

**JOHN DUFF BAILEY**  
**Associate Professor of Silviculture and Fire Management**  
**Forest Engineering, Resources and Management; College of Forestry**  
**Oregon State University**

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## **EDUCATION**

- Ph.D., Oregon State University (Corvallis, OR) in Forest Science – Silviculture  
September 1991 – **June 1997.**
- M.F., Virginia Tech (Blacksburg, VA) in Forest Biology  
September 1983 – **June 1985.**
- B. S., 1983, Virginia Tech (Blacksburg, VA) in Forestry and Wildlife Management  
September 1979 – **June 1983.**

## **AREAS OF SPECIAL TEACHING AND RESEARCH SKILLS**

- Silviculture, silvics and forest ecosystem management
- Fuels manipulations and fire science, forest health, structure management, and sustainability
- Curriculum development (general education, global learning, learning management systems)
- Tropical forestry, agroforestry and forest certification
- Forest and individual tree stress, visual damage classification, and autecology

## **PROFESSIONAL AFFILIATIONS**

Society of American Foresters: Silviculture Working Group (D2) and local Chapter/State Association for Fire Ecology  
Oregon Climate Change Research Institute  
International Society of Tropical Foresters  
Xi Sigma Pi, past-Forester and Faculty Advisor  
International Union of Forestry Research Organizations, Division 4 – Forest Modeling  
European Union Laboratory for Wildland Fire Sciences and Technologies

## **HONORS AND AWARDS**

2013 Oregon Society of American Foresters **Research Award**  
2012 OSU College of Forestry **Aufderheide Award** for Teaching Excellence  
2011 selected for 3<sup>rd</sup> Intertribal Timber Council “Indian Forest Management Assessment Team”  
2010 **Dean’s Award** for Outstanding Achievement in Extended and Continuing Education  
2009 Finalist – **Gene D. Knudson Endowed Professor of Teaching Excellence**  
2007 OSU College of Forestry **Aufderheide Award** for Teaching Excellence  
2005 **Arizona Teaching Fellow** (one of six from Northern Arizona University)  
2003 NAU College of Ecosystem Science and Management, **Professor of the Year**  
2000 Northern Arizona University representative to **Great Teachers Summit** (one of 10 from campus)  
1999 NAU College of Ecosystem Science and Management, **Centennial Teacher of the Year**  
1998 Northern Arizona University School of Forestry, **Teacher of the Year**  
1995 Oregon State University, **Outstanding Undergraduate Educator** (one of 15 on campus)  
1993 Oregon State University, **Outstanding Teaching Assistant**, nominee  
1989 US Environmental Protection Agency, **Special Achievement Award**



**GRADUATE STUDENTS ADVISED – at Oregon State University (2006- 2015)**

| <b>Student and degree</b>       | <b>2006</b> | <b>2007</b> | <b>2008</b> | <b>2009</b> | <b>2010</b> | <b>2011</b> | <b>2012</b> | <b>2013</b> | <b>2014</b> | <b>2015</b> | <b>2016</b> |
|---------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Frank Hassler, MS (NAU)         | D           |             |             |             |             |             |             |             |             |             |             |
| Kyla Sabo, MS (NAU)             | D           |             |             |             |             |             |             |             |             |             |             |
| Maria Irwin, MS (NAU)           | D           |             |             |             |             |             |             |             |             |             |             |
| Mark Nabel, MS (co-advised)     | C           | C           | D           |             |             |             |             |             |             |             |             |
| Tristan Huff, MS                | S           | C           | D           |             |             |             |             |             |             |             |             |
| Chris Dunn, MS                  | S           | C           | C           | C           | D           |             |             |             |             |             |             |
| Chaylon Shuffield, MS           |             | S           | C           | C           | D           |             |             |             |             |             |             |
| Emily Comfort, PhD (co-advised) |             |             | S           | C           | C           | C           | C           | D           |             |             |             |
| Teresa Ramona Arechiga, MS/PCMI |             |             |             | S           | PC          | PC          | PC          | D           |             |             |             |
| Chris Dunn, PhD                 |             |             |             | S           | C           | C           | C           | C           | C           | D           |             |
| Patrick Fekety, MF              |             |             |             |             | S           | C           | D           |             |             |             |             |
| Emily Platt, PhD                |             |             |             |             | S           | C           | C           | C           | D           |             |             |
| Garrett Meigs, PhD (co-advised) |             |             |             |             | S           | C           | C           | C           | D           |             |             |
| Will Pollock, MS                |             |             |             |             | S           | C           | C           | L           |             |             |             |
| Kevin Vogler, MS                |             |             |             |             |             | S           | C           | C           | D           |             |             |
| Bethany Munoz, MS               |             |             |             |             |             | S           | C           | D           |             |             |             |
| Jona Ensley, MS                 |             |             |             |             |             |             | S           | C           | C           | D           |             |
| Taylor Fjeran, MS               |             |             |             |             |             |             | S           | C           | D           |             |             |
| Molly Pitts, MNR                |             |             |             |             |             |             | S           | C           | D           |             |             |
| Amy Barnhart, MF                |             |             |             |             |             |             |             | S           | C           | D           |             |
| Marie Perrin Miller, MNR        |             |             |             |             |             |             |             | S           | C           | C           | D           |
| Arlene Specter, MNR             |             |             |             |             |             |             |             |             | S           | C           | C           |
| Teresa Wicks, MF                |             |             |             |             |             |             |             |             | S           | C           | D           |
| Katherine Morici, MS            |             |             |             |             |             |             |             |             | S           | C           | D           |
| Kevin Credo, MS                 |             |             |             |             |             |             |             |             |             | S           | C           |
| Kate Williams, MF               |             |             |             |             |             |             |             |             |             | S           | C           |
| Timothy Facemire, MF/PCMI       |             |             |             |             |             |             |             |             |             | S           | C           |
| Patrick Tweedy, MS (co-advised) |             |             |             |             |             |             |             |             |             | S           | C           |
| Kayla Johnston, MS              |             |             |             |             |             |             |             |             |             |             | S           |

**40 total**

S = start program; C = continuing in active status; C\* = mid-program 'inheritance'; PC = Peace Corp;  
D = successful defense of thesis/dissertation; L = Left program

**Dissertations, Thesis and Professional Project titles:**

Martinez: "A Southwestern Ponderosa Pine Density Management Diagram."

Smith: "A long-term evaluation of uneven-aged ponderosa pine management in northern Arizona."

Harjanto: "Quality of teak (*Tectona grandis* L.) stem development using coppiced plantations in Java, Indonesia"

Guerra: "Stand structure and dynamics of isolated *Pseudotsuga* forests in southern North America."

Goodwin: "Effects of soil type on regeneration of ponderosa pine in the Southwest."

Brischler: "Age/size structure and spatial arrangement of Gambel oak (*Quercus gambelii*) in southwestern pine-oak forests."

- Sesnie: “Environmental histories: A foundation for adaptive management on the Kaibab Plateau in northern Arizona.”
- Leonard: “Assessing differential effects of two long-term institutional arrangements on forest ecosystem health in northern Arizona.”
- Landis: “Reconstruction of age structure and spatial arrangement of pinyon-juniper woodlands and savannas on Anderson Mesa, northern Arizona”
- Faiella: “Fire, fuel and structural dynamics in treated and untreated ponderosa pine forests of northern Arizona”
- Hassler: “Dynamics of juniper invaded grasslands and old-growth woodlands at Wupatki National Monument, northern Arizona, USA”
- Sabo: “Understory vegetation dynamics following fuel reduction strategies in northern Arizona ponderosa pine forests”
- Irwin: “Effects of slash arrangements and treatments on the pinyon-juniper woodland understory community”
- Nabel: “Establishment and growth of planted and naturally-regenerated conifers in the understory of managed Douglas-fir forests in the Oregon Coast Range”
- Huff: “Conifer regeneration, understory vegetation and artificially topped conifer responses to alternative silvicultural treatments”
- Dunn: “Snag dynamics, variable decay rates and their effects on wildland fuel succession following high-severity fire disturbance in dry mixed-conifer forests of Oregon’s eastern Cascades”
- Shuffield: “Reconstructing stand structure and composition in the ponderosa pine/lodgepole pine ecotone of the south-central Oregon Pumice Zone”
- Comfort: “Trade-offs between management for fire risk reduction and northern spotted owl habitat protection in the dry conifer forests of southern Oregon”
- Arechiga: “Forest structure, composition and regeneration patterns surrounding an illegal village in Bale Mountains National Park, southeast Ethiopia”
- Fekety: “Fire history and land use in southwestern Oregon”
- Vogler: “Quantifying the availability of woody biomass from fuel reduction and forest health thinning on federally owned land in Oregon, Washington, Montana, and Idaho”
- Munoz: “The influences of prescribed burning, lop and scatter, and weed reduction treatment on quaking aspen regeneration in southeastern Idaho”
- Pitts: “Monarch Vegetation Management Plan”
- Platt: “Managing for landscape resilience in the frequent-fire forests of Central Oregon”
- Meigs: “Mapping disturbance interactions from Earth and space: Insect effects on tree mortality, fuels, and wildfires across forests of the Pacific Northwest”
- Fjeran: “Treatment options for controlling *Brachypodium sylvaticum* and impacts and native vegetation”
- Ensley: “Comparing Himalayan blackberry (*Rubus armeniacus*) management techniques in upland prairie communities of the W. L. Finley National Wildlife Refuge”
- Dunn: “Mixed-severity fire: biological legacies and vegetation response in *Pseudotsuga* forests of Oregon’s Cascade Range”

#### **Other service on graduate student committees:**

**M.S./M.F./M.N.R.:** 31 past; 4 active: Seth Ayotte, Jeff DeRoss, Jason McCorkle and Steve Huff (Forestry), and Peter Nelson (Botany)

**Ph.D.:** 12 past; 7 active: Tim Vrendenburg, James Johnston, Hailey Buckingham, Chad Kooistra, and Terry Craig (Forestry); Lea Condon (Botany); and Charles Maxwell (Portland State)

**International visiting students:** Aroa Sampedro (2014); Fermin Urdiruz (2016)

**Graduate College Representative:** 20 to date (M.S. and Ph.D. combined)

## INVITED PRESENTATIONS AND PANELS

- “Fire history and fire ecology in Central Oregon – implications for land management and living sustainably.” **High Desert Museum**, March 5, 2016 in Bend, OR. (Speaker)
- “Training the next generation of foresters for a changed world.” **Portland Chapter of the Society of American Foresters**, February 22, 2016 in Portland, OR. (Speaker)

“Fire and Rain: the role of forestry in Oregon with a changing climate.” **Environmental Action Council**, January 14, 2016 in Corvallis, OR. (Speaker)

