UNITED STATES DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
NATIONAL MARINE FISHERIES SERVICE
West Coast Region
1201 NE Lloyd Boulevard, Suite 1100
PORTLAND, OREGON 97232-1274

January 29th, 2020

Michele DeHart
Fish Passage Center
847 NE 19th Ave, Suite 250
Portland, Oregon 97213

RE: Determination of Take for Research Purposes (03-20-FPC-47) (APPS 23630)

Dear Michele DeHart:

National Marine Fisheries Service (NMFS) Interior Columbia Basin Office's Columbia Hydropower Branch has determined that take associated with the study, "Smolt Monitoring Program and Comparative Survival Study" is permitted in 2020 under the 2019 Columbia River System (CRS) Biological Opinion (2019 Opinion). If this research continues beyond 2020, the take allowed under the determination process must be updated annually. The estimated numbers of listed salmonids needed to complete this study in 2020 are given in the attached project summary.

Project Justification, Description, and Methods

Justification
See attached project summary.

Description, Methodology, and Authorized take levels
See attached project summary

Terms, Conditions, and Requirements
Fish listed under the Endangered Species Act (ESA) must be handled with extreme care and kept in water to the maximum extent possible during sampling and processing. Adequate circulation and replenishment of water in holding units is required. When using gear that captures a mix of species, ESA-listed fish must be processed first, to the extent possible, to minimize the duration of handling stress. Endangered Species Act listed fish must be transferred using a sanctuary net (which holds water during transfer) whenever practical to prevent the added stress of being out of water. Should NMFS determine that a researcher's procedure is no longer acceptable; the researcher must immediately cease such activity until an acceptable alternative procedure can be developed with NMFS. To implement the Hydro research, monitoring & evaluation (RM&E) reasonable and prudent alternatives (RPAs), the Applicant shall ensure that all of the following conditions are met:

1. Researchers must not intentionally kill or cause to be killed any listed species unless a specific monitoring or evaluation proposal, approved by NMFS, specifically allows intentional lethal take.

2. Each ESA-listed fish handled out of water must be anesthetized to prevent injury or mortality.

3. Anesthetized fish must be allowed to recover (e.g., in a recovery tank) before being released. Fish that are simply counted but not handled must remain in water, but do not have to be anesthetized. Whenever possible, unintentional or indirect mortalities of ESA-listed fish that occur during scientific research and monitoring activities shall be used in place of intentional lethal take, if applicable.

4. Each researcher must ensure that the ESA-listed species are taken only by the means, in the areas, and for the purposes set forth in the research proposal, as limited by the terms and conditions.

5. Each researcher, in effecting the take authorized by the incidental take statement (ITS) (Chapter 14, 2019 Opinion) and through NMFS' Take Determination Letters, is considered to have accepted the terms and conditions of the ITS and any additional terms or conditions required by NMFS' Take Determination Letters, and must be prepared to comply with the provisions of these two documents, and the applicable NMFS' regulations and the ESA.

6. Each researcher is responsible for the actions of any individual operating under the authority of the researcher's designated take authorization within the ITS of the 2019 Opinion and NMFS' Take Determination Letters.

7. Each researcher, staff member, or designated agent acting on the researcher's behalf must possess a copy of the ITS in the 2019 Opinion and the NMFS authorizing Take Determination letter when conducting the activities for which a take of ESA-listed species or other exception to ESA prohibitions is authorized herein.

8. Researchers may not transfer or assign a take authorization included within this determination to any other person(s), as person is defined in Section 3(12) of the ESA. The take authorization ceases to be in force or effective if transferred or assigned to any other person without prior authorization from NMFS.

9. Each researcher must obtain any other Federal, State, and local permits or authorizations necessary to conduct the activities provided for in this ITS.

10. Each researcher must coordinate with other applicable co-managers and researchers to ensure that no unnecessary duplication or adverse cumulative effects occur as a result of the researcher's activities.

11. National Marine Fisheries Service reserves the right to inspect research activities as they occur. This may include observation or review of research activities, facilities, records, etc., pertaining to ESA-listed species covered by this determination.

12. Under the terms of NMFS' regulations, a violation of any of the terms and conditions of this ITS will subject the offending researcher and/or any individual who is operating under the authority of this ITS to penalties as provided for in the ESA for authorized take.

13. Each researcher is responsible for biological samples collected from ESA-listed species as long as they are useful for research purposes. The terms and conditions concerning any samples collected remain in effect as long as the researcher maintains authority over and responsibility for the material taken. A researcher may not transfer biological samples to anyone not listed in the research proposal without obtaining prior written approval from NMFS. Any such transfer will be subject to such conditions, as NMFS deems appropriate.

14. NMFS may amend a take authorization identified in this determination, or adjust specific take levels after reasonable notice to the applicable researcher.

15. NMFS may revoke a take authorization identified in this ITS if the activities for which it provides are not carried out. If the activities are not carried out in accordance with the conditions of this ITS and the purposes and requirements of the ESA, or if NMFS otherwise determines that the continuation of activities would operate to the disadvantage of ESA-listed species.

Annual Reporting and Authorization Requirements

The conduct of scientific research and monitoring activities each year is contingent on submission and approval of a report on each proceeding year's research and monitoring activities. Researchers are providing annual reports summarizing the take of ESA-listed salmon and steelhead associated with their activity. These annual reports are to be provided to NMFS' designated Take Determination Coordinator by December 1 of each year unless this date is otherwise modified by NMFS' authorizing Take Determination letter. The report must include the following:

1. A detailed description of scientific research and monitoring activities, including the total number of fish taken at each location, an estimate of the number of ESA-listed fish taken at each location, the manner of take, and the dates and locations of the take.

2. Measures taken to minimize disturbances to ESA-listed fish and the effectiveness of these measures, the condition of ESA-listed fish taken and used for research and monitoring, a description of the effects of research and monitoring activities on the subject species, the disposition of ESA-listed fish in the event of mortality, and a brief narrative of the circumstances surrounding fish injuries or mortalities to ESA-listed fish.

3. Any problems that arose during research and monitoring activities, and a statement as to whether the activities had any unforeseen effects.

4. Descriptions of how all take estimates were derived.

5. Steps that have been and will be taken to coordinate research and monitoring activities with those of other researchers.

6. Projects which employ blocking weirs must include a log of delay monitoring in their annual report. This log must include daily trap catches and numbers of fish observed below the weir (as per the methodology described in the projects weir operation plan). Any changes in weir operation or configuration will also be noted with the dates that they are in effect. Any periods when the weir was not in operation will also be noted.

Operational Reporting & Notification Requirements

1. Researchers must obtain NMFS' approval prior to implementing research protocols (e.g., changes in sampling locations or fish handling protocols) that differ from those considered in the Take Determination Letters, unless immediate deviation from these same protocols are necessary to reduce impacts to fish in hand. In this case, researchers must contact NMFS' designated Take Determination Coordinator or other designated staff as soon as possible to report on the situation (including reporting any resultant unexpected take), the actions taken by the research to minimize impacts to research fish, and coordination of additional actions that are necessary before the research can continue.

2. Each researcher must alert NMFS whenever the authorized level of take is exceeded, or if circumstances indicate that such an event is imminent. Notification should be made as soon as possible, but no later than 2 days after the authorized level of take is exceeded. The researcher must then submit a detailed written report to NMFS. Pending a review of the circumstances, NMFS may suspend the research and monitoring activities or implement reasonable measures and/or alternatives to allow research and monitoring activities to continue.

3. Each researcher must alert NMFS when a take of any ESA-listed species not included in the research proposal is killed, injured, or collected during the course of research and monitoring activities. Notification should be made as soon as possible, but no later than 2 days after the unauthorized take. The researcher must then submit a detailed written report to NMFS. Pending a review of the circumstances, NMFS may suspend research and monitoring activities or implement reasonable measures and/or alternatives to allow research and monitoring activities to continue.

4. In the case of ongoing studies, a report of actual take will be submitted to NMFS no less than 30 days before the request for take for the next year is submitted. For studies which only last 1 year, or upon termination of a multi-year study, a report of actual take will be submitted no less than 30 days after the activities described in the take determination letter cease. Take reports will include the numbers, life stage, species, and evolutionarily significant unit (ESU) of fish taken; the type of take (harass, handle, kill); and levels of incidental mortality. The reports will also include the location of the take (geographical

names and Hydrologic Unit Code (HUC), and summarize take into blocks no larger than one month (i.e., take for April, May, etc.). Any of the incidents described in items 2 and 3 above (exceeded take limits, or incidental morality not covered by the take determination) will also be described in this report. The report will also include an evaluation if methodology can be improved to reduce take (especially incidental mortality). Determinations by the Hydropower Branch for this research during the 2019 fish passage season and beyond will be made on an annual basis. The annual determination will depend upon information submitted in the research study's annual report, other new information, the annual anticipated status of fisheries stocks, and any subsequent review through regional review processes.

Please notify Josie Thompson, FCRPS Branch's Take Determination Coordinator, (503-231-2313, Josie.Thompson@noaa.gov), about any deviation from the terms and conditions in this determination as soon as possible. Please include the study's official title and the number (see subject line in this Take Determination Letter) in all communications regarding this study. The annual report for this research study can be completed via the NMFS Authorizations and Permits for Protected Species (APPS) system, through which this take authorization was processed electronically.

Sincerely,

Ritchie J. Graves, Chief
Columbia Hydropower Branch
Interior Columbia Basin Office
NOAA Fisheries, West Coast Region

cc: Michele Weaver (ODFW)
Holly Huchko (ODFW)

NOAA FISHERIES
NATIONAL MARINE FISHERIES SERVICE

Authorizations and Permits for Protected Species (APPS)

File #: 23630
Title: Renew: Smolt Monitoring Program and Comparati

Applicant Information

Name:	Michele DeHart
Title:	Fish Passage Center Manager
Affiliation:	Fish Passage Center
Address:	847 NE 19th Ave, Suite 250
City,State,Zip:	Portland, OR 97213
Phone Number:	(503)833-3901
Email:	mdehart@fpc.org

Project Information

File Number:	23630
Project Number:	FPC 47
Application Status:	**Application Complete - Permits Pending**
Project Title:	Renew: Smolt Monitoring Program and Comparative Survival Study
Project Status:	Renewal
Previous Federal or State Permit/Authorization:	22718
Permits/Authorizations Requested:	• Determination of Take Authorization under a Biological Opinion - Issued • Oregon Scientific Taking Permit for Fish and Marine and Freshwater Invertebrates - In Progress *PLEASE NOTE: Oregon Scientific Taking Permits only cover take and transport in the state of Oregon. It is the applicant's responsibility to obtain the necessary permits from all other states that may be associated with this project.*
Where will activities occur?	Idaho Oregon (including Columbia River and offshore waters) Washington (including Columbia River and offshore waters)

State department of fish and game/wildlife:	N/A
Research Timeframe:	**Start:** 01/25/2020 **End:** 12/31/2020
Sampling Season/Project Duration:	The sampling season for both the Smolt Monitoring Program and the Comparative Survival Study extend from March 1 through October 31. The Smolt Monitoring Program has been conducted annually since 1984. The Comparative Survival study has been conducted since 1996.
Project Type(1):	Management/Applied Research
Project Type(2):	Monitoring

Project Description

Purpose: The Smolt Monitoring program (SMP) monitors the juvenile salmonid migration in the Snake/Columbia river basins. The information is used by the state, tribal and federal salmon managers for the development of in-season recommendations and post-season analyses for fish passage management actions in the hydrosystem. The Comparative Survival Study (CSS) is a multi-year program for the purpose of monitoring and evaluating the impacts of the mitigation measures and actions (e g., flow augmentation, spill, and transportation) under the NMFS Biological Opinion to recover listed stocks.

