



Oregon

Kate Brown, Governor

Department of Fish and Wildlife

Fish Division

4034 Fairview Industrial Drive SE

Salem, OR 97302

(503) 947-6201

FAX (503) 947-6202

www.dfw.state.or.us/

2017 SCIENTIFIC TAKING PERMIT - FISH

Permit Holder: Kenneth Lujan

Permit Number: 20755



Permit Expiration Date: 12/31/17

Project Title: Renew: National Wild Fish Health Survey

Organization: United States Fish and Wildlife Service

Address: 201 Oklahoma Rd., Willard, WA 98605

Phone: (509)538-2400

Email: kenneth_lujan@fws.gov

Federal Authorization: **2017 NOAA 4d Authorization Letter dated 03/22/17, expires 12/31/17.**

Principal Investigator: Kenneth Lujan

Co-Investigator(s):

Nicklaus Kyle Ackerman	Co-Investigator	(503)630-8232	nick.ackerman@pgn.com
Jerri Bartholomew	Co-Investigator	(541)737-1856	Jerri.Bartholomew@oregonstate.edu
andrea bianco	Co-Investigator	(541)296-3023	andrea.e.bianco@state.or.us
Aaron Borisenko	Co-Investigator	(503)229-5161	Borisenko.Aaron@DEQ.state.or.us
William Brignon	Co-Investigator		
Larry Caton	Co-Investigator	(503)693-5726	larry.caton@state.or.us
Gregory Coffeen	Co-Investigator	(503)693-5725	coffeen.greg@deq.state.or.us
Kelly Dirksen	Co-Investigator	(503)879-2382	kelly.dirksen@grandronde.org
Mark Doulos	Co-Investigator	(509)493-1730	mark_doulos@fws.gov
Rodney Engle	Co-Investigator		
Derrek Marshall Faber	Co-Investigator	(541)490-2474	derrek.m.faber@state.or.us
Susan Guttenberger	Co-Investigator		
David Hand	Co-Investigator	(360)604-2518	david_hand@fws.gov
Chris Hankin	Co-Investigator	(509)493-1730	chris_hankin@fws.gov
Craig Andrew Haskell	Co-Investigator	(509)538-2299 Ext. 266	chaskell@usgs.gov
Jeff Hogle	Co-Investigator		
Shannon Hubler	Co-Investigator	(503)693-5728	hubler.shannon@deq.state.or.us
Robert Hughes	Co-Investigator	(541)754-4516	hughes.bob@amnisopes.com
Eric Johnson	Co-Investigator		ejohnson@uidaho.edu
Jeff Johnson	Co-Investigator	(360)604-2524	jeff_johnson@fws.gov
Steve Lee	Co-Investigator	(208)885-4225	slee@uidaho.edu
Matt Lubejko	Co-Investigator	(541)296-3023	matthew.v.lubejko@state.or.us
Rebecca Lyn McCoun	Co-Investigator	(503)879-2396	rebecca.mccoun@grandronde.org
Spencer Meinzer	Co-Investigator		
Michael Mulvey	Co-Investigator	(503)693-5732	mulvey.michael@deq.state.or.us
Sonia Mumford	Co-Investigator	(360)753-9046	sonia_mumford@fws.gov

Mary Peters	Co-Investigator		
Robert E Reagan	Co-Investigator	(541)296-8045 Ext. 33	robert.e.reagan@state.or.us
Leif Rinearson	Co-Investigator	(541)296-4628	leif.rinearson@gmail.com
Lawrence Schwabe	Co-Investigator	(503)879-2395	lawrence.shwabe@grandronde.org
Philip C Simpson	Co-Investigator	(541)296-8026	Philip.C.Simpson@state.or.us
shane smith	Co-Investigator	(541)296-3023 Ext. 220	shane.s.smith@state.or.us
Laura Sprague	Co-Investigator		laura_spague@fws.gov
Richard Wesley Stocking	Co-Investigator	(541)325-5343	Richard.W.Stocking@State.OR.US
David Thompson	Co-Investigator	(509)538-2400	david_thompson@fws.gov
Joe Warren	Co-Investigator	(509)538-2299 Ext. 244	jwarren@usgs.gov
Wayne Wilson	Co-Investigator		

PI Signature: _____ CI Signature(s): _____

Location(s):

Basin: Middle Columbia-Hood

Location: Columbia at Bonneville Dam / Bonneville Dam adult and juveniled facility

Basin: Clackamas

Location: Eagle Creek / Eagle Creek from the mouth up to the hatchery

Basin: Middle Columbia-Hood

Location: Fifteenmile Creek and tributaries / Fifteenmile Creek and tributaries

Basin: Lower Deschutes

Location: Warm Springs River / Confluence of the Warm Springs River and the Deschutes River upstream.

Location: Shitike Creek / Confluence of Shitike Creek and Deschutes River upstream

Basin: Lower Grande Ronde

Location: Grande Ronde River and Tribs / Will send a completed list of sites.

Basin: Upper Grande Ronde River

Location: Lookingglass Creek / Above Lookingglass Hatchery.

Basin: Clackamas

Location: Clear Creek / Clear Creek, a tributary of the Clackamas River

Basin: Lower Deschutes

Location: Deschutes River / Deschutes River mainstem

Location: Trout Creek / Trout Creek is a tributary of the Deschutes River

Basin: Clackamas

Location: Clackamas River / Upper Clackamas River

Basin: Lower Columbia-Sandy

Location: Cedar Creek / Upstream of the Sandy Hatchery.

Basin: Umatilla

Location: Umatilla River / Upper Umatilla River

Basin: Lower Deschutes

Location: Bakeoven Creek / Bakeoven Creek is a tributary of the Deschutes River

Location: Buck Hollow Creek / Buck Hollow Creek is a tributary of the Deschutes River

Basin: Wallowa River

Location: Wallawa River / Above Wallowa Fish Hatchery (Deer Creek, Little Sheep Creek)

Basin: Walla Walla

Location: South Fork Walla Walla River / Upstream of the adult facility

Basin: Warner Lakes

Location: Twentymile Creek / Twentymile Creek sub-basin.

Location: Deep Creek / Deep Creek sub-basin.

Location: Honey Creek / Honey Creek sub-basin.

Basin: Middle Columbia-Hood

Location: Hood River / Mainstem Hood River

Location: West Fork Hood River / Tributary to the mainstem of the Hood River. Upstream of the Moving Falls Hatchery location.

Location: Middle Fork Hood River / Middle Fork of the Hood River and its tributaries.

Location: East Fork Hood River / East Fork of the Hood River.

Basin: Middle Columbia-Lake Wallula

Location: Columbia River / John Day Dam

Basin: North Santiam

Location: Horn Creek / Upstream of Marion Forks Hatchery

Location: Marion Creek / Upstream of Marion Forks Hatchery

CONDITIONS AND AUTHORIZATION OF THIS PERMIT:

1. The Permit Holder, Principal Investigator, Co-Investigator, and all people working under their supervision shall at all times observe and comply with all federal and state laws, including the Endangered Species Act of 1973, as amended, and lawful regulations issued thereunder, which relate to threatened or endangered plant or animal species while performing activities described in the permit application. ODFW's approval of this permit does not certify that Permittee's activities described in its application are lawful under the federal ESA. Permittee's compliance with permit conditions is not in lieu of compliance with any federal requirements related to the federal Endangered Species Act. General conditions of Oregon Revised Statutes and Oregon Administrative Rules apply to this permit that cannot be used in lieu of any permit required by federal law or regulation. Permission to sample in areas where federally protected fish may occur is contingent upon the permittee obtaining necessary authorization from the appropriate federal agency and acting in accordance with the conditions established by the federal government. If a condition on this permit conflicts with a condition on a federal permit or authorization, then the permittee must comply with the more restrictive condition.
2. This permit is not transferable and must be carried while collecting. The Principal Investigator and all Co-Investigators must sign their own copy of the permit.

3. Persons not named on the permit may assist in collecting only while accompanied by the Principal Investigator or Co-investigator(s) listed above.
4. Access to private property is contingent on landowner permission. This permit does not authorize trespassing.
5. This permit is not valid in any refuge, park, city, wildlife area, or area closed to collection without written approval of manager or administrator. When collecting from state parks, please contact Oregon Parks and Recreation Department to inquire about the need for a scientific research collection permit from them - <http://www.oregon.gov/oprd/NATRES/Pages/permitting.aspx>
6. Sampling must be coordinated with local District Biologists of the Oregon Department of Fish and Wildlife and officials of the Oregon State Police and they must be notified prior to sampling.
7. An annual activity/collection report associated with this permit must be submitted to ODFW by December 31, 2017 via <https://apps.nmfs.noaa.gov/>. Renewal of this permit will not be issued until ODFW reviews and approves the annual activity/collection report. All fish, crayfish, and mussel take must be recorded in the annual report. Take is defined as harass, harm, pursue, hunt, shoot, wound, kill, trap, control, capture, or collect, or to attempt to engage in any such conduct.
8. May only conduct research and monitoring activities via methods as described in the attached APPS permit. Actual distribution of take among sites is authorized as described in the APPS permit application. All numbers of fish authorized in this permit and the attached APPS permit take table are annual totals.
9. Indirect mortality may not exceed 3% (electrofishing) or 1% (other methods). Mortality rates are calculated as a percentage of total catch, not to exceed the number as described in the take tables in the permit application. In the event that mortality for any species exceeds this rate, the permittee should contact ODFW ESA staff, (503-947-6254 or 541-440-3353 x263) prior to any further activity.
10. If electrofishing, protocols must follow the guidelines established by the National Marine Fisheries Service (NMFS) in June 2000, including no shocking if water temperatures exceed 64.4°F. http://www.westcoast.fisheries.noaa.gov/publications/reference_documents/esa_refs/section4d/electro2000.pdf
11. If the water temperature exceeds 70°F at the capture site, all capturing and handling must stop in stream habitats that contain any salmon, steelhead, trout, or lamprey species.
12. Follow FDA approved protocols and use only FDA approved substances for anesthetizing fish.
 - a) **MS-222** may not be used where fish may be subject to sport harvest fisheries within 21 days;
 - b) **Clove oil** may not be used at all;
 - c) **AQUI-S®** may be used as an alternative to MS-222. To use AQUI-S® 20E as an immediate release sedative in freshwater fish for field-based activities, permit holder must sign up to participate in USFWS-AADAP INAD 11-741 and must comply with the requirements as set forth in the INAD Study Protocol for AQUI-S® 20E (for more information go to www.fws.gov/fisheries/aadap).
 - d) **Carbon dioxide** can be used as a fish anesthetic as per FDA rules and requires no withdrawal time;
 - e) **Electro-anesthesia** can be used as a fish anesthetic as an alternative to chemicals, and requires no withdrawal time.
13. If sampling in multiple sub-basins (4th field HUCs), we recommend that after each sampling event concludes all gear is cleaned and/or allowed to completely dry to prevent the spread of invasive species.
14. If you approach your permitted take or percent indirect mortality at a location and still have sampling to conduct, or would like to revise your sampling methods or procedures; please contact the ODFW ESA staff as soon as possible to request a permit modification so that you can continue your project.