“Sustainable forest management practices ...or why is there smoke in my blue sky.” **Frontiers in Science Series – Sisters Science Club**, April 21, 2015 in Sisters, OR. (Speaker)

“Silvicultural treatments to develop stand structure.” **Mary’s Peak Chapter of the Society of American Foresters**, February 5, 2015 in Albany, OR. (Speaker)

“Living with Fire” **Pacific Northwest Science and Management Team Retreat**, June 5-6, 2014 in Skamania, WA. (Speaker)

“Ecological forestry and fire management – draining the biomass reservoir” **Central Oregon Fire Science Symposium**, April 8-9, 2014 in Bend, OR. (Speaker)

“Climate change and wildland fire: It is a good day to burn!” **Foresters Forum**, February 5-7, 2014 in Coeur d’Alene, ID. (Speaker)

“Mixed-conifer fire behavior and silviculture.” **Restoring and Managing Mixed Conifer Forests in the Pacific Northwest**, April 15, 2013 in Hood River, OR. (Speaker and Panel Member)

“On ecological effects of wildfires: experiences in the western U.S.” **Sveriges Lantbruksuniversitet, Mark och Miljö Lecture**, March 20, 2013 in Uppsala, Sweden. (Visiting Scientist)

“Forest restoration and biomass utilization as a partnership in the Pacific Northwest U.S.” **Sveriges Lantbruksuniversitet, Focus on Soil and Water Graduate Seminar**, March 18, 2013 in Uppsala, Sweden. (Visiting Scientist)

“Balancing early- and late-seral successional stand conditions in fire-prone mixed-conifer forests of the western U.S.” **Universidad de Valladolid**, February 27, 2013 in Palencia, Spain. (Visiting Lecturer)

“Stand density management and thinning – Pacific Northwest-style.” **University of Florida, Visiting Lecture**, February 8, 2013 in Gainesville, FL. (Guest Professor)

“Balancing early- and late-seral successional stand conditions in fire-prone forest types.” **4<sup>th</sup> International Association of Wildland Fire – Fire Behavior and Fuels Conference**, February 20, 2013 in Raleigh, NC. (Speaker)

- “Fire regimes in dry mixed-conifer ecosystems of the West: balancing early- and late-seral stand conditions for the broadest services.” **Joseph W. Jones Ecological Research Center, Visiting Scientist Seminar**, February 6, 2013 in Ichauway, GA. (Speaker)
- “A framework for evaluating the impact of climate change on northern spotted owl habitat in dry forest types.” **Biological and Environmental Engineering Fall Seminar Series**, November 21, 2012 in Corvallis, OR. (Speaker)
- “Stocked stands to standing stocks: sustainable forest management and bioenergy.” **Pacific Northwest Biomass Symposium**, November 12, 2012 in Seattle, WA. (Speaker)
- “Multi-aged management in Douglas-fir: recruiting and managing the future forest.” **Emerald Chapter of the Society of American Foresters**, October 16, 2012 in Springfield, OR. (Speaker)
- “Silvicultural prescriptions for northern spotted owl habitat sustainability in dry mixed-conifer ecosystems.” **USFW Workshop**, September 5-7, 2012 in Hood River, OR. (Participant)
- “Fire ecology in ponderosa and lodgepole forest types: where the eco-margins blur.” **Central Oregon Fire Science Symposium**, April 17, 2012 in Bend, OR. (Speaker)
- “Restoration and Silvicultural Interventions.” **Region 6 Annual Silviculture Workshop**, November 8, 2011 in Bend, OR. (Speaker)
- “Silvicultural interventions in dry mixed-conifer forests.” **Forest Restoration beyond Fuels Treatment: What is the Vision?** Central Oregon Chapter of the Society of American Foresters, October 12-14, 2011 in Bend, OR. (Speaker)
- “Fanning the Flames.” **Destination OSU – Foundation Alumni Gathering**. February, 2011 in Palm Springs, CA. (Keynote)
- “Breaking the Fire Cycle.” **Vegetation Management Conference**. January, 2011 in Redding, CA. (Co-presenter with M. Newton)
- “Where there’s smoke...” **OSU Science Pub**. October, 2010 in Corvallis, OR and December, 2010 in Bend, OR. (Featured Speaker)
- “Fire Use” **Traditional Ecological Knowledge in Ecosystem Sustainability Conference**. May 14, 2010 in Corvallis, OR. (Speaker)
- “Past, present and future fires in Oregon” **Forest Health in Oregon: State of the State**. February 24, 2010 in Corvallis, OR. (Keynote Speaker)
- “Creating stand-level prescriptions to integrate ecological and fuel management objectives for dry-forests of the eastern Cascade Range” **Dry Forest Landscape Workshop**. October 13-15, 2009 in Redmond, OR. (Speaker, Facilitator)
- “Dry-conifer ecology and silviculture in western Oregon” **Central Cascades Adaptive Management Partnership Training Session**. May 28, 2009 in Springfield, OR. (Speaker)

- “How do we make the tough density management decisions? A process for dissecting and addressing the density management issues of biology, mensuration, operations and economics” **Western Forestry and Conservation Association**. April 8, 2009 in Portland, OR. (Speaker and Moderator)
- “Fire and fuels management for silviculturists” **National Advanced Silviculture Program**. March 16-17, 2009 in Knoxville, TN. (Instructor and Field Trip Leader)
- “Changing policies and the role of fire suppression and forest restoration in Oregon forests” **Institute for Natural Resources and Oregon Department of Forestry Seminar Series**. March 13, 2009 in Corvallis, OR. (Organizer, Moderator and Speaker)
- “Taylor Woods: the power of density management” **Fort Valley Experimental Forest Centennial Celebration**. August 7-9, 2008, in Flagstaff, AZ. (Tour leader)
- “Designing prescriptions for uneven-aged management: from overstory harvest to free-to-grow ...recruiting and managing the next cohort of crop trees” **Western Forestry and Conservation Association**. March 27, 2008 in Vancouver, WA. (Speaker)
- “The role and management of legacy structures in western Oregon forests” **Oregon Department of Forestry Silviculture Group**. December 13, 2007 in Philomath, OR. (Speaker)
- “Environmental leadership, the Society, and educating the future forester” **Society of American Foresters National Convention, Student Orientation – Keynote Address**. October 23, 2007 in Portland, OR. (Keynote Speaker)
- “Natural Processes Disruption on Federal Forest Lands” **Governor’s Federal Forestland Advisory Committee**. September, 2007 in Salem, OR. (Speaker and Panelist)
- “Effective silviculture for uncertain times in the Pacific Northwest” **Bureau of Land Management Silviculture Working Group**. June, 2007 in Salem, OR. (Speaker)
- “Integrating science and experience into silvicultural prescriptions and forest research” **Central Cascades Adaptive Management Partnership workshop**. June, 2007 in Vancouver, WA. (Panel)
- “Definition, goals and principles of biodiversity conservation in a changing climate” **Governor’s Oregon Biodiversity and Ecosystem Climate Change Preparation meeting**. June, 2007 in Salem, OR. (Panel)
- “Post-fire stand recovery and implications for effective silviculture” **The Scientific Foundations of Post-fire Policy: New Findings, New Ideas: A Workshop**. March, 2007 in Corvallis, OR. (Panel)
- “Thinning for fire risk reduction in site specific projects and across the regional landscape” **Land, Air and Water - Environmental Law Conference**. March 2007 in Eugene, OR (Panel)
- “The effects of fire and fire surrogate treatments for ecological restoration: A national perspective” **3<sup>rd</sup> International Fire Ecology and Management Congress**. November, 2006 in San Diego, CA. (Panel Co-Chair and Speaker)

- “New silvicultural approaches for the American Southwest” **Conserving and Restoring Frequent Fire Landscapes of the West: Linking Science, Collaboration and Practice**. October, 2006 in Flagstaff, AZ. (Panel Chair; Speaker; and Field Trip Leader)
- “Thinning for old-growth structure and spotted owl habitat” **Activist Thinning Tour, Gifford Pinchot National Forest**. October, 2006 outside Vancouver, WA. (Tour Specialist)
- “Contrasting northern Arizona juniper savannas and woodlands” **Workshop on Historical Fire Regimes in Pinyon-Juniper Woodlands**. August, 2006 in Boulder, CO. (Panel member)
- “Silvicultural Practices supporting northern spotted owl habitat in dry forest ecosystems” **USF&W, USDA Forest Service and BLM workshop**. May, 2006 in Ashland, OR. (contributor)
- “Restoration or salvage: the good, the bad and the ugly of western wildfires in the 21<sup>st</sup> Century” **OSU Fisheries and Wildlife Departmental Seminar**. April, 2006 in Corvallis, OR. (Speaker)
- “Pre-fire fuels treatment effects: preliminary results from the national fire and fire surrogates study” **Spotlight on Science – FS/BLM/F&W Interagency Seminar**. March, 2006 in Portland, OR. (Panel member and Speaker)
- “Forest management effects on microclimate, bud burst, and leaf nutrition in industrial Douglas-fir plantations” **Northern Arizona University Seminar Series**. September, 2005 in Flagstaff, AZ. (Speaker)
- “Restoring Southwestern Ponderosa Pine Forests with Multi-aged Group Selection Silviculture: the Good, the Bad and the Ugly” **Oregon State University**. March, 2005 in Corvallis, OR. (Interview)
- “Stand Structure and Ecological Restoration” **Ecological Restoration Institute – Short Course**. April, 2003 in Flagstaff, AZ. (Panel member, Speaker, and Tour leader)
- “Sustainable Forest Management in the Semi-arid Southwest: Amazing parallels to the “non-arid” Northwest” **USFS Pacific Northwest Research Station**. March, 2003 in Olympia, WA. (Speaker)
- “Centennial Forest: Forest Resource Enterprise Center (FREC)” **Four Corners Steering Committee meeting**. March, 2003 in Albuquerque, NM. (Speaker)
- “Reconstructing Pre-European Woodlands” **Northern Arizona University - Forest Service Chief briefing**. January, 2003 in Flagstaff, AZ.
- “A Forest Story” **Northern Arizona University Program in Community, Culture and Environment**. Spring and Fall of 2002 in Flagstaff, AZ. (Panel member)
- “Changing the Paradigm: Sustainable Forestry for the New West” **Denali Foundation Lecture Series**. August 17, 2001 in Denali, AK. (Speaker)
- “*Foresteria Sostenible*: Sustainable Forest Management in the Semi-arid Southwest” **Humboldt State University Natural Resources Seminar**. May 11, 2001 in Arcata, CA. (Interview)
- “Forests and Sustainable Forest Management in the Southwest: 1900 to 2000” **Society of American Foresters – National Convention**. November 16-20, 2000 in Washington, DC. (Speaker)

