



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 19, 2018

Michele DeHart
Fish Passage Center
847 NE 19th Avenue
Suite 250
Portland, Or 97213

RE: Determination of Take for Research Purposes (9-18-FPC47)

Dear Ms. 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 2018 under the 2014 FCRPS Supplemental Biological Opinion (2014 Opinion). If this research continues beyond 2018, the take allowed under the determination process must be updated annually. The estimated numbers of listed salmonids needed to complete this study in 2018 are given in the attached project summary.

Project Justification, Description, and Methods

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

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, 2008 Opinion – incorporated into the 2014 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 2014 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 2014 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 mortality 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 FCRPS Branch for this research during the 2018 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 Blane Bellerud as soon as possible of any deviation from the terms and conditions in this determination. Please include the study's official title and the number (from the subject line) of the current Take Determination Letter in all communications regarding this study. Please provide the FCRPS Branch's Take Determination Coordinator, Blane Bellerud (503-231-2238, Blane.Bellerud@noaa.gov), with the annual report for this research study. Initial take authorization was granted electronically Via NMFS Authorizations and Permits for Protected Species (APPS) system.

Sincerely,



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



NOAA FISHERIES
NATIONAL MARINE FISHERIES SERVICE



Authorizations and Permits for Protected Species (APPS)



File #: 21904
Title: Smolt Monitoring Program and Comparative Study

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: 21904
Project Number: FPC 47
Application Status: Application Complete
Project Title: Smolt Monitoring Program and Comparative Survival Study
Project Status: New
Previous Federal or State Permit: 21103
Permits Requested:

- Determination of Take Authorization under a Biological Opinion
- Oregon Scientific Taking Permit for Fish and Marine and Freshwater Invertebrates

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)
N/A

State department of fish and game/wildlife: N/A

Research Timeframe: Start: 01/26/2018 End: 12/31/2018

Sampling Seasons/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 is significant to several regional programs. Historical SMP data has 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 quality, 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) also annually, together with the CSS oversight committee, designs and oversees the implementation of the Comparative Survival Study. 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:

- 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 five traps and eight dams. Field work is carried out by various agencies, including the USFWS, WDFW, 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 in 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.

Lethal Take: Not Applicable

Anticipated Effects on Animals: The 2018 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 2017, and the anticipated project operations for 2018.

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 and to do this wet capture, anesthetic before handling, and recovery before release is emphasized. The FPC data entry program manual ([ftp://ftp.fpc.org/fpc32.net/Manuals/](http://ftp.fpc.org/fpc32.net/Manuals/)) 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
12/29/2017	Kyle Bratcher	The Wallowa District supports this project.
01/02/2018	Adam Storch	protocols, expected take and rates of incidental mortality seem reasonable for the OR locations. OSCRP supports the application. -copied from email by M.Weaver
01/03/2018	Rod French	The ODFW Mid-Columbia Fishery District continues to support the project. copied from email by M.Weaver
01/04/2018	Bill Duke	The Umatilla District supports continuation of this project.

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	3000	30	Capture/Handle/Release Fish	Trap, Incline Plane	Anesthetize	N/A	N/A	1/26/2018	12/31/2018

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	1/26/2018	12/31/2018
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	1/26/2018	12/31/2018
4	Salmon, Chinook	Snake River spring/summer-run (NMFS Threatened)	Natural	Juvenile	Male and Female	4300	66	Capture/Mark, Tag, Sample Tissue/Release Live Animal	Trap, Incline Plane	Tag, PIT	N/A	1/26/2018	12/31/2018
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	N/A	1/26/2018	12/31/2018
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	N/A	1/26/2018	12/31/2018
7	Salmon, Chinook	Snake River spring/summer-run (NMFS Threatened)	Natural	Juvenile	Male and Female	7000	140	Capture/Handle/Release Fish	Trap, Incline Plane	Anesthetize	N/A	1/26/2018	12/31/2018
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	N/A	1/26/2018	12/31/2018
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	N/A	1/26/2018	12/31/2018
10	Steelhead	Snake River Basin (NMFS Threatened)	Natural	Juvenile	Male and Female	3000	60	Capture/Handle/Release Fish	Trap, Incline Plane	Anesthetize	N/A	1/26/2018	12/31/2018
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	N/A	1/26/2018	12/31/2018