ISSUED BY: _____



DATE: 4/18/17

Holly Huchko
Endangered Species Act Specialist
541-464-2185

Distribution: Lujan-FWS; Fish Research, Bratcher, Bailey, Alsbury, French, Miles, Duke, Walczak, Farrand, Yanke, Seals, Tinniswood, Kelley -ODFW

OREGON FISH BIOLOGISTS CONTACT DETAILS updated 12.21.16

ODFW District Biologist	Phone	E-mail	Watershed District	Office
Todd Alsbury	(971) 673-6011	Todd.Alsbury@state.or.us	North Willamette-Cascade Unit	Clackamas
Ben Walczak*	(971) 673-6013	Ben.Walczak@state.or.us	North Willamette-Cascade Unit	Clackamas
Tom Murtagh	(971) 673-6044	Tom.Murtagh@state.or.us	North Willamette-Coast Range	Clackamas
Josie Thompson*	(971)673-2040	Josie.E.Thompson@state.or.us	North Willamette-Coast Range	Clackamas
Tim Bailey	(541) 962-1829	Timothy.D.Bailey@state.or.us	Grande Ronde	LaGrande
Tucker Jones	(971) 673-6067	Tucker.A.Jones@state.or.us	Mainstem Columbia	Clackamas
John Spangler	(541) 265-8306 ext. 224	John.J.Spangler@state.or.us	Mid Coast	Newport
Jitesh Pattni*	(541) 265-8306 ext. 236	Jitesh.A.Pattni@state.or.us	Mid Coast	Newport
Todd Confer	(541) 247-7605	Todd.A.Confer@state.or.us	Rogue	Gold Beach
Steve Mazur*	(541)-247-7605	Steve.J.Mazur@state.or.us	Rogue	Gold Beach
Bill Duke	(541) 276-2344	William.B.Duke@state.or.us	Umatilla	Pendleton
Rod French	(541) 296-4628	Rod.A.French@state.or.us	Mid Columbia	The Dalles
Jason Seals*	(541)-296-4628	Jason.T.Seals@state.or.us	Mid-Columbia	The Dalles
Mike Gray	(541) 888-5515	Michael.E.Gray@state.or.us	Coos-Coquille	Charleston
Gary Vonderohe*	(541)-888-5515	Gary.R.Vonderohe@state.or.us	Coos-Coquille	Charleston
Brett Hodgson	(541) 388-6363 ext. 227	Brett.L.Hodgson@state.or.us	Deschutes	Bend
Erik Moberly*	(541)-447-5111 ext 24	Erik.R.Moberly@state.or.us	Deschutes	Bend
Tim Porter*	(541) 447-5111	Timothy.K.Porter@state.or.us	Deschutes	Prineville
Greg Huchko	(541) 440-3353 ext. 249	Greg.F.Huchko@state.or.us	Umpqua	Roseburg
Jason Brandt*	(541)-440-3353 ext.226	Jason.R.Brandt@state.or.us	Umpqua	Roseburg
Robert Bradley	(503) 842-2741	Robert.Bradley@state.or.us	North Coast	Tillamook
Mike Sinnott*	(503) 842-2741	Michael.Sinnott@dfw.state.or.us	North Coast	Tillamook
Elise Kelley	(541) 757-5249	Elise.X.Kelley@state.or.us	South Willamette	Corvallis

Alex Farrand*	(541) 757-5239	Alex.Farrand@state.or.us	South Willamette	Corvallis
Trevor Watson	(541) 575-1167	Trevor.M.Watson@state.or.us	John Day	John Day
Brent Smith*	(541) 575-1167	Brentton.A.Smith@state.or.us	John Day	John Day
Dave Banks	(541) 573-6582	David.T.Banks@state.or.us	Malheur	Hines
Ben Ramirez*	(541) 889-6975 ext. 25	Benji.S.Ramirez@state.or.us	Malheur	Ontario
Jeff Yanke	(541) 426-3279	Jeff.Yanke@state.or.us	Grande Ronde	Enterprise
Kyle Bratcher*	(541) 426-3279	Kyle.W.Bratcher@state.or.us	Grande Ronde	Enterprise
Vacant	(541) 883-5732	Vacant	Klamath	Klamath Falls
Bill Tinniswood*	(541) 883-5732	William.R.Tinniswood@state.or.us	Klamath	Klamath Falls
Justin Miles*	(541) 947-2950	Justin.P.Miles@dfw.state.or.us	Klamath	Lakeview
Dan Van Dyke	(541) 826-8774 ext. 234	Daniel.J.VanDyke@state.or.us	Rogue	Central Point
Pete Samarin*	(541) 826-8774	Peter.A.Samarin@state.or.us	Rogue	Central Point
Jeff Ziller	(541) 726-3515 ext. 26	Jeffrey.S.Ziller@state.or.us	South Willamette	Springfield
Kelly Reis*	(541) 726-3515	Kelly.E.Reis@state.or.us	South Willamette	Springfield
Scott Groth	(541) 888-5515	Scott.D.Groth@state.or.us	Marine Invertebrates	Charleston
Ali Whitman	(541) 867-4741 ext. 284	Alison.D.Whitman@state.or.us	Marine Zone	Newport
Christian Heath	(541) 867-0300 ext. 266	Christian.T.Heath@state.or.us	Marine Fish	Newport

* = Assistant District Biologist

2017 Terms and Conditions for 4(d) Authorized Take

1. Each Researcher must ensure that the listed species are taken only at the levels, by the means, in the areas, and for the purposes set forth in the Programs and conditions in this letter.
2. Each Researcher must not intentionally kill or cause to be killed any listed species—unless their particular project in the Program approved under the 4(d) rules specifically includes intentional lethal take.
3. Each Researcher must handle listed fish with extreme care and keep them in cold water to the maximum extent possible during sampling and processing procedures. When fish are transferred or held, a healthy environment must be provided—e.g., the holding units must contain adequate amounts of well-circulated water. When gear is used that captures a mix of species, listed fish must be processed first to minimize handling stress.
4. Each researcher must stop all handling of listed fish if the water temperature exceeds 70 degrees Fahrenheit (21°C) at the capture site. Under these conditions, listed fish may only be identified and counted. In addition, electrofishing is not permitted if water temperatures exceed 64 degrees Fahrenheit (18°C).
5. If the Researcher must anesthetize listed fish to keep from injuring or killing them while they are handled, the fish must be allowed to recover before being released. Fish that are only counted must remain in water and not be anesthetized.
6. Researchers marking fish with PIT tags must follow the protocols described in the 2014 PIT Tag Marking Procedures Manual, Version 3.0, prepared by the PIT tag Steering Committee. A copy of the manual can be downloaded at <http://www.ptagis.org/resources/document-library>. Unless an exception is described in the permit and approved by both NMFS and ODFW, the minimum size of fish to be PIT tagged using 12mm tags is 65mm FL.
7. If the Researcher incidentally captures any listed adult fish while sampling for juveniles, the adult fish must be released without further handling and such take must be reported.
8. Each Researcher must exercise due caution during spawning ground surveys to avoid disturbing listed adult salmonids when they are spawning. Researchers must also avoid walking in salmon streams whenever possible—especially where listed salmonids are likely to spawn. Visual observation must be used instead of intrusive sampling methods, especially when just determining anadromous fish presence.
9. Any Researcher using backpack electrofishing equipment must comply with NMFS' Backpack Electrofishing Guidelines (June 2000) available online at http://www.westcoast.fisheries.noaa.gov/publications/reference_documents/esa_refs/section4d/electro2000.pdf. No boat electrofishing is approved under the 4(d) rules.
10. If any Researcher violates the stated terms and conditions they will be subject to any and all penalties provided by the ESA. NMFS may revoke this approval if the Projects it authorizes are not conducted in accordance with the approval, the 4(d) rule, and the requirements of the ESA or if NMFS determines that the findings made under section 4(d) of the ESA are no longer valid.
11. NMFS Northwest Region may amend the provisions of this approval after giving the Researcher reasonable notice of the amendment.
12. Each Researcher must possess a copy of NMFS' determination letter, these terms and conditions, and their project description (copy of submitted application) when engaging in their project activities.
13. The Researcher may not transfer or assign this approval to any other person as defined in Section 3(12) of the ESA. This approval ceases to be in effect if transferred or assigned to any other person without proper authorization from NMFS.

14. Each Researcher must obtain all other Federal, state, and local permits/authorizations necessary for conducting the approved projects.

15. Each Researcher must allow any NMFS employee or representative to accompany field personnel while they conduct the activities authorized. The Researchers must also allow such NMFS representatives to inspect any records or facilities relevant to the activities covered by the approval.

16. Each Researcher must obtain approval from NMFS before changing sampling locations or research protocols.

17. Each Researcher must notify NMFS as soon as possible but no later than two days after any authorized level of take is exceeded or if such an event is likely. Researchers must submit a written report detailing why the authorized take level was exceeded or is likely to be exceeded.

18. On or before January 31 of 2018, ODFW and authorized researchers must submit to NMFS an annual report of projects conducted under their Program. The report must be submitted on line using the NMFS' research permit website. Approval for subsequent years' research activities will be contingent upon NMFS' acceptance of this report. Falsifying annual reports or records related to the research is a violation of this approval.

19. Each Researcher is responsible for any biological samples collected from listed species as long as they are used for research purposes. The Researcher may not transfer biological samples to anyone not listed in their application without prior written approval from NMFS.

Project-Specific Terms and Conditions

1. Listed species under the jurisdiction of the U.S. Fish & Wildlife Service (USFWS)

Researchers are required to contact the USFWS regarding listed species under their jurisdiction that may be taken during this research. ODFW staff are authorized through ODFW's Cooperative Agreement under ESA Section 6(c)(1).

2. Surrogate Hatchery Fish: Hatchery fish shall be used as test animals whenever possible as surrogates for listed fish. In particular, projects associated with documenting the effects of hydropower facilities on fish survival and/or passage shall explore using hatchery fish as test animals, and the project leaders must notify NMFS of their plans.



Authorizations and Permits for Protected Species (APPS)

File #: 20755

Title: Renew: National Wild Fish Health Survey

Applicant Information

Name: Kenneth Lujan
Title: Microbiologist
Affiliation: United States Fish and Wildlife Service
Address: 201 Oklahoma Rd.
City,State,Zip: Willard, WA 98605
Phone Number: (509)538-2400
Fax Number: (509)538-2404
Email: kenneth_lujan@fws.gov

Project Information

File Number: 20755
Application Status: **Application Complete - Issued**
Project Title: Renew: National Wild Fish Health Survey
Project Status: Renewal
Previous Federal or State Permit: [19857](#)
Permits Requested:

- State 4(d) coverage
- Oregon Scientific Taking Permit for Fish and Marine and Freshwater Invertebrates

Where will activities occur? Oregon (including Columbia River and offshore waters)
State department of fish and game/wildlife: N/A

Research Timeframe: Start: 04/10/2017 End: 12/31/2017

Sampling Season/Project Duration: The wild fish survey started in 1997 but collected listed fish since 2002. Project duration could be up to ten years or more, depending on funding.

Project Type: Monitoring

Project Description

Purpose: The purpose of the National Wild Fish Health Survey is to determine the distribution of specific pathogens in wild fish populations.

Description: The Fish and Wildlife Service requested and received a \$1 million annual increase in appropriations for fish disease work. Six hundred thousand dollars was used to initiate a National Wild Fish Health Survey (Survey) under the leadership of Service Regional Fish Health Centers (Centers), and in cooperation with stakeholders such as states, Tribes, and the aquaculture industry. This project incorporates standardized diagnostic and data management methods to ensure national comparability, identifies target pathogens, fish species, and habitats for survey, and is developing a systematic and interagency approach to fish health management of important watersheds. The Lower Columbia River Fish Health Center (USFWS) has been working cooperatively with ODFW since 2002 to look at the health of fish populations in the Clackamas River Basin. In the winter 2001, a private rainbow trout hatchery on Clear Creek, a tributary of the Clackamas River, tested positive for *Myxobolus cerebralis* spores, the causative agent for Whirling Disease. This is a major pathogen of concern and has not been previously found in this watershed. ODFW did not know if fish escaped from the hatchery or if the spores spread to wild fish populations. Because of this, ODFW began collecting salmonids with rotary screw traps and asked if the Lower Columbia River Fish Health Center could examine the fish for fish pathogens, primarily *Myxobolus cerebralis*. To date, the samples have all tested negative but we will continue to look for this pathogen and other fish pathogens in targeted basins.