- “Changing the Paradigm: Sustainable Forestry for the Intermountain West” **Laird Norton Endowment Foundation Seminar Series**. May 3, 2000 in Flagstaff, AZ. (Concluding Speaker)
- “Sustainable Forestry in Southwestern Ponderosa Pine Forests IS Multi-aged, Group Selection Management” **Southwestern Society of American Foresters – Section Meeting**. March 23-25, 2000 in Show Low, AZ. (Speaker)
- “Forest Resources Assessment for the Four Corners Sustainability Initiative” **Four Corners Sustainability Initiative Roundtable**. August 23-25, 1999 in Taos, NM. (Speaker)
- “Regeneration Goals for Southwestern Ponderosa Pine Ecosystem Restoration”. **2<sup>nd</sup> North American Forest Ecology Workshop**. June 27-30, 1999 in Orono, Maine. (Speaker)
- “21<sup>st</sup> Century Forestry – What’s Old and What’s New”. **New West Conference**. June 11-12, 1999 in Flagstaff, AZ. (Panelist and Speaker)
- “Déjà vu: The Coming of the Flagstaff Fire Season”. **First Friday Colloquia** (a regionally televised panel discussion). April 27, 1999 in Flagstaff, AZ.
- “Silviculture and the New Forestry”. **First Friday Colloquia**. (a regionally televised panel discussion). November 6, 1998 in Flagstaff, AZ.
- “Thinning Fundamentals and Vegetation Responses: Understory Response and Regeneration”. **Symposium on Thinning in Westside Forests**. April 1, 1997 in Newport, OR. (Speaker)
- "Ecosystem Restoration and Conservation: Understory Development and Bird Habitat in Second-Growth Douglas-fir". **Planted Forest Symposium**. June 29, 1995 in Portland, OR. (Speaker)
- "Habitat Management and Animal Responses at a Stand Scale". **Managing Forest Stands and Landscapes for Ecosystem Values**. March 29, 1995 in Corvallis, OR. (Speaker)
- “Visual Damage Assessment in North American Forests”. **European Visual Damage Survey Standardization Training**. July 1987 in Freiburg, West Germany. (Panelist and Speaker)

## REFERREED PUBLICATIONS

Summary statistics as of July 2015:

*h-index*: 18

*i10-index*: 29

**MOST COMMONLY PUBLISHED:** *Forest Ecology and Management* (Impact: 2.7) ranks 5<sup>th</sup> of 132 forestry journals internationally; *International Journal of Wildland Fire* (Impact: 2.5) ranks 7<sup>th</sup>.

40- Comfort, E.J., D.A. Clark, R.G. Antony, J. Bailey, and M.G. Betts. 2016. Quantifying edges as gradients at multiple scales improves habitat selection models for northern spotted owl.

**ACCEPTED:** *Landscape Ecology*

39- Fischer, A.P., T.A. Spies, T.A. Steelman, C. Moseley, B.R. Johnson, J.D. Bailey, A. Ager and others. Wildfire risk as a socio-ecological pathology. **ACCEPTED:** *Frontiers of Ecology*

- 38- Dunn, C.J. and J.D. Bailey. 2016. Tree mortality and structural change following mixed-severity fire in *Pseudotsuga* forests of Oregon's western Cascades, USA. *For. Ecol. Mgt.* 365:107-118. (Impact: 2.7)
- 37- Moriarty, K. M., C. W. Epps, M. G. Betts, D.J. Hance, J. Bailey, and W. J. Zielinski. 2015. Experimental evidence that simplified forest structure interacts with snow cover to influence functional connectivity for Pacific martens. *Landscape Ecology* 30(10):1865-1877.
- 36- Vogler, K., A. Ager, M. Day, M. Jennings, and J. Bailey. 2015. Prioritization of forest restoration projects: tradeoffs between wildfire protection, ecological restoration and economic objectives. *Forests* 6:4403-4420.
- 35- Meigs, G.W., J.C. Campbell, H.S.J. Zald, J.D. Bailey, D.C Shaw, and R.E. Kennedy. 2015. Does wildfire likelihood increase following insect outbreaks in conifer forests? *Ecosphere* 6(7)118. (Impact: 2.6)
- 34- Dunn, C.J. and J.D. Bailey. 2015. Temporal fuel dynamics following high-severity fire in dry-mixed conifer forests of the eastern Cascades, Oregon USA. *Intl. J. Wildl. Fire* 24:470-483. (Impact: 2.5)
- 33- Dunn, C.J. and J.D. Bailey. 2015. Modeling the direct effects of salvage logging on long-term temporal fuel dynamics in dry-mixed conifer forests. *For. Ecol. Mgt.* 341:93-109. (Impact: 2.7; 1 citation already)
- 32- Spies, T. A., E. M. White, J. D. Kline, A. Paige Fischer, A. Ager, J. Bailey, J. Bolte, J. Koch, E. Platt, C. S. Olsen, D. Jacobs, B. Shindler, M. M. Steen-Adams and R. Hammer. 2014. Examining fire-prone forest landscapes as coupled human and natural systems. *Ecology and Society* 19(3): 9. (Impact: 2.7; 9 citations)
- 31- Sensenig, T., J.D. Bailey and J.T. Tappeiner. 2013. Stand development, fire and growth of old-growth and young forests in southwestern Oregon, USA. *For. Ecol. Mgt.* 291:96-109. (Impact: 2.7; 6 citations)
- 30- Roloff, G.J., S.P. Mealey, and J.D. Bailey. 2012. Comparative hazard assessment for protected species in a fire-prone landscape. *For. Ecol. Mgt.* 277:1-10. (Impact: 2.7; 15 citations)
- 29- Dunn, C.J. and J.D. Bailey. 2012. Temporal dynamics and decay of coarse wood in early seral habitats of dry-mixed conifer forests in Oregon's Eastern Cascades. *For. Ecol. Mgt.* 276: 71-81. (Impact: 2.7; 10 citations)
- 28- Irwin, M.R., A.J. Finkral, and J.D. Bailey. 2011. Effects of thinning, burning, seeding and slash arrangements on understory communities in pinyon-juniper woodlands of northern Arizona. *All Res. J. Biol.:* 2011:2:8-15. (Impact: ?)
- 27- Hampton, H.M, S.E. Sesnie, J.D. Bailey, and G.B. Snider. 2011. Estimating regional wood supply based on stakeholder consensus for forest restoration in northern Arizona. *J. Forestry:* 109(1):15-26. (Impact: 1.6; 11 citations)
- 26- Huff, T. and J.D. Bailey. 2009. Longevity and dynamics of fatally and nonfatally topped Douglas-fir in the Coast Range of Oregon. *Can. J. For. Res.* 39:2224-2233. (Impact: 1.7; 2 citations)

- 25- Romme, W., C. Allen, J. Bailey, W. Baker, B. Bestelmeyer, P. Brown, K. Eisenhart, L. Floyd-Hanna, D. Huffman, B. Jacobs, R. Miller, E. Muldavin, T. Swetnam, R. Tausch, and P. Weisberg. 2009. Historical and modern disturbance regimes, stand structures, and landscape dynamics in piñon-juniper vegetation of the western United States. *Range. Ecol. Mgt.* 62:203-222. (Impact: 1.5; **147 citations**)
- 24- Sabo, K.E., C.H. Sieg, S.C. Hart and J.D. Bailey. 2009. The role of disturbance severity and canopy closure on standing crop of understory plant species in ponderosa pine stands in northern Arizona, USA. *For. Ecol. Mgt.* 257:1656-1662. (Impact: 2.7; 23 citations)
- 23- Schwilk, D.W., J.E. Keeley, E.E. Knapp, J. McIver, J.D. Bailey and ten others. 2009. The national Fire and Fire Surrogates study: Effects of alternative fuel reduction methods on forest vegetation structure and fuels. *Ecological Applications* 19(2):285-304. (Impact: 4.1; **108 citations**)
- 22- Shatford, J.P., J.D. Bailey, and J.C. Tappeiner. 2009. Understory tree development with repeated stand-density treatments in coastal Douglas-fir forests of Oregon. *West. J. App. For.* 24(1):11-16. (Impact: 0.6; 12 citations)
- 21- Sabo, K.E., S.C. Hart, C.H. Sieg and J.D. Bailey. 2008. Tradeoffs in overstory and understory aboveground net primary productivity in southwestern ponderosa pine stands. *For. Sci.* 54(4):408-416. (Impact: 1.5; 12 citations)
- 20- Ares., A., T. Terry, C.A. Harrington, W. Devine, D. Peter and J.D. Bailey. 2007. Biomass removal, soil compaction, and vegetation control effects on five-year growth of Douglas-fir in coastal Washington. *For. Sci.* 53(5):600-610 (Impact: 1.5; 29 citations)
- 19- McDowell, N.G., H.D. Adams, J.D. Bailey, and T.E. Kolb. 2007. The role of stand density on growth efficiency, leaf area index and resin flow in southwestern ponderosa pine forests. *Can. J. For. Res.* 37:343-355. (Impact: 1.7; 53 citations)
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- 17- Landis, A.G. and J.D. Bailey. 2006. Predicting the age of pinyon and juniper trees in northern Arizona: guides for forest restoration treatments. *West. J. App. For.* 21(4):203-6. (Impact: 0.6; 3 citations)
- 16- McDowell, N.G., H.D. Adams, J.D. Bailey, M. Hess and T.E. Kolb. 2006. Homeostatic maintenance of ponderosa pine gas exchange in response to stand density changes. *Ecological Applications* 16(3):1164-1182. (Impact: 4.1; 82 citations)
- 15- Bailey, J.D. and C.A. Harrington. 2006. Temperature regulation of bud-burst phenology within and among years in a young Douglas-fir (*Pseudotsuga menziesii*) plantation in western Washington, USA. *Tree Physiol.* 26:421-430. (Impact: 3.4; 36 citations)
- 14- G.L. Zausen, T.E. Kolb, J.D. Bailey, and M.R. Wagner. 2005. Long-term impacts of stand management on ponderosa pine physiology and bark beetle abundance in northern Arizona: A replicated landscape study. *For. Ecol. Mgt.* 218:291-305. (Impact: 2.7; 60 citations)

