | | | | | | | | | | | | |
| Coho | | | | | | | | | | | | |
| Chum | | HP | HP HP | HP HL | | | | | | | | |
| Sockeye | | | | | | | | | | | | |
| Cutthroat Trout - resident/migratory | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | Re | presents | period | s of pea | k use ba | ased on | profess | ional op | oinion. | | | |
| | Re | presents | lesser | level of | use bas | ed profe | essional | l opinio | n | | | |
| | | | | | | on repor | | | | | | |
| | | | | | | o level | | | | | | |
| | HP His | storicall | y prese | nt peak | | | | | | | | |
| | | storicall | | | | | | | | | | |

Other Columbia River Estuary Tributaries (Mouth to Tongue point) Anadromous

| Life Stage/Activity/Species | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
|--------------------------------------|-------|----------|----------|----------|----------------|----------|---------|----------|---------|-----|-------|------|
| Upstream Adult Migration | | | | | | | | | | | | |
| Summer Steelhead | | | | | | | | | | | | |
| Winter Steelhead | | | | | | | | | | | T | |
| Spring Chinook | | | | | | | | | _ | | L | |
| Fall Chinook | | | | | | | | _ | L | | | |
| Coho Chum | HL | | | | | | | | T | ப | HP HP | HP H |
| Sockeye | | | | | | | | | | пL | | пгп |
| Cutthroat Trout - resident/migratory | | | | | | | | | | | 1 | |
| Adult Holding | | | 1 | | | | | | — | | | |
| Summer Steelhead | | | | | | | | | | | | |
| Winter Steelhead | | | | | | | | | | | | |
| Spring Chinook | | | | | - | | | | | | | |
| Fall Chinook | | | | | | | | | | | | |
| Coho | | | | | | | | | | | | |
| Chum | | | | | | | | | | | | |
| Sockeye | | | | | | | | | | | | |
| Cutthroat Trout - resident/migratory | | | | | | | | | | | | |
| dult Spawning | | | | | | | | | | | | |
| Summer Steelhead | | | | | | | | | | | | |
| Winter Steelhead | | | | | | | | | | | | |
| Spring Chinook | | | | | | | | | | | | |
| Fall Chinook | | | | | | | | | | | | _ |
| Coho | | | | | | | | | ļ | | - | |
| Chum | | | | | | | | | | HL | HP HP | HP H |
| Sockeye | | | | | | | | | | | | |
| Cutthroat Trout - resident/migratory | | | | | . — | | | | | | | _ |
| gg Incubation through Fry Emergence | | | | | | | | | | | | |
| Summer Steelhead | | | | | | | | | | | | |
| Winter Steelhead | | | | | | | 1 | | | _ | | |
| Spring Chinook | | | 1 | | | | | | | | | |
| Fall Chinook | | | | | | | | | | | | |
| Coho | | | | | | | | | | | | |
| Chum | HP HL | | | | | | | | | | HLHP | HP H |
| Sockeye | | | | | | | | | | | | |
| Cutthroat Trout - resident/migratory | | | 1 | | , - | T | | | | | - | |
| uvenile Rearing Summer Steelhead | | | | | | | | | | | | |
| Winter Steelhead | | | | I | I | I | | I | I | | | |
| Spring Chinook | | | | | 1 | | | | 1 | | 1 | |
| Fall Chinook | | | | | | | | | | | | |
| Coho | | | 1 | | - | 1 | 1 | 1 | 1 | | 1 | |
| Chum | ні нр | НРНР | HP HL | | | | | | | | | |
| Sockeye | | | 111 111 | | | | | | | | | |
| Cutthroat Trout - resident/migratory | | | | | | | | | | | | |
| ownstream Juvenile Migration | | | | | | | | | | | | |
| Summer Steelhead | | | | | | | | | | | | |
| Winter Steelhead | | | | | | | | | | | | |
| Spring Chinook | | | | | | | | | | | | |
| Fall Chinook | | | | _ | | | | | | | | |
| Coho | | | | | • | 1 | | | | | | |
| Chum | | HP | HP HP | HP HI | | Ī | | | | | | |
| Sockeye | | | | | | | | | | | | |
| Cutthroat Trout - resident/migratory | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | Re | presents | s period | s of pea | k use ba | ased on | profess | ional op | oinion. | | | |
| | | | | | | ed profe | | | | | | |
| | | | | | | on repor | | | | | | |
| | | | | | | o level | | | | | | |
| | | | y prese | | | | | | | | | |
| | | | y prese | | | | | | | | | |
| | | | | | | lrainage | | | | | | |
| | | t preser | | | | - | | | | | | |