In recent years, the Deschutes River has seen an increase in hatchery and wild steelhead straying from other basins. About 33% of these stray fish are infected with *Myxobolus cerebralis* spores. A majority of these fish are from NE Oregon's Snake River watershed and Idaho. In the Grande Ronde River basin, there are several tributaries that are positive for *Myxobolus cerebralis* spores. The spores infect the fish as juvenile smolts and the fish can carry the spores their whole life. After the fish dies, the spores will be released back into the water when the fish decomposes. To date, the Deschutes River does not have any wild populations of fish infected with *Myxobolus cerebralis*.

In addition, the Deschutes River has had high water temperatures which has led to fish health issues in returning adult salmon and native fish populations.

Beginning in 2013, the Lower Columbia River Fish Health Center will be working cooperatively with ODFW on the Hood River. Wild fish will be collected and examined for fish pathogens. The findings will be used as baseline data before a new hatchery on the West Fork Hood River is operational. This baseline information may help make management decisions in the Hood River sub-basin. Fish will also be collected from the West Fork Hood River, East Fork Hood River, and the mainstem Hood River. Most of the fish will be collected by rotary screw traps operated by ODFW. Fish will also be collected by backpack electrofishing upstream of the proposed hatchery site.

In the Hood River sub-basin, LCRFHC will work with ODFW's Philip Simpson - 4d permit # 17630. Determine wild steelhead (*Oncorhynchus mykiss*) and spring Chinook salmon (*Oncorhynchus tshawytscha*) production in the Hood River subbasin.

The LCRFHC is also working cooperatively with ODFW's Ian Tattam from the John Day River subbasin. Any mortalities from the rotary screw traps in the John Day River will be examined for fish pathogens.

The Lower Columbia River Fish Health Center will also work in cooperation with ODFW to monitor the water sources above some of the ODFW's fish hatcheries. Wild fish will be collected and examined for fish pathogens.

This includes: Wallowa Hatchery, Lookingglass Hatchery, Rock Creek Hatchery, Cascade Hatchery, Clackamas Hatchery, Leaburg Hatchery, McKenzie Hatchery, Sandy Hatchery, South Santiam Hatchery, Marion Forks Hatchery, and upstream of the adult facility in the South Fork Walla Walla River.

Spring Viremia of Carp (SVC) is an economically and ecologically important disease of farmed and wild carp and other cyprinid fish species caused by Rhabdovirus carpio. SVC disease (or infection with the viral pathogen, SVCV) is a condition that, when diagnosed or detected, is currently notifiable to the World Organization for Animal Health (OIE) on an immediate basis (within 24 hrs.) for first-time occurrences. In the US, the suspicion or confirmation of SVC, a designated foreign animal disease, or detection of SVCV entails notification to the United States Department of Agriculture (USDA). The first reported US case of SVC was in North Carolina ornamental koi in 2002, followed by a case in a wild cyprinid population in Wisconsin later that same year. Other outbreaks were reported in cultured carp species in Washington and Missouri in the summer of 2004. The USDA and the US Fish and Wildlife Service have entered into an agreement to perform SVCV surveillance on wild cyprinid populations in the waters of the US to determine the presence and distribution, if any, of this pathogen.

Supplemental Information

Methods:	The methods for the project are attached. The attached file is a pdf of the National Wild Fish Health Survey Laboratory Procedures Manual.
Lethal Take:	The samples have to be lethally taken in order to collect internal organs to test for specific fish pathogens. Fish designated for lethal take will always include any fish that appear to be stressed, appears likely to die, or are already dead at the time of capture. Fish that are sacrificed are placed in bags, kept on ice, and taken to the laboratory for testing.
Anticipated Effects on Animals:	After capture, fish will be held either in live-wells with aeration and flow through water, in mesh pens at the site of capture, in aerated buckets, or in the bag of the net before being processed. Specimens that are intentionally sacrificed, collected during field operations, are labeled and placed in a plastic bag, then brought to the Lower Columbia River Fish Health Center and immediately processed.
Measures to Minimize Effects:	We collect and handle fish in a manner to minimize stress and mortality following NMFS electrofishing guidelines. There is a one time pass with the electrofisher over a relatively short length of stream. No streams or stream segments are extensively electrofished.
Disposition of Tissues:	If I get any fish from the John Day river screw traps, they will be mortalities from the ODFW traps and reported on their permits, not here. The fish carcasses and fish tissues will be properly exposed of. They will be autoclaved and placed in the landfill.
Public Availability of Product/Publications:	The information collected with the National Wild Fish Health Survey will be available for the public to view on the internet. This information is available on the National Wild Fish Database at (http://www.fws.gov/wildfishsurvey).

Biologist Comments

Date	From	Comments
09/14/2016	Craig Banner	We would be interested in fish in Horn Creek and Marion Creek the water supply of Marion forks Hatchery. They are planning on unleashing adults there in the next few years. We will be doing some sampling there but the more information we get the better and you use a set of different tools than we do.
09/14/2016	Rick Stocking	Supports the project. Will let us know if they need assistance.

Line	Ver	Species	Listing Unit/Stock	Production /Origin	Life Stage	Sex	Expected Take	Indirect Mort	Take Action	/Collect Method	Procedure	Run	Transport Record	Begin Date	End Date
1		Dace, Longnose	NA	Natural	Unknown	Unknown	30	0	Capture/Handle/Release Fish	Electrofishing, Backpack		N/A	N/A	4/10/2017	12/31/2017
2		Dace, Longnose	NA	Natural	Unknown	Unknown	10	0	Intentional (Directed) Mortality	Electrofishing, Backpack	Tissue sample (other internal tissues)	N/A	N/A	4/10/2017	12/31/2017
3		Dace, Speckled	NA	Natural	Unknown	Unknown	30	0	Capture/Handle/Release Fish	Electrofishing, Backpack		N/A	N/A	4/10/2017	12/31/2017
4		Dace, Speckled	NA	Natural	Unknown	Unknown	10	0	Intentional (Directed) Mortality	Electrofishing, Backpack	Tissue sample (other internal tissues)	N/A	N/A	4/10/2017	12/31/2017
5		Lamprey, Pacific	NA	Natural	Juvenile	Unknown	60	0	Intentional (Directed) Mortality	Electrofishing, Backpack	Tissue sample (other internal tissues)	N/A	N/A	4/10/2017	12/31/2017
6		Lamprey, Pacific	NA	Natural	Juvenile	Unknown	60	0	Capture/Handle/Release Fish	Electrofishing, Backpack		N/A	N/A	4/10/2017	12/31/2017
7		Lamprey, Western brook	NA	Natural	Unknown	Unknown	10	1	Capture/Handle/Release Fish	Electrofishing, Backpack		N/A	N/A	4/10/2017	12/31/2017
8		Pikeminnow, Northern	NA	Natural	Unknown	Unknown	30	0	Intentional (Directed) Mortality	Electrofishing, Backpack	Tissue sample (other internal tissues)	N/A	N/A	4/10/2017	12/31/2017
9		Pikeminnow, Northern	NA	Natural	Unknown	Unknown	30	0	Capture/Handle/Release Fish	Electrofishing, Backpack		N/A	N/A	4/10/2017	12/31/2017
10		Salmon, Chinook	Upper Willamette River (NMFS Threatened)	Natural	Juvenile	Unknown	10	0	Capture/Handle/Release Fish	Electrofishing, Backpack		Spring	N/A	4/10/2017	12/31/2017
11		Salmon, Chinook	Upper Willamette River (NMFS Threatened)	Natural	Juvenile	Unknown	10	0	Intentional (Directed) Mortality	Electrofishing, Backpack	Tissue sample (other internal tissues)	Spring	N/A	4/10/2017	12/31/2017
12		Salmon, Chinook	Upper Willamette River (NMFS Threatened)	Listed Hatchery Adipose Clip	Juvenile	Unknown	10	1	Capture/Handle/Release Fish	Electrofishing, Backpack		Spring	N/A	4/10/2017	12/31/2017

13	Salmon, coho	Lower Columbia River (NMFS Threatened)	Natural	Juvenile	Unknown	10	0	Capture/Handle/Release Fish	Electrofishing, Backpack		N/A	N/A	4/10/2017	12/31/2017
14	Salmon, coho	Lower Columbia River (NMFS Threatened)	Natural	Juvenile	Unknown	20	0	Intentional (Directed) Mortality	Electrofishing, Backpack	Tissue sample (other internal tissues)	N/A	N/A	4/10/2017	12/31/2017
15	Sculpin (unknown)	NA	Natural	Unknown	Unknown	30	0	Capture/Handle/Release Fish	Electrofishing, Backpack		N/A	N/A	4/10/2017	12/31/2017
16	Shiner (unknown)	NA	Natural	Unknown	Unknown	30	0	Capture/Handle/Release Fish	Electrofishing, Backpack		N/A	N/A	4/10/2017	12/31/2017
17	Shiner (unknown)	NA	Natural	Unknown	Unknown	10	0	Intentional (Directed) Mortality	Electrofishing, Backpack	Tissue sample (other internal tissues)	N/A	N/A	4/10/2017	12/31/2017
18	Steelhead	Lower Columbia River (NMFS Threatened)	Natural	Juvenile	Unknown	10	0	Capture/Handle/Release Fish	Electrofishing, Backpack		Winter	N/A	4/10/2017	12/31/2017
19	Sucker (unknown)	NA	Natural	Unknown	Unknown	30	0	Capture/Handle/Release Fish	Electrofishing, Backpack		N/A	N/A	4/10/2017	12/31/2017
20	Sucker (unknown)	NA	Natural	Unknown	Unknown	10	0	Intentional (Directed) Mortality	Electrofishing, Backpack	Tissue sample (other internal tissues)	N/A	N/A	4/10/2017	12/31/2017
21	Trout, Cutthroat	Coastal	Natural	Juvenile	Unknown	30	0	Intentional (Directed) Mortality	Electrofishing, Backpack	Tissue sample (other internal tissues)	N/A	N/A	4/10/2017	12/31/2017
22	Trout, Cutthroat	Coastal	Natural	Juvenile	Unknown	30	0	Capture/Handle/Release Fish	Electrofishing, Backpack		N/A	N/A	4/10/2017	12/31/2017
23	Steelhead	Lower Columbia River (NMFS Threatened)	Natural	Juvenile	Unknown	10	0	Intentional (Directed) Mortality	Electrofishing, Backpack	Tissue sample (other internal tissues)	Winter	N/A	4/10/2017	12/31/2017

Freshwater Location

Research Area: Pacific Ocean **State:** OR **Sub Basin (4th Field HUC):** Clackamas **Stream Name:** Clackamas River