- 13- Bailey, J.D. and N.A. Harjanto. 2005. Teak (*Tectona grandis* L.) tree growth, stem quality and health in coppiced plantations in Java, Indonesia. *New Forests* 30:55-65. (Impact: 1.8; 12 citations)
- 12- Linn, R., J. Winterkamp, J.J. Colman, C. Edminster and J.D. Bailey. 2005. Modeling interactions between fire and atmosphere in discrete element fuel beds. *Intl. J. Wildl. Fire*. 14:37-48. (Impact: 2.5; 57 citations)
- 11- Landis, A.G. and J.D. Bailey. 2005. Reconstruction of age structure and spatial arrangement of pinyon-juniper woodlands and savannas of Anderson Mesa, northern Arizona. *For. Ecol. Mgt.* 204:221-236. (Impact: 2.7; 21 citations)
- 10- Kerns, B.K., S.J. Alexander and J.D. Bailey. 2004. Huckleberry abundance, stand conditions and use in western Oregon: Evaluating the role of forest management. *Economic Botany* 58(4):668-678. (Impact: 0.8; 20 citations)
- 9- Sesnie, S. and J.D. Bailey. 2003. Using history to plan the future of old-growth ponderosa pine. *J. of Forestry* 101(7): 40-47. (Impact: 1.6; 11 citations)
- 8- Bailey, J.D. and W.W. Covington. 2002. Evaluating ponderosa pine regeneration rates following ecological restoration treatments in northern Arizona, U.S.A. *For. Ecol. Mgt.* 155/1-3: 271-278. (Impact: 2.7; 84 citations)
- 7- Bailey, J.D., C. Mayrsohn, P.S. Doescher, E. St. Pierre and J.C. Tappeiner. 1998. Understory vegetation in old and young forests of western Oregon. *For. Ecol. Mgt.* 112/3: 289-302. (Impact: 2.7; **131 citations**)
- 6- Bailey, J.D. and L.H. Liegel. 1998. Pacific Yew (*Taxus brevifolia* Nutt.) growth and site factors in western Oregon. *Northwest Science* 72(4): 283-292 (Impact: 1.0; 3 citations)
- 5- Bailey, J.D. and J.C. Tappeiner. 1998. Effects of thinning on structural development in 40- to 100-year-old Douglas-fir stands in western Oregon. *For. Ecol. Mgt.* 108:99-113. (Impact: 2.7; **190 citations**)
- 4- Hayes, J.P., S. Chan, W.H. Emmingham, J.C. Tappeiner, L.D. Kellogg, and J.D. Bailey. 1997. Wildlife response to thinning young forests in the Pacific Northwest. *J. of Forestry* 95(8):28-33. (Impact: 1.6; **126 citations**)
- 3- Tappeiner, J.C., D. Huffman, D. Marshall, T.A. Spies, and J.D. Bailey. 1997. Density, ages, and growth rates in old-growth and young-growth forests in coastal Oregon. *Can. J. For. Res.* 27(5):638-648. (Impact: 1.7; **167 citations**)
- 2- Bailey, J.D. and L.H. Liegel. 1997. Response of Pacific yew (*Taxus brevifolia*) to partial removal of an overstory. *West. J. App. For.* 12(2):41-43. (Impact: 0.6; 1 citation)
- 1- Dixon, R.K. and J.D. Bailey. 1994. Shoot and root growth of *Acer macrophyllum* in an enriched carbon dioxide environment. *Lesovedeniye* 6:29-35. (Russian w/ English abstract – Impact Factor: ?)

## BOOKS AND BOOK CHAPTERS

- Tappeiner, J.C., D.A. Maguire, T.B. Harrington and J.D. Bailey. 2015. *Silviculture and Ecology of Western U.S. Forests – 2<sup>nd</sup> Edition*. **Oregon State University Press**, Corvallis, OR. 440p. ISBN 978-0-87071-803-8
- Bailey, J.D. and R.K. Speer. 2008. Chapter 15: Understory vegetation responses to group selection thinning and prescribed fire at the Southwest Plateau Fire and Fires Surrogate sites. pp. 259-269. IN: *The Colorado Plateau III* (van Riper and Sogge, eds.). **University of Arizona Press**, Tucson, AZ. 393pp. ISBN 978-0-8165-2738-0
- DeGomez, T. and J.D. Bailey. 2004. *Beyond the Ponderosa: Successful Landscape Trees for Higher Elevations in the Southwest*. **Flagstaff Community Tree Board**, Flagstaff, AZ. 108pp. LCCC#98-85898. Recipient of: *2005 Communication Award from the National Association of County Agricultural Agents*. **Second printing from 1998**, winner of the *1999 Arizona Governor's Pride Award*, *1999 Communication Award from the National Association of County Agricultural Agents*, and *1999 American Society of Horticultural Science's Educational Materials Award*.
- Turner, D.P., D.D. Myrold and J.D. Bailey. 1990. Climate change and patterns of denitrification in the Willamette Basin of western Oregon, USA. IN: *Soils and the Greenhouse Effect* (A.F. Bouwman, ed.) **John Wiley and Sons, Ltd**. ISBN 978-0-4719-23954
- Bailey, J.D. 1987. Quality Assurance for Forest Ecosystem Research. IN: *California Forest Response Program Planning Conference*, Air Resources Board and the Western Conifers Research Cooperative (S.H. Bicknell, ed.) **Humboldt State University Press**.

## REPORTS PUBLISHED

- Lehmkuhl, J.F., W. Gaines, D. W. Peterson, J.D. Bailey, and A. Youngblood. 2015. *Silviculture and monitoring guidelines for integrating restoration of dry mixed-conifer forest and spotted owl habitat management in the eastern Cascade Range*. **PNW-GTR-915**. USDA Forest Service General Technical Report, Pacific Northwest Forest and Rangeland Research Station, Portland OR. 160pp.
- Patton, D.R., R.W. Hofstetter, J.D. Bailey and M.A. Benoit. 2014. *Species richness and variety of life in Arizona's ponderosa pine forest type*. **RMRS-GTR-332**. USDA Forest Service General Technical Report, Rocky Mountain Research Station, Fort Collins, CO. 44 pp.
- Lehmkuhl, J.F., S. Livingston, K. Halupka, E. Knapp, J. Bailey and B. Gaines. 2010. *Creating stand-level prescription that integrate ecological and fuel management objectives across the Eastern Cascades – a workshop*. **Joint Fire Sciences Program Final Report 09-S-01-5**. 36pp.
- Hampton, H.M., S. Sesnie, B. Dickson, J. Rundall, T. Sisk, G. Snider, and J. Bailey. 2008. *Analysis of small-diameter wood supply in northern Arizona*. **Forest Ecosystem Restoration Analysis Project, Center for Environmental Sciences and Education Report**. Northern Arizona University. 74pp.
- Johnston, J., J. Bailey, B. Bond, S. Duncan, D. Hulse, G. Reeves, B. Steel and F. Swanson. 2008. *Non-equilibrium ecosystem dynamics: management implications for Oregon*. **Institute for Natural Resources**. Oregon State University. 36pp.
- Romme, W., C. Allen, J. Bailey, W. Baker, B. Bestelmeyer, P. Brown, K. Eisenhart, L. Floyd-Hanna, D. Huffman, B. Jacobs, R. Miller, E. Muldavin, T. Swetnam, R. Tausch, and P. Weisberg. 2007. *Historical*

*and modern disturbance regimes of piñon-juniper vegetation in the western U.S.* **Colorado Forest Restoration Institute Report**. <http://www.cfri.colostate.edu/reports.htm>

Iniguez, J.M., J.L. Ganey, P.J. Daugherty and J.D. Bailey. 2005. Using cluster analysis and a classification and regression tree model to develop cover types in the sky islands of southeastern Arizona. IN: **RMRS-P-36** (Gottfried et al., eds). USDA FS Rocky Mountain Research Station. 631p.

Muir, P.S., R.L. Mattingly, J.C. Tappeiner, J.D. Bailey, W.E. Elliott, J.C. Hagar, J.C. Miller, E.B. Peterson, and E.E. Starkey. 2002. *Managing for Biodiversity in Young Douglas-fir Forests of Western Oregon*. **USGS Biological Science Report BSR 2002-0006**.

Bailey, J.D. and D. Ide. 2001. *Four Corners Regional Forest Assessment, revised edition*. **Northern Arizona School of Forestry**. 108pp.

King, G.A., R.K. Dixon, J.D. Bailey and others. 1990. *Response and feedbacks of forest systems to Global Change*. **Publication # ERL-COR-636**.

Hardy, J., D. Bachelet, J. Bailey, P. Barnes, S. Holman, H. Gucinski, and D. Turner. 1988. *Ecological Effects of Stratospheric Ozone Depletion*. **EPA Biennial Report to Congress**.

Bailey, J.D. 1986. *Forest Response Program Quality Assurance Implementation Plan*. **Publication # EPA/600/X-86/166** (ERL-COR-350AP).

## MANUSCRIPTS IN PROGRESS

Barros, A., A. Ager, M. Day, H. Preisler, T. Spies, E. White, R. Pabst, K. Olsen, E. Platt, J. Bailey, and J. Bolte. Spatial and temporal dynamics of simulated wildfire, forest management and vegetation succession in a multi-ownership landscape of central Oregon. **IN REVIEW**: *Ecology and Society*

Spies, T. A., E. White, A. Ager, J. Kline, J. Bolte, E. Platt, K. Olsen, R. Pabst, A. Barros, J. Bailey, and others. Using an agent-based model to examine a coupled human and natural system in a fire-prone landscape in Oregon, USA. **IN REVIEW**: *Ecology and Society*

Dunn, C.J. and J.D. Bailey. Aboveground carbon pools and net ecosystem carbon balance following mixed-severity fire at 10 and 22 years post-fire. **FOR**: *Ecosystems*

Bailey, J.D. and C.J. Dunn. The effects of salvage logging on early-seral habitats in *Pseudotsuga* forests of the PNW. **FOR**: *Forest Ecology and Management*

Dunn, C.J. and J.D. Bailey. Fire effects on legacy tree leaf area and productivity in *Pseudotsuga* forests of the PNW. **FOR**: *Tree Physiology*

Platt, E.K., J.D. Bailey and T.A. Spies. Aligning governance with modern federal land management goals. **FOR**: *Ecology and Society*

Reilly, M., J.D. Bailey, C. Dunn and T.A. Spies. Characterizing contemporary (1985-2010) trends in fire size and severity in Pacific Northwest forests. **FOR**: *Geophysical Research Letters*

Cole, E., M. Newton, and J. Bailey. Understory vegetation development 15 years after thinning in 50-year-old Douglas-fir and Douglas-fir/western hemlock stands in western Oregon. **FOR: *Can. J. For. Res.***

Comfort, E.J., C.J. Dunn, J.D. Bailey, J.F. Franklin, K.N. Johnson. Disturbance history and composition shifts in a coupled human-ecological system of Southwest Oregon, U.S.A. **FOR: *Ecological Applications***

Bailey, J.D. and T. Huff. Two decades of Douglas-fir regeneration and growth across alternative silvicultural approaches. **FOR: *Forest Science***

Bailey, J.D., J. Lehmkuhl, L. Irwin *and others*. Silvicultural choices for developing and conserving northern spotted owl habitat in dry-conifer forests. **FOR: *Journal of Forestry***

## **SUBMITTED PRESENTATIONS, POSTERS AND PROCEEDINGS**

R. Miller, J. Johnston and J. Bailey. 2016. Monitoring upland forest restoration treatment on the Malheur National Forest. Presentation at: **SER Monitoring Ecological Restoration Conference**, April 4-8 in Portland, OR.