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	13000	220	Capture/Handle/Release Fish	Trap, Not listed here	Anesthetize	Spring/Summer	N/A	1/26/2018	12/31/2018
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	1/26/2018	12/31/2018
3		Salmon, Chinook	Snake River spring/summer-run (NMFS Threatened)	Listed Hatchery Adipose Clip	Juvenile	Male and Female	20000	400	Capture/Handle/Release Fish	Trap, Not listed here	Anesthetize	Spring/Summer	N/A	1/26/2018	12/31/2018
4		Steelhead	Snake River Basin (NMFS Threatened)	Natural	Juvenile	Male and Female	800	16	Capture/Handle/Release Fish	Trap, Not listed here	Anesthetize	Summer	N/A	1/26/2018	12/31/2018
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	1/26/2018	12/31/2018
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	1/26/2018	12/31/2018
7		Salmon, Chinook	Snake River fall-run (NMFS Threatened)	Natural	Juvenile	Male and Female	150	3	Capture/Handle/Release Fish	Trap, Not listed here	Anesthetize	N/A	N/A	1/26/2018	12/31/2018
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	1/26/2018	12/31/2018
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	1/26/2018	12/31/2018
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	1/26/2018	12/31/2018

Line	Species	Snake River spring/summer-run (NMFS Threatened)	Natural	Juvenile	Male and Female	8200	164	Capture/Mark, Tag, Sample Tissue/Release Live Animal	Trap, Not listed here	Tag, PIT	Spring/Summer	N/A	1/26/2018	12/31/2018
11	Salmon, Chinook	Snake River spring/summer-run (NMFS Threatened)	Natural	Juvenile	Male and Female	8200	164	Capture/Mark, Tag, Sample Tissue/Release Live Animal	Trap, Not listed here	Tag, PIT	Spring/Summer	N/A	1/26/2018	12/31/2018
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	1/26/2018	12/31/2018
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	1/26/2018	12/31/2018
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	1/26/2018	12/31/2018
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	1/26/2018	12/31/2018

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	6000	120	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	Spring/Summer	N/A	1/26/2018	12/31/2018
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	1/26/2018	12/31/2018

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	1/26/2018	12/31/2018
4	Steelhead	Snake River Basin (NMFS Threatened)	Natural	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	1/26/2018	12/31/2018
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	1/26/2018	12/31/2018
6	Steelhead	Snake River Basin (NMFS Threatened)	Listed Hatchery Adipose Clip	Juvenile	Male and Female	3000	50	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	Summer	N/A	1/26/2018	12/31/2018
7	Salmon, Chinook	Snake River fall-run (NMFS Threatened)	Natural	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	1/26/2018	12/31/2018
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	1/26/2018	12/31/2018

9	Salmon, Chinook	Snake River fall-run (NMFS Threatened)	Listed Hatchery Adipose Clip	Juvenile	Male and Female	9000	200	Capture/Handle/Release Fish	Dam bypass, gateway, orifice, etc. (only if associated with fish handling)	Anesthetize N/A	N/A	1/26/2018	12/31/2018
10	Salmon, sockeye	Snake River (NMFS Endangered)	Natural	Juvenile	Male and Female	1500	30	Capture/Handle/Release Fish	Dam bypass, gateway, orifice, etc. (only if associated with fish handling)	Anesthetize N/A	N/A	1/26/2018	12/31/2018

Freshwater Location

Research Area: Pacific Ocean State: ID Sub Basin (4th Field HUC): Lower Snake-Asotin Stream Name: Snake River

Sal 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	5000	100	Capture/Handle/Release Fish	Trap, Not listed here	Anesthetize	Spring/Summer	N/A	1/26/2018	12/31/2018
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	1/26/2018	12/31/2018
3	Salmon, Chinook	Snake River spring/summer-run (NMFS Threatened)	Listed Hatchery Adipose Clip	Juvenile	Male and Female	5000	100	Capture/Handle/Release Fish	Trap, Not listed here	Anesthetize	Spring/Summer	N/A	1/26/2018	12/31/2018
4	Steelhead	Snake River Basin (NMFS Threatened)	Natural	Juvenile	Male and Female	3000	60	Capture/Handle/Release Fish	Trap, Not listed here	Anesthetize	Summer	N/A	1/26/2018	12/31/2018
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	1/26/2018	12/31/2018

