



Washington
Department of
FISH and
WILDLIFE

WASHINGTON STATE

SCIENTIFIC COLLECTION PERMIT

Washington Department of Fish and Wildlife

Please see **SCIENTIFIC/EDUCATION COLLECTION PERMIT (SCP) INSTRUCTIONS**.
An Annual Report must be received before a renewal permit can be issued.
Applications and annual reports must be submitted via e-mail to scp@dfw.wa.gov.

If you have questions, please contact:

WDFW Licensing Division

Attn: SCP

PO Box 43154

Olympia, WA 98504-3154

Phone: (360) 902-2464, Option 4

E-mail: scp@dfw.wa.gov

Permit Number (WDFW Use Only): **CAUDILL 18-023a**

WHO:	1. APPLICANT INFORMATION				
	Name: Christopher C. Caudill	Agency: University of Idaho			
	Phone Number: (208) 301-0809	Mailing Address: 875 Perimeter Dr. MS 1136			
	E-mail: caudill@uidaho.edu	City: Moscow	State: ID		
		Zip Code: 83844-1136			
	2. SUB-PERMIT HOLDERS				
	NAME/PHONE NUMBER:		NAME/PHONE NUMBER:		
	Boggs, Charles / (208) 301-4045		Blubaugh, Timothy / (314) 397-6152		
	Naughton, George / (208) 596-9141		Brink, Grant / (541) 510-8400		
Hanchett, Sarah / (541) 653-6133		Hubbard, Noah / (971) 226-1366			
Hanks, Michael / (509) 774-9533		Breanna Graves / (509) 481-7516			
3. THIS APPLICATION IS:					
<input type="checkbox"/> New		<input type="checkbox"/> Renewal of last year's Permit #			
<input type="checkbox"/> Amendment to Permit # <u>Caudill 18-023</u>					
4. PURPOSE OF COLLECTION OR HANDLING					
<input type="checkbox"/> Instruction/Education Display					
<input checked="" type="checkbox"/> Research/Scientific Investigation (includes ELECTROFISHING)					
<input type="checkbox"/> Salvage (deceased animals only)					
<input type="checkbox"/> Fish Rescue/Relocation					
5. RESEARCH OBJECTIVES					
<input type="checkbox"/> Aging		<input checked="" type="checkbox"/> Behavior	<input checked="" type="checkbox"/> Physiology	<input type="checkbox"/> Artificial Propagation	
<input type="checkbox"/> Census		<input type="checkbox"/> Presence/Absence	<input type="checkbox"/> Population Distribution	<input type="checkbox"/> Life History	
<input type="checkbox"/> Pathology		<input checked="" type="checkbox"/> Genetic	<input type="checkbox"/> Stream Typing		
<input type="checkbox"/> Other					
WHEN:	6. PERMIT TIMELINE*:				
	Project Start Date: 1 May 2018		Project End Date: 31 October 2018		
	Permit Expiration Date (WDFW Use Only): 10/31/2018		*SCPs are valid for a maximum of 12 months.		

WHAT:	7. TYPE OF ANIMALS TO BE COLLECTED OR HANDLED			
	<input type="checkbox"/> Wildlife*	<input checked="" type="checkbox"/> Fish	<input type="checkbox"/> Aquatic Invertebrates – specify:	<input type="checkbox"/> Marine <input type="checkbox"/> Freshwater
	*Amphibians and terrestrial invertebrates – please check Wildlife			
	8. SPECIFIC TYPE(S)			
	Wildlife	Fish		
<input type="checkbox"/> Non-Raptor Birds	<input type="checkbox"/> Marine Fishes	<input type="checkbox"/> State and/or Federal Threatened or		
<input type="checkbox"/> Raptors	<input checked="" type="checkbox"/> Freshwater Fishes	Endangered Species		
<input type="checkbox"/> Mammals	Detail:			
<input type="checkbox"/> Bats				
<input type="checkbox"/> Terrestrial Invertebrates				
<input type="checkbox"/> Reptiles/Amphibians				
9. COLLECTION INFORMATION				
Species Requested – Both Common & Scientific names are required.		Specific Location & County Stream Section for Fish County must be included	Max # of Lethal Take or Live Permanent Removal	Max # of Non-lethal Take or Salvage
Pacific lamprey (<i>Entosphenus tridentatus</i>)		Bonneville Dam, Skamania County	0	1530
Proposed sampling and release strategy: a) 600 radio-tag (RT) + Half-duplex PIT tag (HDX) - released < BON (½ at Tanner Cr. (OR) and ½ at Hamilton Is. boat ramp (WA)). b) 500 HDX tag only - released < BON (½ at Tanner Cr. (OR) and ½ at Hamilton Island boat ramp (WA)). c) 100 HDX tag + Full-duplex PIT tag (FDX) - released < BON (½ at Tanner Cr. (OR) and ½ at Hamilton Is. boat ramp (WA)). d) 300 HDX only (from BON AFF flume trials (100 prototype ramp + 200 exercise trials) – released > BON at Stevenson boat ramp. e) 15 Accelerometer RT Tags + HDX – released to the BON WA shore fishway at the AFF. f) 15 Accelerometer RT Tags + FDX – released to the BON WA shore fishway at the AFF. g) We propose to transport any tagged lampreys recaptured at Bonneville Dam after their release to the Stevenson boat ramp. h) We propose to collect and archive genetic fin clip samples (3 x 3 mm).				