K. Moriarty, S Matthews, T. Levi, J. Thornton, J. Bailey, M. Linnell and B. Barry. 2016. If we build it, will they come?... Considerations for marten and fisher monitoring. Presentation at: **Oregon Chapter – The Wildlife Society**, February 3-5 in Seaside, OR.

K. Morici and J. Bailey. 2015. Fuel treatment longevity in the Blue Mountains of Oregon. Poster at: **Western Forestry Graduate Student Symposium**, April 27-28 in Corvallis, OR, *and Association for Fire Ecology*, November 16-20 in San Antonio, TX.

J. Bailey and T. Huff. 2014. Structural development of Douglas-fir stands using two-story management and small gaps. Presentation at: **Society of American Foresters National Convention**, October 8-11 in Salt Lake City, UT.

J. Bailey. 2014. Overuse and misuse of “thinning” in modern silviculture. Presentation at: **Society of American Foresters National Convention**, October 8-11 in Salt Lake City, UT.

G. Meigs, R. Kennedy, J. Bailey, and M. Reilly. 2014. Contemporary megafires in the Pacific Northwest: What drives the biggest of the big? Presentation at: **Central Oregon Fire Science Symposium**. April 8 in Bend, OR.

K. Moriarty, C. Epps, M. Betts, J. Bailey, D. Hance and W. Zielinski. 2014. Forest structure, season and incentive influence marten movement and patch use. Presentation at: **Western Section - Wildlife Society**, January 30 in Reno, NV, *and Oregon Wildlife Society Annual Conference*, in Bend, OR.

J. Jarnaghan and J. Bailey. 2013. IFMAT-III: the third independent assessment of the status of Indian forests and forestry. Presentation at: **Society of American Foresters 2013 Annual National Convention**. October 23-26 in Charleston, SC.

- K. Vogler and J. Bailey. 2013. Quantifying the availability of woody biomass from forest health and fuel reduction thinning within the NARA region. Poster at: **Northwest Advanced Renewables Alliance 2013 Annual Meeting**, September 10-12 in Corvallis, OR.
- J. Bailey. 2012. Scaling up our understanding of fire risk and fuels management. Special session lead presentation at: **Association for Fire Ecology 5<sup>th</sup> International Fire Ecology and Management Congress**, December 3-7 in Portland, OR.
- K. Vogler and J. Bailey. 2012. Quantifying the availability of woody biomass from fuel reduction and forest health thinning on federally-owned land in the northwestern US. Poster at: **Association for Fire Ecology 5<sup>th</sup> International Fire Ecology and Management Congress**, December 3-7 in Portland, OR.
- Dunn, C., E. Comfort, J. Bailey, J. Franklin, and K. Johnson. 2012. "To Restore or Re-story? That is the Question. Improving Resiliency in Coupled-Human Ecological Systems". Presentation at: **Association for Fire Ecology 5<sup>th</sup> International Fire Ecology and Management Congress**, December 3-7 in Portland, OR.
- J. Bailey. 2012. A broader context for intervention silviculture and fuels management. Poster at: **Society of American Foresters National Convention**, October 24-27 in Spokane, WA.
- J. Bailey, S. Brubaker-Cole, W. Bogley and M. Koretsky. 2012. Contrasting student values about general education vs. major courses: differences among majors, sexes, and standing. Presentation at: **9<sup>th</sup> Biennial University Educators in Natural Resources Conference**, March 22-24 in Fort Collins, CO.
- C. Dunn and J. Bailey. 2011. Improved Estimates of Carbon Emissions from CWD Following Fire Disturbance. Presentation at: **Association for Fire Ecology Interior West Conference**, November 14 in Snowmass, UT.
- E. Comfort, C. Dunn, and J. Bailey. 2011. Fire Regimes, Forest Change and Restoration of Forested Landscapes in the Middle Applegate Watershed, Oregon. Presentation at: **Association for Fire Ecology Interior West Conference**, November 14 in Snowmass, UT.
- E. Comfort and J. Bailey 2011. The implications of fuel heterogeneity at management boundaries for fire behavior and wildlife habitat in the Elk Creek Watershed, Oregon. Poster at: **Association for Fire Ecology Interior West Conference**, November 14 in Snowmass, UT.
- E. Comfort, C. Dunn, and J. Bailey. 2011. Disturbance-based Restoration Strategies in Dry-mixed Conifer/Hardwood Forests of Southern Oregon's Siskiyou Mountains. Presentation at: **Missoula Fire Lab Fall Seminar Series**, November 10 in Missoula, MT.
- M. Vanderberg, K. Boston and J. Bailey. 2011. Maximizing carbon storage in the Appalachians: a method for considering the risk of disturbance events. Presentation at: **17<sup>th</sup> Central Hardwood Forest Conference**, with published proceedings - GTR-NRS-P-78:134-142.
- S. Khanna, S. Rivera-Mills, L. Becker, V. Tolar Burton, J. Bailey, A. Davis-White Eyes, R. Sanderson and J. Walkin. 2011. Global Learning Action Plan. Presentation at: **Association of American Colleges and Universities Shared Futures: General Education for a Global Century**, July 31-August 5 in Ellicott City, MD.

- S. Brubaker-Cole, W. Bogley and J. Bailey. 2011. Committing to General Education Reform: Beyond Dysfunctional *Ad Hoc* Committees. Presentation at: **Association of American Colleges and Universities – General Education and Assessment 3.0: Next-level Practices Now**, March 3-5 in Chicago, IL.
- C. Dunn and J. Bailey. 2010. Snag Fall, Coarse Wood Decomposition, and Fine Fuel Succession Following High-Severity Fire in Dry-mixed Conifer Forests of Oregon’s Cascades. Presentation and poster at: **International Association of Wildland Fire 3rd Fire Behavior and Fuels Conference**, October 27 in Spokane, WA.
- E. Comfort and J. Bailey. 2010. Fuel heterogeneity at stand boundaries in the Elk Creek watershed of southern Oregon. Poster at: **International Association of Wildland Fire 3rd Fire Behavior and Fuels Conference**, October 27 in Spokane, WA.
- C. Dunn and J. Bailey. 2010. Post-fire Fuel Dynamics and Future fire Severity in Dry-mixed conifer Forests of Oregon’s Cascades. Presentation at: **Central Oregon Fire Science Symposium**, April 12 in Bend, OR.
- J. Bailey. 2010. General education trends: implications for forestry and other professional program students. Presentation at: **8<sup>th</sup> Biennial University Educators in Natural Resources Conference**, March 19-21 in Blacksburg, VA.
- C. Dunn and J. Bailey. 2009. Post-fire Fuel Dynamics and Future fire Severity in Dry-mixed conifer Forests of Oregon’s Cascades. Presentation at: **Association for Fire Ecology’s International Congress on Fire Ecology and Management: Fire as a Global Process**, December 12 in Savannah, GA.
- J. Bailey and E. Comfort. 2009. Balancing fire risk and northern spotted owl recovery in dry mixed-conifer forests in southern Oregon. Presentation at: **Society of American Foresters National Convention**, October 3 in Orlando, FL.
- C. Dunn and J. Bailey. 2008. Fuel Succession Following High Mortality Wildfire in Eastern Slope Cascade Mixed-Conifer Forests of Oregon. Poster presentation at: **“The ’88 Fires: Yellowstone and Beyond” - International Association of Wildland Fire**, September 12 in Jackson Hole, WY.
- A. Landis and J. Bailey. 2008. Diablo Trust pinyon-juniper restoration sites: restoring structure to woodlands and savannas, **USDA Forest Service RMRS-P-51:141**.
- J. Bailey. 2008. Forty years later at Taylor Woods: Merging the old and new. Poster presentation at: **Fort Valley Experimental Forest Centennial Celebration**, August 7-9 in Flagstaff, AZ. **USDA Forest Service RMRS-P-53CD**.
- J. Bailey. 2008. Singing in the rain: uses and misuses of field labs in natural resources education. Presentation at: **7<sup>th</sup> Biennial University Educators in Natural Resources Conference**, March 13-15 in Corvallis, OR.
- H. Hampton, S. Sesnie, B. Dickson, J. Rundall, G. Snider, J. Bailey and T. Sisk. 2007. Building agreement on and estimating the supply of restoration-based sources of small diameter wood in northern Arizona. Presentation at: **9<sup>th</sup> Biennial Conference of Research on the Colorado Plateau**, November 7-10 in Flagstaff, AZ.

- J. Bailey and M. Konoshima. 2007. Modeling temporal dynamics to fuels management treatments. Poster presentation at: **2<sup>nd</sup> International Fire Behavior and Fuels Conference**, March 26-30 in Destin, FL.
- M. Konoshima, H. Albers and J. Bailey. 2007. Efficient landscape fire risk management: A spatial endogenous risk framework. Poster presentation at: **2<sup>nd</sup> International Fire Behavior and Fuels Conference**, March 26-30 in Destin, FL.
- J. Bailey, S. Haase, J. McIver and C. Edminster. 2006. Silvicultural effectiveness of Fire and Fire Surrogate fuels treatments in western ponderosa pine forests. Oral presentation at: **3<sup>rd</sup> International Fire Ecology and Management Congress**, November 13-17 in San Diego, CA.
- M. Irwin, J. Bailey, and A. Finkral. 2006. Initial understory response to treatments and slash arrangements in the pinyon-juniper woodlands of northern Arizona. Poster presentation at: **Conserving and Restoring Frequent Fire Landscapes of the West: Linking Science, Collaboration and Practice**, October, 2006 in Flagstaff, AZ.
- J. Bailey and C. Edminster. 2005. Fire and Fire Surrogate research: program overview and overstory vegetation dynamics in northern Arizona. Oral presentation at: **8<sup>th</sup> Biennial Conference of Research on the Colorado Plateau**, November 7-10 in Flagstaff, AZ.
- K. Sabo, C. Seig, J. Bailey and S. Hart. 2005. Allocation of woody and herbaceous biomass in ponderosa pine stands varying in stand structure and burn history. Poster presentation at: **8<sup>th</sup> Biennial Conference of Research on the Colorado Plateau**, November 7-10 in Flagstaff, AZ.
- F. Hassler and J. Bailey. 2005. Dynamics of juniper invaded grasslands and old-growth woodlands in and near Wupatki National Monument, northern Arizona. Oral presentation at: **8<sup>th</sup> Biennial Conference of Research on the Colorado Plateau**, November 7-10 in Flagstaff, AZ.
- R. Linn, J. Bailey and C. Edminster. 2005. Using a physics-based wildfire behavior model to guide fuels management at wildland-urban interfaces. Poster at: **Wildland Fire Conference**, February 16-18 in Albuquerque, NM, *and* **National Silviculture Workshop**, June 6-10 in Lake Tahoe, NV.
- B. Dickson, Y. Xu, H. Hampton, J. Prather, J. Palumbo, J. Bailey, W. Romme, and T. Sisk. 2005. Spatial Tools for Predicting the Effects of Fuels and Restoration Treatments on Forested Landscapes. Southwest Section meeting of the **Society of American Foresters**, May 11-13 in St. George, UT.
- N. McDowell, H. Adams, J. Bailey, T. Kolb, D. Falk. 2005. Using stable isotopes of tree rings to assess physiological response to disturbance. In: *Stable isotope analysis of trees: new methods, new uses*. Special session of the **American Association of Geography**, April 20 in Denver, CO.
- S. Stevens and J. Bailey. 2005. Changes in Forest Structure and Resulting Fire Behavior as a Consequence of Fire and Fire Surrogate Treatments in Ponderosa Pine Forests of Northern Arizona. Poster presentation at: **2005 Wildland Fire Conference**, February 16-18 in Albuquerque, NM.
- J. Bailey and C. Harrington. 2004. How does cold temperature impact field phenology of Douglas-fir in western, Washington, USA. Oral presentation at: **Ecological Society of America 89<sup>th</sup> Annual Meeting**, August 5 in Portland, OR.

