FIELD GUIDE TO THE PACIFIC SALMON (ADOPT-A-STREAM FOUNDATION) pdf

1: Books About Salmon - Monterey Bay Salmon and Trout Project

This informative field guide allows the reader to become familiar with the seven species of Pacific salmon and their habitats. It traces the life cycle of the salmon in their epic journey from stream to ocean and home again, and shows how pollution and human encroachment threaten the existence of.

Students will be able to describe: They will also be able to describe: We all live in a watershed. It is often difficult for students to perceive that their activities have an impact on the places where they live. From rural surface water systems to city water and sewers, students should explore their use of water as part of watershed studies. Because we tend to settle along water bodies, human impacts can be greater than we might think. While industry must have clean waters to function, and regulations exist to assure that point source pollution is in check, often our individual impacts go unnoticed. These cumulative impacts of humans on waters and watersheds are usually from what is called non-point sources. These are general, everyday sources of pollution that can affect the health of watersheds. An improperly installed sewage system can back up and affect the quality of drinking water in a village. Pet owners walking their dogs along lake shores can lead to closure to swimming. Cat litter discarded along beaches or into streams can spread disease in wildlife. Changing oil in the driveway or spreading waste oil to contain dust on roads can pollute drinking water in an aquifer. The over application of fertilizers on lawns near lakes can lead to explosive growth of water plants and eutrophication the process by which a body of water becomes enriched in dissolved nutrients that stimulate the growth of aquatic plant life usually resulting in the depletion of dissolved oxygen. Questions For Discussion 1. How does habitat loss relate to the decline of salmon? Most biologists agree that loss of habitat is a primary reason for the decline of salmon populations in the Pacific Northwest. In Alaska, the fact that our salmon habitat remains healthy is a primary reason that virtually all of our salmon runs are healthy, year after year. How will climate change affect salmon habitat? Scientists do not know. It is safe to say that there will be changes in salmon populations and production due to climate change, but it is likely that some populations will decline and others increase in number. Remember that salmon are adaptable to some change, but they cannot change their basic habitat needs. For example, as ocean temperatures warm, all Pacific salmon require more feed to grow. Accordingly, salmon retreat from warmer waters and become more tightly packed and dependent upon the forage resources of the North Pacific. This could strain ocean food resources, leading to fish that spawn later and are smaller in size. The map caption on p. Ideas for Activities 1. Ask students to look at stream habitat near their school and decide which salmonid species this system is likely to support. They can refer to pp. Assign individuals or a group of students to gather more information about the major salmon producing areas listed on p. Where does their community fit in? See, among other references: Have students compile oral histories for possible indications of climate change in their community. Are local glaciers melting rapidly? Have weather patterns changed in recent decades? Are new or exotic species of fish being caught in local fisheries? Have any stocks of salmon disappeared from local streams? Students could use the world wide web to see if projected global climate trends relate to specifics of local observations or predictions for local changes. Begin a long-term stream monitoring and habitat assessment project in a local watershed. Plan for it to be maintained annually by subsequent classes. It contains detailed information on watersheds, physical characteristics of streams, water quality, underwater invertebrates, and ways to collect and present data. These ENRI protocols are written to establish guidelines for the sampling of benthic macroinvertebrates by students. Their use allows teachers to create long-term water quality projects in schools. The Stream Conservation Handbook. General Publishing Company, Ltd. A sourcebook for ideas on how to help and heal damaged waterways. Fish Habitat in Alaska â€" Appendix B of this guide. Student handbook to go with the ENRI protocols on stream monitoring described in the preceding section. An award-winning computer game that runs on both Mac and disc systems. See Alaska in Maps: A Thematic Atlas, produced for Alaska schools, for maps of watersheds, and graphs showing salmon harvests by region. Copies of this book are available in many

classrooms and in most Alaska school libraries. The five qualities are listed in the second paragraph on p.

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2: Macroinvertebrate & Water Quality Resources

Fulfillment by Amazon (FBA) is a service we offer sellers that lets them store their products in Amazon's fulfillment centers, and we directly pack, ship, and provide customer service for these products.

