

MARK ELLYSON SWANSON

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EDUCATION AND TRAINING

University of Washington	B.S. Forest Management, <i>cum laude</i>	B.S. 1999
University of Washington	Forest Ecosystem Analysis	Ph.D 2007

PROFESSIONAL EXPERIENCE

2013-Present	Associate Professor, Landscape Ecology and Silviculture, School of the Environment, Washington State University (WSU), Pullman, WA
2007-2013	Assistant Professor, Landscape Ecology and Silviculture, School of the Environment, WSU
2009-present	Forest Management Consulting, Principal, Goshawk Ridge Consulting, Pullman, WA

HONORS AND AWARDS

2019	Arête Award for Mentorship, Washington State University
2017	Arête Award for Mentorship, Washington State University
2015	Involvement Advisor of the Year, 2015-2016, Associated Students of WSU
2015	Participant, LEAD21 Leadership Development Program, 2015-2016.
2012	Provost's Leadership Academy, WSU
2012	R.M. Wade Excellence in Teaching Award, March 2012

RECENT GRANTS RECEIVED

Swanson, Mark E. 2018-present. Specialized forest measurements contract in support of remote sensing of forest composition in the Inland Northwest. Idaho Forest Group. \$250,000 (estimate of total for contract period).

Batcheler, Mark, Marcy Ostrom, and Mark E. Swanson. 2020. Silvopasture in the inland Pacific Northwest: effects of fire, grazing, and timber management on fuel structure and vascular plant diversity. Western SARE Grant. \$37,500 funding application.

Ostrom, Marcy, Mark B. Batcheler, Mark E. Swanson. 2020. Enhancing the ecological and socioeconomic benefits of silvopasture systems in Washington State through participatory research and education. Western SARE Grant, USDA. \$24,997.

Swanson, Mark E. 2019. "Effects of silvicultural restoration treatments in dry pine and dry mixed-conifer forests of the Fremont-Winema National Forest". Internal McIntire-Stennis grant, Washington State University. \$47,500.

Krawchuk, Meg (CoF, OSU), Matthew G. Betts (CoF, OSU), Mark E. Swanson (Washington State University), James W. Rivers (CoF, OSU). Wildfire-IFM bird study: biodiversity in natural and managed early seral forests of southern Oregon. National Council of Air and Stream Improvement (NCASI). 4/1/2019 – 3/30/2023. \$323,000.

Krawchuk, Megan, Matthew G. Betts, Mark E. Swanson, and James W. Rivers. 2016. "Seed grant: Wildfire-IFM bird study: biodiversity in natural and managed early seral forests of southern Oregon." National Council for Air and Stream Improvement, Corvallis, Oregon. \$20,000.

Thornton, Dan, and Mark E. Swanson. 2014. Demographics and wildlife use of created snags in second-growth temperate conifer forest. Snohomish County PUD. \$33,065. Supports M.S. student.

Lutz, James A., Andrew J. Larson, Mark E. Swanson, and James A. Freund. 2013. "Post Rim Fire assessment of fuel consumption and mortality in the Yosemite Forest Dynamics Plot." USDOI National Park Service (Emergency Funds In Support of Monitoring Efforts) for 2014 Yosemite Forest Dynamics Plot re-measurement. \$59,064.

Swanson, Mark E. 2011. Design and implementation of an ecological integrity protocol for the Sinlahekin Wildlife Management Area: a prototype methodology for east Cascadian forests. Funding agency: Washington Department of Fish and Wildlife, Olympia, Washington. \$61,154. Graduate student: Emily Haeuser (M.S. level).

The Influence of Forest Herbicides on the Nutritional Ecology of Black-tailed Deer in Western Washington. \$200,000. Washington Department of Fish and Wildlife. Co-P.I. Lisa A. Shipley, Mark E. Swanson, John Cook, Rachel Cook. (6/11 – 5/14).

PUBLICATIONS AND SYNERGISTIC ACTIVITIES

Synergistic Activities (Relevant to Grant Application)

- Co-PI, Yosemite Forest Dynamics Plot (Western Forest Initiative), 2010-present.
- Leader, Forestry Degree Program, Washington State University, 2018-present
- Uplands long-term plant community measurement and monitoring, Mt. St. Helens National Volcanic Monument, Giffort Pinchot NF, Washington. Principal Investigator with Andres Holz (Portland State Univ.) and Cynthia Chang (Univ. of Washington, Bothell)
- Member, Forest Biodiversity Research Network, 2018- present.
- Early Seral Ecology Research collaboration with Oregon State University (where courtesy faculty appointment is held), 2018-present. Additional research proposals being generated.
- Functional landscape ecology research collaboration with Dr. Paul Hessburg, Pacific Northwest Research Station, Wenatchee, WA: analysis historic vs. contemporary landscape disturbance effects, 2019-present.

Refereed Publications (Relevant to Grant Application)

Smith, Robert J., Andrew N. Gray, and **Mark E. Swanson**. 2020. Temperate forest plant diversity most commonly peaks in early-seral stages. *Forest Ecology and Management* 475: 118410.

Lutz, James A., Soren Struckman, Tucker J. Furniss, C. Alina Cansler, Sara J. Germain, Larissa L. Yocom, Darren J. McAvoy, Crystal A. Kolden, Alistair M.S. Smith, **Mark E. Swanson**, Andrew J. Larson. 2020. Large-diameter trees dominate snag and surface biomass following reintroduced fire. *Ecological Processes* 9(1): 1-13.

Ulappa, Amy C.*, Lisa A. Shipley, Rachel C. Cook, John G. Cook, and **Mark E. Swanson**. 2020. Silvicultural herbicides and forest succession affect understory vegetation and nutritional ecology of black-tailed deer in managed forests. *Forest Ecology and Management* 470-471: 118216. (IF= 3.126)

Chang, Cynthia, Charles Halpern, Joseph Antos, Meghan Avolio, Abir Biswas, James Cook, Roger del Moral, Dylan Fischer, Andres Holz, Robert Pabst, **Mark E. Swanson**, and Donald Zobel. Testing conceptual models of plant succession across a disturbance gradient. *Journal of Ecology* 2019: 1-14. doi 10.1111/1365-2745.13120. (IF=5.431).

Lutz, James A., Andrew J. Larson , and **Mark E. Swanson**. 2018. Advancing fire science with large forest plots and a long-term multidisciplinary approach. *Fire* 2018, 1(1), 5; doi:10.3390/fire1010005. (No impact factor yet)

Lutz, James A., Tucker J. Furniss, Sara J. Germain, Kendall M. L. Becker, Erika M. Blomdahl, Sean A. Jeronimo, C. Alina Cansler, James A. Freund, **Mark E. Swanson**, and Andrew J. Larson. 2017. Shrub consumption and immediate community change by reintroduced fire in Yosemite National Park, California, USA. *Fire Ecology* 13(1): 104-125. (IF= 1.422).

Klein, Linda R.*, William G. Hendrix, Jolie B. Kaytes, Virginia I. Lohr, Rodney D. Sayler, **Mark E. Swanson**. 2015. Linking ecology and aesthetics in agricultural landscapes: a case study from the Palouse Region of Washington State, U.S.A. *Landscape and Urban Planning*, 134: 195-209. (IF=3.184).

Swanson, Mark E., John Campbell, Dan Donato, and Nichole M. Studevant**. 2014. Biological associates of early-seral pre-forest in the Pacific Northwest. *Forest Ecology and Management*. (Special issue: Post-Disturbance Forests) 324: 160-171. (IF=2.92) **Undergraduate co-author.