Description: The SMP data are significant to several regional programs. Historical SMP data have provided the basis for development and implementation of Biological Opinion measures and Northwest Power and Conservation Council (NPCC) Fish and Wildlife Program measures. Each year the SMP provides data for daily and weekly passage management decisions used in implementation of the National Marine Fisheries Service (NMFS) Biological Opinion measures. SMP sampling also recovers mark groups from various activities, providing recapture data to the originating entity. Gas Bubble Trauma (GBT) symptom monitoring through the SMP is a pre-requisite established by NMFS and the state water quality agencies for implementation of the NMFS Biological Opinion spill for fish passage measures.

The SMP provides daily data on movement of smolts out of major river drainages and past the dams on the Snake and Columbia Rivers. Indices of migration strength and migration timing result for the run-at-large at key monitoring sites. In addition, marked smolts from hatcheries, traps, and dams provide measures of smolt speed and in-river survival through key index reaches. Fish condition, descaling, and GBT measures are taken on samples of fish collected at each monitoring site, supplying indicators of the health of the run. The SMP affords real-time fish passage data to fishery management entities and the hydroelectric power system managers, which they utilize in day-to-day river operations decisions. The SMP provides a continuous long-term fish passage database which is utilized in year-to-year comparisons of smolt travel time, passage timing, passage duration, dissolved GBT signs, juvenile survival estimates, relative to annual fish passage conditions and hydrosystem operations. The SMP will furnish data useful in the development of future long-term mitigation measures. There are no other viable alternatives to accomplish the goals of this project.

The Fish Passage Center (FPC), together with the Comparative Survival Study (CSS) oversight committee, designs and oversees the annual implementation of the CSS. The state and tribal fishery agencies and US Fish and Wildlife Service have developed the CSS as a multi-year program for the purpose of monitoring and evaluating the impacts of the mitigation measures and actions (e g., flow augmentation, spill, and transportation) under the NMFS Biological Opinion to recover listed stocks. The CSS allows comparisons of survival over different life stages among fish with different experiences in the hydrosystem (e.g., transportation vs. in-river migrants and migration through various numbers of dams).

Biological Opinion

Biological Opinion: 2019 CRS Bi-Op

Objectives:

- Smolt to Adult Returns
- Environmental Stressors
- Transportation
- Delayed Mortality
- Survival Monitoring

Justification: The Smolt Monitoring Program is part of the Research Monitoring and Evaluation described in the Biological Opinion. The Smolt Monitoring Program activities are described in the updated proposed action under Research Monitoring and Evaluation sub strategy 1.3. The Comparative Survival Study objectives and products are described in the Research Monitoring and Evaluation section of the Biological Opinion in strategy 3, critical uncertainties research.

Review: The project has undergone regional review and has been regionally approved as a high priority project. The scope, purpose and intent of the SMP is to provide a technical basis and justification for implementation of hydrosystem operations to enhance fish passage in the mainstem Columbia and Snake rivers. The SMP is reviewed annually relative to sampling constraints and sampling techniques with the objective of limiting fish handling and sampling as much as possible. The annual SMP is considered within the context of planned activities at mainstem dams, such as the Smolt Transportation Program. Dates of sampling at trap sites and mainstem sites are established to provide early indication of fish migration from major tributaries and through the mainstem including planned major hatchery releases. Consistency in sample dates is pursued to support year-to-year comparison of migration timing and duration relative to environmental factors, such as flow and temperature.

Supplemental Information

Methods: The Smolt Monitoring Program (SMP) samples fish at several sites in the Columbia Basin including four traps and eight dams. Field work is carried out by various agencies, including WDFW, the Nez Perce Tribe, ODFW, and PSMFC. Traps and dams operate to collect active migrant juvenile salmonids. A wide range of activities occur in association with monitoring, including species-specific passage timing, mark information on migrants, external injury and disease information, mortality and descaling information, and finally PIT-tag marking is carried out at some SMP sites to aid in gathering longer-term data such as travel time, passage timing and survival for specific mark groups. The SMP tagging at the mainstem trap sites is augmented with additional tagging to estimate smolt to adult return rates as part of the CSS.

Daily sample rates for the SMP are based on the previous days' sample, and are designed to sample the least number of fish, while providing a statistically significant sample.

Intentional Lethal Take: Not Applicable

Anticipated Effects on Animals: The 2020 take estimates of incidental mortality are based on data from the past five years conduct of the SMP, actual numbers intercepted by the Smolt Monitoring Program in 2019, estimated proportions listed in the 2018 NOAA memo (Estimation of Percentages for Listed Pacific Salmon and Steelhead Smolts Arriving at Various Locations in the Columbia River Basin in 2018), and the anticipated project operations for 2020.

Measures to Minimize Effects: Whether fish are captured at traps or at juvenile bypass systems, the overall goal is to minimize handling effects on fish. To do this, we utilize wet capture, anesthetic before handling, and recovery, before release back to the river. The FPC data entry program manual (http://www.fpc.org/documents/metadata/FPC32net_2019Manual.pdf) provides detailed descriptions of data collected on individual fish and overall sample statistics, such as mortality rate. After fish are examined they are routed to a recovery tank. Typically, fish sampled at transportation sites are ultimately routed to a raceway for transportation. If fish are to be returned to river, a minimum of 1 hour recovery time prior to release is recommended.

Disposition of Tissues: Not Applicable

Public Availability of Product/Publications: All information is available through the Fish Passage Center website (www.fpc.org) on a daily basis and summarized in annual reports available via the website as well.

Biologist Comments

Date	From	Comments
12/21/2019	Art Martin	OSCRP is highly supportive of the Smolt Monitoring Program and Comparative Survival Study and recommends renewal of the STP.
12/23/2019	Rod French	The Mid-Columbia Fisheries District highly supports this project.
01/13/2020	Kyle Bratcher	The Wallowa District continues to support this project as stated.

Federal Information

No Federal comments or authorizations.

Location/Take Information

Freshwater Location

Research Area: Pacific Ocean **State:** OR **Sub Basin (4th Field HUC):** Lower Grande Ronde **Stream Name:** Grande Ronde River
Sale in Oregon of species taken: None
Location Description: Grande Ronde Trap, Lower Grand Ronde River, GrT

Take Information

Line	Ver	Species	Listing Unit/Stock	Production /Origin	Life Stage	Sex	Expected Take	Indirect Mort	Take Action	Observe /Collect Method	Procedure	Run	Transport Record	Begin Date	End Date
1		Salmon, Chinook	Snake River fall-run (NMFS Threatened)	Natural	Juvenile	Male and Female	1500	15	Capture/Handle/Release Fish	Trap, Incline Plane	Anesthetize	N/A	N/A	1/25/2020	12/31/2020
2		Salmon, Chinook	Snake River fall-run (NMFS Threatened)	Listed Hatchery Intact Adipose	Juvenile	Male and Female	900	16	Capture/Handle/Release Fish	Trap, Incline Plane	Anesthetize	N/A	N/A	1/25/2020	12/31/2020
3		Salmon, Chinook	Snake River fall-run (NMFS Threatened)	Listed Hatchery Adipose Clip	Juvenile	Male and Female	100	4	Capture/Handle/Release Fish	Trap, Incline Plane	Anesthetize	N/A	N/A	1/25/2020	12/31/2020
4		Salmon, Chinook	Snake River spring/summer-run (NMFS Threatened)	Natural	Juvenile	Male and Female	4200	50	Capture/Mark, Tag, Sample Tissue/Release Live Animal	Trap, Incline Plane	Tag, PIT	Spring/Summer	N/A	1/25/2020	12/31/2020

5		Salmon, Chinook	Snake River spring/summer-run (NMFS Threatened)	Listed Hatchery Intact Adipose	Juvenile	Male and Female	280	6	Capture/Mark, Tag, Sample Tissue/Release Live Animal	Trap, Incline Plane	Tag, PIT	Spring/Summer	N/A	1/25/2020	12/31/2020
6		Salmon, Chinook	Snake River spring/summer-run (NMFS Threatened)	Listed Hatchery Adipose Clip	Juvenile	Male and Female	1120	22	Capture/Mark, Tag, Sample Tissue/Release Live Animal	Trap, Incline Plane	Tag, PIT	Spring/Summer	N/A	1/25/2020	12/31/2020
7		Salmon, Chinook	Snake River spring/summer-run (NMFS Threatened)	Natural	Juvenile	Male and Female	5600	110	Capture/Handle/Release Fish	Trap, Incline Plane	Anesthetize	Spring/Summer	N/A	1/25/2020	12/31/2020
8		Salmon, Chinook	Snake River spring/summer-run (NMFS Threatened)	Listed Hatchery Intact Adipose	Juvenile	Male and Female	5000	130	Capture/Handle/Release Fish	Trap, Incline Plane	Anesthetize	Spring/Summer	N/A	1/25/2020	12/31/2020
9		Salmon, Chinook	Snake River spring/summer-run (NMFS Threatened)	Listed Hatchery Adipose Clip	Juvenile	Male and Female	19000	350	Capture/Handle/Release Fish	Trap, Incline Plane	Anesthetize	Spring/Summer	N/A	1/25/2020	12/31/2020
10		Steelhead	Snake River Basin (NMFS Threatened)	Natural	Juvenile	Male and Female	2000	30	Capture/Handle/Release Fish	Trap, Incline Plane	Anesthetize	Summer	N/A	1/25/2020	12/31/2020
11		Steelhead	Snake River Basin (NMFS Threatened)	Natural	Juvenile	Male and Female	1200	24	Capture/Mark, Tag, Sample Tissue/Release Live Animal	Trap, Incline Plane	Tag, PIT	Summer	N/A	1/25/2020	12/31/2020

Freshwater Location
Research Area: Pacific Ocean **State:** ID **Sub Basin (4th Field HUC):** Lower Salmon **Stream Name:** Salmon River
Sale in Oregon of species taken: None
Location Description: Salmon River Trap at Whitebird

Take Information

Line	Ver	Species	Listing Unit/Stock	Production /Origin	Life Stage	Sex	Expected Take	Indirect Mort	Take Action	Observe /Collect Method	Procedure	Run	Transport Record	Begin Date	End Date
1		Salmon, Chinook	Snake River spring/summer-run (NMFS Threatened)	Natural	Juvenile	Male and Female	10400	175	Capture/Handle/Release Fish	Trap, Not listed here	Anesthetize	Spring/Summer	N/A	1/25/2020	12/31/2020

