2014 Annual Report

to the USDA Forest Service under Sponsor Award #14-DG-11031600-055 for 2014 (NAU Projects 1002442-1002446) and #15-DG-11031600-073 for 2015 (NAU Projects 1002742-1002747)



Submitted by:

W. W. Covington

Ecological Restoration Institute Northern Arizona University

P. O. Box 15017 • Flagstaff • AZ • 86011 Tel 928-523-7854• Fax 928-523-0296• Email Kathleen.Mitchell@nau.edu

Summary

This report presents an integrated and coordinated series of actions for \$2.4 million awarded to the ERI in Fiscal Years 2014 and 2015 under CFDA 10.694, Southwest Forest Health and Wildfire Prevention.

The information provided herein reflects our annual progress as of 07/01/2015 and comprises the final report for 2014 deliverables conducted under #14-DG-11031600-055 (NAU Projects 1002442-1002446). 2015 deliverables under #15-DG-11031600-073 for 2015 (NAU Projects 1002742-1002747) have just started.

All of the activities (deliverables) summarized in this report respond to land manager and stakeholder requests and needs. The deliverables are informed by best available science and scientific evidence which is translated into the language and product appropriate for the target audience. The ERI actively delivers information using a variety of approaches that includes individual and group presentations and discussions, to printed and electronically accessible fact sheets, short technical reports, longer white papers and management reports, and peer reviewed archival literature.

Annual Report to the USDA Forest Service For 2014 & 2015

FY14 Deliverables (Final) - #14-DG-11031600-055 Project 1: Science Support for Collaborative Restoration and Conservation	
Project 2: Information Analysis to Assist Evidence-Based Conservation	
Project 3: Ecological Monitoring and Evaluation for Adaptive Management	
Project 4: Understanding and Solving the Economic, Social, and Political Issues and Opportunities of Ecological Restoration	•
Project 5: State, Tribal and Private Forestry - The All Lands Approach	Ĺ
Project 6: Services to the Intermountain West12	L
Project 7: Duty 5 under the ACT. Provide annual progress reports24	ţ
FY15 Deliverables (Progress) - #15-DG-11031600-073	
Landscape Scale	;
Project 2: Information Analysis to Assist Evidence-Based Conservation	5
Project 3: Ecological Monitoring and Evaluation for Adaptive Management	7
Project 4: Understanding and Solving the Economic, Social and Political Issues and Opportunities of Ecological Restoration	3
Project 5: State, Tribal and Private Forestry – The All-Lands Approach)
Project 6: Services to the Intermountain West)
Project 7: Duty 5 under the ACT. Provide annual progress reports	2

FY14 Deliverables (Final) - #14-DG-11031600-055

Pro	Project 1: Science Support for Collaborative Restoration and Conservation		
	verable	Status	
	Provide Support for the Four Forest R dscape Restoration Act project	estoration Initiative (4FRI), a Collaborative Forest	
a) Report on technical assistance for science and monitoring. This includes: small group leadership, assistance to help incorporate the adaptive	 a) Technical assistance for science and monitoring Vosick. 12/4/14. Assistance for the Public Meeting to discuss the FEIS. 40 participants 		
n ti	nanagement and monitoring plan into he final EIS, and monitoring plan	• Vosick and Waltz. 10/1-2/14 Assistance with visit from GAO Review and Field Tour	
implementation planning	• Covington, W and D. Vosick. 1/20/15. Presentation on 4FRI to the Arizona State Senate Committee on Rural Affairs and the Environment.		
	• Vosick, D., 1/26/15, Presentation on 4FRI to the Working Session of the Flagstaff City Council and Coconino Board of Supervisors.		
		 Greco, B. Conducted conference call with A-S NF Forest Leadership Team regarding ERI support to 2nd 4FRI NEPA Planning process. January 28, 2015 	
l a	Summarize in a Fact Sheet lessons earned about leadership and idministrative assistance to the 4FRI teering committee	 b) Esch, B.E. 2015. Fact Sheet: Administrative Support in Collaborative Forest Restoration. ERI Fact Sheets (Doc# 194). Ecological Restoration Institute, Northern Arizona University. 2 p. <u>http://library.eri.nau.edu/gsdl/collect/erilibra/index/as</u> <u>soc/D2015014.dir/doc.pdf</u> 	
V c	Report on IT support for the 4FRI Website and BASECAMP (an online collaborative work space), Website and Administration	 c) IT, Website and Administration Support IT and Website Support. Continued maintenance of the 4FRI Website. <u>Administrative Support for 4FRI includes</u>: Notetaking and coordination for Steering Committee Calls. Note-taking, coordination, site scheduling and management for General Meetings. Management of BASECAMP an internal on-line communication tool Steering Committee Calls: Generally occur on the 1st and 3rd Tuesday of the month and last 1.5 hours: 6/17/14; 7/15/14; 8/19/14; 9/2/14; 	