	Steelhead	Snake River Basin (NMFS Threatened)	Listed Hatchery Adipose Clip	Juvenile	Male and Female	4000	80	Capture/Handle/Release Fish	Trap, Not listed here	Anesthetize	Summer	N/A	1/26/2018	12/31/2018
6	Salmon, Chinook	Snake River fall-run (NMFS Threatened)	Natural	Juvenile	Male and Female	3000	30	Capture/Handle/Release Fish	Trap, Not listed here	Anesthetize	N/A	N/A	1/26/2018	12/31/2018
7	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	1/26/2018	12/31/2018
8	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	1/26/2018	12/31/2018
9	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	1/26/2018	12/31/2018
10	Salmon, Chinook	Snake River spring/summer-run (NMFS Threatened)	Natural	Juvenile	Male and Female	4800	96	Capture/Mark, Tag, Sample Tissue/Release Live Animal	Trap, Not listed here	Tag, PIT	Spring/Summer	N/A	1/26/2018	12/31/2018
11	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	1/26/2018	12/31/2018
12	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	1/26/2018	12/31/2018
13	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	1/26/2018	12/31/2018
14	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	1/26/2018	12/31/2018

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	9000	180	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	Spring/Summer	N/A	1/26/2018	12/31/2018
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	1/26/2018	12/31/2018
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	1/26/2018	12/31/2018
4		Steelhead	Snake River Basin (NMFS Threatened)	Natural	Juvenile	Male and Female	5700	114	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	Summer	N/A	1/26/2018	12/31/2018
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	1/26/2018	12/31/2018
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	1/26/2018	12/31/2018

7	Salmon, Chinook	Snake River fall-run (NMFS Threatened)	Natural	Juvenile	Male and Female	30000	500	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	N/A	1/26/2018	12/31/2018
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	1/26/2018	12/31/2018
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	1/26/2018	12/31/2018
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	1/26/2018	12/31/2018

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

Take Information

1	Salmon, Chinook	Snake River spring/summer-run (NMFS Threatened)	Natural	Juvenile	Male and Female	7000	140	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	Spring/Summer	N/A	1/26/2018	12/31/2018
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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, gateway, orifice, etc. (only if associated with fish handling)	Anesthetize	Spring/Summer	N/A	1/26/2018	12/31/2018
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, gateway, orifice, etc. (only if associated with fish handling)	Anesthetize	Summer	N/A	1/26/2018	12/31/2018
4	Steelhead	Snake River Basin (NMFS Threatened)	Natural	Juvenile	Male and Female	4000	80	Capture/Handle/Release Fish	Dam bypass, gateway, orifice, etc. (only if associated with fish handling)	Anesthetize	Summer	N/A	1/26/2018	12/31/2018
5	Steelhead	Snake River Basin (NMFS Threatened)	Listed Hatchery Intact Adipose	Juvenile	Male and Female	1500	50	Capture/Handle/Release Fish	Dam bypass, gateway, orifice, etc. (only if associated with fish handling)	Anesthetize	Summer	N/A	1/26/2018	12/31/2018
6	Steelhead	Snake River Basin (NMFS Threatened)	Listed Hatchery Adipose Clip	Juvenile	Male and Female	6000	100	Capture/Handle/Release Fish	Dam bypass, gateway, orifice, etc. (only if associated with fish handling)	Anesthetize	Summer	N/A	1/26/2018	12/31/2018
7	Salmon, Chinook	Snake River fall-run (NMFS Threatened)	Natural	Juvenile	Male and Female	30000	400	Capture/Handle/Release Fish	Dam bypass, gateway, orifice, etc. (only if associated with fish handling)	Anesthetize	N/A	N/A	1/26/2018	12/31/2018

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	1/26/2018	12/31/2018
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	1/26/2018	12/31/2018
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	1/26/2018	12/31/2018