2		Salmon, Chinook	Snake River spring/summer-run (NMFS Threatened)	Listed Hatchery Intact Adipose	Juvenile	Male and Female	3000	60	Capture/Handle/Release Fish	Trap, Not listed here	Anesthetize	Spring/Summer	N/A	1/25/2020	12/31/2020
3		Salmon, Chinook	Snake River spring/summer-run (NMFS Threatened)	Listed Hatchery Adipose Clip	Juvenile	Male and Female	18000	400	Capture/Handle/Release Fish	Trap, Not listed here	Anesthetize	Spring/Summer	N/A	1/25/2020	12/31/2020
4		Steelhead	Snake River Basin (NMFS Threatened)	Natural	Juvenile	Male and Female	400	8	Capture/Handle/Release Fish	Trap, Not listed here	Anesthetize	Summer	N/A	1/25/2020	12/31/2020
5		Steelhead	Snake River Basin (NMFS Threatened)	Listed Hatchery Intact Adipose	Juvenile	Male and Female	1500	27	Capture/Handle/Release Fish	Trap, Not listed here	Anesthetize	Summer	N/A	1/25/2020	12/31/2020
6		Steelhead	Snake River Basin (NMFS Threatened)	Listed Hatchery Adipose Clip	Juvenile	Male and Female	2000	40	Capture/Handle/Release Fish	Trap, Not listed here	Anesthetize	Summer	N/A	1/25/2020	12/31/2020
7		Salmon, Chinook	Snake River fall-run (NMFS Threatened)	Natural	Juvenile	Male and Female	75	3	Capture/Handle/Release Fish	Trap, Not listed here	Anesthetize	N/A	N/A	1/25/2020	12/31/2020
8		Salmon, Chinook	Snake River fall-run (NMFS Threatened)	Listed Hatchery Intact Adipose	Juvenile	Male and Female	80	1	Capture/Handle/Release Fish	Trap, Not listed here	Anesthetize	N/A	N/A	1/25/2020	12/31/2020
9		Salmon, Chinook	Snake River fall-run (NMFS Threatened)	Listed Hatchery Adipose Clip	Juvenile	Male and Female	20	1	Capture/Handle/Release Fish	Trap, Not listed here	Anesthetize	N/A	N/A	1/25/2020	12/31/2020
10		Salmon, sockeye	Snake River (NMFS Endangered)	Natural	Juvenile	Male and Female	250	5	Capture/Handle/Release Fish	Trap, Not listed here	Anesthetize	N/A	N/A	1/25/2020	12/31/2020
11		Salmon, Chinook	Snake River spring/summer-run (NMFS Threatened)	Natural	Juvenile	Male and Female	6700	150	Capture/Mark, Tag, Sample Tissue/Release Live Animal	Trap, Not listed here	Tag, PIT	Spring/Summer	N/A	1/25/2020	12/31/2020
12		Salmon, Chinook	Snake River spring/summer-run (NMFS Threatened)	Listed Hatchery Intact Adipose	Juvenile	Male and Female	300	3	Capture/Mark, Tag, Sample Tissue/Release Live Animal	Trap, Not listed here	Tag, PIT	Spring/Summer	N/A	1/25/2020	12/31/2020

13		Salmon, Chinook	Snake River spring/summer-run (NMFS Threatened)	Listed Hatchery Adipose Clip	Juvenile	Male and Female	1700	21	Capture/Mark, Tag, Sample Tissue/Release Live Animal	Trap, Not listed here	Tag, PIT	Spring/Summer	N/A	1/25/2020	12/31/2020
14		Steelhead	Snake River Basin (NMFS Threatened)	Natural	Juvenile	Male and Female	1400	28	Capture/Mark, Tag, Sample Tissue/Release Live Animal	Trap, Not listed here	Tag, PIT	Summer	N/A	1/25/2020	12/31/2020
15		Steelhead	Snake River Basin (NMFS Threatened)	Listed Hatchery Adipose Clip	Juvenile	Male and Female	3400	68	Capture/Mark, Tag, Sample Tissue/Release Live Animal	Trap, Not listed here	Tag, PIT	Summer	N/A	1/25/2020	12/31/2020

Freshwater Location
Research Area: Pacific Ocean **State:** WA **Sub Basin (4th Field HUC):** Lower Snake River **Stream Name:** Snake River
Sale in Oregon of species taken: None
Location Description: Lower Monumental Dam, Juvenile Bypass System, LMN

Take Information

Line	Ver	Species	Listing Unit/Stock	Production /Origin	Life Stage	Sex	Expected Take	Indirect Mort	Take Action	Observe /Collect Method	Procedure	Run	Transport Record	Begin Date	End Date
1		Salmon, Chinook	Snake River spring/summer-run (NMFS Threatened)	Natural	Juvenile	Male and Female	4800	100	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	Spring/Summer	N/A	1/25/2020	12/31/2020
2		Salmon, Chinook	Snake River spring/summer-run (NMFS Threatened)	Listed Hatchery Intact Adipose	Juvenile	Male and Female	2000	40	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	Spring/Summer	N/A	1/25/2020	12/31/2020
3		Salmon, Chinook	Snake River spring/summer-run (NMFS Threatened)	Listed Hatchery Adipose Clip	Juvenile	Male and Female	2000	40	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	Spring/Summer	N/A	1/25/2020	12/31/2020

4		Steelhead	Snake River Basin (NMFS Threatened)	Natural	Juvenile	Male and Female	1250	25	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	Summer	N/A	1/25/2020	12/31/2020
5		Steelhead	Snake River Basin (NMFS Threatened)	Listed Hatchery Intact Adipose	Juvenile	Male and Female	1000	20	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	Summer	N/A	1/25/2020	12/31/2020
6		Steelhead	Snake River Basin (NMFS Threatened)	Listed Hatchery Adipose Clip	Juvenile	Male and Female	3500	50	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	Summer	N/A	1/25/2020	12/31/2020
7		Salmon, Chinook	Snake River fall-run (NMFS Threatened)	Natural	Juvenile	Male and Female	7500	100	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	N/A	N/A	1/25/2020	12/31/2020
8		Salmon, Chinook	Snake River fall-run (NMFS Threatened)	Listed Hatchery Intact Adipose	Juvenile	Male and Female	16000	300	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	N/A	N/A	1/25/2020	12/31/2020
9		Salmon, Chinook	Snake River fall-run (NMFS Threatened)	Listed Hatchery Adipose Clip	Juvenile	Male and Female	8000	200	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	N/A	N/A	1/25/2020	12/31/2020

10		Salmon, sockeye	Snake River (NMFS Endangered)	Natural	Juvenile	Male and Female	1500	30	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	N/A	N/A	1/25/2020	12/31/2020

Freshwater Location
Research Area: Pacific Ocean **State:** ID **Sub Basin (4th Field HUC):** Lower Snake-Asotin **Stream Name:** Snake River
Sale in Oregon of species taken: None
Location Description: Lewiston Trap, Snake River LeT

Take Information

Line	Ver	Species	Listing Unit/Stock	Production /Origin	Life Stage	Sex	Expected Take	Indirect Mort	Take Action	Observe /Collect Method	Procedure	Run	Transport Record	Begin Date	End Date
1		Salmon, Chinook	Snake River spring/summer-run (NMFS Threatened)	Natural	Juvenile	Male and Female	4000	80	Capture/Handle/Release Fish	Trap, Not listed here	Anesthetize	Spring/Summer	N/A	1/25/2020	12/31/2020
2		Salmon, Chinook	Snake River spring/summer-run (NMFS Threatened)	Listed Hatchery Intact Adipose	Juvenile	Male and Female	2000	40	Capture/Handle/Release Fish	Trap, Not listed here	Anesthetize	Spring/Summer	N/A	1/25/2020	12/31/2020
3		Salmon, Chinook	Snake River spring/summer-run (NMFS Threatened)	Listed Hatchery Adipose Clip	Juvenile	Male and Female	7000	100	Capture/Handle/Release Fish	Trap, Not listed here	Anesthetize	Spring/Summer	N/A	1/25/2020	12/31/2020
4		Steelhead	Snake River Basin (NMFS Threatened)	Natural	Juvenile	Male and Female	1500	30	Capture/Handle/Release Fish	Trap, Not listed here	Anesthetize	Summer	N/A	1/25/2020	12/31/2020
5		Steelhead	Snake River Basin (NMFS Threatened)	Listed Hatchery Intact Adipose	Juvenile	Male and Female	1000	20	Capture/Handle/Release Fish	Trap, Not listed here	Anesthetize	Summer	N/A	1/25/2020	12/31/2020
6		Steelhead	Snake River Basin (NMFS Threatened)	Listed Hatchery Adipose Clip	Juvenile	Male and Female	3500	80	Capture/Handle/Release Fish	Trap, Not listed here	Anesthetize	Summer	N/A	1/25/2020	12/31/2020
7		Salmon, Chinook	Snake River fall-run (NMFS Threatened)	Natural	Juvenile	Male and Female	1500	15	Capture/Handle/Release Fish	Trap, Not listed here	Anesthetize	N/A	N/A	1/25/2020	12/31/2020

8		Salmon, Chinook	Snake River fall-run (NMFS Threatened)	Listed Hatchery Intact Adipose	Juvenile	Male and Female	5000	70	Capture/Handle/Release Fish	Trap, Not listed here	Anesthetize	N/A	N/A	1/25/2020	12/31/2020
9		Salmon, Chinook	Snake River fall-run (NMFS Threatened)	Listed Hatchery Adipose Clip	Juvenile	Male and Female	1000	15	Capture/Handle/Release Fish	Trap, Not listed here	Anesthetize	N/A	N/A	1/25/2020	12/31/2020
10		Salmon, sockeye	Snake River (NMFS Endangered)	Natural	Juvenile	Male and Female	700	14	Capture/Handle/Release Fish	Trap, Not listed here	Anesthetize	N/A	N/A	1/25/2020	12/31/2020
11		Salmon, Chinook	Snake River spring/summer-run (NMFS Threatened)	Natural	Juvenile	Male and Female	4800	90	Capture/Mark, Tag, Sample Tissue/Release Live Animal	Trap, Not listed here	Tag, PIT	Spring/Summer	N/A	1/25/2020	12/31/2020
12		Salmon, Chinook	Snake River spring/summer-run (NMFS Threatened)	Listed Hatchery Intact Adipose	Juvenile	Male and Female	200	3	Capture/Mark, Tag, Sample Tissue/Release Live Animal	Trap, Not listed here	Tag, PIT	Spring/Summer	N/A	1/25/2020	12/31/2020
13		Salmon, Chinook	Snake River spring/summer-run (NMFS Threatened)	Listed Hatchery Adipose Clip	Juvenile	Male and Female	1600	21	Capture/Mark, Tag, Sample Tissue/Release Live Animal	Trap, Not listed here	Tag, PIT	Spring/Summer	N/A	1/25/2020	12/31/2020
14		Steelhead	Snake River Basin (NMFS Threatened)	Natural	Juvenile	Male and Female	1400	28	Capture/Mark, Tag, Sample Tissue/Release Live Animal	Trap, Not listed here	Tag, PIT	Summer	N/A	1/25/2020	12/31/2020
15		Steelhead	Snake River Basin (NMFS Threatened)	Listed Hatchery Adipose Clip	Juvenile	Male and Female	3600	72	Capture/Mark, Tag, Sample Tissue/Release Live Animal	Trap, Not listed here	Tag, PIT	Summer	N/A	1/25/2020	12/31/2020

