

295 | 12 | 2  
Views | CrossRef citations to date | Altmetric

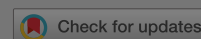
ARTICLE

# Do Water Level Fluctuations Influence Production of Walleye and Yellow Perch Young-of-the-Year in Large Northern Lakes?

James H. Larson , David F. Staples, Ryan P. Maki, Jon M. Vallazza, Brent C. Knights & Kevin E. Peterson

Pages 1425-1436 | Received 19 Aug 2015, Accepted 15 Jul 2016, Published online: 10 Nov 2016

Cite this article <https://doi.org/10.1080/02755947.2016.1214645>



Sample our  
Economics, Finance,  
Business & Industry Journals  
>> [Sign in here](#) to start your access  
to the latest two volumes for 14 days

Full Article Figures & data References Supplemental Citations Metrics

Reprints & Permissions

Read this article

## Abstract

### We Care About Your Privacy

We and our 845 partners store and/or access information on a device, such as unique IDs in cookies to process personal data. You may accept or manage your choices by clicking below, including your right to object where legitimate interest is used, or at any time in the privacy policy page. These choices will be signaled to our partners and will not affect browsing data. [Privacy Policy](#)

We and our partners process data to provide:

Use precise geolocation data. Actively scan device characteristics for identification. Store and/or access information on a device. Personalised advertising and content, advertising and content measurement, audience research and services development.

[List of Partners \(vendors\)](#)

I Accept

Essential Only

Show Purpose



lake did also. We used partial least-squares regression to assess whether WL metrics were associated with variation in age-0 Walleye and Yellow Perch abundances, but WL metrics were seldom associated with age-0 abundance for either species. Our analysis suggested a potential influence of WL regulation on age-0 Walleye abundance, but we found no evidence that early spring access to spawning shoals was the mechanism by which this occurred.

Received August 19, 2015; accepted July 15, 2016 Published online November 10, 2016

## ACKNOWLEDGMENTS

Any use of trade, product, or firm names is for descriptive purposes only and does not imply endorsement by the U.S. Government. We thank J. C. Nelson for assistance in creating [Figure 2](#) and Robert Kratt for assistance in creating [Figure 1](#).

Related Research Data

The effects of water-level manipulation on the benthic invertebrates of a managed reservoir

Source: Wiley

Preference of Rock Bass (*Ambloplites rupestris*) for Spawning Habitat

Source: Wiley

An experimental evaluation of the effects of water level manipulation on the benthic invertebrates of a managed reservoir

Source: Wiley

Effect of water level manipulation on the benthic invertebrates of a managed reservoir in northern Finland


Source: Wiley

Spawning habitat selection by yellow perch (*Perca flavescens*) in a managed reservoir

Source: Wiley

Partitioning the effects of water level manipulation on the benthic invertebrates of a managed reservoir

Source: Wiley



WILEY

DISCOVER SOMETHING GREAT

Quantity, Structure, and Habitat Selection of Natural Spawning Reefs by Walleyes in a North Temperate Lake: A Multiscale Analysis

Source: Wiley

Influence of wind, wave, and water level dynamics on walleye eggs in a north temperate lake

Source: Canadian Science Publishing

Correlations of Regulated Lake Levels and Climatic Factors with Abundance of Young-of-the-Year Walleye and Yellow Perch in Four Lakes in Voyageurs National Park

Source: Wiley

Before-after, control-impact analysis of evidence for the impacts of water level on Walleye, Northern Pike and Yellow Perch in lakes of the Rainy-Namakan complex (MN, USA and ON, CA).

Source: Public Library of Science (PLOS)

Partial least squares regression as an alternative to current regression methods used in ecology

Source: Wiley

Rethinking length-based fisheries regulations: the value of protecting old and large fish with harvest slots

Source: Wiley

Do Water Level Fluctuations Influence Production of Walleye and Yellow Perch Young-of-the-Year in Large Northern Lakes?

Source: Taylor & Francis

Environmental factors regulating the recruitment of walleye *Sander vitreus* and white bass *Morone chrysops* in irrigation reservoirs

Source: Wiley

Influence of Water Level Drawdown on the Fish Populations of Cross Lake, Manitoba

Source:

An In

Source:

Effect

Source:

A con

s

So

Fish g

study

Source:

Meta-

Source:



population

## Related research

People also read

Recommended articles

Cited by  
12

A comparison of the effects of water-level policies on the availability of walleye spawning habitat in a boreal reservoir >

Jason T. Papenfuss et al.  
Lake and Reservoir Management  
Published online: 26 Mar 2018



## Information for

Authors

R&D professionals

Editors

Librarians

Societies

## Opportunities

Reprints and e-prints

Advertising solutions

Accelerated publication

Corporate access solutions

## Open access

Overview

Open journals

Open Select

Dove Medical Press

F1000Research

## Help and information

Help and contact

Newsroom

All journals

Books

## Keep up to date

Register to receive personalised research and resources by email



Sign me up



Copyright © 2024 Informa UK Limited [Privacy policy](#) [Cookies](#) [Terms & conditions](#)



Taylor & Francis Group  
an informa business

Accessibility



Registered  
5 Howick Place