10/7/14; 10/21/14; 11/4/14; 11/18/14; 1/6/14;
2/3/15; 2/17/15; 3/10/15; 3/17/15; 4/7/15;
4/14/15; 5/5/15; 5/19/15; 6/9/15; 6/16/15.
Stakeholder Meetings: 6/25/14; 7/23/14; 8/27/14;
9/24/14; 10/22/14; 12/11/14; 1/14/15; 2/25/15;
3/25/15; 4/22/15
Coordination for a Museum of Northern Arizona
programs titled, 4FRI* and the Future of our
Forests Wednesday, April 30 th . Over 100 people
in attendance.
 <u>Co-Leadership of Stakeholder Group</u>: Includes
chairing meetings, agenda development, assisting
with media requests, organizing field trips, support
for public meetings, managing work flow, navigating
conflicts and problem solving. Responsibilities also
involved representing the stakeholders during the
conflict resolution process. A co-chair serves a term
of 6 months and substitutes or assists other co-chairs
as needed. State funding is leveraged with federal
funding to pay for co-leadership.
▶ SHG Meeting Lead on: 10/22/14; 12/11/14;
2/25/15; 3/25/15
<u>Other 4FRI Support Activities:</u>
▶ Vosick and Waltz. 10/1-2/14 Assistance with visit
from GAO Review and Field Tour
➢ Vosick. 12/4/14. Assistance for the Public
Meeting to discuss the FEIS. 40 participants
Covington, W and D. Vosick. 1/20/15.
Presentation on 4FRI to the Arizona State Senate
Committee on Rural Affairs and the
Environment.
▶ Vosick, D., 1/26/15, Presentation on 4FRI to the
Working Session of the Flagstaff City Council
and Coconino Board of Supervisors meeting on
4FRI.

a) Deliverable: Report on activities to	rt for other CFLRP pilots and emerging projects
support the national CFLRP monitoring network	Deliverable a:
 i. The ERI will assist the CFLRP National Monitoring Network to hold (3) webinars in partnership with National Forest Foundation addressing monitoring barriers and lessons learned among all 23 funded CFLRP sites. 	 i. Webinars Waltz, A. 7/15/14. Webinar. CFLRP National Monitoring Network & Peer Learning: Meeting national ecological indicators Waltz, A. 9/24/14. CFLRP Nat Mon Network & Peer Learning: Expert Panel reviews
ii. ERI staff will initiate and coordinate a Region 2 and 3 CFLRP Monitoring	ii. Initiate and coordinate R2/R3 CFLRP Monitoring Network
 Network (outcome from R2/R3 CFLRP workshop) with (6) conference calls planned. Goals are shared lessons learned regarding adaptive management and monitoring plans and coordination of cross-site communication with the development of ecological indicator reports. b) Deliverable: Report on support for the 	 Waltz, A. 2/2/15. Strategy planning with NFF on R2/R3 network - deferred to national workshop Deliverable b.i:
national 5-year monitoring report required by Congress under the	• Waltz, A. 8/2/14-10/31/14. Panel Participant.
 Collaborative Forest Landscape Restoration Act. i. ERI staff will participant with USFS Washington Office CFLRP Coordinator to develop and finalize a template for the CFLRP National Ecological Indicator (for 5-yr reporting) and roll out the template utilizing the CFLRP National Monitoring Network. 	 National Indicator Expert Panel. Waltz, A. 10/15/14-11/24/15. Work with USFS WO and TNC on CFLRP 5-yr report - 3 working calls Waltz, A. 6/8/15. CFLRP National Ecological Indicator - steps for next reporting

Г

Project 2: Information Analysis to Assist Evidence-Based Conservation	
Composition and Structure in Southweste	Status nation needs identified on page 50-51 in "Restoring ern Frequent-Fire Forests: A science-based framework RS GTR-310) using an established analytical
a) Deliverable: A systematic review addressing an information need. The review will be published to the ERI web site and delivered to practitioners.	 a) Sánchez Meador, A., J. D. Springer, D.W. Huffman, J. E. Crouse, M. A. Bowker. "Ecological restoration treatments improve soil function in frequent-fire forests of the western United States: A systematic review". Internal Review and anticipated for submission to Restoration Ecology later in 2015. ERI Manuscript # 186.

