

OHRC Advisory Committee

“Research Report”

12 December 2011

David L. G. Noakes

Professor & Senior Scientist
OSU - OHRC

Education and Outreach

- Christy Meyer - Fisheries Management – MSc Examination
- Susan Benda - MSc Thesis Research
- Jeremiah Psiropoulos - Undergraduate Research Projects
- April Smith – MSc Thesis
- José Marrin – PhD Thesis
- Alsea Watershed Council
- Fish Nutrition Workshop - OHRC (February 2012)
- OCAMP – 13 December 2011
- Roseburg – Forestry, Watershed Council – 8 November 2011
- Albany – Steelheaders – 2 November 2011
- FW 488/489, Winter 2012 – homing and straying
- Alsea Sportsmen's Association – 10 November 2011

Research Funding Applications

- Banks et al. – CIMRS - NOAA – 5 year funding – OHRC research (\$33,000,000) (awarded)
- Noakes et al. – Oregon Sea Grant – geomagnetic imprinting (2 years - \$200,000) (awarded)
- Noakes & Schreck – Chinook surrogate – US ACOE – 2011 - \$75,000 approved; 2012, 2013 - \$325,000 annually - awarded

Research Funding Applications

- MAI – egg planting – ODFW/OHRC
- Clackamas H:W (ODFW, PGE) - 2012
- Salmon & steelhead – hatchery : wild development – Cole et al – NSF – in preparation
- Homing & Straying – Noakes et al – NSF – in preparation
- Foundation – in preparation

Research Discussions

- John Zauner, Todd Alsbury, Charlie Corrarino, Ryan Couture, Kevin Goodson, David Noakes – ODFW – “Clackamas & Sandy rivers research; coho research”
- David Noakes, Kathleen Cole, Michael Blouin, Carl Schreck – “sex change and gene expression in steelhead”
- Shaun Clements, Ryan Couture, David Noakes – “adult steelhead tracking Alsea River”
- David Noakes, Carl Schreck, Cam Sharpe, David Griffiths – “Chinook salmon surrogates”
- David Noakes, Andy Dittman, Ryan Couture – “olfactory imprinting”
- David Noakes, Jianzhong Shen – “barriers and fish passage”
- David Noakes, Michael Banks – “genetics, homing and straying”

Visitors

Dr. Helen Diggs – OSU, IACUC

Drs. Shen and He, Huazhong University, China

Dr. Kurt Fausch, Colorado State

Dr. Kathleen Cole, University of Hawaii

Dr. Chuck Krueger, Great Lakes Fishery
Commission

Dr. Andy Dittman, NOAA, NMFS, NWFSC, Seattle

Lynn Ketchum, OSU

Publications

- Nithirodpagdee et al. stream fish community ecology. Environmental Biology of Fishes (in press)
- Noakes et al. Design of a trap for larval lampreys. Journal of Great Lakes Research (in revision)
- Leblanc et al. VIE tagging small salmonids for studies of growth and behavior. NAJFM (in press)
- Li, Noakes et al. Can humans coexist with fishes? Environmental Biology of Fishes (in press; Online First)
- Gao, Banks & Noakes. Statistical analysis of otoliths: hatchery and wild discrimination. Environmental Biology of Fishes (in revision)
- McPhee, Noakes & Allendorf. Developmental rate: A unifying mechanism for sympatric divergence in postglacial fishes? Current Zoology (accepted)
- Kristjansson et al. Environmental variability and phenotypic plasticity. Evolution (in review)
- Ismail et al. Endemic lake fishes. (in preparation)
- Kristjansson et al. Patterns of diversity in salmonids. Evolution (in review)

Publications (continued)

- Leblanc et al. Importance of egg size in salmonid fishes. Evolution (in review)
- Schemmel et al. EMG tagging and behavior of steelhead. NJFM (in revision)
- Romer et al. steelhead smolt survival in coastal Oregon rivers. TAFS (in review)
- Noakes. Baby talk: patterns of development in fishes. LAS (submitted)
- Noakes & Schreck. Smolt behavior and survival. Osprey magazine (in preparation)
- Fish & Fisheries – edited books: (1) Jonsson & Jonsson – Ecology of Atlantic salmon and brown trout; Makino et al. - Fisheries management in Japan; Sadovy & Colin – Reef fish spawning aggregations; McDowal – New Zealand freshwater fishes; Beamish & Rothschild – Future of fisheries Science in North America

Noakes, D. L. G., P. Rand, B. Berijikian & T. Pearson (co-editors).

Ecological interactions of wild and hatchery salmon. Special Volume, Environmental Biology of Fishes.

OnLine First

<http://springerlink.com/content/102877/>

“Salmon Migration”

D. Noakes & P. Klimley (co-editors)

Special Issue of Environmental
Biology of Fishes

OnLine First

[http://science.calwater.ca.gov/stage/
sci_news_0610_tags.html](http://science.calwater.ca.gov/stage/sci_news_0610_tags.html)

Threatened Fishes: Fish Conservation

D. Noakes

Special Issue of Environmental Biology of Fishes

OnLine First

<http://www.springerlink.com/content/102877/?Content+Status=Accepted>

“Hatchery Research: Hatchery Reform”

- Judy Gordon & David Noakes (Co-Editors)
- 3-volume monograph series
- Fish & Fisheries, Springer Academic Publishers

“Otoliths: stable isotopes and microchemistry”

- Yongwen Gao & David Noakes (Co-Editors)
 - Environmental Biology of Fishes

Research Conferences

Presentations

Research Conferences

- International Coregonine Symposium - Mondsee, Austria; 24 September – 1 October 2011
- Oregon Sea Grant – Coastal Planning – November 2011
- Oregon AFS – February 2012
- World Fisheries Congress – Edinburgh, Scotland – May 2012
- International Fish Biology Congress – Madison, Wisconsin – July 2012

Research Projects and Proposals

“Hatch box” survival & “Egg Planting”

ODFW/OSU – Coos research request

Moist Air Incubation – operations research

Otolith marking – operations research (oxygen, OTC)

Research Project

- Olfactory Imprinting – incubation
- Andy Dittman, David Noakes, Ryan Couture
- Proposal to Advisory Committee for comments

Research Project

- Geomagnetic Imprinting
- David Noakes, Ken Lohmann, Andy Dittman, Sam Chan, Pete Klimley, Tom Quinn
- Research Proposal sent to Advisory Committee for comments

OHRC Research Homing and Straying

Oregon Sea Grant Proposal

Review of applications for postdoctoral
researcher

Chinook Surrogate Project

- US ACOE, ODFW
- Proposal sent to ODFW Advisory Committee for Information
- Review of applications for postdoctoral research assistant
- OHRC studies: feeding, density

Research Proposal

- Shaun Clements, Ryan Couture, David Noakes
“ODFW”
- “Tagging and tracking adult steelhead in Alsea River”
 - related to ODFW steelhead management
 - Volunteer training
 - Coordination with Alsea Sportsmen’s Association

Research Proposal

- Hatchery: Wild Interactions
- ODFW – Clackamas and Sandy rivers
 - Acclimation sites
 - Juveniles
 - Adults
- Proposal under revision by ODFW, PGE

Fish Nutrition Workshop

OHRC

February 2012

coordination with Abernathy