Sale in Oregon of species taken: None

Location Description: Upper Clackamas River

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		Trout, Cutthroat	Coastal	Natural	Juvenile	Unknown	30	0	Intentional (Directed) Mortality	Electrofishing, Backpack	Tissue sample (other internal tissues)	N/A	N/A	4/10/2017	12/31/2017
2		Salmon, coho	Lower Columbia River (NMFS Threatened)	Natural	Juvenile	Unknown	20	0	Intentional (Directed) Mortality	Electrofishing, Backpack	Tissue sample (other internal tissues)	N/A	N/A	4/10/2017	12/31/2017
3		Trout, Cutthroat	Coastal	Natural	Juvenile	Unknown	10	0	Capture/Handle/Release Fish	Electrofishing, Backpack		N/A	N/A	4/10/2017	12/31/2017
4		Steelhead	Lower Columbia River (NMFS Threatened)	Natural	Juvenile	Unknown	10	0	Capture/Handle/Release Fish	Electrofishing, Backpack		Winter	N/A	4/10/2017	12/31/2017
5		Salmon, coho	Lower Columbia River (NMFS Threatened)	Natural	Juvenile	Unknown	10	0	Capture/Handle/Release Fish	Electrofishing, Backpack		N/A	N/A	4/10/2017	12/31/2017
6		Lamprey, Pacific	NA	Natural	Juvenile	Unknown	10	1	Capture/Handle/Release Fish	Electrofishing, Backpack		N/A	N/A	4/10/2017	12/31/2017
7		Lamprey, Western brook	NA	Natural	Unknown	Unknown	10	1	Capture/Handle/Release Fish	Electrofishing, Backpack		N/A	N/A	4/10/2017	12/31/2017
8		Sculpin (unknown)	NA	Natural	Unknown	Unknown	30	0	Capture/Handle/Release Fish	Electrofishing, Backpack		N/A	N/A	4/10/2017	12/31/2017
9		Dace, Speckled	NA	Natural	Unknown	Unknown	30	0	Capture/Handle/Release Fish	Electrofishing, Backpack		N/A	N/A	4/10/2017	12/31/2017
10		Dace, Speckled	NA	Natural	Unknown	Unknown	10	0	Intentional (Directed) Mortality	Electrofishing, Backpack	Tissue sample (other internal tissues)	N/A	N/A	4/10/2017	12/31/2017
11		Dace, Longnose	NA	Natural	Unknown	Unknown	30	0	Capture/Handle/Release Fish	Electrofishing, Backpack		N/A	N/A	4/10/2017	12/31/2017

12		Dace, Longnose	NA	Natural	Unknown	Unknown	10	0	Intentional (Directed) Mortality	Electrofishing, Backpack	Tissue sample (other internal tissues)	N/A	N/A	4/10/2017	12/31/2017
13		Pikeminnow, Northern	NA	Natural	Unknown	Unknown	30	0	Intentional (Directed) Mortality	Electrofishing, Backpack	Tissue sample (other internal tissues)	N/A	N/A	4/10/2017	12/31/2017
14		Pikeminnow, Northern	NA	Natural	Unknown	Unknown	30	0	Capture/Handle/Release Fish	Electrofishing, Backpack		N/A	N/A	4/10/2017	12/31/2017
15		Shiner (unknown)	NA	Natural	Unknown	Unknown	30	0	Capture/Handle/Release Fish	Electrofishing, Backpack		N/A	N/A	4/10/2017	12/31/2017
16		Shiner (unknown)	NA	Natural	Unknown	Unknown	10	0	Intentional (Directed) Mortality	Electrofishing, Backpack	Tissue sample (other internal tissues)	N/A	N/A	4/10/2017	12/31/2017
17		Sucker (unknown)	NA	Natural	Unknown	Unknown	30	0	Capture/Handle/Release Fish	Electrofishing, Backpack		N/A	N/A	4/10/2017	12/31/2017
18		Sucker (unknown)	NA	Natural	Unknown	Unknown	10	0	Intentional (Directed) Mortality	Electrofishing, Backpack	Tissue sample (other internal tissues)	N/A	N/A	4/10/2017	12/31/2017
19		Salmon, Chinook	Upper Willamette River (NMFS Threatened)	Natural	Juvenile	Unknown	10	0	Capture/Handle/Release Fish	Electrofishing, Backpack		Spring	N/A	4/10/2017	12/31/2017
20		Salmon, Chinook	Upper Willamette River (NMFS Threatened)	Natural	Juvenile	Unknown	10	0	Intentional (Directed) Mortality	Electrofishing, Backpack	Tissue sample (other internal tissues)	Spring	N/A	4/10/2017	12/31/2017
21		Salmon, Chinook	Upper Willamette River (NMFS Threatened)	Listed Hatchery Adipose Clip	Juvenile	Unknown	10	1	Capture/Handle/Release Fish	Electrofishing, Backpack		Spring	N/A	4/10/2017	12/31/2017
22		Trout, Brook	NA	Natural	Adult	Unknown	60	0	Intentional (Directed) Mortality	Electrofishing, Backpack	Tissue sample (other internal tissues)	N/A	N/A	4/10/2017	12/31/2017

23		Steelhead	Lower Columbia River (NMFS Threatened)	Natural	Juvenile	Unknown	30	0	Intentional (Directed) Mortality	Electrofishing, Backpack	Tissue sample (other internal tissues)	Summer	N/A	4/10/2017	12/31/2017
----	--	-----------	--	---------	----------	---------	----	---	----------------------------------	--------------------------	--	--------	-----	-----------	------------

Freshwater Location

Research Area: Pacific Ocean **State:** OR **Sub Basin (4th Field HUC):** Lower Columbia-Sandy **Stream Name:** Cedar Creek

Sale in Oregon of species taken: None

Location Description: Upstream of the Sandy Hatchery.

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, coho	Lower Columbia River (NMFS Threatened)	Natural	Juvenile	Unknown	10	0	Intentional (Directed) Mortality	Electrofishing, Backpack	Tissue sample (other internal tissues)	N/A	N/A	4/10/2017	12/31/2017
2		Steelhead	Lower Columbia River (NMFS Threatened)	Natural	Juvenile	Unknown	30	0	Intentional (Directed) Mortality	Electrofishing, Backpack	Tissue sample (other internal tissues)	Summer	N/A	4/10/2017	12/31/2017
3		Trout, Brook	NA	Natural	Juvenile	Unknown	60	0	Intentional (Directed) Mortality	Electrofishing, Backpack	Tissue sample (other internal tissues)	N/A	N/A	4/10/2017	12/31/2017
4		Salmon, coho	Lower Columbia River (NMFS Threatened)	Natural	Juvenile	Unknown	10	0	Capture/Handle/Release Fish	Electrofishing, Backpack		N/A	N/A	4/10/2017	12/31/2017
5		Steelhead	Lower Columbia River (NMFS Threatened)	Natural	Juvenile	Unknown	30	0	Capture/Handle/Release Fish	Electrofishing, Backpack		Summer	N/A	4/10/2017	12/31/2017
6		Trout, Cutthroat	Coastal	Natural	Juvenile	Unknown	10	0	Intentional (Directed) Mortality	Electrofishing, Backpack		N/A	N/A	4/10/2017	12/31/2017
7		Trout, Cutthroat	Coastal	Natural	Juvenile	Unknown	10	0	Capture/Handle/Release Fish	Electrofishing, Backpack		N/A	N/A	4/10/2017	12/31/2017
8		Lamprey, Pacific	NA	Natural	Juvenile	Unknown	10	1	Capture/Handle/Release Fish	Electrofishing, Backpack		N/A	N/A	4/10/2017	12/31/2017
9		Lamprey, Western brook	NA	Natural	Unknown	Unknown	10	1	Capture/Handle/Release Fish	Electrofishing, Backpack		N/A	N/A	4/10/2017	12/31/2017
10		Sculpin (unknown)	NA	Natural	Unknown	Unknown	30	0	Capture/Handle/Release Fish	Electrofishing, Backpack		N/A	N/A	4/10/2017	12/31/2017

11		Dace, Speckled	NA	Natural	Unknown	Unknown	30	0	Capture/Handle/Release Fish	Electrofishing, Backpack		N/A	N/A	4/10/2017	12/31/2017
12		Dace, Speckled	NA	Natural	Unknown	Unknown	10	0	Intentional (Directed) Mortality	Electrofishing, Backpack	Tissue sample (other internal tissues)	N/A	N/A	4/10/2017	12/31/2017
13		Dace, Longnose	NA	Natural	Unknown	Unknown	30	0	Capture/Handle/Release Fish	Electrofishing, Backpack		N/A	N/A	4/10/2017	12/31/2017
14		Dace, Longnose	NA	Natural	Unknown	Unknown	10	0	Intentional (Directed) Mortality	Electrofishing, Backpack	Tissue sample (other internal tissues)	N/A	N/A	4/10/2017	12/31/2017
15		Pikeminnow, Northern	NA	Natural	Unknown	Unknown	30	0	Intentional (Directed) Mortality	Electrofishing, Backpack	Tissue sample (other internal tissues)	N/A	N/A	4/10/2017	12/31/2017
16		Pikeminnow, Northern	NA	Natural	Unknown	Unknown	30	0	Capture/Handle/Release Fish	Electrofishing, Backpack		N/A	N/A	4/10/2017	12/31/2017
17		Shiner (unknown)	NA	Natural	Unknown	Unknown	30	0	Capture/Handle/Release Fish	Electrofishing, Backpack		N/A	N/A	4/10/2017	12/31/2017
18		Shiner (unknown)	NA	Natural	Unknown	Unknown	10	0	Intentional (Directed) Mortality	Electrofishing, Backpack	Tissue sample (other internal tissues)	N/A	N/A	4/10/2017	12/31/2017
19		Sucker (unknown)	NA	Natural	Unknown	Unknown	30	0	Capture/Handle/Release Fish	Electrofishing, Backpack		N/A	N/A	4/10/2017	12/31/2017
20		Sucker (unknown)	NA	Natural	Unknown	Unknown	10	0	Intentional (Directed) Mortality	Electrofishing, Backpack	Tissue sample (other internal tissues)	N/A	N/A	4/10/2017	12/31/2017

Freshwater Location

Research Area: Pacific Ocean **State:** OR **Sub Basin (4th Field HUC):** Lower Deschutes **Stream Name:** Warm Springs River **Latitude:** 44 51 32.11 **Longitude:** 121 04 0.16

Sale in Oregon of species taken: None

Location Description: Confluence of the Warm Springs River and the Deschutes River upstream.

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		Cottids	NA	Natural	Juvenile	Unknown	60	0	Intentional (Directed) Mortality	Trap, Screw		N/A	N/A	4/10/2017	12/31/2017

2	Dace, Longnose	NA	Natural	Juvenile	Unknown	60	0	Intentional (Directed) Mortality	Trap, Screw		N/A	N/A	4/10/2017	12/31/2017
3	Dace, Speckled	NA	Natural	Juvenile	Unknown	60	0	Intentional (Directed) Mortality	Trap, Screw		N/A	N/A	4/10/2017	12/31/2017
4	Lamprey, Pacific	NA	Natural	Juvenile	Unknown	60	0	Intentional (Directed) Mortality	Trap, Screw		N/A	N/A	4/10/2017	12/31/2017
5	Pikeminnow, Northern	NA	Natural	Juvenile	Unknown	60	0	Intentional (Directed) Mortality	Trap, Screw		N/A	N/A	4/10/2017	12/31/2017
6	Salmon, Chinook	Unspecified	Natural	Juvenile	Unknown	30	0	Intentional (Directed) Mortality	Trap, Screw		Spring	N/A	4/10/2017	12/31/2017
7	Shiner, Redside	NA	Natural	Juvenile	Unknown	60	0	Intentional (Directed) Mortality	Trap, Screw		N/A	N/A	4/10/2017	12/31/2017
8	Steelhead	Middle Columbia River (NMFS Threatened)	Natural	Juvenile	Unknown	30	0	Intentional (Directed) Mortality	Trap, Screw		Summer	N/A	4/10/2017	12/31/2017
9	Sucker, Largescale	NA	Natural	Juvenile	Unknown	60	0	Intentional (Directed) Mortality	Trap, Screw		N/A	N/A	4/10/2017	12/31/2017
10	Whitefish, Mountain	NA	Natural	Juvenile	Unknown	60	0	Intentional (Directed) Mortality	Trap, Screw		N/A	N/A	4/10/2017	12/31/2017
11	Salmon, coho	Unspecified	Natural	Juvenile	Unknown	60	0	Intentional (Directed) Mortality	Trap, Screw		N/A	N/A	4/10/2017	12/31/2017
12	Salmon, coho	Unspecified	Unlisted Hatchery	Adult	Male and Female	60	0	Intentional (Directed) Mortality	Weir (only if associated with fish handling)	Tissue sample (other internal tissues)	N/A	N/A	4/10/2017	12/31/2017