Freshwater Location
Research Area: Pacific Ocean **State:** WA **Sub Basin (4th Field HUC):** Lower Snake-Tucannon **Stream Name:** Snake River
Sale in Oregon of species taken: None
Location Description: Lower Granite Dam, Juvenile Bypass System, LGR

Take Information

Line	Ver	Species	Listing Unit/Stock	Production /Origin	Life Stage	Sex	Expected Take	Indirect Mort	Take Action	Observe /Collect Method	Procedure	Run	Transport Record	Begin Date	End Date

1		Salmon, Chinook	Snake River spring/summer-run (NMFS Threatened)	Natural	Juvenile	Male and Female	7200	140	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc (only if associated with fish handling)	Anesthetize	Spring/Summer	N/A	1/25/2020	12/31/2020
2		Salmon, Chinook	Snake River spring/summer-run (NMFS Threatened)	Listed Hatchery Intact Adipose	Juvenile	Male and Female	2000	40	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	Spring/Summer	N/A	1/25/2020	12/31/2020
3		Salmon, Chinook	Snake River spring/summer-run (NMFS Threatened)	Listed Hatchery Adipose Clip	Juvenile	Male and Female	6000	80	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	Summer	N/A	1/25/2020	12/31/2020
4		Steelhead	Snake River Basin (NMFS Threatened)	Natural	Juvenile	Male and Female	3000	60	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	Summer	N/A	1/25/2020	12/31/2020
5		Steelhead	Snake River Basin (NMFS Threatened)	Listed Hatchery Intact Adipose	Juvenile	Male and Female	2500	50	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	Summer	N/A	1/25/2020	12/31/2020
6		Steelhead	Snake River Basin (NMFS Threatened)	Listed Hatchery Adipose Clip	Juvenile	Male and Female	7500	150	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc (only if associated with fish handling)	Anesthetize	Summer	N/A	1/25/2020	12/31/2020

7		Salmon, Chinook	Snake River fall-run (NMFS Threatened)	Natural	Juvenile	Male and Female	20000	250	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	N/A	N/A	1/25/2020	12/31/2020
8		Salmon, Chinook	Snake River fall-run (NMFS Threatened)	Listed Hatchery Intact Adipose	Juvenile	Male and Female	40000	800	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	N/A	N/A	1/25/2020	12/31/2020
9		Salmon, Chinook	Snake River fall-run (NMFS Threatened)	Listed Hatchery Adipose Clip	Juvenile	Male and Female	10000	200	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	N/A	N/A	1/25/2020	12/31/2020
10		Salmon, sockeye	Snake River (NMFS Endangered)	Natural	Juvenile	Male and Female	4500	90	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	N/A	N/A	1/25/2020	12/31/2020

Freshwater Location
Research Area: Pacific Ocean **State:** WA **Sub Basin (4th Field HUC):** Lower Snake-Tucannon **Stream Name:** Snake River
Sale in Oregon of species taken: None
Location Description: Little Goose Dam, Juvenile Bypass System, LGS

Take Information

Line	Ver	Species	Listing Unit/Stock	Production /Origin	Life Stage	Sex	Expected Take	Indirect Mort	Take Action	Observe /Collect Method	Procedure	Run	Transport Record	Begin Date	End Date
1		Salmon, Chinook	Snake River spring/summer-run (NMFS Threatened)	Natural	Juvenile	Male and Female	5600	110	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	Spring/Summer	N/A	1/25/2020	12/31/2020

2		Salmon, Chinook	Snake River spring/summer-run (NMFS Threatened)	Listed Hatchery Intact Adipose	Juvenile	Male and Female	2000	40	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	Spring/Summer	N/A	1/25/2020	12/31/2020
3		Salmon, Chinook	Snake River spring/summer-run (NMFS Threatened)	Listed Hatchery Adipose Clip	Juvenile	Male and Female	4000	80	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	Summer	N/A	1/25/2020	12/31/2020
4		Steelhead	Snake River Basin (NMFS Threatened)	Natural	Juvenile	Male and Female	2000	40	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	Summer	N/A	1/25/2020	12/31/2020
5		Steelhead	Snake River Basin (NMFS Threatened)	Listed Hatchery Intact Adipose	Juvenile	Male and Female	1500	50	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	Summer	N/A	1/25/2020	12/31/2020
6		Steelhead	Snake River Basin (NMFS Threatened)	Listed Hatchery Adipose Clip	Juvenile	Male and Female	6000	100	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	Summer	N/A	1/25/2020	12/31/2020
7		Salmon, Chinook	Snake River fall-run (NMFS Threatened)	Natural	Juvenile	Male and Female	20000	200	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	N/A	N/A	1/25/2020	12/31/2020

8		Salmon, Chinook	Snake River fall-run (NMFS Threatened)	Listed Hatchery Intact Adipose	Juvenile	Male and Female	40000	800	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	N/A	N/A	1/25/2020	12/31/2020
9		Salmon, Chinook	Snake River fall-run (NMFS Threatened)	Listed Hatchery Adipose Clip	Juvenile	Male and Female	11000	200	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	N/A	N/A	1/25/2020	12/31/2020
10		Salmon, sockeye	Snake River (NMFS Endangered)	Natural	Juvenile	Male and Female	3300	66	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	N/A	N/A	1/25/2020	12/31/2020

Freshwater Location
Research Area: Pacific Ocean **State:** OR **Sub Basin (4th Field HUC):** Middle Columbia-Hood **Stream Name:** Middle Columbia River
Sale in Oregon of species taken: None
Location Description: John Day Dam Juvenile Bypass System, JDA

Take Information

Line	Ver	Species	Listing Unit/Stock	Production /Origin	Life Stage	Sex	Expected Take	Indirect Mort	Take Action	Observe /Collect Method	Procedure	Run	Transport Record	Begin Date	End Date
1		Bass, Largemouth	NA	Natural	Adult	Unknown	10	1	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	N/A	N/A	1/25/2020	12/31/2020
2		Bass, Smallmouth	NA	Natural	Adult	Unknown	400	2	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated	Anesthetize	N/A	N/A	1/25/2020	12/31/2020

									with fish handling)						
3		Bluegill	NA	Natural	Adult	Unknown	300	5	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	N/A	N/A	1/25/2020	12/31/2020
4		Bullhead (unknown)	NA	Natural	Adult	Unknown	25	1	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	N/A	N/A	1/25/2020	12/31/2020
5		Carp, Common	NA	Natural	Adult	Unknown	25	2	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	N/A	N/A	1/25/2020	12/31/2020
6		Catfish, Channel	NA	Natural	Adult	Unknown	150	10	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	N/A	N/A	1/25/2020	12/31/2020
7		Crappie, Black	NA	Natural	Adult	Unknown	50	5	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	N/A	N/A	1/25/2020	12/31/2020

8		Dace, Longnose	NA	Natural	Adult	Unknown	10	1	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	N/A	N/A	1/25/2020	12/31/2020
9		Kilifish, Banded	NA	Natural	Adult	Male and Female	50	5	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	N/A	N/A	1/25/2020	12/31/2020
10		Kokanee	NA	Natural	Adult	Unknown	10	0	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	N/A	N/A	1/25/2020	12/31/2020
11		Lamprey, Pacific	NA	Natural	Juvenile	Unknown	15000	150	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	N/A	N/A	1/25/2020	12/31/2020
12		Lamprey, Pacific	NA	Natural	Larvae	Unknown	3000	30	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	N/A	N/A	1/25/2020	12/31/2020
13		Lamprey, Pacific	NA	Natural	Adult	Unknown	50	1	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated	Anesthetize	N/A	N/A	1/25/2020	12/31/2020

									with fish handling)						
14		Mixed invertebrate	NA	N/A	Adult	Unknown	10000	500	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)		N/A	N/A	1/25/2020	12/31/2020
15		Peamouth	NA	Natural	Adult	Unknown	10	0	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	N/A	N/A	1/25/2020	12/31/2020
16		Perch, Yellow	NA	Natural	Adult	Unknown	400	50	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	N/A	N/A	1/25/2020	12/31/2020
17		Pikeminnow, Northern	NA	Natural	Adult	Unknown	100	2	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	N/A	N/A	1/25/2020	12/31/2020
18		Salmon, Chinook	Snake River fall-run (NMFS Threatened)	Natural	Juvenile	Male and Female	250	10	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	N/A	N/A	1/25/2020	12/31/2020

19		Salmon, Chinook	Snake River fall-run (NMFS Threatened)	Listed Hatchery Intact Adipose	Juvenile	Male and Female	4500	90	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	N/A	N/A	1/25/2020	12/31/2020
20		Salmon, Chinook	Snake River fall-run (NMFS Threatened)	Listed Hatchery Adipose Clip	Juvenile	Male and Female	500	10	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	N/A	N/A	1/25/2020	12/31/2020
21		Salmon, Chinook	Snake River spring/summer-run (NMFS Threatened)	Natural	Juvenile	Male and Female	1040	20	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	Spring/Summer	N/A	1/25/2020	12/31/2020
22		Salmon, Chinook	Snake River spring/summer-run (NMFS Threatened)	Listed Hatchery Intact Adipose	Juvenile	Male and Female	500	10	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	Spring/Summer	N/A	1/25/2020	12/31/2020
23		Salmon, Chinook	Snake River spring/summer-run (NMFS Threatened)	Listed Hatchery Adipose Clip	Juvenile	Male and Female	1500	30	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	Summer	N/A	1/25/2020	12/31/2020
24		Salmon, Chinook	Upper Columbia River spring-run (NMFS Endangered)	Natural	Juvenile	Male and Female	4000	80	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated	Anesthetize	Spring	N/A	1/25/2020	12/31/2020

			Endangered)						with fish handling)						
25		Salmon, Chinook	Upper Columbia River spring-run (NMFS Endangered)	Listed Hatchery Intact Adipose	Juvenile	Male and Female	1800	36	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	Spring	N/A	1/25/2020	12/31/2020
26		Salmon, Chinook	Upper Columbia River spring-run (NMFS Endangered)	Listed Hatchery Adipose Clip	Juvenile	Male and Female	1800	36	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	Spring	N/A	1/25/2020	12/31/2020
27		Salmon, sockeye	Snake River (NMFS Endangered)	Natural	Juvenile	Male and Female	500	10	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	N/A	N/A	1/25/2020	12/31/2020
28		Sculpin (unknown)	NA	Natural	Adult	Unknown	200	5	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	N/A	N/A	1/25/2020	12/31/2020
29		Shad, American	NA	Natural	Juvenile	Unknown	400000	25000	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	N/A	N/A	1/25/2020	12/31/2020