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	N/A	1/26/2018	12/31/2018
2		Bass, Smallmouth	NA	Natural	Adult	Unknown	400	2	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize N/A	N/A	N/A	1/26/2018	12/31/2018

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	1/26/2018	12/31/2018
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	1/26/2018	12/31/2018
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	1/26/2018	12/31/2018
6	Catfish, Channel	NA	Natural	Adult	Unknown	32	1	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	N/A	1/26/2018	12/31/2018
7	Crappie, Black	NA	Natural	Adult	Unknown	30	1	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	N/A	1/26/2018	12/31/2018

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	1/26/2018	12/31/2018
9	Kilifish, Banded	NA	Natural	Adult	Male and Female	10	1	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize N/A	N/A	1/26/2018	12/31/2018
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	1/26/2018	12/31/2018
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	1/26/2018	12/31/2018
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	1/26/2018	12/31/2018
13	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	1/26/2018	12/31/2018

14	Mixed invertebrate	NA		N/A	Adult	Unknown	10000	100	Unknown	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	N/A	N/A	1/26/2018	12/31/2018
15	Pearmouth	NA		Natural	Adult	Unknown	10	0	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	N/A	1/26/2018	12/31/2018
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	1/26/2018	12/31/2018
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	1/26/2018	12/31/2018
18	Salmon, Chinook	Snake River fall-run (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	1/26/2018	12/31/2018

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	1/26/2018	12/31/2018
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	1/26/2018	12/31/2018
21	Salmon, Chinook	Snake River spring/summer-run (NMFS Threatened)	Natural	Juvenile	Male and Female	1300	26	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize Spring/Summer N/A	N/A	1/26/2018	12/31/2018
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	N/A	1/26/2018	12/31/2018
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	1/26/2018	12/31/2018
24	Salmon, Chinook	Upper Columbia River spring-run (NMFS Threatened)	Natural	Juvenile	Male and Female	4000	80	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize Spring	N/A	1/26/2018	12/31/2018

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	1/26/2018	12/31/2018
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	1/26/2018	12/31/2018
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	1/26/2018	12/31/2018
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	1/26/2018	12/31/2018
29	Shad, American	NA	Natural	Juvenile	Unknown	400000	20000	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	N/A	N/A	1/26/2018	12/31/2018

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	1/26/2018	12/31/2018
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	1/26/2018	12/31/2018
32	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	1/26/2018	12/31/2018
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	1/26/2018	12/31/2018
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	1/26/2018	12/31/2018
35	Steelhead	Unspecified	Natural	Adult	Unknown	10	0	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated)	Anesthetize	Unknown	1/26/2018	12/31/2018

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	1/26/2018	12/31/2018
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	1/26/2018	12/31/2018
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	1/26/2018	12/31/2018
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	1/26/2018	12/31/2018
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	1/26/2018	12/31/2018

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	1/26/2018	12/31/2018
42	Sucker, Bridgelpip	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	1/26/2018	12/31/2018
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	1/26/2018	12/31/2018
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	1/26/2018	12/31/2018
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	1/26/2018	12/31/2018

Freshwater Location

Research Area: Pacific Ocean State: WA Sub Basin (4th Field HUC): Middle Columbia-Hood Stream Name: Middle Columbia River

State 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	800	16	Capture/Handle/Release Fish	Dam bypass, gateway, orifice, etc. (only if associated with fish handling)	Anesthetize	Spring/Summer	N/A	1/26/2018	12/31/2018
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, gateway, orifice, etc. (only if associated with fish handling)	Anesthetize	Spring/Summer	N/A	1/26/2018	12/31/2018
3	Salmon, Chinook	Snake River spring/summer-run (NMFS Threatened)	Listed Hatchery Adipose Clip	Juvenile	Male and Female	500	10	Capture/Handle/Release Fish	Dam bypass, gateway, orifice, etc. (only if associated with fish handling)	Anesthetize	Spring/Summer	N/A	1/26/2018	12/31/2018
4	Steelhead	Snake River Basin (NMFS Threatened)	Natural	Juvenile	Male and Female	500	10	Capture/Handle/Release Fish	Dam bypass, gateway, orifice, etc. (only if associated with fish handling)	Anesthetize	Summer	N/A	1/26/2018	12/31/2018
5	Steelhead	Snake River Basin (NMFS Threatened)	Listed Hatchery Intact Adipose	Juvenile	Male and Female	200	2	Capture/Handle/Release Fish	Dam bypass, gateway, orifice, etc. (only if associated with fish handling)	Anesthetize	Summer	N/A	1/26/2018	12/31/2018
6	Steelhead	Snake River Basin (NMFS Threatened)	Listed Hatchery Adipose Clip	Juvenile	Male and Female	800	8	Capture/Handle/Release Fish	Dam bypass, gateway, orifice, etc. (only if associated with fish handling)	Anesthetize	Summer	N/A	1/26/2018	12/31/2018