Freshwater Location

Research Area: Pacific Ocean **State:** OR **Sub Basin (4th Field HUC):** Lower Deschutes **Stream Name:** Shitike Creek **Latitude:** 44 45 44.40 **Longitude:** 121 13 41.42

Sale in Oregon of species taken: None

Location Description: Confluence of Shitike Creek and Deschutes River upstream

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		Cottids	NA	Natural	Juvenile	Unknown	60	0	Intentional (Directed) Mortality	Trap, Screw		N/A	N/A	4/10/2017	12/31/2017
2		Dace, Longnose	NA	Natural	Juvenile	Unknown	60	0	Intentional (Directed) Mortality	Trap, Screw		N/A	N/A	4/10/2017	12/31/2017
3		Dace, Speckled	NA	Natural	Juvenile	Unknown	60	0	Intentional (Directed) Mortality	Trap, Screw		N/A	N/A	4/10/2017	12/31/2017
4		Lamprey, Pacific	NA	Natural	Juvenile	Unknown	60	0	Intentional (Directed) Mortality	Trap, Screw		N/A	N/A	4/10/2017	12/31/2017
5		Pikeminnow, Northern	NA	Natural	Juvenile	Unknown	60	0	Intentional (Directed) Mortality	Trap, Screw		N/A	N/A	4/10/2017	12/31/2017
6		Salmon, Chinook	Unspecified	Natural	Juvenile	Unknown	30	0	Intentional (Directed) Mortality	Trap, Screw		Spring	N/A	4/10/2017	12/31/2017
7		Shiner, Redside	NA	Natural	Juvenile	Unknown	60	0	Intentional (Directed) Mortality	Trap, Screw		N/A	N/A	4/10/2017	12/31/2017
8		Steelhead	Middle Columbia River (NMFS Threatened)	Natural	Juvenile	Unknown	30	0	Intentional (Directed) Mortality	Trap, Screw		Summer	N/A	4/10/2017	12/31/2017
9		Sucker, Largescale	NA	Natural	Juvenile	Unknown	60	0	Intentional (Directed) Mortality	Trap, Screw		N/A	N/A	4/10/2017	12/31/2017
10		Whitefish, Mountain	NA	Natural	Juvenile	Unknown	60	0	Intentional (Directed) Mortality	Trap, Screw		N/A	N/A	4/10/2017	12/31/2017
11		Salmon, coho	Unspecified	Natural	Juvenile	Unknown	60	0	Intentional (Directed) Mortality	Trap, Screw		N/A	N/A	4/10/2017	12/31/2017

Freshwater Location

Research Area: Pacific Ocean **State:** OR **Sub Basin (4th Field HUC):** Lower Deschutes **Stream Name:** Deschutes River

Sale in Oregon of species taken: None

Location Description: Deschutes River mainstem

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		Steelhead	Middle Columbia River (NMFS Threatened)	Natural	Juvenile	Unknown	60	0	Intentional (Directed) Mortality	Electrofishing, Backpack	Tissue sample (other internal tissues)	Summer	N/A	4/10/2017	12/31/2017
2		Whitefish, Mountain	NA	Natural	Juvenile	Unknown	60	0	Intentional (Directed) Mortality	Electrofishing, Backpack	Tissue sample (other internal tissues)	N/A	N/A	4/10/2017	12/31/2017
3		Trout, Rainbow	NA	Natural	Adult	Unknown	60	0	Intentional (Directed) Mortality	Hook and line/angler/rod and reel	Tissue sample (other internal tissues)	N/A	N/A	4/10/2017	12/31/2017
4		Steelhead	Middle Columbia River (NMFS Threatened)	Natural	Juvenile	Unknown	60	0	Capture/Handle/Release Fish	Electrofishing, Backpack		Summer	N/A	4/10/2017	12/31/2017
5		Whitefish, Mountain	NA	Natural	Juvenile	Unknown	60	0	Capture/Handle/Release Fish	Electrofishing, Backpack		N/A	N/A	4/10/2017	12/31/2017
6		Salmon, coho	Unspecified	Unlisted Hatchery	Adult	Male and Female	60	0	Intentional (Directed) Mortality	Fish Ladder (only if associated with fish handling)	Tissue sample (other internal tissues)	N/A	N/A	4/10/2017	12/31/2017
7		Salmon, Chinook	Unspecified	Unlisted Hatchery	Adult	Unknown	5	0	Intentional (Directed) Mortality	Hook and line/angler/rod and reel	Tissue sample (other internal tissues)	Spring	N/A	4/10/2017	12/31/2017

Freshwater Location

Research Area: Pacific Ocean **State:** OR **Sub Basin (4th Field HUC):** Lower Deschutes **Stream Name:** Trout Creek

Sale in Oregon of species taken: None

Location Description: Trout Creek is a tributary of the Deschutes River

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		Steelhead	Middle Columbia River (NMFS Threatened)	Natural	Juvenile	Unknown	20	0	Intentional (Directed) Mortality	Electrofishing, Backpack	Tissue sample (other internal tissues)	Summer	N/A	4/10/2017	12/31/2017
2		Steelhead	Middle Columbia River (NMFS Threatened)	Natural	Juvenile	Unknown	10	0	Capture/Handle/Release Fish	Electrofishing, Backpack		Summer	N/A	4/10/2017	12/31/2017

Freshwater Location

Research Area: Pacific Ocean **State:** OR **Sub Basin (4th Field HUC):** Lower Deschutes **Stream Name:** Bakeoven Creek

Sale in Oregon of species taken: None

Location Description: Bakeoven Creek is a tributary of the Deschutes River

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		Steelhead	Middle Columbia River (NMFS Threatened)	Natural	Juvenile	Unknown	20	0	Intentional (Directed) Mortality	Net, Fyke	Tissue sample (other internal tissues)	Summer	N/A	4/10/2017	12/31/2017
2		Salmon, coho	Unspecified	Natural	Juvenile	Unknown	20	0	Intentional (Directed) Mortality	Net, Fyke	Tissue sample (other internal tissues)	N/A	N/A	4/10/2017	12/31/2017
3		Whitefish, Mountain	NA	Natural	Adult	Male and Female	20	0	Intentional (Directed) Mortality	Net, Fyke	Tissue sample (other internal tissues)	N/A	N/A	4/10/2017	12/31/2017

Freshwater Location

Research Area: Pacific Ocean **State:** OR **Sub Basin (4th Field HUC):** Lower Deschutes **Stream Name:** Buck Hollow Creek

Sale in Oregon of species taken: None

Location Description: Buck Hollow Creek is a tributary of the Deschutes River

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		Steelhead	Middle Columbia River (NMFS Threatened)	Natural	Juvenile	Unknown	20	0	Intentional (Directed) Mortality	Net, Fyke	Tissue sample (other internal tissues)	Summer	N/A	4/10/2017	12/31/2017
2		Salmon, coho	Unspecified	Natural	Juvenile	Unknown	20	0	Intentional (Directed) Mortality	Net, Fyke	Tissue sample (other internal tissues)	N/A	N/A	4/10/2017	12/31/2017
3		Whitefish, Mountain	NA	Natural	Adult	Male and Female	20	0	Intentional (Directed) Mortality	Net, Fyke	Tissue sample (other internal tissues)	N/A	N/A	4/10/2017	12/31/2017

Freshwater Location

Research Area: Pacific Ocean **State:** OR **Sub Basin (4th Field HUC):** Lower Grande Ronde **Stream Name:** Grande Ronde River and Tribs

Sale in Oregon of species taken: None

Location Description: Will send a completed list of sites.

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		Steelhead	Snake River Basin (NMFS Threatened)	Natural	Juvenile	Unknown	30	0	Intentional (Directed) Mortality	Electrofishing, Backpack	Tissue sample (other internal tissues)	Summer	N/A	4/10/2017	12/31/2017
2		Salmon, Chinook	Snake River spring/summer-run (NMFS Threatened)	Natural	Juvenile	Unknown	10	0	Intentional (Directed) Mortality	Electrofishing, Backpack	Tissue sample (other internal tissues)	Spring/Summer	N/A	4/10/2017	12/31/2017
3		Trout, Cutthroat	Unspecified	Natural	Juvenile	Unknown	60	0	Intentional (Directed) Mortality	Electrofishing, Backpack		N/A	N/A	4/10/2017	12/31/2017
4		Salmon, Chinook	Snake River fall-run (NMFS Threatened)	Natural	Juvenile	Unknown	10	0	Intentional (Directed) Mortality	Electrofishing, Backpack	Tissue sample (other internal tissues)	Fall	N/A	4/10/2017	12/31/2017
5		Trout, Brook	NA	Natural	Adult	Male and Female	60	0	Intentional (Directed) Mortality	Electrofishing, Backpack	Tissue sample (other internal tissues)	N/A	N/A	4/10/2017	12/31/2017

Freshwater Location

Research Area: Pacific Ocean **State:** OR **Sub Basin (4th Field HUC):** Middle Columbia-Hood **Stream Name:** Fifteenmile Creek and tributaries

Sale in Oregon of species taken: None

Location Description: Fifteenmile Creek and tributaries

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		Steelhead	Middle Columbia River (NMFS Threatened)	Natural	Juvenile	Unknown	20	0	Intentional (Directed) Mortality	Electrofishing, Backpack	Tissue sample (other internal tissues)	Summer	N/A	4/10/2017	12/31/2017
Details: will use mixed STS and STW per NOAA request															

Freshwater Location

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

Sal in Oregon of species taken: None

Location Description: Mainstem Hood River

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		Steelhead	Lower Columbia River (NMFS Threatened)	Natural	Juvenile	Unknown	10	0	Intentional (Directed) Mortality	Trap, Screw	Tissue sample (other internal tissues)	Mixed	N/A	4/10/2017	12/31/2017
2		Salmon, Chinook	Unspecified	Natural	Juvenile	Unknown	10	0	Intentional (Directed) Mortality	Trap, Screw	Tissue sample (other internal tissues)	Spring	N/A	4/10/2017	12/31/2017
Details: non-listed															
3		Salmon, Chinook	Lower Columbia River (NMFS Threatened)	Natural	Juvenile	Unknown	10	0	Intentional (Directed) Mortality	Trap, Screw	Tissue sample (other internal tissues)	Tule Fall	N/A	4/10/2017	12/31/2017
4		Steelhead	Lower Columbia River (NMFS Threatened)	Natural	Juvenile	Unknown	10	0	Intentional (Directed) Mortality	Electrofishing, Backpack	Tissue sample (other internal tissues)	Mixed	N/A	4/10/2017	12/31/2017
5		Salmon, Chinook	Unspecified	Natural	Juvenile	Unknown	10	0	Intentional (Directed) Mortality	Electrofishing, Backpack	Tissue sample (other internal tissues)	Spring	N/A	4/10/2017	12/31/2017
Details: non-listed															
6		Salmon, Chinook	Lower Columbia River (NMFS Threatened)	Natural	Juvenile	Unknown	10	0	Intentional (Directed) Mortality	Electrofishing, Backpack	Tissue sample (other internal tissues)	Tule Fall	N/A	4/10/2017	12/31/2017

Freshwater Location

Research Area: Pacific Ocean **State:** OR **Sub Basin (4th Field HUC):** Middle Columbia-Hood **Stream Name:** West Fork Hood River **Begin Mile:** **End Mile:** 15.0

Sale in Oregon of species taken: None

Location Description: Tributary to the mainstem of the Hood River. Upstream of the Moving Falls Hatchery location.