30		Shad, American	NA	Natural	Adult	Unknown	100	50	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	N/A	N/A	1/25/2020	12/31/2020
31		Steelhead	Middle Columbia River (NMFS Threatened)	Natural	Juvenile	Male and Female	6000	120	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	Summer	N/A	1/25/2020	12/31/2020
32		Steelhead	Snake River Basin (NMFS Threatened)	Natural	Juvenile	Male and Female	1500	30	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	Summer	N/A	1/25/2020	12/31/2020
33		Steelhead	Snake River Basin (NMFS Threatened)	Listed Hatchery Intact Adipose	Juvenile	Male and Female	1500	30	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	Summer	N/A	1/25/2020	12/31/2020
34		Steelhead	Snake River Basin (NMFS Threatened)	Listed Hatchery Adipose Clip	Juvenile	Male and Female	2000	30	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	Summer	N/A	1/25/2020	12/31/2020
35		Steelhead	Unspecified	Natural	Adult	Unknown	10	0	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated	Anesthetize	Unknown	N/A	1/25/2020	12/31/2020

									with fish handling)						
36		Steelhead	Unspecified	Unlisted Hatchery	Adult	Unknown	5	0	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	Unknown	N/A	1/25/2020	12/31/2020
37		Steelhead	Upper Columbia River (NMFS Threatened)	Natural	Juvenile	Male and Female	4500	90	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	Summer	N/A	1/25/2020	12/31/2020
38		Steelhead	Upper Columbia River (NMFS Threatened)	Listed Hatchery Intact Adipose	Juvenile	Male and Female	2000	40	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	Summer	N/A	1/25/2020	12/31/2020
39		Steelhead	Upper Columbia River (NMFS Threatened)	Listed Hatchery Adipose Clip	Juvenile	Male and Female	4000	80	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	Summer	N/A	1/25/2020	12/31/2020
40		Stickleback, Threespine	NA	Natural	Adult	Unknown	100	2	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	N/A	N/A	1/25/2020	12/31/2020

41		Sucker (unknown)	NA	Natural	Adult	Unknown	50	1	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	N/A	N/A	1/25/2020	12/31/2020
42		Sucker, Bridgelip	NA	Natural	Adult	Unknown	50	0	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	N/A	N/A	1/25/2020	12/31/2020
43		Walleye	NA	Natural	Adult	Unknown	300	10	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	N/A	N/A	1/25/2020	12/31/2020
44		Whitefish, Mountain	NA	Natural	Adult	Unknown	150	5	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	N/A	N/A	1/25/2020	12/31/2020
45		Salmon, Chinook	Unspecified	Natural	Subadult	Unknown	5	0	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	Unknown	N/A	1/25/2020	12/31/2020

Freshwater Location
Research Area: Pacific Ocean **State:** WA **Sub Basin (4th Field HUC):** Middle Columbia-Hood **Stream Name:** Middle Columbia River
Sale in Oregon of species taken: None
Location Description: Bonneville Dam Juvenile Bypass System, BON

Take Information

Line	Ver	Species	Listing Unit/Stock	Production /Origin	Life Stage	Sex	Expected Take	Indirect Mort	Take Action	Observe /Collect Method	Procedure	Run	Transport Record	Begin Date	End Date
1		Salmon, Chinook	Snake River spring/summer-run (NMFS Threatened)	Natural	Juvenile	Male and Female	640	12	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	Spring/Summer	N/A	1/25/2020	12/31/2020
2		Salmon, Chinook	Snake River spring/summer-run (NMFS Threatened)	Listed Hatchery Intact Adipose	Juvenile	Male and Female	500	10	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	Spring/Summer	N/A	1/25/2020	12/31/2020
3		Salmon, Chinook	Snake River spring/summer-run (NMFS Threatened)	Listed Hatchery Adipose Clip	Juvenile	Male and Female	700	10	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	Spring/Summer	N/A	1/25/2020	12/31/2020
4		Steelhead	Snake River Basin (NMFS Threatened)	Natural	Juvenile	Male and Female	250	5	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	Summer	N/A	1/25/2020	12/31/2020
5		Steelhead	Snake River Basin (NMFS Threatened)	Listed Hatchery Intact Adipose	Juvenile	Male and Female	200	2	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	Summer	N/A	1/25/2020	12/31/2020
6		Steelhead	Snake River Basin (NMFS Threatened)	Listed Hatchery Adipose Clip	Juvenile	Male and Female	800	8	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with	Anesthetize	Summer	N/A	1/25/2020	12/31/2020

										fish handling)					
7		Salmon, Chinook	Snake River fall-run (NMFS Threatened)	Natural	Juvenile	Male and Female	1250	10	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	N/A	N/A	1/25/2020	12/31/2020
8		Salmon, Chinook	Snake River fall-run (NMFS Threatened)	Listed Hatchery Intact Adipose	Juvenile	Male and Female	1500	30	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	N/A	N/A	1/25/2020	12/31/2020
9		Salmon, Chinook	Snake River fall-run (NMFS Threatened)	Listed Hatchery Adipose Clip	Juvenile	Male and Female	2000	40	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	N/A	N/A	1/25/2020	12/31/2020
10		Salmon, sockeye	Snake River (NMFS Endangered)	Natural	Juvenile	Male and Female	500	10	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	N/A	N/A	1/25/2020	12/31/2020
11		Salmon, Chinook	Upper Columbia River spring-run (NMFS Endangered)	Natural	Juvenile	Male and Female	1300	26	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	Spring	N/A	1/25/2020	12/31/2020
12		Salmon, Chinook	Upper Columbia River spring-run (NMFS Endangered)	Listed Hatchery Intact Adipose	Juvenile	Male and Female	700	14	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	N/A	N/A	1/25/2020	12/31/2020

13		Salmon, Chinook	Upper Columbia River spring-run (NMFS Endangered)	Listed Hatchery Adipose Clip	Juvenile	Male and Female	1300	26	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	N/A	N/A	1/25/2020	12/31/2020
14		Steelhead	Upper Columbia River (NMFS Threatened)	Natural	Juvenile	Male and Female	1500	30	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	Summer	N/A	1/25/2020	12/31/2020
15		Steelhead	Upper Columbia River (NMFS Threatened)	Listed Hatchery Intact Adipose	Juvenile	Male and Female	300	7	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	Summer	N/A	1/25/2020	12/31/2020
16		Steelhead	Upper Columbia River (NMFS Threatened)	Listed Hatchery Adipose Clip	Juvenile	Male and Female	1200	23	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	Summer	N/A	1/25/2020	12/31/2020
17		Steelhead	Middle Columbia River (NMFS Threatened)	Natural	Juvenile	Male and Female	5000	100	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	Mixed	N/A	1/25/2020	12/31/2020
18		Salmon, Chinook	Lower Columbia River (NMFS Threatened)	Natural	Juvenile	Male and Female	800	16	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	Fall	N/A	1/25/2020	12/31/2020

19		Steelhead	Lower Columbia River (NMFS Threatened)	Natural	Juvenile	Male and Female	1000	20	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	Mixed	N/A	1/25/2020	12/31/2020
20		Salmon, Chinook	Lower Columbia River (NMFS Threatened)	Natural	Juvenile	Male and Female	22000	440	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	Tule Fall	N/A	1/25/2020	12/31/2020
21		Salmon, coho	Lower Columbia River (NMFS Threatened)	Natural	Juvenile	Male and Female	2000	40	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	N/A	N/A	1/25/2020	12/31/2020
22		Salmon, chum	Columbia River (NMFS Threatened)	Natural	Juvenile	Male and Female	500	10	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	N/A	N/A	1/25/2020	12/31/2020

Freshwater Location
Research Area: Pacific Ocean **State:** OR **Sub Basin (4th Field HUC):** Middle Columbia-Lake Wallula **Stream Name:** Snake River
Sale in Oregon of species taken: None
Location Description: McNary Dam, Juvenile Bypass System, MCN

Take Information

Line	Ver	Species	Listing Unit/Stock	Production /Origin	Life Stage	Sex	Expected Take	Indirect Mort	Take Action	Observe /Collect Method	Procedure	Run	Transport Record	Begin Date	End Date
1		Salmon, Chinook	Snake River spring/summer-run (NMFS Threatened)	Natural	Juvenile	Male and Female	880	20	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish	Anesthetize	Spring/Summer	N/A	1/25/2020	12/31/2020

										handling)						
2		Salmon, Chinook	Snake River spring/summer-run (NMFS Threatened)	Listed Hatchery Intact Adipose	Juvenile	Male and Female	1000	20	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	Spring/Summer	N/A	1/25/2020	12/31/2020
3		Salmon, Chinook	Snake River spring/summer-run (NMFS Threatened)	Listed Hatchery Adipose Clip	Juvenile	Male and Female	2000	40	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	Summer	N/A	1/25/2020	12/31/2020
4		Steelhead	Snake River Basin (NMFS Threatened)	Natural	Juvenile	Male and Female	500	10	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	Summer	N/A	1/25/2020	12/31/2020
5		Steelhead	Snake River Basin (NMFS Threatened)	Listed Hatchery Intact Adipose	Juvenile	Male and Female	500	10	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	Summer	N/A	1/25/2020	12/31/2020
6		Steelhead	Snake River Basin (NMFS Threatened)	Listed Hatchery Adipose Clip	Juvenile	Male and Female	1000	20	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	Summer	N/A	1/25/2020	12/31/2020

7		Salmon, Chinook	Snake River fall-run (NMFS Threatened)	Natural	Juvenile	Male and Female	250	10	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	N/A	N/A	1/25/2020	12/31/2020
8		Salmon, Chinook	Snake River fall-run (NMFS Threatened)	Listed Hatchery Intact Adipose	Juvenile	Male and Female	2000	40	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	N/A	N/A	1/25/2020	12/31/2020
9		Salmon, Chinook	Snake River fall-run (NMFS Threatened)	Listed Hatchery Adipose Clip	Juvenile	Male and Female	3000	60	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	N/A	N/A	1/25/2020	12/31/2020
10		Salmon, sockeye	Snake River (NMFS Endangered)	Natural	Juvenile	Male and Female	500	10	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	N/A	N/A	1/25/2020	12/31/2020
11		Salmon, Chinook	Upper Columbia River spring-run (NMFS Endangered)	Natural	Juvenile	Male and Female	3320	66	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	Spring	N/A	1/25/2020	12/31/2020
12		Steelhead	Upper Columbia River (NMFS Threatened)	Natural	Juvenile	Male and Female	1000	20	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated	Anesthetize	Summer	N/A	1/25/2020	12/31/2020

									with fish handling)						
13		Steelhead	Upper Columbia River (NMFS Threatened)	Listed Hatchery Intact Adipose	Juvenile	Male and Female	1000	20	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	Summer	N/A	1/25/2020	12/31/2020
14		Steelhead	Upper Columbia River (NMFS Threatened)	Listed Hatchery Adipose Clip	Juvenile	Male and Female	3000	60	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	Summer	N/A	1/25/2020	12/31/2020
15		Steelhead	Middle Columbia River (NMFS Threatened)	Natural	Juvenile	Male and Female	1000	20	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	Summer	N/A	1/25/2020	12/31/2020
16		Salmon, Chinook	Upper Columbia River spring-run (NMFS Endangered)	Listed Hatchery Intact Adipose	Juvenile	Male and Female	2000	40	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	Spring	N/A	1/25/2020	12/31/2020
17		Salmon, Chinook	Upper Columbia River spring-run (NMFS Endangered)	Listed Hatchery Adipose Clip	Juvenile	Male and Female	2000	40	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	Spring	N/A	1/25/2020	12/31/2020