7	Salmon, Chinook	Snake River fall-run (NMFS Threatened)	Natural	Juvenile	Male and Female	1500	10	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize N/A	N/A	1/26/2018	12/31/2018
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	1/26/2018	12/31/2018
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	1/26/2018	12/31/2018
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	1/26/2018	12/31/2018
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	1/26/2018	12/31/2018
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	1/26/2018	12/31/2018

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, gateway, orifice, etc. (only if associated with fish handling)	Anesthetize N/A	N/A	1/26/2018	12/31/2018
14	Steelhead	Upper Columbia River (NMFS Threatened)	Natural	Juvenile	Male and Female	1500	30	Capture/Handle/Release Fish	Dam bypass, gateway, orifice, etc. (only if associated with fish handling)	Anesthetize Summer	N/A	1/26/2018	12/31/2018
15	Steelhead	Upper Columbia River (NMFS Threatened)	Listed Hatchery Intact Adipose	Juvenile	Male and Female	300	7	Capture/Handle/Release Fish	Dam bypass, gateway, orifice, etc. (only if associated with fish handling)	Anesthetize Summer	N/A	1/26/2018	12/31/2018
16	Steelhead	Upper Columbia River (NMFS Threatened)	Listed Hatchery Adipose Clip	Juvenile	Male and Female	1200	23	Capture/Handle/Release Fish	Dam bypass, gateway, orifice, etc. (only if associated with fish handling)	Anesthetize Summer	N/A	1/26/2018	12/31/2018
17	Steelhead	Middle Columbia River (NMFS Threatened)	Natural	Juvenile	Male and Female	5000	100	Capture/Handle/Release Fish	Dam bypass, gateway, orifice, etc. (only if associated with fish handling)	Anesthetize Mixed	N/A	1/26/2018	12/31/2018
18	Salmon, Chinook	Lower Columbia River (NMFS Threatened)	Natural	Juvenile	Male and Female	800	16	Capture/Handle/Release Fish	Dam bypass, gateway, orifice, etc. (only if associated with fish handling)	Anesthetize Fall	N/A	1/26/2018	12/31/2018

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	1/26/2018	12/31/2018
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	1/26/2018	12/31/2018
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	1/26/2018	12/31/2018
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	1/26/2018	12/31/2018

Freshwater Location
Research Area: Pacific Ocean State: OR Sub Basin (4th Field HUC): Middle Columbia-Lake Wallula Stream Name: Snake River
State 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	1100	22	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	Spring/Summer	N/A	1/26/2018	12/31/2018

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, gateway, orifice, etc. (only if associated with fish handling)	Anesthetize Spring/Summer	N/A	1/26/2018	12/31/2018
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, gateway, orifice, etc. (only if associated with fish handling)	Anesthetize Summer	N/A	1/26/2018	12/31/2018
4	Steelhead	Snake River Basin (NMFS Threatened)	Natural	Juvenile	Male and Female	1000	20	Capture/Handle/Release Fish	Dam bypass, gateway, orifice, etc. (only if associated with fish handling)	Anesthetize Summer	N/A	1/26/2018	12/31/2018
5	Steelhead	Snake River Basin (NMFS Threatened)	Listed Hatchery Intact Adipose	Juvenile	Male and Female	500	10	Capture/Handle/Release Fish	Dam bypass, gateway, orifice, etc. (only if associated with fish handling)	Anesthetize Summer	N/A	1/26/2018	12/31/2018
6	Steelhead	Snake River Basin (NMFS Threatened)	Listed Hatchery Adipose Clip	Juvenile	Male and Female	1000	20	Capture/Handle/Release Fish	Dam bypass, gateway, orifice, etc. (only if associated with fish handling)	Anesthetize Summer	N/A	1/26/2018	12/31/2018