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		Steelhead	Lower Columbia River (NMFS Threatened)	Natural	Juvenile	Unknown	10	0	Intentional (Directed) Mortality	Trap, Screw	Tissue sample (other internal tissues)	Summer	N/A	4/10/2017	12/31/2017
2		Salmon, Chinook	Unspecified	Natural	Juvenile	Unknown	10	0	Intentional (Directed) Mortality	Trap, Screw	Tissue sample (other internal tissues)	Spring	N/A	4/10/2017	12/31/2017
Details: non-listed															
3		Steelhead	Lower Columbia River (NMFS Threatened)	Natural	Juvenile	Unknown	10	0	Intentional (Directed) Mortality	Electrofishing, Backpack	Tissue sample (other internal tissues)	Summer	N/A	4/10/2017	12/31/2017
4		Salmon, Chinook	Unspecified	Natural	Juvenile	Unknown	10	0	Intentional (Directed) Mortality	Electrofishing, Backpack	Tissue sample (other internal tissues)	Spring	N/A	4/10/2017	12/31/2017
Details: non-listed															

Freshwater Location

Research Area: Pacific Ocean **State:** OR **Sub Basin (4th Field HUC):** Middle Columbia-Hood **Stream Name:** Middle Fork Hood River **Begin Mile:** **End Mile:** 9.0

Sale in Oregon of species taken: None

Location Description: Middle Fork of the Hood River and it's tributaries.

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		Steelhead	Lower Columbia River (NMFS Threatened)	Natural	Juvenile	Unknown	20	0	Intentional (Directed) Mortality	Trap, Screw	Tissue sample (other internal tissues)	Winter	N/A	4/10/2017	12/31/2017

2		Salmon, Chinook	Unspecified	Natural	Juvenile	Unknown	20	0	Intentional (Directed) Mortality	Trap, Screw	Tissue sample (other internal tissues)	Spring	N/A	4/10/2017	12/31/2017
Details: non-listed															

Freshwater Location

Research Area: Pacific Ocean **State:** OR **Sub Basin (4th Field HUC):** Middle Columbia-Hood **Stream Name:** East Fork Hood River **Begin Mile:** 1.0 **End Mile:** 1.5

Sale in Oregon of species taken: None

Location Description: East Fork of the Hood River.

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		Steelhead	Lower Columbia River (NMFS Threatened)	Natural	Juvenile	Unknown	20	0	Intentional (Directed) Mortality	Trap, Screw	Tissue sample (other internal tissues)	Winter	N/A	4/10/2017	12/31/2017
2		Salmon, Chinook	Unspecified	Natural	Juvenile	Unknown	20	0	Intentional (Directed) Mortality	Trap, Screw	Tissue sample (other internal tissues)	Spring	N/A	4/10/2017	12/31/2017
Details: non-listed															

Freshwater Location

Research Area: Pacific Ocean **State:** OR **Sub Basin (4th Field HUC):** Umatilla **Stream Name:** Umatilla River

Sale in Oregon of species taken: None

Location Description: Upper Umatilla River

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		Steelhead	Middle Columbia River (NMFS Threatened)	Natural	Juvenile	Unknown	30	0	Intentional (Directed) Mortality	Trap, Screw	Tissue sample (other internal tissues)	Summer	N/A	4/10/2017	12/31/2017
2		Salmon, Chinook	Unspecified	Natural	Juvenile	Unknown	30	0	Intentional (Directed) Mortality	Trap, Screw	Tissue sample (other internal tissues)	Spring	N/A	4/10/2017	12/31/2017

Freshwater Location

Research Area: Pacific Ocean **State:** OR **Sub Basin (4th Field HUC):** Upper Grande Ronde River **Stream Name:** Lookingglass Creek

Sale in Oregon of species taken: None

Location Description: Above Lookingglass Hatchery.

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		Steelhead	Snake River Basin (NMFS Threatened)	Natural	Juvenile	Unknown	30	0	Intentional (Directed) Mortality	Electrofishing, Backpack	Tissue sample (other internal tissues)	Summer	N/A	4/10/2017	12/31/2017
2		Salmon, Chinook	Snake River spring/summer-run (NMFS Threatened)	Natural	Juvenile	Unknown	10	0	Intentional (Directed) Mortality	Electrofishing, Backpack	Tissue sample (other internal tissues)	Summer	N/A	4/10/2017	12/31/2017
3		Trout, Cutthroat	Unspecified	Natural	Juvenile	Unknown	60	0	Intentional (Directed) Mortality	Electrofishing, Backpack		N/A	N/A	4/10/2017	12/31/2017
4		Salmon, Chinook	Snake River spring/summer-run (NMFS Threatened)	Natural	Juvenile	Unknown	10	0	Intentional (Directed) Mortality	Electrofishing, Backpack	Tissue sample (other internal tissues)	Spring	N/A	4/10/2017	12/31/2017
5		Steelhead	Snake River Basin (NMFS Threatened)	Natural	Juvenile	Unknown	10	0	Capture/Handle/Release Fish	Electrofishing, Backpack		Summer	N/A	4/10/2017	12/31/2017
6		Salmon, Chinook	Snake River spring/summer-run (NMFS Threatened)	Natural	Juvenile	Unknown	10	0	Capture/Handle/Release Fish	Electrofishing, Backpack		Summer	N/A	4/10/2017	12/31/2017
7		Trout, Cutthroat	Unspecified	Natural	Juvenile	Unknown	60	0	Capture/Handle/Release Fish	Electrofishing, Backpack		N/A	N/A	4/10/2017	12/31/2017
8		Salmon, Chinook	Snake River spring/summer-run (NMFS Threatened)	Natural	Juvenile	Unknown	10	0	Capture/Handle/Release Fish	Electrofishing, Backpack		Spring	N/A	4/10/2017	12/31/2017
9		Trout, Brook	NA	Natural	Juvenile	Unknown	60	0	Intentional (Directed) Mortality	Electrofishing, Backpack	Tissue sample (other internal tissues)	N/A	N/A	4/10/2017	12/31/2017

Freshwater Location

Research Area: Pacific Ocean **State:** OR **Sub Basin (4th Field HUC):** Walla Walla **Stream Name:** South Fork Walla Walla River

Sale in Oregon of species taken: None

Location Description: Upstream of the adult facility

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		Steelhead	Middle Columbia River (NMFS Threatened)	Natural	Juvenile	Unknown	30	0	Intentional (Directed) Mortality	Electrofishing, Backpack	Tissue sample (other internal tissues)	Summer	N/A	4/10/2017	12/31/2017
2		Salmon, Chinook	Unspecified	Natural	Juvenile	Unknown	30	0	Intentional (Directed) Mortality	Electrofishing, Backpack	Tissue sample (other internal tissues)	Spring	N/A	4/10/2017	12/31/2017
3		Steelhead	Middle Columbia River (NMFS Threatened)	Natural	Juvenile	Unknown	10	0	Capture/Handle/Release Fish	Electrofishing, Backpack		Summer	N/A	4/10/2017	12/31/2017
4		Salmon, Chinook	Unspecified	Natural	Juvenile	Unknown	10	0	Capture/Handle/Release Fish	Electrofishing, Backpack		Spring	N/A	4/10/2017	12/31/2017

Freshwater Location

Research Area: Pacific Ocean **State:** OR **Sub Basin (4th Field HUC):** Wallowa River **Stream Name:** Wallawa River

Sale in Oregon of species taken: None

Location Description: Above Wallowa Fish Hatchery (Deer Creek, Little Sheep Creek)

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		Steelhead	Snake River Basin (NMFS Threatened)	Natural	Juvenile	Unknown	30	0	Intentional (Directed) Mortality	Electrofishing, Backpack	Tissue sample (other internal tissues)	Summer	N/A	4/10/2017	12/31/2017
2		Salmon, Chinook	Snake River spring/summer-run (NMFS Threatened)	Natural	Juvenile	Unknown	10	0	Intentional (Directed) Mortality	Electrofishing, Backpack	Tissue sample (other internal tissues)	Summer	N/A	4/10/2017	12/31/2017
3		Trout, Cutthroat	Unspecified	Natural	Juvenile	Unknown	60	0	Intentional (Directed) Mortality	Electrofishing, Backpack		N/A	N/A	4/10/2017	12/31/2017
4		Salmon, Chinook	Snake River spring/summer-run (NMFS Threatened)	Natural	Juvenile	Unknown	10	0	Capture/Handle/Release Fish	Electrofishing, Backpack		Spring	N/A	4/10/2017	12/31/2017

5		Steelhead	Snake River Basin (NMFS Threatened)	Natural	Juvenile	Unknown	10	0	Capture/Handle/Release Fish	Electrofishing, Backpack		Summer	N/A	4/10/2017	12/31/2017
6		Trout, Cutthroat	Unspecified	Natural	Juvenile	Unknown	60	0	Capture/Handle/Release Fish	Electrofishing, Backpack		N/A	N/A	4/10/2017	12/31/2017
7		Trout, Brook	NA	Natural	Juvenile	Unknown	60	0	Intentional (Directed) Mortality	Electrofishing, Backpack	Tissue sample (other internal tissues)	N/A	N/A	4/10/2017	12/31/2017
8		Salmon, Chinook	Snake River spring/summer-run (NMFS Threatened)	Natural	Juvenile	Unknown	10	0	Capture/Handle/Release Fish	Electrofishing, Backpack		Summer	N/A	4/10/2017	12/31/2017
9		Salmon, Chinook	Snake River spring/summer-run (NMFS Threatened)	Natural	Juvenile	Unknown	10	0	Intentional (Directed) Mortality	Electrofishing, Backpack	Tissue sample (other internal tissues)	Spring	N/A	4/10/2017	12/31/2017
10		Kokanee	NA	Natural	Adult	Unknown	100		Intentional (Directed) Mortality	Electrofishing, Backpack	Tissue sample (other internal tissues)	N/A	N/A	4/10/2017	12/31/2017

Freshwater Location

Research Area: Pacific Ocean **State:** OR **Sub Basin (4th Field HUC):** Warner Lakes **Stream Name:** Twentymile Creek

Sale in Oregon of species taken: None

Location Description: Twentymile Creek sub-basin.