18		Steelhead	Unspecified	Natural	Adult	Unknown	5	0	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	Unknown	N/A	1/25/2020	12/31/2020
19		Steelhead	Unspecified	Unlisted Hatchery	Adult	Unknown	5	0	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	Unknown	N/A	1/25/2020	12/31/2020
20		Bullhead (unknown)	NA	Natural	Adult	Unknown	25	1	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	N/A	N/A	1/25/2020	12/31/2020
21		Bass, Largemouth	NA	Natural	Adult	Unknown	10	0	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	N/A	N/A	1/25/2020	12/31/2020
22		Bass, Smallmouth	NA	Natural	Adult	Unknown	350	5	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	N/A	N/A	1/25/2020	12/31/2020
23		Catfish, Channel	NA	Natural	Adult	Unknown	20	10	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated	Anesthetize	N/A	N/A	1/25/2020	12/31/2020

									with fish handling)						
24		Chub, Chiselmouth	NA	Natural	Adult	Unknown	5	0	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	N/A	N/A	1/25/2020	12/31/2020
25		Carp, Common	NA	Natural	Adult	Unknown	100	1	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	N/A	N/A	1/25/2020	12/31/2020
26		Salmon, Chinook	Unspecified	Unlisted Hatchery	Subadult	Unknown	10	0	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	Unknown	N/A	1/25/2020	12/31/2020
27		Salmon, Chinook	Unspecified	Natural	Subadult	Unknown	5	0	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	Unknown	N/A	1/25/2020	12/31/2020
28		Kokanee	NA	Natural	Adult	Unknown	10	0	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	N/A	N/A	1/25/2020	12/31/2020

29		Dace, Longnose	NA	Natural	Adult	Unknown	100	1	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	N/A	N/A	1/25/2020	12/31/2020
30		Whitefish, Mountain	NA	Natural	Adult	Unknown	100	1	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	N/A	N/A	1/25/2020	12/31/2020
31		Perch, Yellow	NA	Natural	Adult	Unknown	50	5	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	N/A	N/A	1/25/2020	12/31/2020
32		Peamouth	NA	Natural	Adult	Unknown	1000	1	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	N/A	N/A	1/25/2020	12/31/2020
33		Shiner, Redside	NA	Natural	Adult	Unknown	5	0	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	N/A	N/A	1/25/2020	12/31/2020
34		Shad, American	NA	Natural	Juvenile	Unknown	500000	10000	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated	Anesthetize	N/A	N/A	1/25/2020	12/31/2020

									with fish handling)						
35		Stickleback, Threespine	NA	Natural	Adult	Unknown	300	20	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	N/A	N/A	1/25/2020	12/31/2020
36		Pikeminnow, Northern	NA	Natural	Adult	Unknown	5	0	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	N/A	N/A	1/25/2020	12/31/2020
37		Sandroller	NA	Natural	Adult	Unknown	5	0	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	N/A	N/A	1/25/2020	12/31/2020
38		Sucker (unknown)	NA	Natural	Adult	Unknown	15	1	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	N/A	N/A	1/25/2020	12/31/2020
39		Lamprey, Pacific	NA	Natural	Juvenile	Unknown	5000	100	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	N/A	N/A	1/25/2020	12/31/2020

40		Lamprey, Pacific	NA	Natural	Larvae	Unknown	100	1	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	N/A	N/A	1/25/2020	12/31/2020
41		Lamprey, Pacific	NA	Natural	Adult	Unknown	50	1	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	N/A	N/A	1/25/2020	12/31/2020
42		Sculpin (unknown)	NA	Natural	Adult	Unknown	10	1	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	N/A	N/A	1/25/2020	12/31/2020
43		Walleye	NA	Natural	Adult	Unknown	20	0	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	N/A	N/A	1/25/2020	12/31/2020
44		Bluegill	NA	Natural	Adult	Unknown	200	1	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	N/A	N/A	1/25/2020	12/31/2020
45		Killifish, Banded	NA	Natural	Adult	Unknown	100	3	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated	Anesthetize	N/A	N/A	1/25/2020	12/31/2020

									with fish handling)						
46		Shad, American	NA	Natural	Adult	Unknown	50	10	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	N/A	N/A	1/25/2020	12/31/2020
47		Unknown fish	NA	Natural	Unknown	Unknown	20	0	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	N/A	N/A	1/25/2020	12/31/2020
48		Crappie, Black	NA	Natural	Unknown	Unknown	20	1	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)		N/A	N/A	1/25/2020	12/31/2020
49		Mixed invertebrate	NA	N/A	Adult	Unknown	200	20	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	N/A	N/A	1/25/2020	12/31/2020
51		Tench	NA	Natural	Adult	Unknown	5	0	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	N/A	N/A	1/25/2020	12/31/2020

52		Dace, Speckled	NA	Natural	Adult	Unknown	5	1	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	N/A	N/A	1/25/2020	12/31/2020
53		Salmon, sockeye	NA	Natural	Adult	Unknown	1	0	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	N/A	N/A	1/25/2020	12/31/2020

Project Contacts

Primary Contact: Brandon R Chockley

Principal Investigator: Michele DeHart

Other Personnel

Name	Role(s)
Rick Martinson	Co-Investigator
Charles F. Morrill	Co-Investigator

Collector Comments: SMP crews overseen by PSMFC, WDFW, ODFW, or IDFG.

Attachments

Application Archive - (Added Jan 28, 2020)
Certification of Identity - (Added Dec 18, 2019)
Contact - Charles F. Morrill (Added Oct 17, 2008)
Contact - Michele DeHart (Added Jan 20, 2015)
Contact - Rick Martinson (Added Jan 8, 2016)

Renewal Summary

The proposed research activities changed. Changes were made to the following:

- Project Description (Purpose or Description)
  Editorial changes
- Location/Take Information (Location, Species, Anticipated Take, Take Action, Collection Methods, Procedures, Transport Record)

Per NOAA's request, decreased total handling and mortality quota for listed natural Snake River spring/summer Chinook (by ~18%), listed natural Snake River steelhead (by ~40%), and listed natural Snake River fall Chinook (by ~33%).
Increased handling quota for listed Snake River hatchery clipped steelhead at LMN by 500, decreased handling quota at LET by 500. Net handling quota for listed Snake River hatchery clipped steelhead over entire SMP/CSS project remained the same.
Increased handling quota for listed Snake River hatchery clipped fall Chinook at LGS by 1000, decreased handling quota at LMN by 1000. Net handling quota for listed Snake River hatchery clipped fall Chinook over entire SMP/CSS project remained the same.
Increased handling quota for juvenile shad at MCN to 500000
Increased mortality quota for adult shad at MCN to 10
Removed take for Walleye (Unknown lifestage) at MCN - record was repeated twice

- Supplemental Information (Methods, Lethal Take, Anticipated effects, Measures to Minimize Effects, or Disposition)
Incorporated data from 2018 NOAA memo (Estimation of Percentages for Listed Salmon and Steelhead Smolts Arriving at Various Locations in the Columbia River Basin in 2018) into methods. Otherwise, editorial changes.

Summary of Take Information by Location

Original Location: State/Territory: ID; Lower Salmon; Salmon River (Salmon River Trap at Whitebird)
Renewed Location: State/Territory: ID; Lower Salmon; Salmon River (Salmon River Trap at Whitebird)

Species	Listing Unit or Stock	Capture Method	Lifestage	Production or Origin	Previous Anticipated Take	Previous Indirect Mortality	Reported Actual Take	Reported Indirect Mortality	Current Anticipated Take	Current Indirect Mortality
Salmon, Chinook	Snake River fall-run	Trap, Not listed here	Juvenile	Listed Hatchery Adipose Clip	20	1	0	0	20	1
Salmon, Chinook	Snake River fall-run	Trap, Not listed here	Juvenile	Listed Hatchery Intact Adipose	80	1	0	0	80	1
Salmon, Chinook	Snake River fall-run	Trap, Not listed here	Juvenile	Natural	150	3	1	0	75	3
Salmon, Chinook	Snake River spring/summer-run	Trap, Not listed here	Juvenile	Listed Hatchery Adipose Clip	19700	421	11058	8	19700	421
Salmon, Chinook	Snake River spring/summer-run	Trap, Not listed here	Juvenile	Listed Hatchery Intact Adipose	3300	63	512	0	3300	63
Salmon, Chinook	Snake River spring/summer-run	Trap, Not listed here	Juvenile	Natural	21200	384	2117	0	17100	325
Salmon, sockeye	Snake River	Trap, Not listed here	Juvenile	Natural	250	5	1	0	250	5
Steelhead	Snake River Basin	Trap, Not listed here	Juvenile	Listed Hatchery Adipose Clip	5400	108	762	0	5400	108
Steelhead	Snake River Basin	Trap, Not listed here	Juvenile	Listed Hatchery Intact Adipose	1500	27	11	0	1500	27
Steelhead	Snake River Basin	Trap, Not listed here	Juvenile	Natural	2200	44	255	1	1800	36

Original Location: State/Territory: ID; Lower Snake-Asotin; Snake River (Lewiston Trap, Snake River LeT)
Renewed Location: State/Territory: ID; Lower Snake-Asotin; Snake River (Lewiston Trap, Snake River LeT)

Species	Listing Unit or Stock	Capture Method	Lifestage	Production or Origin	Previous Anticipated Take	Previous Indirect Mortality	Reported Actual Take	Reported Indirect Mortality	Current Anticipated Take	Current Indirect Mortality
Salmon, Chinook	Snake River fall-run	Trap, Not listed here	Juvenile	Listed Hatchery Adipose Clip	1000	15	440	0	1000	15
Salmon, Chinook	Snake River fall-run	Trap, Not listed here	Juvenile	Listed Hatchery Intact Adipose	5000	70	194	0	5000	70
Salmon, Chinook	Snake River fall-run	Trap, Not listed here	Juvenile	Natural	3000	30	436	1	1500	15
Salmon, Chinook	Snake River spring/summer-run	Trap, Not listed here	Juvenile	Listed Hatchery Adipose Clip	8600	121	4050	0	8600	121
Salmon, Chinook	Snake River spring/summer-run	Trap, Not listed here	Juvenile	Listed Hatchery Intact Adipose	2200	43	285	0	2200	43
Salmon, Chinook	Snake River spring/summer-run	Trap, Not listed here	Juvenile	Natural	9800	196	1163	0	8800	170
Salmon, sockeye	Snake River	Trap, Not listed here	Juvenile	Natural	700	14	482	0	700	14
Steelhead	Snake River Basin	Trap, Not listed here	Juvenile	Listed Hatchery Adipose Clip	7600	152	1013	0	7100	152
Steelhead	Snake River Basin	Trap, Not listed here	Juvenile	Listed Hatchery Intact Adipose	1000	20	10	0	1000	20
Steelhead	Snake River Basin	Trap, Not listed here	Juvenile	Natural	4400	88	302	0	2900	58