- J. Bailey, J. Smith and C. Miller. 2003. Centennial Forest: Restoring forests with multi-aged group selection management. Oral presentation at: **Southwest Fire Initiative Conference**, April 29 in Flagstaff, AZ.
- J. Bailey and T. Kolb. 2002. Teaching silvics: student performance and evaluations in web-based and traditional classroom courses. Oral presentation at: **4<sup>th</sup> Biennial Conference on University Education in Natural Resources**, March 14-17 in Raleigh, NC.
- E. Brischler and J. Bailey. 2002. Size distribution, spatial arrangement and habitat value of *Quercus gambelii* in northern Arizona pine-oak stands. Poster presentation at: **Rocky Mountain Ecosystems: Diversity, Complexity and Interactions**, July 15-19 in Pullman, WA.
- Z. Chen, J. Bailey, K. Clancey and M. Wagner. 2002. Entomological research on the fire and fire surrogate treatments in Arizona and New Mexico. Poster presentation at: **National Forest Protection Coordination Conference**, April 16-17 in Madison, WI.
- M. Wagner and J. Bailey. 2001. Entomological aspects of long-term large-scale forest health research at Northern Arizona University. Presentation at: **Boreal Odyssey (Volume 54)**.
- J. Bailey and M. Trenam. 2001. Implementing fire and fire surrogate treatments in northern Arizona ponderosa pine forests – changes in stand structure with and after treatment. Oral presentation at: **6<sup>th</sup> Biennial Conference of Research on the Colorado Plateau**, November 5-9 in Flagstaff, AZ.
- J. Bailey, M. Wagner and J. Smith. 2001. Stand Treatment Impacts on Forest Health (STIFH): Structural responses associated with silvicultural treatments. IN: *Proceedings of the 5<sup>th</sup> Biennial Colorado Plateau Meeting* (Van Riper *et al.* eds.) **USGSFRESC/COPL/2001/24**, pp.137-146. (14 citations)
- S. Sesnie and J. Bailey. 2001. Testing the Forest Vegetation Simulator (FVS) for assessing forest health conditions on the Kaibab Plateau of northern Arizona. Poster presentation at: **IUFRO Forest Modeling for Ecosystem Management, Forest Certification and Sustainable Management**, August 12-17 in Vancouver, BC.
- J. Bailey, P. Parysow, M. Wagner and M. Paz. 2000. Tropical Forestry Short Course with Field Experience in Honduras. Poster presentation at: **Society of American Foresters – National Convention**, November 16-20 in Washington, DC.
- B. Kerns and J. Bailey. 2000. Examination of understory huckleberry species abundance in old-growth, thinned and unthinned Douglas-fir stands of western Oregon. Poster presentation at: **Ecological Society of America**, 85<sup>th</sup> Annual Meeting, August 6-10 in Snow Bird, UT.
- M. Moore, J. Bailey, P. Parysow, B. Fox, S. Andariese, J. Thompson, Y-S Kim, and W. Zipse. 2000. Information technology across the curriculum in the School of Forestry, Northern Arizona University. Poster presentation at: **3<sup>rd</sup> Biennial Conference on Higher Education in Natural Resources**, March 25-28 in Columbia, MO.
- J. Bailey, M. Wagner and J. Smith. 1999. Stand Treatment Impacts on Forest Health (STIFH): Structural responses associated with silvicultural treatments. Poster presentation at: **5<sup>th</sup> Biennial Colorado Plateau Meeting**, October 26-29 in Flagstaff, AZ.

Mann, S, M. Lowley, M. Wagner, K. Smith and J. Bailey. 1997. Butterfly abundance and diversity under three forest stand conditions in northern Arizona. Poster presentation at: **Entomological Society of America National Meeting**, December 14-18 in Nashville, TN.

Bailey, J., R. Dixon, and R. Rose. 1991. Ontogeny and ecophysiology of bigleaf maple (*Acer macrophyllum*) in an enriched carbon dioxide environment. IN: **U.S.-India Workshop on UV-B Radiation and Global Climate Change**, January 8-11 in New Delhi, India.

W. Robarge, J. Bailey and C. Palmer. 1989. The Effect of Air-Drying on the Chemical Analyses of Soils from Spruce-fir Ecosystems. **19<sup>th</sup> International Symposium on Environmental Chemistry**, May 22-24 in Jekyll Island, GA.

D. Bachelet, D. Turner, and J. Bailey. 1989. A conceptual model for the growth of a Pacific Northwest forest when subjected to increased UV-B radiation. **7th International Conference on Ecological Modeling**, January 9-13 in Sao Carlos, Brazil.

## INTERNATIONAL EXPERIENCE AND COLLABORATION

October 2015. Seoul, Korea. Visiting Scientist at Seoul National University to coordinate on silviculture and fire curriculum. Attended 6<sup>th</sup> International Wildland Fire Conference and initiated planning for ASEAN training courses.

March 2013. Uppsala, Sweden. Visiting Scientist at: *Sveriges Lantbruksuniversitet*: Coordination on silviculture curriculum, forest restoration and biomass energy research.

February 2013. Palencia, Spain. Visiting Lecturer at: *Universidad de Valladolid*: coordination on silviculture and fire effects research, as well as curriculum development.

August 2011. Ellicott City, MD. AAC&U Global Learning Initiative: Summer Institute training course for curriculum enhancement.

March 2001 - May 2002. Honduras. Sustainable Management of Tropical Forests: short-course with field experience (planning and implementing a 3-week Short Course).

October 1999. Chihuahua, Mexico. Participated in Research and Cultural Exchange, organized by Chihuahua State *Asociacion Mexicana de Profesionales Forestales*.

July 1999. Tlaxcala and Candelaria, Mexico. Research Exchange, funded by USDA Foreign Agricultural Service, Research and Scientific Exchanges Division.

August 1997. Arizona, USA. Assisted in organization of Research and Cultural Exchange with *Asociacion Mexicana de Profesionales Forestales*, organized by Southwestern SAF.

September 1989. Oregon, USA. Organized an International Working Group Meeting on UV-B Radiation Effects on Vegetation (5 nations), funded by U.S. Environmental Protection Agency.

July 1987. Frieburg, Germany. Participated in European Visual Damage Survey Standardization Training (25 nations), funded by USDA Forest Service.