Take Information

Line	Ver	Species	Listing Unit/Stock	Production /Origin	Life Stage	Sex	Expected Take	Indirect Mort	Take Action	Observe /Collect Method	Procedure	Transport Record	Begin Date	End Date
1		Bullhead, Brown	NA	Natural	Juvenile	Unknown	30	0	Intentional (Directed) Mortality	Electrofishing, Backpack	Tissue sample (other internal tissues)	N/A	4/10/2017	12/31/2017
2		Dace, Speckled	NA	Natural	Juvenile	Unknown	30	0	Intentional (Directed) Mortality	Electrofishing, Backpack	Tissue sample (other internal tissues)	N/A	4/10/2017	12/31/2017
3		Chub, Tui	NA	Natural	Juvenile	Unknown	30	0	Intentional (Directed) Mortality	Electrofishing, Backpack	Tissue sample (other internal tissues)	N/A	4/10/2017	12/31/2017
4		Crappie, White	NA	Natural	Juvenile	Unknown	30	0	Intentional (Directed) Mortality	Electrofishing, Backpack	Tissue sample (other internal tissues)	N/A	4/10/2017	12/31/2017

5		Bass, Largemouth	NA	Natural	Juvenile	Unknown	30	0	Intentional (Directed) Mortality	Electrofishing, Backpack	Tissue sample (other internal tissues)	N/A	4/10/2017	12/31/2017
6		Trout, Brook	NA	Natural	Juvenile	Unknown	60	0	Intentional (Directed) Mortality	Electrofishing, Backpack	Tissue sample (other internal tissues)	N/A	4/10/2017	12/31/2017
7		Sucker, Warner	Range-wide (USFWS Threatened)	Natural	Juvenile	Unknown	20	0	Intentional (Directed) Mortality	Electrofishing, Backpack	Tissue sample (other internal tissues)	N/A	4/10/2017	12/31/2017
8		Bullhead, Brown	NA	Natural	Juvenile	Unknown	30	0	Capture/Handle/Release Fish	Electrofishing, Backpack		N/A	4/10/2017	12/31/2017
9		Dace, Speckled	NA	Natural	Juvenile	Unknown	30	0	Capture/Handle/Release Fish	Electrofishing, Backpack		N/A	4/10/2017	12/31/2017
10		Chub, Tui	NA	Natural	Juvenile	Unknown	30	0	Capture/Handle/Release Fish	Electrofishing, Backpack		N/A	4/10/2017	12/31/2017
11		Crappie, White	NA	Natural	Juvenile	Unknown	30	0	Capture/Handle/Release Fish	Electrofishing, Backpack		N/A	4/10/2017	12/31/2017
12		Bass, Largemouth	NA	Natural	Juvenile	Unknown	30	0	Capture/Handle/Release Fish	Electrofishing, Backpack		N/A	4/10/2017	12/31/2017
13		Trout, Brook	NA	Natural	Juvenile	Unknown	60	0	Capture/Handle/Release Fish	Electrofishing, Backpack		N/A	4/10/2017	12/31/2017
14		Sucker, Warner	Range-wide (USFWS Threatened)	Natural	Juvenile	Unknown	20	0	Capture/Handle/Release Fish	Electrofishing, Backpack		N/A	4/10/2017	12/31/2017

Freshwater Location

Research Area: Pacific Ocean State: OR Sub Basin (4th Field HUC): Warner Lakes Stream Name: Deep Creek

Sale in Oregon of species taken: None

Location Description: Deep Creek sub-basin.

Take Information

Line	Ver	Species	Listing Unit/Stock	Production /Origin	Life Stage	Sex	Expected Take	Indirect Mort	Take Action	Observe /Collect Method	Procedure	Transport Record	Begin Date	End Date
1		Bullhead, Brown	NA	Natural	Juvenile	Unknown	30	0	Intentional (Directed) Mortality	Electrofishing, Backpack	Tissue sample (other internal tissues)	N/A	4/10/2017	12/31/2017

2		Dace, Speckled	NA	Natural	Juvenile	Unknown	30	0	Intentional (Directed) Mortality	Electrofishing, Backpack	Tissue sample (other internal tissues)	N/A	4/10/2017	12/31/2017
3		Chub, Tui	NA	Natural	Juvenile	Unknown	30	0	Intentional (Directed) Mortality	Electrofishing, Backpack	Tissue sample (other internal tissues)	N/A	4/10/2017	12/31/2017
4		Crappie, White	NA	Natural	Juvenile	Unknown	30	0	Intentional (Directed) Mortality	Electrofishing, Backpack	Tissue sample (other internal tissues)	N/A	4/10/2017	12/31/2017
5		Bass, Largemouth	NA	Natural	Juvenile	Unknown	30	0	Intentional (Directed) Mortality	Electrofishing, Backpack	Tissue sample (other internal tissues)	N/A	4/10/2017	12/31/2017
6		Trout, Brook	NA	Natural	Juvenile	Unknown	60	0	Intentional (Directed) Mortality	Electrofishing, Backpack	Tissue sample (other internal tissues)	N/A	4/10/2017	12/31/2017
7		Sucker, Warner	Range-wide (USFWS Threatened)	Natural	Juvenile	Unknown	20	0	Intentional (Directed) Mortality	Electrofishing, Backpack	Tissue sample (other internal tissues)	N/A	4/10/2017	12/31/2017
8		Bullhead, Brown	NA	Natural	Juvenile	Unknown	30	0	Capture/Handle/Release Fish	Electrofishing, Backpack		N/A	4/10/2017	12/31/2017
9		Dace, Speckled	NA	Natural	Juvenile	Unknown	30	0	Capture/Handle/Release Fish	Electrofishing, Backpack		N/A	4/10/2017	12/31/2017
10		Chub, Tui	NA	Natural	Juvenile	Unknown	30	0	Capture/Handle/Release Fish	Electrofishing, Backpack		N/A	4/10/2017	12/31/2017
11		Crappie, White	NA	Natural	Juvenile	Unknown	30	0	Capture/Handle/Release Fish	Electrofishing, Backpack		N/A	4/10/2017	12/31/2017
12		Bass, Largemouth	NA	Natural	Juvenile	Unknown	30	0	Capture/Handle/Release Fish	Electrofishing, Backpack		N/A	4/10/2017	12/31/2017
13		Trout, Brook	NA	Natural	Juvenile	Unknown	60	0	Capture/Handle/Release Fish	Electrofishing, Backpack		N/A	4/10/2017	12/31/2017
14		Sucker, Warner	Range-wide (USFWS Threatened)	Natural	Juvenile	Unknown	20	0	Capture/Handle/Release Fish	Electrofishing, Backpack		N/A	4/10/2017	12/31/2017

Freshwater Location

Research Area: Pacific Ocean **State:** OR **Sub Basin (4th Field HUC):** Warner Lakes **Stream Name:** Honey Creek

Sale in Oregon of species taken: None

Location Description: Honey Creek sub-basin.

Take Information

Line	Ver	Species	Listing Unit/Stock	Production /Origin	Life Stage	Sex	Expected Take	Indirect Mort	Take Action	Observe /Collect Method	Procedure	Transport Record	Begin Date	End Date
1		Bullhead, Brown	NA	Natural	Juvenile	Unknown	30	0	Intentional (Directed) Mortality	Electrofishing, Backpack	Tissue sample (other internal tissues)	N/A	4/10/2017	12/31/2017
2		Dace, Speckled	NA	Natural	Juvenile	Unknown	30	0	Intentional (Directed) Mortality	Electrofishing, Backpack	Tissue sample (other internal tissues)	N/A	4/10/2017	12/31/2017
3		Chub, Tui	NA	Natural	Juvenile	Unknown	30	0	Intentional (Directed) Mortality	Electrofishing, Backpack	Tissue sample (other internal tissues)	N/A	4/10/2017	12/31/2017
4		Crappie, White	NA	Natural	Juvenile	Unknown	30	0	Intentional (Directed) Mortality	Electrofishing, Backpack	Tissue sample (other internal tissues)	N/A	4/10/2017	12/31/2017
5		Bass, Largemouth	NA	Natural	Juvenile	Unknown	30	0	Intentional (Directed) Mortality	Electrofishing, Backpack	Tissue sample (other internal tissues)	N/A	4/10/2017	12/31/2017
6		Trout, Brook	NA	Natural	Juvenile	Unknown	60	0	Intentional (Directed) Mortality	Electrofishing, Backpack	Tissue sample (other internal tissues)	N/A	4/10/2017	12/31/2017
7		Sucker, Warner	Range-wide (USFWS Threatened)	Natural	Juvenile	Unknown	20	0	Intentional (Directed) Mortality	Electrofishing, Backpack	Tissue sample (other internal tissues)	N/A	4/10/2017	12/31/2017
8		Bullhead, Brown	NA	Natural	Juvenile	Unknown	30	0	Capture/Handle/Release Fish	Electrofishing, Backpack		N/A	4/10/2017	12/31/2017
9		Dace, Speckled	NA	Natural	Juvenile	Unknown	30	0	Capture/Handle/Release Fish	Electrofishing, Backpack		N/A	4/10/2017	12/31/2017
10		Chub, Tui	NA	Natural	Juvenile	Unknown	30	0	Capture/Handle/Release Fish	Electrofishing, Backpack		N/A	4/10/2017	12/31/2017
11		Crappie, White	NA	Natural	Juvenile	Unknown	30	0	Capture/Handle/Release Fish	Electrofishing, Backpack		N/A	4/10/2017	12/31/2017
12		Bass, Largemouth	NA	Natural	Juvenile	Unknown	30	0	Capture/Handle/Release Fish	Electrofishing, Backpack		N/A	4/10/2017	12/31/2017
13		Trout, Brook	NA	Natural	Juvenile	Unknown	60	0	Capture/Handle/Release Fish	Electrofishing, Backpack		N/A	4/10/2017	12/31/2017

14	Sucker, Warner	Range-wide (USFWS Threatened)	Natural	Juvenile	Unknown	20	0	Capture/Handle/Release Fish	Electrofishing, Backpack		N/A	4/10/2017	12/31/2017
----	-------------------	-------------------------------------	---------	----------	---------	----	---	--------------------------------	-----------------------------	--	-----	-----------	------------

Freshwater Location

Research Area: Pacific Ocean State: OR Sub Basin (4th Field HUC): Clackamas Stream Name: Clear Creek

Sale in Oregon of species taken: None

Location Description: Clear Creek, a tributary of the Clackamas River

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		Trout, Cutthroat	Coastal	Natural	Juvenile	Unknown	10	0	Intentional (Directed) Mortality	Electrofishing, Backpack		N/A	N/A	4/10/2017	12/31/2017
2		Salmon, coho	Lower Columbia River (NMFS Threatened)	Natural	Juvenile	Unknown	20	0	Intentional (Directed) Mortality	Electrofishing, Backpack	Tissue sample (other internal tissues)	N/A	N/A	4/10/2017	12/31/2017
3		Trout, Cutthroat	Coastal	Natural	Juvenile	Unknown	10	0	Capture/Handle/Release Fish	Electrofishing, Backpack		N/A	N/A	4/10/2017	12/31/2017
4		Lamprey, Pacific	NA	Natural	Juvenile	Unknown	10	1	Capture/Handle/Release Fish	Electrofishing, Backpack		N/A	N/A	4/10/2017	12/31/2017
5		Steelhead	Lower Columbia River (NMFS Threatened)	Natural	Juvenile	Unknown	10	0	Capture/Handle/Release Fish	Electrofishing, Backpack		Winter	N/A	4/10/2017	12/31/2017
6		Salmon, coho	Lower Columbia River (NMFS Threatened)	Natural	Juvenile	Unknown	10	0	Capture/Handle/Release Fish	Electrofishing, Backpack		N/A	N/A	4/10/2017	12/31/2017
7		Lamprey, Western brook	NA	Natural	Unknown	Unknown	10	1	Capture/Handle/Release Fish	Electrofishing, Backpack		N/A	N/A	4/10/2017	12/31/2017
8		Sculpin (unknown)	NA	Natural	Unknown	Unknown	30	0	Capture/Handle/Release Fish	Electrofishing, Backpack		N/A	N/A	4/10/2017	12/31/2017
9		Dace, Speckled	NA	Natural	Unknown	Unknown	30	0	Capture/Handle/Release Fish	Electrofishing, Backpack		N/A	N/A	4/10/2017	12/31/2017