Original Location: State/Territory: OR; Lower Grande Ronde; Grande Ronde River (Grande Ronde Trap, Lower Grand Ronde River, GrT)
Renewed Location: State/Territory: OR; Lower Grande Ronde; Grande Ronde River (Grande Ronde Trap, Lower Grand Ronde River, GrT)

Species	Listing Unit or Stock	Capture Method	Lifestage	Production or Origin	Previous Anticipated Take	Previous Indirect Mortality	Reported Actual Take	Reported Indirect Mortality	Current Anticipated Take	Current Indirect Mortality
Salmon, Chinook	Snake River fall-run	Trap, Incline Plane	Juvenile	Listed Hatchery Adipose Clip	100	4	0	0	100	4
Salmon, Chinook	Snake River fall-run	Trap, Incline Plane	Juvenile	Listed Hatchery Intact Adipose	900	16	3	1	900	16

Salmon, Chinook	Snake River fall-run	Trap, Incline Plane	Juvenile	Natural	3000	30	6	0	1500	15
Salmon, Chinook	Snake River spring/summer-run	Trap, Incline Plane	Juvenile	Listed Hatchery Adipose Clip	20120	372	10129	62	20120	372
Salmon, Chinook	Snake River spring/summer-run	Trap, Incline Plane	Juvenile	Listed Hatchery Intact Adipose	5280	136	2211	3	5280	136
Salmon, Chinook	Snake River spring/summer-run	Trap, Incline Plane	Juvenile	Natural	11300	206	3345	19	9800	160
Steelhead	Snake River Basin	Trap, Incline Plane	Juvenile	Natural	4200	84	1916	2	3200	54

Original Location: State/Territory: OR; Middle Columbia-Hood; Middle Columbia River (John Day Dam Juvenile Bypass System, JDA)
Renewed Location: State/Territory: OR; Middle Columbia-Hood; Middle Columbia River (John Day Dam Juvenile Bypass System, JDA)

Species	Listing Unit or Stock	Capture Method	Lifestage	Production or Origin	Previous Anticipated Take	Previous Indirect Mortality	Reported Actual Take	Reported Indirect Mortality	Current Anticipated Take	Current Indirect Mortality
Bass, Largemouth	NA	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Adult	Natural	10	1	2	0	10	1
Bass, Smallmouth	NA	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Adult	Natural	400	2	92	0	400	2
Bluegill	NA	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Adult	Natural	300	5	114	6	300	5
Bullhead (unknown)	NA	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Adult	Natural	25	1	3	0	25	1
Carp, Common	NA	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Adult	Natural	25	2	15	0	25	2
Catfish, Channel	NA	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Adult	Natural	150	10	5	2	150	10
Crappie, Black	NA	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Adult	Natural	50	5	13	0	50	5

Dace, Longnose	NA	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Adult	Natural	10	1	1	0	10	1
Killifish, Banded	NA	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Adult	Natural	50	5	35	0	50	5
Kokanee	NA	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Adult	Natural	10	0	1	0	10	0
Lamprey, Pacific	NA	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Adult	Natural	50	1	5	0	50	1
Lamprey, Pacific	NA	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Juvenile	Natural	15000	150	8766	9	15000	150
Lamprey, Pacific	NA	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Larvae	Natural	3000	30	405	2	3000	30
Mixed invertebrate	NA	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Adult	N/A	10000	500	1864	1	10000	500
Peamouth	NA	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Adult	Natural	10	0	0	0	10	0
Perch, Yellow	NA	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Adult	Natural	400	50	72	3	400	50
Pikeminnow, Northern	NA	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Adult	Natural	100	2	2	0	100	2
Salmon, Chinook	Snake River fall-run	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Juvenile	Listed Hatchery Adipose Clip	500	10	116	0	500	10
Salmon, Chinook	Snake River fall-run	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Juvenile	Listed Hatchery Intact Adipose	4500	90	28	0	4500	90

Salmon, Chinook	Snake River fall-run	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Juvenile	Natural	500	10	65	0	250	10
Salmon, Chinook	Snake River spring/summer-run	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Juvenile	Listed Hatchery Adipose Clip	1500	30	386	1	1500	30
Salmon, Chinook	Snake River spring/summer-run	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Juvenile	Listed Hatchery Intact Adipose	500	10	128	0	500	10
Salmon, Chinook	Snake River spring/summer-run	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Juvenile	Natural	1300	26	381	1	1040	20
Salmon, Chinook	Unspecified	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Subadult	Natural	5	0	0	0	5	0
Salmon, Chinook	Upper Columbia River spring-run	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Juvenile	Listed Hatchery Adipose Clip	1800	36	115	0	1800	36
Salmon, Chinook	Upper Columbia River spring-run	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Juvenile	Listed Hatchery Intact Adipose	1800	36	131	0	1800	36
Salmon, Chinook	Upper Columbia River spring-run	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Juvenile	Natural	4000	80	372	0	4000	80
Salmon, sockeye	Snake River	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Juvenile	Natural	500	10	22	0	500	10
Sculpin (unknown)	NA	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Adult	Natural	200	5	210	0	200	5
Shad, American	NA	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Adult	Natural	100	50	19	0	100	50
Shad, American	NA	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Juvenile	Natural	400000	25000	63029	5348	400000	25000

Steelhead	Middle Columbia River	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Juvenile	Natural	6000	120	722	1	6000	120
Steelhead	Snake River Basin	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Juvenile	Listed Hatchery Adipose Clip	2000	30	1060	2	2000	30
Steelhead	Snake River Basin	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Juvenile	Listed Hatchery Intact Adipose	1500	30	135	0	1500	30
Steelhead	Snake River Basin	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Juvenile	Natural	3000	60	210	0	1500	30
Steelhead	Unspecified	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Adult	Natural	10	0	0	0	10	0
Steelhead	Unspecified	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Adult	Unlisted Hatchery	5	0	0	0	5	0
Steelhead	Upper Columbia River	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Juvenile	Listed Hatchery Adipose Clip	4000	80	634	1	4000	80
Steelhead	Upper Columbia River	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Juvenile	Listed Hatchery Intact Adipose	2000	40	216	0	2000	40
Steelhead	Upper Columbia River	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Juvenile	Natural	4500	90	97	0	4500	90
Stickleback, Threespine	NA	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Adult	Natural	100	2	2	0	100	2
Sucker (unknown)	NA	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Adult	Natural	50	1	38	0	50	1
Sucker, Bridgelip	NA	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Adult	Natural	50	0	0	0	50	0

Walleye	NA	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Adult	Natural	300	10	34	0	300	10
Whitefish, Mountain	NA	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Adult	Natural	150	5	23	0	150	5

Original Location: State/Territory: OR; Middle Columbia-Lake Wallula; Snake River (McNary Dam, Juvenile Bypass System, MCN)
Renewed Location: State/Territory: OR; Middle Columbia-Lake Wallula; Snake River (McNary Dam, Juvenile Bypass System, MCN)

Species	Listing Unit or Stock	Capture Method	Lifestage	Production or Origin	Previous Anticipated Take	Previous Indirect Mortality	Reported Actual Take	Reported Indirect Mortality	Current Anticipated Take	Current Indirect Mortality
Bass, Largemouth	NA	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Adult	Natural	10	0	2	0	10	0
Bass, Smallmouth	NA	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Adult	Natural	350	5	239	1	350	5
Bluegill	NA	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Adult	Natural	200	1	8	0	200	1
Bullhead (unknown)	NA	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Adult	Natural	25	1	9	1	25	1
Carp, Common	NA	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Adult	Natural	100	1	17	1	100	1
Catfish, Channel	NA	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Adult	Natural	20	10	9	0	20	10
Chub, Chiselmouth	NA	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Adult	Natural	5	0	0	0	5	0
Crappie, Black	NA	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Unknown	Natural	20	1	1	0	20	1

Dace, Longnose	NA	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Adult	Natural	100	1	6	0	100	1
Dace, Speckled	NA	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Adult	Natural	5	1	0	0	5	1
Killfish, Banded	NA	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Adult	Natural	100	3	7	0	100	3
Kokanee	NA	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Adult	Natural	10	0	0	0	10	0
Lamprey, Pacific	NA	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Adult	Natural	50	1	6	0	50	1
Lamprey, Pacific	NA	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Juvenile	Natural	5000	100	2675	35	5000	100
Lamprey, Pacific	NA	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Larvae	Natural	100	1	2	0	100	1
Mixed invertebrate	NA	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Adult	N/A	200	20	11	1	200	20
Peamouth	NA	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Adult	Natural	1000	1	0	0	1000	1
Perch, Yellow	NA	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Adult	Natural	50	5	6	1	50	5
Pikeminnow, Northern	NA	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Adult	Natural	5	0	0	0	5	0
Salmon, Chinook	Snake River fall-run	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Juvenile	Listed Hatchery Adipose Clip	3000	60	65	0	3000	60

Salmon, Chinook	Snake River fall-run	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Juvenile	Listed Hatchery Intact Adipose	2000	40	28	0	2000	40
Salmon, Chinook	Snake River fall-run	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Juvenile	Natural	500	10	65	0	250	10
Salmon, Chinook	Snake River spring/summer-run	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Juvenile	Listed Hatchery Adipose Clip	2000	40	324	1	2000	40
Salmon, Chinook	Snake River spring/summer-run	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Juvenile	Listed Hatchery Intact Adipose	1000	20	104	0	1000	20
Salmon, Chinook	Snake River spring/summer-run	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Juvenile	Natural	1100	22	309	2	880	20
Salmon, Chinook	Unspecified	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Subadult	Natural	5	0	0	0	5	0
Salmon, Chinook	Unspecified	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Subadult	Unlisted Hatchery	10	0	0	0	10	0
Salmon, Chinook	Upper Columbia River spring-run	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Juvenile	Listed Hatchery Adipose Clip	2000	40	96	0	2000	40
Salmon, Chinook	Upper Columbia River spring-run	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Juvenile	Listed Hatchery Intact Adipose	2000	40	106	0	2000	40
Salmon, Chinook	Upper Columbia River spring-run	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Juvenile	Natural	3320	66	302	1	3320	66
Salmon, sockeye	NA	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Adult	Natural	1	0	0	0	1	0
Salmon, sockeye	Snake River	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Juvenile	Natural	500	10	17	0	500	10