HOW:	10. METHODS OF COLLECTION			
	<input type="checkbox"/> Firearms are being used for this collection.			
	Lethal Methods: n/a	Species: n/a		
	Non-lethal Methods: Fish will be collected in a similar location in the Bonneville Dam AFF as in previous years but we propose to use a new Lamprey Passage System (LPS)-style trap that being installed by USACE spring 2018. Funnel traps (~0.3 m x 1.2 m) may be deployed overnight at other fishway locations inaccessible to adult salmonids for collection of lamprey and/or adults may be collected from existing LPS structures at Bonneville Dam in the event the new AFF trap or other LPS structures prove ineffective. Once collected, fish will be anesthetized, measured, and weighed. No fish will be held for longer than 48 hours. Re-captured fish will be released into the Columbia River at Stevenson, WA. We expect little to no mortality from the marking and release operations.	Species: Pacific Lamprey		
	Salvage Methods: n/a	Species: n/a		
	Body-gripping traps: <input type="checkbox"/> Padded Foot-hold <input type="checkbox"/> Non-strangling type Foot Snare	Species: n/a		
	Electrofishing: <input type="checkbox"/> Backpack <input type="checkbox"/> Boat	Species: n/a		

11. MARKING	
<input type="checkbox"/> Band <input type="checkbox"/> Mark <input checked="" type="checkbox"/> Other: PIT tags	
<input checked="" type="checkbox"/> Fit with radio/acoustic telemetry transmitters: Max # of Transmitters 630 Radio Frequencies/Tag Codes: 167.46 – 167.68 MHz; Accelerometer Tags = 167.560 MHz.	
12. DISPOSITION OF SPECIMENS	
<input type="checkbox"/> Display Permanent – Dead <input type="checkbox"/> Display Temporary - Dead	
<input type="checkbox"/> Display Permanent – Live <input type="checkbox"/> Display Temporary – Live	
<input type="checkbox"/> Tissue sampling	
<input checked="" type="checkbox"/> Laboratory use	
<input type="checkbox"/> Live Housing Research of Laboratory use – Permanent	
<input checked="" type="checkbox"/> Live Housing Research of Laboratory use – Temporary	
<input type="checkbox"/> Immediate Release at Capture Site	
<input checked="" type="checkbox"/> Relocated to Wild (additional permits may be required; wildlife may not be captured and relocated without a permit)	
<input type="checkbox"/> Carcass disposal at site <input type="checkbox"/> Display Temporary – Dead	
<input type="checkbox"/> Euthanize	
<input checked="" type="checkbox"/> Other: Any incidental lamprey mortalities will be returned to the Columbia River near Bonneville Dam.	

GENERAL PERMIT CONDITIONS:

1. A Scientific Collection Permit is non-transferable.
2. A copy of this permit must be in the possession of any person exercising the privileges authorized by this permit.
3. The Permit Holder is responsible for ensuring that all Sub-Permit Holders are qualified and experienced to conduct the specified activities, including collection by firearms and comply with all conditions of this permit. Only those Sub-Permit Holder(s) listed on the permit are authorized to engage in permitted activities.
4. Please note that compliance with Scientific Collection Permit requirements and permit conditions does not ensure compliance with federal, local, or other state laws. Collection of state or federal endangered or threatened species, state sensitive species, or state or federal candidate species is prohibited unless specifically authorized in this permit. Collection of game birds or game animals is prohibited unless specifically authorized in this permit. Collection of migratory birds, marine mammals, and any species listed under the federal Endangered Species Act may require a federal permit before collecting.
 For any collection/research activity of marine mammals and/or federally-protected anadromous and marine fish species, etc., contact NOAA-National Marine Fisheries Service at <http://www.nmfs.noaa.gov/endangered.htm> or 503-230-5400. For any collection/research activity of migratory birds, resident fish species (Bull Trout) and/or federally-protected wildlife, contact U.S. Fish and Wildlife Service at <http://endangered.fws.gov> or 360-753-9440.
5. This permit does not authorize collection from **non-WDFW** protected lands or waters (may include but not exclusive to: parks, reserves, refuges, natural areas, conservation areas, tribal lands, monuments, etc.). This permit does not authorize trespassing on private or restricted public lands. Additional permits issued by other state and local agencies, tribal governments, or landowners/managers may be required.
6. No collection shall occur in WDFW Marine Preserves or Conservation Areas (see <http://wdfw.wa.gov/fishing/mpa>), or Wildlife Areas unless permission is obtained from the Area manager. Contact the appropriate WDFW Regional Office for information. Regional office information is listed at <http://wdfw.wa.gov/about/regions>.
7. Specimens acquired under this permit remain the property of the state and will not be offered for sale or sold or used for commercial purposes or human consumption. Exchange or transfer of specimens, unless otherwise specified in this permit, requires prior written approval from the Director of WDFW.
8. Employees of WDFW have the right to inspect the collection activities authorized by this permit.
9. Vessels engaged in collection activities shall display a sign "RESEARCH," readable at 100 feet to unaided vision.
10. Permit Holders using unattended equipment must have attached to that equipment, a tag clearly marked with the permit number and name and current address of the Permit Holder. The address used may be that of the organization the Permit Holder represents, e.g., university, company, or corporation.

11. Permit holders may only use FDA approved fish anesthesia.
 - a) **MS-222** may not be used at times and in places where fish may be subject to "catch and keep" 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.
 - i. 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 about aquatic animal drugs, AQUI-S® 20E, or to apply to participate in USFWS-AADAP INAD 11-741 go to www.fws.gov/fisheries/aadap or contact the USFWS-AADAP INAD Administrator Bonnie Johnson at Bonnie.Johnston@fws.gov or 406-994-9905).
 - d) Carbon dioxide can be used as a fish anesthetic as per FDA rules and requires no withdrawal time;
 - e) As alternative to chemicals, electro-anesthesia can be used as a fish anesthetic and requires no withdrawal time.
12. Unless otherwise specified in this permit, release of specimens is allowed only at the exact capture site immediately after capture. Release of fish and marine and freshwater invertebrates at any other site or time requires a transport, release, or planting permit. Relocating wildlife and releasing wildlife other than at the location of capture requires a special permit. The conditions of this permit may specify that no release of certain specimens is allowed. Contact WDFW Fish Program (360-902-2700) or Wildlife Program (360-902-2515) for further information.
13. Temporary holding of wildlife is permitted for identification only. Individuals must be released at site of capture, unless they exhibit evidence of disease.
14. At least 72 hours prior to initiating collection activities, the permit holder shall notify the Regional Wildlife Program Manager with the specific collection locations, dates, and times. (See the attached list of WDFW contacts and phone numbers.)
15. Wildlife Salvage — Notify the WDFW immediately if any State or Federally listed Threatened or Endangered species are encountered or salvaged and any salvaged State or Federal Threatened or Endangered Species must go to a major research collection such as WSU Conner Museum, University of Puget Sound Slater Museum of natural History, or UW Seattle Burke Museum, or as directed by the WDFW.

Reporting Requirements:

Permit renewal is contingent upon submission of a complete Annual Report. Reports must be submitted to WDFW upon completion of the display, education, or research project or the expiration date of the permit, whichever comes first, and must be received no later than 60 days after the expiration of the permit. All reports submitted to WDFW shall include Permit Holder's name and permit number and all required information on the Annual Report Form.

For **anadromous fish and freshwater collections**, the report shall include the 1) Date of collection; 2) Species name (for invertebrates, to the lowest taxonomic level possible); 3) Numbers of each species encountered and/or retained; 4) Location of each sample site, including county, water body, and latitude/longitude or GPS coordinates; 5) Disposition of specimens. This information is to be recorded at each capture site and includes ALL species encountered (or impacted by the collection activity) even if not retained or meant for the study

For **marine collections**, the report shall include the 1) Date of collection; 2) Species name (to the lowest taxonomic level possible); 3) Numbers of each species encountered and/or retained; 4) Location of each sample site, including county, water body, and latitude/longitude or GPS coordinates; 5) Disposition of specimens. This information is to be recorded at each capture site and includes ALL classified and unclassified species encountered (or impacted by the collection activity) even if not retained or meant for the study.