10		Dace, Speckled	NA	Natural	Unknown	Unknown	10	0	Intentional (Directed) Mortality	Electrofishing, Backpack	Tissue sample (other internal tissues)	N/A	N/A	4/10/2017	12/31/2017
11		Dace, Longnose	NA	Natural	Unknown	Unknown	30	0	Capture/Handle/Release Fish	Electrofishing, Backpack		N/A	N/A	4/10/2017	12/31/2017
12		Dace, Longnose	NA	Natural	Unknown	Unknown	10	0	Intentional (Directed) Mortality	Electrofishing, Backpack	Tissue sample (other internal tissues)	N/A	N/A	4/10/2017	12/31/2017
13		Pikeminnow, Northern	NA	Natural	Unknown	Unknown	30	0	Intentional (Directed) Mortality	Electrofishing, Backpack	Tissue sample (other internal tissues)	N/A	N/A	4/10/2017	12/31/2017
14		Pikeminnow, Northern	NA	Natural	Unknown	Unknown	30	0	Capture/Handle/Release Fish	Electrofishing, Backpack		N/A	N/A	4/10/2017	12/31/2017
15		Shiner (unknown)	NA	Natural	Unknown	Unknown	30	0	Capture/Handle/Release Fish	Electrofishing, Backpack		N/A	N/A	4/10/2017	12/31/2017
16		Shiner (unknown)	NA	Natural	Unknown	Unknown	10	0	Intentional (Directed) Mortality	Electrofishing, Backpack	Tissue sample (other internal tissues)	N/A	N/A	4/10/2017	12/31/2017
17		Sucker (unknown)	NA	Natural	Unknown	Unknown	30	0	Capture/Handle/Release Fish	Electrofishing, Backpack		N/A	N/A	4/10/2017	12/31/2017
18		Sucker (unknown)	NA	Natural	Unknown	Unknown	10	0	Intentional (Directed) Mortality	Electrofishing, Backpack	Tissue sample (other internal tissues)	N/A	N/A	4/10/2017	12/31/2017
19		Salmon, Chinook	Upper Willamette River (NMFS Threatened)	Natural	Juvenile	Unknown	10	0	Capture/Handle/Release Fish	Electrofishing, Backpack		Spring	N/A	4/10/2017	12/31/2017
20		Salmon, Chinook	Upper Willamette River (NMFS Threatened)	Natural	Juvenile	Unknown	10	0	Intentional (Directed) Mortality	Electrofishing, Backpack	Tissue sample (other internal tissues)	Spring	N/A	4/10/2017	12/31/2017
21		Salmon, Chinook	Upper Willamette River (NMFS Threatened)	Listed Hatchery Adipose Clip	Juvenile	Unknown	10	1	Capture/Handle/Release Fish	Electrofishing, Backpack		Spring	N/A	4/10/2017	12/31/2017

Freshwater Location

Research Area: Pacific Ocean State: OR Sub Basin (4th Field HUC): Middle Columbia-Hood Stream Name: Columbia at Bonneville Dam

Sale in Oregon of species taken: None

Location Description: Bonneville Dam adult and juveniled facility

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		Shad, American	NA	Natural	Adult	Unknown	200	0	Intentional (Directed) Mortality	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Tissue sample (other internal tissues)	N/A	N/A	4/10/2017	12/31/2017
2		Shad, American	NA	Natural	Juvenile	Unknown	200	0	Intentional (Directed) Mortality	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Tissue sample (other internal tissues)	N/A	N/A	4/10/2017	12/31/2017
3		Lamprey, Pacific	NA	Natural	Adult	Unknown	20	0	Intentional (Directed) Mortality	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Tissue sample (other internal tissues)	N/A	N/A	4/10/2017	12/31/2017
4		Salmon, Chinook	Mid-Columbia River spring-run	Unlisted Hatchery	Juvenile	Unknown	60	0	Intentional (Directed) Mortality	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Tissue sample (other internal tissues)	Spring	N/A	4/10/2017	12/31/2017
5		Salmon, Chinook	Mid-Columbia River spring-run	Unlisted Hatchery	Juvenile	Unknown	200	5	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	Spring	N/A	4/10/2017	12/31/2017
6		Salmon, Chinook	Mid-Columbia River spring-run	Unlisted Hatchery	Adult	Unknown	5	0	Intentional (Directed) Mortality	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Tissue sample (other internal tissues)	Spring	N/A	4/10/2017	12/31/2017

Freshwater Location

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

Sale in Oregon of species taken: None

Location Description: John Day Dam

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		Shad, American	NA	Natural	Adult	Male and Female	200	0	Intentional (Directed) Mortality	Hand and/or Dip Net	Tissue sample (other internal tissues)	N/A	N/A	4/10/2017	12/31/2017
2		Salmon, Chinook	Snake River fall-run (NMFS Threatened)	Natural	Juvenile	Unknown	10	0	Intentional (Directed) Mortality	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Tissue sample (other internal tissues)	Fall	N/A	4/10/2017	12/31/2017

Freshwater Location

Research Area: Pacific Ocean State: OR Sub Basin (4th Field HUC): North Santiam Stream Name: Horn Creek

Sale in Oregon of species taken: None

Location Description: Upstream of Marion Forks Hatchery

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		Steelhead	Upper Willamette River (NMFS Threatened)	Natural	Juvenile	Unknown	10	0	Intentional (Directed) Mortality	Electrofishing, Backpack	Tissue sample (other internal tissues)	Winter	N/A	4/10/2017	12/31/2017
2		Salmon, Chinook	Upper Willamette River (NMFS Threatened)	Natural	Juvenile	Unknown	10	0	Intentional (Directed) Mortality	Electrofishing, Backpack	Tissue sample (other internal tissues)	Spring/Summer	N/A	4/10/2017	12/31/2017
3		Trout, Brook	NA	Natural	Adult	Unknown	60	0	Intentional (Directed) Mortality	Electrofishing, Backpack	Tissue sample (other internal tissues)	N/A	N/A	4/10/2017	12/31/2017
4		Trout, Rainbow	NA	Natural	Juvenile	Unknown	20	0	Intentional (Directed) Mortality	Electrofishing, Backpack	Tissue sample (other internal tissues)	N/A	N/A	4/10/2017	12/31/2017

5		Trout, Cutthroat	Coastal	Natural	Juvenile	Unknown	10	0	Intentional (Directed) Mortality	Electrofishing, Backpack	Tissue sample (other internal tissues)	N/A	N/A	4/10/2017	12/31/2017
---	--	------------------	---------	---------	----------	---------	----	---	----------------------------------	--------------------------	--	-----	-----	-----------	------------

Freshwater Location

Research Area: Pacific Ocean **State:** OR **Sub Basin (4th Field HUC):** North Santiam **Stream Name:** Marion Creek

Sale in Oregon of species taken: None

Location Description: Upstream of Marion Forks Hatchery

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	Upper Willamette River (NMFS Threatened)	Natural	Juvenile	Unknown	10	0	Intentional (Directed) Mortality	Electrofishing, Backpack	Tissue sample (other internal tissues)	Spring/Summer	N/A	4/10/2017	12/31/2017
2		Steelhead	Upper Willamette River (NMFS Threatened)	Natural	Juvenile	Unknown	10	0	Intentional (Directed) Mortality	Electrofishing, Backpack	Tissue sample (other internal tissues)	Winter	N/A	4/10/2017	12/31/2017
3		Trout, Brook	NA	Natural	Adult	Unknown	60	0	Intentional (Directed) Mortality	Electrofishing, Backpack	Tissue sample (other internal tissues)	N/A	N/A	4/10/2017	12/31/2017
4		Trout, Rainbow	NA	Natural	Juvenile	Unknown	20	0	Intentional (Directed) Mortality	Electrofishing, Backpack	Tissue sample (other internal tissues)	N/A	N/A	4/10/2017	12/31/2017
5		Trout, Cutthroat	Coastal	Natural	Juvenile	Unknown	10	0	Intentional (Directed) Mortality	Electrofishing, Backpack	Tissue sample (other internal tissues)	N/A	N/A	4/10/2017	12/31/2017

Project Contacts

Primary Contact: Kenneth Lujan

Principal Investigator: Kenneth Lujan

Other Personnel:

Name	Role(s)
------	---------

Nicklaus Kyle Ackerman	Co-Investigator
Jerri Bartholomew	Co-Investigator
andrea bianco	Co-Investigator
Aaron Borisenko	Co-Investigator
William Brignon	Co-Investigator
Larry Caton	Co-Investigator
Gregory Coffeen	Co-Investigator
Kelly Dirksen	Co-Investigator
Mark Doulos	Co-Investigator
Rodney Engle	Co-Investigator
Derrek Marshall Faber	Co-Investigator
Susan Guttenberger	Co-Investigator
David Hand	Co-Investigator
Chris Hankin	Co-Investigator
Craig Andrew Haskell	Co-Investigator
Jeff Hogle	Co-Investigator
Shannon Hubler	Co-Investigator
Robert Hughes	Co-Investigator
Eric Johnson	Co-Investigator
Jeff Johnson	Co-Investigator
Steve Lee	Co-Investigator
Matt Lubejko	Co-Investigator
Rebecca Lyn McCoun	Co-Investigator
Spencer Meinzer	Co-Investigator
Michael Mulvey	Co-Investigator
Sonia Mumford	Co-Investigator
Mary Peters	Co-Investigator
Robert E Reagan	Co-Investigator
Leif Rinearson	Co-Investigator
Lawrence Schwabe	Co-Investigator
Philip C Simpson	Co-Investigator
shane smith	Co-Investigator
Laura Sprague	Co-Investigator

Richard Wesley Stocking	Co-Investigator
David Thompson	Co-Investigator
Joe Warren	Co-Investigator
Wayne Wilson	Co-Investigator

Collector Comments: There is a possibility of hiring summer help for the 2017 sampling year.

Attachments

Application Archive - P20755T14Issued.pdf (Added Apr 18, 2017)

Contact - Craig Andrew Haskell C12480T5Craig Haskell_Resume1.docx (Added Mar 15, 2011)

Contact - Craig Andrew Haskell C12480T5Curriculum Vitae.doc (Added Nov 17, 2008)

Contact - Gregory Coffeen C4608T5GregCoffeen_resume_jan08.pdf (Added Mar 4, 2011)

Contact - Gregory Coffeen C4608T5GregCoffeen_resume_March11.pdf (Added Oct 29, 2012)

Contact - Jeff Johnson C2223T5Johnson 2 page CV 2008.pdf (Added Oct 16, 2008)

Contact - Jerri Bartholomew C14217T5CV-Bartholomew.doc (Added Mar 15, 2011)

Contact - Larry Caton C1839T5Caton CV.doc (Added Dec 5, 2008)

Contact - Michael Mulvey C93T5Mulvey_RESUME_June2016.pdf (Added Jun 22, 2016)

Contact - Philip C Simpson C14888T5Simpson_resume.docx (Added Sep 21, 2015)

Contact - Robert Hughes C12246T5Hughes_RM.doc (Added Dec 21, 2009)

Contact - Robert Hughes C12246T5resume.2009.doc (Added Jun 11, 2009)

Contact - Shannon Hubler C13320T5Shannon Hubler_resume_Feb12.pdf (Added May 23, 2012)

Project Description - P14747T1NWFHS Lab Manual _4.0 Edition_Sept 2006 (rcd 7-30-07).pdf (Added Sep 9, 2016)

Status

Application Status: Application Complete

Date Submitted: September 30, 2016

Date Completed: April 18, 2017

Last Date Archived: April 18, 2017

• **State 4(d) coverage**

Current Status: Issued **Status Date:** March 22, 2017

Date State Approved: March 22, 2017

Expire Date: December 31, 2017

Analyst Information:

Claire McGrath Phone: (503)230-5433
Email: claire.mcgrath@noaa.gov

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

Invertebrates

Current Status: Issued **Status Date:** April 18, 2017

Date State Approved: April 18, 2017

Expire Date: December 31, 2017

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-Year End	01/01/2017	12/31/2017	12/31/2017	N/A	