## GRANTS RECEIVED

| As PI:                                     |                           |         |                                                                                                                                                         | TOTAL GRANTS:                                                                              | \$8,445,849         | \$ 3,371,031        |
|--------------------------------------------|---------------------------|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|---------------------|---------------------|
| PI                                         | Co-PIs                    | Years   | Title                                                                                                                                                   | Funding Agency                                                                             | Amount              | Competitive         |
|                                            |                           |         |                                                                                                                                                         | As PI - GRAND TOTAL:                                                                       | \$ 6,877,479        | \$ 2,104,661        |
| Bailey, J                                  | Linnell, M                | 2015-20 | Red tree vole use of artificial nest platforms in 20-60-year-old forest stands in the Coast Range, Oregon.                                              | USDA Forest Service - PNW Research Station                                                 | \$ 46,500           |                     |
| Bailey, J                                  | Cole, E<br>Powers, M      | 2015-20 | Westside Mature Forest Study - III                                                                                                                      | USDI Bureau of Land Management                                                             | \$ 99,998           |                     |
| Bailey, J                                  | Dunn, C                   | 2015-20 | Influence of landscape disturbance on opportunities to achieve land and fire management objectives.                                                     | USDA Forest Service - Rocky Mountain Research Station                                      | \$ 239,962          |                     |
| Bailey, J                                  | Johnston, J               | 2015-19 | Southern Blues CFLRP forest vegetation and fuels multi-party monitoring.                                                                                | USDA Forest Service - Malheur National Forest                                              | \$ 89,940           |                     |
| Bailey, J                                  |                           | 2015-19 | Assessing and addressing effects of forest management on Pacific marten habitat in western forests.                                                     | USDA Forest Service - PNW Research Station (Olympia)                                       | \$ 169,312          |                     |
| Bailey, J                                  | Hatten, J<br>Kerns, B     | 2015-16 | Assessing the effects of fuel reduction treatments on ecosystem structure and function.                                                                 | USDA Forest Service - PNW Research Station                                                 | \$ 158,780          |                     |
| Bailey, J                                  | Hatten, J                 | 2014-19 | Ecosystem processes and productivity: biomass and nutrient cycling in the Pacific Northwest.                                                            | USDA Forest Service - PNW Research Station                                                 | \$ 282,737          |                     |
| Bailey, J                                  |                           | 2014-17 | Assessing fuel management strategies to reduce landscape-level wildfire risk and transmission.                                                          | USDA Forest Service - PNW Research Station                                                 | \$ 487,969          | \$ 355,000          |
| Bailey, J                                  |                           | 2014-17 | Landscape-scale restoration strategies for central Oregon.                                                                                              | USDA Forest Service - PNW Research Station                                                 | \$ 305,500          |                     |
| Bailey, J                                  |                           | 2007-16 | National Advanced Silviculture Program: Inventory/Monitoring and Decision Support module.                                                               | USDA Washington Office plus other agencies                                                 | \$ 1,030,000        | \$ 1,030,000        |
| Bailey, J                                  | Slauson, K<br>Moriarty, K | 2014-16 | Effects of landscape-scale forest management on Pacific marten occupancy and population connectivity in Coastal Oregon.                                 | OSU Forest Research Laboratory Fish & Wildlife Habitat in Managed Forests Research Program | \$ 173,000          | \$ 105,661          |
| Bailey, J                                  | Dunn, C                   | 2013-14 | Mixed-Severity Fire and Salvage Logging in Dry Forests of Oregon's Western Cascades: Temporal Trends in Carbon Stores and Ecosystem Productivity.       | Joint Fire Sciences Program – Bureau of Land Management (GRIN Award)                       | \$ 25,000           | \$ 25,000           |
| Bailey, J                                  | Fjeran, T                 | 2013-14 | Treatment options for controlling the spread of <i>Brachypodium sylvaticum</i> : risks, implementation, effectiveness and impacts on native vegetation. | OSU College Forests Research and Outreach Program                                          | \$ 33,000           | \$ 33,000           |
| Bailey, J                                  |                           | 2011-16 | Assessing the ecological effects of wildfire in the Pacific Northwest at regional scales.                                                               | USDA Forest Service - PNW Research Station                                                 | \$ 427,206          |                     |
| Bailey, J                                  |                           | 2011-15 | Forest, People, Fire: Vegetation and GIS modeling.                                                                                                      | USDA Forest Service - PNW Research Station                                                 | \$ 269,555          |                     |
| Bailey, J                                  |                           | 2014-15 | Long-term ecosystem productivity study - remeasurement.                                                                                                 | USDA Forest Service PNW Research Station                                                   | \$ 89,020           |                     |
| Bailey, J                                  | Johnson, K<br>Franklin, J | 2011-16 | Fire regimes, forest change and restoration of forested plant associations in the Middle Applegate Watershed, Oregon.                                   | USDI Bureau of Land Management                                                             | \$ 197,000          |                     |
| Bailey, J                                  | Puettmann, K<br>Betts, M  | 2010-14 | Species and habitat recovery dynamics after thinning treatments.                                                                                        | USDA Willamette National Forest                                                            | \$ 48,000           |                     |
| Bailey, J                                  |                           | 2008-14 | Structure and dynamics of dry conifer forests in Central Oregon – vegetation and GIS modeling.                                                          | USDA Forest Service - PNW Research Station                                                 | \$ 270,000          |                     |
| Bailey, J                                  |                           | 2009-13 | Structure and dynamics of post-fire environments in the central Cascade mountains of Oregon.                                                            | OSU Foundation                                                                             | \$ 150,000          |                     |
| Bailey, J                                  |                           | 2006-12 | Fire Behavior and Fire Risk Modeling for Southern Oregon – implications for northern spotted owl habitat.                                               | OSU Foundation - Mealey-Boise/Boone and Crockett                                           | \$ 260,000          | \$ 260,000          |
| Bailey, J                                  |                           | 2006-10 | Fuels and fire management effects.                                                                                                                      | USDA Forest Service - Rocky Mountain Research Station                                      | \$ 63,000           |                     |
| Bailey, J                                  |                           | 2007-8  | Historic age structure and fire regimes of Pacific silver fir forests in Parks Creek area.                                                              | USDA Willamette National Forest                                                            | \$ 17,000           |                     |
| Bailey, J                                  | McComb, B                 | 2007-8  | Alternative stand establishment techniques in managed forest landscapes: Long-term effects of gap size.                                                 | OSU Forest Research Laboratory Fish & Wildlife Habitat in Managed Forests Research Program | \$ 37,000           | \$ 37,000           |
| Bailey, J                                  |                           | 2005-7  | Southwestern silviculture, fuels and fire management.                                                                                                   | USDA Forest Service - Rocky Mountain Research Station                                      | \$ 60,000           |                     |
| <b>SUB-TOTAL: Oregon State University:</b> |                           |         |                                                                                                                                                         |                                                                                            | <b>\$ 5,029,479</b> | <b>\$ 1,845,661</b> |

|                                                |                                           |           |                                                                                                                           |                                                                               |                     |                   |
|------------------------------------------------|-------------------------------------------|-----------|---------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|---------------------|-------------------|
| Bailey, J                                      |                                           | 2003-7    | Understory vegetation and insect diversity as indicators of forest health.                                                | USDA Forest Service - Rocky Mountain Research Station                         | \$ 129,000          |                   |
| Bailey, J                                      | Wagner, M                                 | 2003-6    | Effects of mechanical treatment and fire on forest vegetation dynamics.                                                   | USDA Forest Service - Rocky Mountain Research Station                         | \$ 418,000          |                   |
| Bailey, J                                      |                                           | 2004-5    | Quantifying juniper invasion and in-fill at Wupatki National Monument.                                                    | Arizona Bureau of Forestry                                                    | \$ 17,000           | \$ 17,000         |
| Bailey, J                                      |                                           | 2003-5    | Assessing 140 years of juniper cover with repeat aerial photography.                                                      | USDI National Park Service CESU                                               | \$ 28,000           | \$ 28,000         |
| Bailey, J                                      |                                           | 2002-6    | Fuel production, slash treatment and burning options following pinyon-juniper woodlands restoration thinning.             | USDA Forest Service - Rocky Mountain Research Station                         | \$ 339,000          |                   |
| Bailey, J                                      | Trenam, M                                 | 2001-3    | Restoring age structure, spatial arrangement and watershed health in pinyon-juniper woodlands.                            | USDI Bureau of Land Management                                                | \$ 35,000           | \$ 35,000         |
| Bailey, J                                      |                                           | 1999-2004 | Using group selection, multi-aged management practices to enhance the use of prescribed fire in the Southwest.            | USDA Forest Service - Rocky Mountain Research Station                         | \$ 470,000          |                   |
| Bailey, J                                      | Sesnie, S<br>Souder, J                    | 1999-2002 | Environmental history as a foundation for adaptive management.                                                            | USDA Forest Service - Rocky Mountain Research Station                         | \$ 111,000          |                   |
| Bailey, J                                      | Goodwin, K                                | 1998-2002 | Effect of soil type on natural regeneration of ponderosa pine in the Southwest.                                           | USDA Forest Service - Rocky Mountain Research Station                         | \$ 86,000           |                   |
| Bailey, J                                      | Guerra, V                                 | 1999-2001 | Stand dynamics of isolated Pseudotsuga forests in southern North America.                                                 | USDA Forest Service - Rocky Mountain Research Station                         | \$ 32,000           |                   |
| Bailey, J                                      |                                           | 1999-2001 | Managing Gambel oak for improved habitat conditions: an addition to the Stand Treatment Impacts on Forest Health project. | Arizona Bureau of Forestry - Mission Research                                 | \$ 27,000           | \$ 27,000         |
| Bailey, J                                      | DeWald, L                                 | 1998-2001 | Managing fragmented Douglas-fir ecosystems in southwestern North America for long-term sustainability.                    | USDA Foreign Agricultural Service, Research and Scientific Exchanges Division | \$ 28,000           | \$ 28,000         |
| Bailey, J                                      |                                           | 1999-2000 | Stand treatment impacts on forest health (STIFH)                                                                          | Northern Arizona University - Organized Research program                      | \$ 8,000            | \$ 8,000          |
| Bailey, J                                      | Carey, H<br>Daugherty, P<br>Harrington, S | 1999-2000 | Regional assessment of the forest resources in the Four Corners area.                                                     | USDA Forest Service - Region 3, Four Corners Sustainability Initiatives       | \$ 82,000           | \$ 82,000         |
| Bailey, J                                      |                                           | 1998      | Fort Valley Experimental Station tree density restoration.                                                                | USDA Forest Service - Rocky Mountain Research Station                         | \$ 4,000            |                   |
| Bailey, J                                      | Wagner, M<br>Mathiasen, R                 | 1998      | Restoring ponderosa pine ecosystem health.                                                                                | Northern Arizona HBCU/MI Consortium                                           | \$ 7,000            | \$ 7,000          |
| Bailey, J                                      | Covington, W                              | 1997-9    | Role of silviculture in ponderosa pine restoration ecology: stand density management, spacing and prescribed fire.        | Arizona Bureau of Forestry - Mission Research                                 | \$ 27,000           | \$ 27,000         |
| <b>SUB-TOTAL: Northern Arizona University:</b> |                                           |           |                                                                                                                           |                                                                               | <b>\$ 1,848,000</b> | <b>\$ 259,000</b> |

As Principal Investigator at OSU, 42% of \$5M has been raised competitively; only 14% of such funds were raised competitively at NAU (standard for a non-Tier I institution).

Less than 20% of my total grant funds have me as co-PI, though some of them are very large projects (e.g., NARA) of which I only have a small part. Most (81%) of those funds were raised competitively per the following table.