IN ADDITION for:

- i. **Rock scallops** (*Crassadoma gigantea*) include: specific location, mortality of any rock scallop during collection, exact position and depth of specimens collected, and shell length measured from edge to edge at the widest part of the shell.
- ii. **Octopus** (*Enteroctopus dofleini*) include: specific location, individual weight, depth, and sex of octopus taken.

For **wildlife collections**, the annual report shall include all categories on the Annual Report Form including the 1) Date of collection; 2) Species name (common and scientific) with numbers collected, numbers released, and disposition of individuals; 3) Location of collection including GPS coordinates, number of accidental mortalities.

SPECIAL CONDITIONS:

To prevent the spreading of aquatic invasive species, permit holder shall follow the procedures in the attachment, WDFW Protocols for Field Work Version 2 dated November 2012 (or the latest version of this document). For additional information on aquatic invasive species, please visit the WDFW website at <http://wdfw.wa.gov/ais/>.

Aquatic Invasive Species (AIS) Conditions:

Permit holder is required to humanely euthanize all collected aquatic invasive species (AIS) classified as "Prohibited aquatic animal species" under WAC 220-12-090 except as noted below for transport purposes. Collection of all Prohibited level 1 species¹ must be reported immediately to WDFW with photos of the species and specimens saved until provided to WDFW or directed to dispose. All other prohibited AIS must be euthanized before being removed from the immediate vicinity of the water body where collected and then disposed of in a public landfill system or chemically preserved. Collection and disposal of all other prohibited AIS must be included in a report submitted to WDFW within 30 days using the online reporting form noted below.

Permit holder may transport live prohibited AIS outside the immediate vicinity of the water body where collected only under the following conditions:

1. Transport to nearest WDFW regional office or headquarters for purpose of identification; AND
2. Transported in a secure container to prevent release of either the AIS or any associated water, plant, sediment, animal, or other materials; OR
3. Transported as authorized by a separate WDFW AIS Permit secured prior to collection.

Contact information:

WDFW Headquarters: 360-902-2700 and request Aquatic Invasive Species Unit Staff

Online reporting form: www.wdfw.wa.gov/ais/reporting

Toll-free: 888-933-9247

¹ Includes: Zebra mussels (*Dreissena polymorpha*), quagga mussels (*Dreissena rostriformis bugensis*), European green crab (*Carcinus maenas*), and all members of the genus Eriocheir (including Chinese mitten crabs), all members of the walking catfish family (Clariidae), all members of the snakehead family (Channidae), silver carp (*Hypophthalmichthys molitrix*), largescale silver carp (*Hypophthalmichthys harmandi*), black carp (*Mylopharyngodon piceus*), and bighead carp (*Hypophthalmichthys nobilis*).

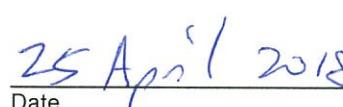
By signing below, the permittee agrees to abide by the conditions set forth in the Scientific Collections Permit issued by the Washington Department of Fish and Wildlife. Permittee agrees to all of the conditions outlined in WAC 220-20-045 and RCW 77.32.240. I also certify that if **firearms** are being used for collection under this permit all persons who will use firearms are legally capable of possessing firearms (per WAC 220-20-045(3)(e)).

An Annual Report must be submitted before renewal of next year's permit is granted. Under **RCW 77.15.660**, a violation of the terms or conditions of the scientific permit or any WDFW rule applicable to the issuance or use of the permit is a gross misdemeanor if the violation involves big game or big-game parts. It is also a gross misdemeanor under **RCW 77.15.660** to purchase or sell big game or big-game parts that were taken or acquired with a scientific permit. Under **RCW 77.15.160**, a violation involving anything other than big game or big-game parts is an infraction.

This permit is not valid until signed by the permit holder and the WDFW Representative.



Signature of Permit Holder



25 April 2018
Date



Signature of WDFW Representative

4/26/2018
Date

THIS PERMIT MAY BE REVOKED OR MODIFIED AT THE DISCRETION OF THE DIRECTOR OR THE DIRECTOR'S DESIGNEE.