Stanwood HS agriculture students stopped pollution going into Church Creek, Bothell HS students created salmon costumes that they used to to teach elementary school kids about the life cycle of salmon, and Scouting groups restored stream banks. In , a group of community leaders joined in the effort to turn the Adopt A Stream Program into a private non-profit that would not have any geographic boundaries. AASF also secured funding to publish a book on the process. That year also marked a major transition point. AASF received funding from the Washington State Department of Ecology to develop standardized watershed inventory and stream monitoring procedures for volunteers, and to conduct a series of training programs state-wide. Watershed Inventory and Stream Monitoring Methods. First published in , that book is considered by many in the country to be the best publication available on that topic today. We expanded our efforts beyond environmental education into the stream and wetland restoration arena. After removing several barriers to fish migration and installing log fish habitat structures in streams, AASF jumped into a major project: We also restored 5-acres of wetlands from a golf course at what is now the Trafton Trailhead to the While Horse Trail along the Stillaguamish River. At the end of the decade, after several years of being vagabonds in donated office space, AASF found a more permanent home. Landowners were offered cash in exchange for keeping riparian lands in natural condition in perpetuity. Bridges were installed to replace culverts, fish ladders constructed, new log and stump fish habitat created, streambanks stablilized, and many stream side lawns replaced with native plant landscapes. Thanks to the great programs, audiences have gotten larger. Now, we are averaging students a year who learn about the habits and habitat requirements of fish and wildlife in the Pacific Northwest and how to become stewards of their watersheds. At the end of June the last of over 50, screws were installed in over deck boards of the Elevated Nature Trail and in July, the County Inspector said it was the best boardwalk that he had ever seen! The Northwest Stream Center is projected to open to the public during the summer of In , unique Interpretive signs were produced and installed along the route that will teach you about Northwest ecology. This property borders the eastern edge of the Northwest Stream Center. Check out our calendar for upcoming events! Become part of the team!

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3: Welcome to Orca Network - Salmon Books

Adopt-a-Stream Foundation is the author of Field Guide to the Pacific Salmon (avg rating, 7 ratings, 1 review, published).

Our members include business representatives, community leaders, scientists, and resource managers. AASF is expanding its presence in environmental education and stream restoration. We are also developing the NW Stream Center. The Board of Directors is actively recruiting new members to help with expansion efforts. Please contact our Executive Director for more information by calling and fill out an application form. He has conducted surveys of the majority of the streams in western Snohomish County. Tom is a certified diver PADI and, when not using an electro-shocker, he occasionally frees seines from logs and boulders in the middle of rivers during fish exclusion activities. He earned an M. He is also a licensed pilot FAA Certification and accomplished in aerial photography focusing on stream and wetland ecology. Before joining the Adopt A Stream team initially as a student intern, Walter performed a wide spectrum of volunteer work that provided him training and experience in the following: He is skilled at conducting scientific research collecting and identifying fish and experienced at collecting tissue samples for DNA analysis. During his twelve years with the Adopt A Steam Foundation, Walter has become adept with on-the-ground restoration techniques required for bank stabilization projects, riparian restoration, fish barrier removal, and in-stream fish habitat construction. From Maine, he traveled to South Carolina working as a specialist in invasive plant management, to New Hampshire where he interned with the U. Forest Service constructing in-stream log fish habitat and conducting fish surveys. Next, Kyle served as a team member with Cape Cod AmeriCorps as an environmental educator for schools and community groups. Kyle joined our Stream Team in bringing to us extensive experience in: In his spare time, he can be found exploring the great outdoors, hiking in the Cascades and taking professional photographs along the way. Many of her undergraduate endeavors focused on avian ecology, such as studying tidal effects on seabird species abundance in the San Juan Channel and working for environmental nonprofits such as the Audubon Society. In these roles, she gained valuable skills for restoration work, such as coordinating with landowners and volunteers. During graduate school, Jasmine became interested in wetland science and spent a summer monitoring wetland mitigation sites with WSDOT. While finishing her graduate studies, she went on to obtain a Wetland Science and Management Certificate from University of Washington and started working in consulting as a wetland biologist. In her consulting role she managed projects, conducted fieldwork, and was involved in project permitting from project beginning to completion. Jasmine enjoys restoration projects and hopes her background will help guide future stream and wetland restoration efforts during her time at AASF. He is excellent at interacting with landowners. He can put a homeowner at ease and turns complex ecological concepts into accessible concrete examples. John has years of restoration and forestry experience. He has a Class B commercial drivers license, extensive experience working with all types of hand and power tools including gas, air, and hydraulic based tools , and experience working with heavy equipment, helicopters, and explosives. John has expertise in stream survey including the WDFW fish Barrier Assessment Protocol and in-stream and on slope structure placement; and extensive experience using traps, seines and electro-shockers to conduct fish surveys. He did restoration planting, invasive species removal, and fencing projects. Croix for 30 days as part of disaster response to help with the aftermath of Hurricane Maria where he made assessments of damaged houses, saw and debris removal, along with muk and gutting. Nick joined our Stream Team on a full time basis in as a technician. In , Kelly, who is also a Docent Naturalist at the Northwest Stream Center, joined the Adopt A Stream Foundation with a focus on providing membership services; website support; Streamkeeper Academy, stream restoration, and Nature Store event promotions; general administration support; and on occasion helps out with stream restoration projects. She has 30 years experience serving as an accountant with large and small businesses. Margo developed an affinity with nature while volunteering with the Missouri Wildlife Rehabilitation Center before