| As Co-PI:    |                                                      |           |                                                                                                                                                               |                                                                   |                                                |                     |                     |
|--------------|------------------------------------------------------|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|------------------------------------------------|---------------------|---------------------|
|              |                                                      |           |                                                                                                                                                               |                                                                   | <b>co-PI GRAND TOTAL:</b>                      | <b>\$ 1,568,370</b> | <b>\$ 1,266,370</b> |
| Blunck, D    | Butler, B<br>Bailey, J<br>Wagenbrenner               | 2015-18   | Multi-scale study of ember production and transport under multiple environmental and fuel conditions. (of \$188K)                                             | Joint Fire Sciences Program                                       | \$ 15,631                                      | \$ 15,631           |                     |
| Davis, EJ    | Spies, T<br>Bailey, J                                | 2015-18   | Go big or go home? Tools and processes for scaling up collaborative forest restoration. (of \$250K)                                                           | OSU College of Forestry - Institute for Working Forest Landscapes | \$ 80,000                                      | \$ 80,000           |                     |
| Sessions, J  | Smith, D<br>Bailey, J<br>Campbell, J                 | 2015-19   | Opportunities for biochar production to reduce forest wildfire hazard, sequester carbon, and increase agricultural productivity of dryland soils. (of \$250K) | OSU College of Forestry - Institute for Working Forest Landscapes | \$ 30,000                                      | \$ 30,000           |                     |
| Wolcott, M   | Sessions, J<br>Bailey, J                             | 2011-16   | Northwest Aviation Renewables Alliance (NARA): Restoration residue feedstock development. (of \$40 million)                                                   | USDA Agriculture and Food Research Initiative - WSU contractor    | \$ 848,370                                     | \$ 848,370          |                     |
| Boston, K    | Bailey, J<br>Sessions, J                             | 2010-14   | Ecological and economic impacts of Glendale Resource Area roadside daylighting projects. (of \$30K)                                                           | USDI Bureau of Land Management                                    | \$ 5,000                                       |                     |                     |
| Bolte, J     | Spies, T<br>Bailey, J                                | 2010-14   | Coupled natural and human systems in fire-prone landscapes: Interactions, dynamics and adaptation. (of \$1.7million)                                          | National Science Foundation                                       | \$ 230,000                                     | \$ 230,000          |                     |
| Newton, M    | Cole, E<br>Bailey, J                                 | 2009-14   | Westside Mature Forest Study - II. (of \$244K)                                                                                                                | USDI Bureau of Land Management                                    | \$ 112,000                                     |                     |                     |
| Lehmkuhl, J  | Livingstone, S<br>Gaines, W<br>Knapp, E<br>Bailey, J | 2009      | Creating stand-level prescriptions that integrate ecological and fuel management objectives across the eastern Cascades. (of \$10K)                           | Joint Fire Sciences Program                                       | \$ 10,000                                      | \$ 10,000           |                     |
| Duncan, S    | Steele, B<br>Bailey, J<br>Bond, B                    | 2007-9    | Ecosystem dynamics policy study. (of \$70K)                                                                                                                   | Oregon Department of Forestry                                     | \$ 10,000                                      |                     |                     |
| Newton, M    | Cole, E<br>Bailey, J                                 | 2006-12   | Westside Mature Forest Study. (of \$378K)                                                                                                                     | Oregon Department of Forestry                                     | \$ 50,000                                      |                     |                     |
|              |                                                      |           |                                                                                                                                                               |                                                                   | <b>SUB-TOTAL: Oregon State University:</b>     | <b>\$ 1,375,370</b> | <b>\$ 1,198,370</b> |
| Wagner, M    | Bailey, J<br>Hart, S.<br>Kolb, T                     | 2002-4    | Insects as ecological indicators for fuel treatment effects in ponderosa pine. (of \$210K)                                                                    | USDA National Research Initiative Competitive Grants Program      | \$ 60,000                                      | \$ 60,000           |                     |
| Arganbright  | Stratton, L<br>Bailey, J                             | 1998-2000 | Changing the paradigm: six perspectives on sustainable forestry in the Intermountain West. (of \$12K)                                                         | Laird Norton Endowment Foundation                                 | \$ 8,000                                       | \$ 8,000            |                     |
| Tappeiner, J | Bailey, J                                            | 1996-9    | Evaluating and projecting spotted owl habitat conditions on ODF lands. (of \$250K)                                                                            | Oregon Department of Forestry                                     | \$ 125,000                                     |                     |                     |
|              |                                                      |           |                                                                                                                                                               |                                                                   | <b>SUB-TOTAL: Northern Arizona University:</b> | <b>\$ 193,000</b>   | <b>\$ 68,000</b>    |

## PAST PROFESSIONAL AND RESEARCH EXPERIENCE

**Assistant/Associate Professor:** School of Forestry, Northern Arizona University, Flagstaff, AZ. 1996-2005 (9 years).

**Faculty Research Assistant/Lecturer:** Department of Forest Resources, Oregon State University, Corvallis OR 1994-96 (3 years).

**Graduate Research Assistant:** Departments of Forest Science and Forest Resources, Oregon State University, Corvallis, OR 1991-94 (3 years).

**Research Technician GS-5** (part-time): USDA Forest Service, PNW Station, Corvallis, OR 1992-93 (2 years).

**Senior Scientist and Quality Assurance Program Manager:** ManTech Environmental Technology Inc., Corvallis, OR 1985-91 (6.5 years).

**Summer Forestry Intern:** Westvaco Corporation Timberlands Research, Summerville, SC and Crozet, VA 1984 and 1982 (2 summers).

**Research Technician Seasonal GS-4:** USDA Forest Service, Winema National Forest, Chemult, OR 1983 (one summer).

## OFF-CAMPUS CONSULTING AND PROFESSIONAL ACTIVITIES

- Pacific Rim fire management training – ASEAN
- Fuels manipulations and silviculture – US Department of Justice
- Indian Forest Management Assessment Team – US Bureau of Indian Affairs
- Fire risk, restoration and fuels treatments – Confederated Tribes of the Warm Springs
- GS-0401 Fire Course Evaluation – USDI BLM
- Reforestation of gas pipelines – Diamond-Shamrock Corporation (Albuquerque, NM)
- Vegetation management on Continental Country Club Dam #2 (Flagstaff, AZ)
- Society of American Foresters, Certified Forester Exam development (Bethesda, MD)

## PROFESSIONAL SERVICE

**Associate Editor** (Fire and Fuels Management) – Western Journal of Applied Forestry and, now, Forest Science (2009-

**Manuscript/book reviewer** for: Island Press, Yale University Press, Oregon State University Press, University of Arizona Cooperative Extension, USGS Biological Research Division, *Western Journal of Applied Forestry* (Associate Editor, plus 7 as a reviewer), *Forest Ecology and Management* (27), *Journal of Forestry* (7), *Canadian Journal of Forest Research* (4), *Forest Science* (4), *Risk Analysis* (3), *International Journal of Wildland Fire* (2), *Tree Physiology* (2), *Trees- Structure and Function* (2), *Journal of Environmental Management* (2), *Global Change Biology* (2), *New Forests* (2), *Southern Journal of Applied Forestry*, *Canadian Journal of Botany*, *Fire Ecology*, *Conservation Biology*, *Landscape and Urban Planning*, *American Midland Naturalist*, *Rangeland Ecology and Management*, *Journal of Arid Environments*, *Madrono*, *Natural Areas Journal*, *Weed Research* and *Journal of Applied Ecology*.

**Review Panel Member** for: USDA CSREES NRI Program (2008 and 2009); Joint Fire Sciences Program (2009, 2010, 2015 and 2016)

**Proposal reviewer** for: National Science Foundation, USDA Research and Scientific Exchanges Division, NAU School of Forestry, Tahoe Science Consortium, and USDA Forest Service Rocky Mountain and Pacific Northwest Research Stations

**Promotion and Tenure dossier reviewer** for: Oregon State University, Northern Arizona University and University of Florida

**Federal and State Agency Panel Member** for: National Advance Silviculture Program training coordinator for Inventory/Monitoring and Decision Support (2007-2016); US Fish and Wildlife Service Dry Forest Landscape Working Group (2009-2015) and Northern Spotted Owl Recovery Plan Science Review Committee (2010-13); Oregon Department of Forestry Science Assessment Team (2010-12); Continuing Education in Ecosystem Management planning (1997-2003); and the Oregon Forest Biomass Working Group Sustainability Roundtable (2012).

### Committee Service:

University service

- University Curriculum Council (2015-

- OSU Task for Learning Management Systems (2013-2014)
- OSU Global Learning Initiative Task Force (2011-13)
- University Council on Student Engagement and Experience (2008-2012)
- *ad hoc* Baccalaureate Core Review/Revision Committee, **Co-Chair** (2008-2010)
- Faculty Senate (2008-2010)
- Baccalaureate Core Committee (2006-2008); **Co-Chair 2008**
- NAU Center for Sustainable Environments – Steering Committee (2002-2005)
- NAU Academic Standards Committee (2000-2003)
- Distributed Learning Program Delivery Coordination Council (2000-2002)

#### Departmental/College service

- FERM Promotion and Tenure Committee (2015-
- Faculty Advisor to Student Association for Fire Ecology (2012-
- Professional Forestry Undergraduate Curriculum Committee (2006-10; 2013-15) **Chair**
- FERM Graduate Program Faculty; AOC Lead (2010-
- College of Forestry, Curriculum and Advising Committee (2010-
- Faculty Advisor to Student Chapter of the Society of American Foresters (2010-
- College Promotion and Tenure Committee (2014-2015)
- College of Forestry, Forest Director Search Committee (2011-12)
- Faculty of Forest Management Curriculum Committee (2010-12) **Chair**
- College of Forestry, Dean's Advisory Committee (2006-2008)
- 5<sup>th</sup> University Educators in Natural Resources Conference, **Program Chair** (2008)
- College of Forestry Student Support Services Assistant Search Committee (2007)
- Department of Forest Resources, Office Assistant Search Committee (2007)
- Department of Forest Resources, Department Head Search Committee (2007)
- College of Forestry Advisory Committee – Reorganization sub-committee **Chair** (2006-7)
- Department of Forest Resources, Faculty Review (P&T) Committee (2006-2007)
- OSU Research Forests: Advisory Committee and Silvicultural Themes Team (2006-)
- OSU Department of Forest Resources Undergraduate Curriculum Committee (2006-2008)
- NAU Fire Science Academy Planning Committee (2005)
- School of Forestry, Fire Science Position Search Committee **Co-Chair** (2005)
- NAU Centennial Forest, Silviculturist and Technical Committee **Chair** (2000-2005)
- School of Forestry, Distance Education Coordinator (2005)
- 3<sup>rd</sup> University Educators in Natural Resources Conference Planning Committee (2004)
- School of Forestry, Strategic Planning Committee (2003)
- NAU Centennial Forest **Acting Director** (2003)
- School of Forestry, Curriculum Committee (2002-2003)
- School of Forestry, Graduate Studies Committee (2001-2003)
- International Academic Exchanges Committee (2000-2001)
- Faculty Advisor to Xi Sigma Pi, Alpha Pi chapter (1998-2003)
- School of Forestry, Information Technology Committee (1999-2005)
- School of Forestry Curriculum Review Committee (1998-2000)
- School of Forestry, Mission Research Review Committee (1999-2000, 2002-2003)
- School of Forestry, Forest Biometrician Search Committee (**Chair**, 1998)
- Chair's Advisory Committee (1997-8, 2001-2, 2002-3)
- Recruitment, Retention and Placement staff search committee (1997, 2005)

#### Society of American Foresters – professional service

- 2009- Oregon Society of American Forester, Executive Committee
- 2009- Student Chapter Advisor
- 2001 and 2003 Southwest Section Meeting, Program Coordinator
- 1999-2001 Chair-Elect, Chair and Past-Chair, San Francisco Peaks Chapter
- 1998 Secretary/Treasurer, San Francisco Peaks Chapter
- 1997-8 and 2002-5 Faculty Advisor to NAU Student Chapter of the SAF
- 1997 SAF/AMPF Biennial Meeting Program Sessions Chair

2014- Oregon Prescribed Fire Council, Executive Committee

## **COMMUNITY SERVICE**

- The Arboretum at Flagstaff, Board Member (2002-2006)
- Flagstaff Big Brothers-Big Sisters "NAU Pipeline" program (2000-2005)
- Flagstaff Community Tree Board, member (1996-2000)
- Teaching/speaking to local Middle and High Schools, businesses and organizations
- Unitarian-Universalist Fellowship of Corvallis, OR and of Flagstaff, AZ (1985-):
  - Teacher, committee service and chairs, and Board of Trustees (including executive offices)