Marine Fisheries REVIEW

W. L. Hobart, Editor J. A. Strader, Managing Editor



Adult salmon at the Lower Granite Dam adult trap, Snake River, in 2010. Photo: Benjamin Sandford, NOAA/NMFS/NWFSC.



80(2), 2018

Articles

The Distribution of Fishing Revenues Among North Pacific Regions and Communities

Exempted Testing of Deep-Set Buoy Gear and Concurrent Research Trials on Swordfish, *Xiphias gladius*, in the Southern California Bight

A History of Research to Develop Guidance Systems to Divert Juvenile Salmonids, *Oncorhynchus* spp., from Turbines at Federal Hydroelectric Dams on the Mainstem Columbia and Snake Rivers, U.S.A. Christopher M. Anderson, Jennifer Meredith, Ronald G. Felthoven, and Michael Fey 1

Chugey Sepulveda and Scott A. Aalbers 17

John G. Williams and Michael H. Gessel 30

U.S. DEPARTMENT OF COMMERCE

Wilbur L. Ross Secretary of Commerce

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

RDML Tim Gallaudet, Ph.D., USN Ret. Acting Under Secretary for Oceans and Atmosphere

National Marine Fisheries Service Chris Oliver Assistant Administrator for Fisheries

The Marine Fisheries Review (ISSN 0090-1830) is published quarterly by the Scientific Publications Office, National Marine Fisheries Service, NOAA, 7600 Sand Point Way N.E., Seattle, WA 98115. Annual subscriptions are sold by the Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402. The annual subscription price is \$25.00 domestic, \$35.00 foreign. Single copies are \$9.50 domestic, \$13.30 foreign. New subscriptions may be purchased online at http://bookstore.gpo.gov/ products/sku/703-028-00000-4 or by mail at U.S. Government Printing Office, P.O. Box 979050, St. Louis, MO 63197-9000.

Although the contents of this publication have not been copyrighted and may be reprinted entirely, reference to source is appreciated.

Publication of material from sources outside the NMFS is not an endorsement, and the NMFS is not responsible for the accuracy of facts, views, or opinions of the sources. The Secretary of Commerce has determined that the publication of this periodical is necessary for the transaction of public business required by law of this Department. Use of the funds for printing this periodical has been approved by the Director of the Office of Management and Budget.

The NMFS does not approve, recommend, or endorse any proprietary product or proprietary material mentioned in this publication. No reference shall be made to the NMFS, or to this publication furnished by the NMFS, in any advertising or sales promotion which would indicate or imply that the NMFS approves, recommends, or endorses any proprietary product or proprietary material mentioned herein, or which has as its purpose an intent to cause directly or indirectly the advertised product to be used or purchased because of this NMFS publication. This issue, volume 80 number 2, was printed and distributed in December 2018.

This publication is available online at http://spo.nmfs.noaa.gov