settling in the Pacific Northwest and joining the Adopt A Stream Foundation in In addition to keeping the foundations financial records, Margo has become a key member of Streamkeeper Academy. She has 26 years of project and managerial accounting experience. Lori utilizes a variety of software tools including desktop publishing, database and spreadsheet management. Contract Associates Doug Beyerlein P. Doug has held positions in the public and private sector and helped develop the surface water management program for Snohomish County. His responsibilities have included watershed planning, streamflow and water quality monitoring, lake management, public education, flood control planning, development of county drainage code, and compliance with state and federal water quality laws. He has provided consulting services to U. Environmental Protection Agency, U. Bureau of Reclamation, U. As the owner of Chinook Engineering, Jay provides civil, mechanical, structural and environmental engineering services to state and federal agencies, private non-profit groups, Indian tribes, and private developers in the Pacific Northwest and Alaska. He has a B. He is also experienced in preparing fisheries studies and conducting biological analyses for fisheries enhancement programs. Become part of the team!

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4: Adopt-a-Stream Foundation (Author of Field Guide to the Pacific Salmon)

Find great deals for Field Guides: Field Guide to the Pacific Salmon: Including Salmon-Watching Sites in Alaska, British Columbia, Washington, Oregon, and Northern California by Adopt-A-Stream Foundation Staff (, Paperback).

Valentine and Nick Lyons. Lyons Press, Clarke, W. Physiological Ecology of Pacific Salmon. University of British Columbia, Cole, Joanna, et al. Magic School Bus Goes Upstream: Salmon and Society in the Pacific Northwest. National Academy Press, Endangered Salmon and the People of the Pacific Northwest. Oregon State University Press, Suitable for Children Groot, G. Return to the River: Washington Sea Grant Program, Roche, Judith and Meg McHutchison, eds. First Fish, First People: Salmon Tales of the North Pacific Rim. University of Washington Press, Natural History, Exploitation and Future Management. John Wiley and Sons, Coho Salmon and Steeelhead The MBSTP operates a genetic conservation hatchery and rearing facility to supplement natural production which has been reduced due to habitat degradation and drought. A native coho captive brood-stock is being used to re-establish dwindling coho populations. The Steelhead production is done to ensure good returns, especially when river rearing conditions are bad. The MBSTP spawned and reared fish are of the local wild genotype, and every effort is made to maximize genetic diversity. To support STEP, we offer an immersive 2-day streamside training annually and provide classroom and field support. Results include increased science knowledge in teachers, and skill in conducting meaningful science field studies with students. Students increase their knowledge of anadromous fish, learn the threats to survival, and develop stewardship values of the species and their environment. Periodically, trainings are offered to area docents and volunteers. The program is funded by grants and community donations. To find out more or donate, please visit our Education page. The Program enhances salmon fishing in the Monterey Bay area. Thousands of mature King salmon from this Program are caught by anglers annually. A coded wire tag study has been collecting data on the net-pen reared fish. Funding Needed Grant funding from the Fisheries Restoration Grant Program helps pay for the Coho Program but a State law prevents these funds from being spent on hatchery repair, maintenance, upgrade and expansion. The steelhead and program is funded entirely by donations.

5: Library | Resource Assistance for Rural Environments

Adopt-A-Stream Foundation and Robert Steelquist. Field Guide to the Pacific Salmon (Adopt-A-Stream Foundation). Sasquatch Books,

6: Our History â€“ Adopt A Stream Foundation

Adventure Gift Guide Your Source and Inspiration for Books, Music, & Movies Come back each month to discover new genres and titles through the Alibris seasonal guide.

7: Stream Team â€“ Adopt A Stream Foundation

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8: salmon | books tagged salmon | LibraryThing

Books for Teachers and Students Adopt-a-Stream Foundation's Field Guide to the Pacific Salmon, Robert Steelquist;

FIELD GUIDE TO THE PACIFIC SALMON (ADOPT-A-STREAM FOUNDATION) pdf

Seattle: Sasquatch Books, , 64 pp. - very easy to read, excellent beginning resource.

9: Alaska's Wild Salmon Teacherâ€™s Guide

Water quality monitoring internship with the Adopt-A-Stream Foundation by Joseph Sarr (Book) Most widely held works by Adopt-A-Stream Foundation Field guide to the Pacific salmon by Robert Steelquist (Book).

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