7	Salmon, Chinook	Snake River fall-run (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	1/26/2018	12/31/2018
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	1/26/2018	12/31/2018
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	1/26/2018	12/31/2018
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	1/26/2018	12/31/2018
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	1/26/2018	12/31/2018
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 with fish handling)	Anesthetize Summer	N/A	1/26/2018	12/31/2018

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	1/26/2018	12/31/2018
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	1/26/2018	12/31/2018
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	1/26/2018	12/31/2018
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	1/26/2018	12/31/2018
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	1/26/2018	12/31/2018

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	1/26/2018	12/31/2018
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	1/26/2018	12/31/2018
20	Bullhead (unknown)	NA	Natural	Adult	Unknown	20	1	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	N/A	N/A	1/26/2018	12/31/2018
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	1/26/2018	12/31/2018
22	Bass, Smallmouth	NA	Natural	Adult	Unknown	350	1	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	N/A	N/A	1/26/2018	12/31/2018
23	Catfish, Channel	NA	Natural	Adult	Unknown	20	5	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	N/A	N/A	1/26/2018	12/31/2018

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	1/26/2018	12/31/2018
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	1/26/2018	12/31/2018
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	1/26/2018	12/31/2018
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	1/26/2018	12/31/2018
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	1/26/2018	12/31/2018

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	1/26/2018	12/31/2018
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	1/26/2018	12/31/2018
31	Perch, Yellow	NA	Natural	Adult	Unknown	50	1	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	N/A	1/26/2018	12/31/2018
32	Pearmouth	NA	Natural	Adult	Unknown	1000	1	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	N/A	1/26/2018	12/31/2018
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	1/26/2018	12/31/2018
34	Shad, American	NA	Natural	Juvenile	Unknown	400000	6000	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	N/A	1/26/2018	12/31/2018

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	1/26/2018	12/31/2018
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	1/26/2018	12/31/2018
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	1/26/2018	12/31/2018
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	1/26/2018	12/31/2018
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	1/26/2018	12/31/2018

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	1/26/2018	12/31/2018
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	1/26/2018	12/31/2018
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	1/26/2018	12/31/2018
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	1/26/2018	12/31/2018
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	1/26/2018	12/31/2018
45	Kilifish, Banded	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	1/26/2018	12/31/2018

46	Shad, American	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	1/26/2018	12/31/2018
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	1/26/2018	12/31/2018
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	1/26/2018	12/31/2018
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	1/26/2018	12/31/2018
50	Walleye	NA	Natural	Unknown	Unknown	10	1	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize N/A	N/A	1/26/2018	12/31/2018

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	1/26/2018	12/31/2018
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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 and IDFG.

Attachments

- Certification of Identity** - P21904T11SignaturePage_21904.pdf (Added Dec 29, 2017)
- Contact** - Charles F. Morrill C197T5CMorrill_CV.doc (Added Oct 17, 2008)
- Contact** - Michele DeHart C2373T5Michele DeHart cv 2015.docx (Added Jan 20, 2015)
- Contact** - Rick Martinson C19383T5ResumeForRick2015.doc (Added Jan 8, 2016)
- Project Description** - P20128T109_16_FPC-47Finaldeterminationoflakeletterissued2216.pdf (Added Dec 21, 2017)

Status

Application Status: Application Complete
Date Submitted: December 29, 2017

Date Completed: January 9, 2018
Last Date Archived: January 9, 2018

• Determination of Take Authorization under a Biological Opinion

Current Status: In Progress Status Date: January 9, 2018
Expire Date:

• Oregon Scientific Taking Permit for Fish and Marine and Freshwater Invertebrates

Current Status: In Progress Status Date: January 9, 2018
Expire Date:

Analyst Information:

Blane Phone: (503)231-2238
Bellerud Email: blane.bellerud@noaa.gov

Modification Requests

This section is currently empty.

Reports

This section is currently empty.