Sandroller	NA	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Adult	Natural	5	0	0	0	5	0
Sculpin (unknown)	NA	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Adult	Natural	10	1	4	0	10	1
Shad, American	NA	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Adult	Natural	50	5	15	6	50	10
Shad, American	NA	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Juvenile	Natural	400000	10000	526392	13568	500000	10000
Shiner, Redside	NA	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Adult	Natural	5	0	0	0	5	0
Steelhead	Middle Columbia River	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Juvenile	Natural	1000	20	187	0	1000	20
Steelhead	Snake River Basin	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Juvenile	Listed Hatchery Adipose Clip	1000	20	810	3	1000	20
Steelhead	Snake River Basin	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Juvenile	Listed Hatchery Intact Adipose	500	10	66	0	500	10
Steelhead	Snake River Basin	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Juvenile	Natural	1000	20	99	0	500	10
Steelhead	Unspecified	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Adult	Natural	5	0	0	0	5	0
Steelhead	Unspecified	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Adult	Unlisted Hatchery	5	0	0	0	5	0
Steelhead	Upper Columbia River	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Juvenile	Listed Hatchery Adipose Clip	3000	60	485	2	3000	60

Steelhead	Upper Columbia River	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Juvenile	Listed Hatchery Intact Adipose	1000	20	105	0	1000	20
Steelhead	Upper Columbia River	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Juvenile	Natural	1000	20	46	0	1000	20
Stickleback, Threespine	NA	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Adult	Natural	300	20	13	0	300	20
Sucker (unknown)	NA	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Adult	Natural	15	1	6	0	15	1
Tench	NA	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Adult	Natural	5	0	0	0	5	0
Unknown fish	NA	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Unknown	Natural	20	0	12	1	20	0
Walleye	NA	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Adult	Natural	20	0	5	0	20	0
Walleye	NA	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Unknown	Natural	10	1	0	0		
Whitefish, Mountain	NA	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Adult	Natural	100	1	9	0	100	1

Original Location: State/Territory: WA; Lower Snake River; Snake River (Lower Monumental Dam, Juvenile Bypass System, LMN)
Renewed Location: State/Territory: WA; Lower Snake River; Snake River (Lower Monumental Dam, Juvenile Bypass System, LMN)

Species	Listing Unit or Stock	Capture Method	Lifestage	Production or Origin	Previous Anticipated Take	Previous Indirect Mortality	Reported Actual Take	Reported Indirect Mortality	Current Anticipated Take	Current Indirect Mortality
Salmon, Chinook	Snake River fall-run	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Juvenile	Listed Hatchery Adipose Clip	9000	200	4801	14	8000	200
Salmon, Chinook	Snake River fall-run	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Juvenile	Listed Hatchery Intact Adipose	16000	300	2659	10	16000	300

Salmon, Chinook	Snake River fall-run	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Juvenile	Natural	10000	200	6207	22	7500	100
Salmon, Chinook	Snake River spring/summer-run	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Juvenile	Listed Hatchery Adipose Clip	2000	40	708	1	2000	40
Salmon, Chinook	Snake River spring/summer-run	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Juvenile	Listed Hatchery Intact Adipose	2000	40	324	1	2000	40
Salmon, Chinook	Snake River spring/summer-run	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Juvenile	Natural	6000	120	1377	3	4800	100
Salmon, sockeye	Snake River	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Juvenile	Natural	1500	30	290	0	1500	30
Steelhead	Snake River Basin	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Juvenile	Listed Hatchery Adipose Clip	3000	50	3941	5	3500	50
Steelhead	Snake River Basin	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Juvenile	Listed Hatchery Intact Adipose	1000	20	600	1	1000	20
Steelhead	Snake River Basin	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Juvenile	Natural	2500	50	879	1	1250	25

Original Location: State/Territory: WA; Lower Snake-Tucannon; Snake River (Little Goose Dam, Juvenile Bypass System, LGS)
Renewed Location: State/Territory: WA; Lower Snake-Tucannon; Snake River (Little Goose Dam, Juvenile Bypass System, LGS)

Species	Listing Unit or Stock	Capture Method	Lifestage	Production or Origin	Previous Anticipated Take	Previous Indirect Mortality	Reported Actual Take	Reported Indirect Mortality	Current Anticipated Take	Current Indirect Mortality
Salmon, Chinook	Snake River fall-run	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Juvenile	Listed Hatchery Adipose Clip	10000	200	10714	41	11000	200
Salmon, Chinook	Snake River fall-run	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Juvenile	Listed Hatchery Intact Adipose	40000	800	8703	67	40000	800
Salmon, Chinook	Snake River fall-run	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Juvenile	Natural	30000	400	19535	151	20000	200
Salmon, Chinook	Snake River spring/summer-run	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Juvenile	Listed Hatchery Adipose Clip	4000	80	1631	7	4000	80
Salmon, Chinook	Snake River spring/summer-run	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Juvenile	Listed Hatchery Intact Adipose	2000	40	230	2	2000	40
Salmon, Chinook	Snake River spring/summer-run	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Juvenile	Natural	7000	140	1136	5	5600	110
Salmon, sockeye	Snake River	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Juvenile	Natural	3300	66	439	8	3300	66

Steelhead	Snake River Basin	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Juvenile	Listed Hatchery Adipose Clip	6000	100	3497	3	6000	100
Steelhead	Snake River Basin	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Juvenile	Listed Hatchery Intact Adipose	1500	50	518	1	1500	50
Steelhead	Snake River Basin	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Juvenile	Natural	4000	80	925	2	2000	40

Original Location: State/Territory: WA; Lower Snake-Tucannon; Snake River (Lower Granite Dam, Juvenile Bypass System, LGR)
Renewed Location: State/Territory: WA; Lower Snake-Tucannon; Snake River (Lower Granite Dam, Juvenile Bypass System, LGR)

Species	Listing Unit or Stock	Capture Method	Lifestage	Production or Origin	Previous Anticipated Take	Previous Indirect Mortality	Reported Actual Take	Reported Indirect Mortality	Current Anticipated Take	Current Indirect Mortality
Salmon, Chinook	Snake River fall-run	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Juvenile	Listed Hatchery Adipose Clip	10000	200	8356	44	10000	200
Salmon, Chinook	Snake River fall-run	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Juvenile	Listed Hatchery Intact Adipose	40000	800	7480	54	40000	800
Salmon, Chinook	Snake River fall-run	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Juvenile	Natural	30000	500	16790	122	20000	250
Salmon, Chinook	Snake River spring/summer-run	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Juvenile	Listed Hatchery Adipose Clip	6000	80	2595	7	6000	80
Salmon, Chinook	Snake River spring/summer-run	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Juvenile	Listed Hatchery Intact Adipose	2000	40	481	2	2000	40
Salmon, Chinook	Snake River spring/summer-run	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Juvenile	Natural	9000	180	2316	11	7200	140
Salmon, sockeye	Snake River	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Juvenile	Natural	4500	90	344	3	4500	90
Steelhead	Snake River Basin	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Juvenile	Listed Hatchery Adipose Clip	7500	150	6832	8	7500	150
Steelhead	Snake River Basin	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Juvenile	Listed Hatchery Intact Adipose	2500	50	888	2	2500	50
Steelhead	Snake River Basin	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Juvenile	Natural	5700	114	1569	3	3000	60

Original Location: State/Territory: WA; Middle Columbia-Hood; Middle Columbia River (Bonneville Dam Juvenile Bypass System, BON)
Renewed Location: State/Territory: WA; Middle Columbia-Hood; Middle Columbia River (Bonneville Dam Juvenile Bypass System, BON)

Species	Listing Unit or Stock	Capture Method	Lifestage	Production or Origin	Previous Anticipated Take	Previous Indirect Mortality	Reported Actual Take	Reported Indirect Mortality	Current Anticipated Take	Current Indirect Mortality
Salmon, Chinook	Lower Columbia River	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Juvenile	Natural	22800	456	6847	0	22800	456
Salmon, Chinook	Snake River fall-run	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Juvenile	Listed Hatchery Adipose Clip	2000	40	174	0	2000	40
Salmon, Chinook	Snake River fall-run	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Juvenile	Listed Hatchery Intact Adipose	1500	30	247	0	1500	30
Salmon, Chinook	Snake River fall-run	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Juvenile	Natural	1500	10	1093	0	1250	10
Salmon, Chinook	Snake River spring/summer-run	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Juvenile	Listed Hatchery Adipose Clip	700	10	408	1	700	10
Salmon, Chinook	Snake River spring/summer-run	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Juvenile	Listed Hatchery Intact Adipose	500	10	110	0	500	10
Salmon, Chinook	Snake River spring/summer-run	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Juvenile	Natural	800	16	287	2	640	12
Salmon, Chinook	Upper Columbia River spring-run	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Juvenile	Listed Hatchery Adipose Clip	1300	26	121	0	1300	26
Salmon, Chinook	Upper Columbia River spring-run	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Juvenile	Listed Hatchery Intact Adipose	700	14	113	0	700	14
Salmon, Chinook	Upper Columbia River spring-run	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Juvenile	Natural	1300	26	280	1	1300	26
Salmon, chum	Columbia River	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Juvenile	Natural	500	10	18	0	500	10
Salmon, coho	Lower Columbia River	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Juvenile	Natural	2000	40	55	1	2000	40
Salmon, sockeye	Snake River	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Juvenile	Natural	500	10	23	0	500	10
Steelhead	Lower Columbia River	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Juvenile	Natural	1000	20	68	0	1000	20
Steelhead	Middle Columbia River	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Juvenile	Natural	5000	100	610	1	5000	100
Steelhead	Snake River Basin	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Juvenile	Listed Hatchery Adipose Clip	800	8	460	1	800	8
Steelhead	Snake River Basin	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Juvenile	Listed Hatchery Intact Adipose	200	2	58	0	200	2

Steelhead	Snake River Basin	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Juvenile	Natural	500	10	91	0	250	5
Steelhead	Upper Columbia River	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Juvenile	Listed Hatchery Adipose Clip	1200	23	275	1	1200	23
Steelhead	Upper Columbia River	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Juvenile	Listed Hatchery Intact Adipose	300	7	93	0	300	7
Steelhead	Upper Columbia River	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Juvenile	Natural	1500	30	42	0	1500	30

Status

Application Status: Application Complete
Date Submitted: January 21, 2020
Date Completed: January 28, 2020
Last Date Archived: January 28, 2020

- **Determination of Take Authorization under a Biological Opinion**

  Current Status: Issued **Status Date:** January 28, 2020
  Expire Date: December 31, 2020

  Analyst Information:

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- **Oregon Scientific Taking Permit for Fish and Marine and Freshwater Invertebrates**

  Current Status: In Progress **Status Date:** January 28, 2020
  Expire Date:

Modification Requests

This section is currently empty.

Reports

Report Required

Nbr	Report Type	Report Period		Date Due	Status	Date Received
		Start Date	End Date			
1	Annual	01/25/2020	12/31/2020	01/30/2021	N/A	