Project 3: Ecological Monitoring and Evaluation for Adaptive Management		
De	liverable	Status
3.1	l) Develop and initiate new LEARN stud Forest (Build from FY13)	ly in a mixed-conifer forest on the Coconino National
a)	Work with Coconino National Forest to develop treatment alternatives and study questions	a) Huffman, D., Greco, B, Sensibaugh, M., Sanchez Meador, A. 12/1/2014. Met with the Mogollon Rim District staff (5-hour meeting) to discuss treatment alternatives, design, and the "path forward" for our mixed conifer LEARN study.
b)	Summarize baseline data and provide to agency staff	 b) Huffman, D., Greco, B, Sensibaugh, M., Sanchez Meador, A. 12/1/2014. Conducted presentation (PowerPoint and handouts) to provide an update on our work and summarize baseline data we collected last summer. Attendees were also provided more detailed summaries in electronic form for their NEPA specialist.
c)	Summarize reference conditions and present findings in journal article, conference, or workshop	 c) Presentation at the 2014 Society of American Foresters' National Convention, Session: Sustainability from a Forest Ecology and Silviculture Perspective. Rodman, K.C., Sanchez Meador, A.J., Huffman, D.W. & K.M. Waring. "Reference Conditions and Spatial Dynamics in Southwestern Mixed Conifer Ecosystems". 10/10/14. Salt Lake City, UT. Approximately 25-30 attendees.

3.2) Quantify reference conditions for spatial patterns in warm/dry mixed conifer forests on the Coconino National Forest		
a) One manuscript for peer-reviewed publication	a) Rodman, K.C. 2015. Reference Conditions and Spatial Dynamics in a Southwestern Dry-Mixed Conifer Forest. MS Thesis. Northern Arizona University, Flagstaff. 173 p.	
 b) Workshop and/or field visit for agency staff and interested stakeholders (e.g., 4FRI, Salt River Project, US Fish and Wildlife Service, Arizona Game and Fish, state and local government) 	 b) 3/24/2015. Workshop for Forest Service and State Agencies: "Mixed Conifer Forest Ecology: Emerging Science". Flagstaff, AZ. 26 Attendees. Presentations included: 	
	• Rodman, K. Assessing and analyzing mixed conifer spatial patterns in northern Arizona.	
	• Huffman, D. Reference conditions and fire history at Black Mesa.	
	• Springer, J. Effects of tree cutting and fire on understory vegetation in mixed conifer forests.	
	• Waltz, A. Treatment effectiveness of mixed conifer treatments in the Wallow Fire.	
	Sanchez Meador, A. Overview of the mixed conifer LEARN project on Mogollon RD	
3.3) Wildlife responses to restoration and	hazardous fuels reduction treatments	
a) Cancelled as the result of reduced funds		
 b) Report on pretreatment conditions and progress of the Flagstaff Watershed Protection Project (FWPP) wildlife monitoring 	 b) "Mexican Spotted Owl Habitat monitoring Flagstaff Watershed Protection Project (FWPP) Dry Lake Hills Area". Progress report prepared by Huffman, D., J. Crouse, M. Stoddard, W. Chancellor, J. Roccaforte. Delivered to partners at U.S. Fish and Wildlife Service, US Forest Service, Greater Flagstaff Forests Partnership (GFPP) and the City of Flagstaff. Link to document 	
c) Cancelled as the result of reduced funds		

Project 4: Understanding and So Issues and Opportunities of Eco	olving the Economic, Social, and Political logical Restoration
Deliverable	Status
	understanding of innovative funding approaches for
achieving forest restoration and wildfire r	isk reduction.
a) Provide technical support to implement innovative funding streams.	a) Technical Support
i. Deliverable: Report on activities to support implementation	• Vosick D. 2014. 10/9-10/14.Finding Solutions: Healthy Forests, Vibrant Economy. Moderated Panel on local impacts of fire and flooding. Provided conference summary and facilitated a Q and A at the conference. 200 people. Included weekly planning meetings.
	• During calendar year 2014 and 2015 the ERI worked with Cori Dolan from the University of Arizona to facilitate a conversation between the Coronado National Forest and nonprofit organizations in Southeastern Arizona to identify ways to accelerate restoration on the Coronado National Forest. The Scope of work was to:
	 Scope of work was to. Serve as Lead Coordinator for Southern Arizona restoration funding effort, including convening partners, coordinating meetings and handling all administrative logistics. In cooperation with the other members of the coalition, develop educational materials to explain the goals of and potential mechanisms for the innovative funding effort. In cooperation with other members of the coalition, identify and interview a minimum of ten conservation leaders, business representatives, and elected officials in Southeastern Arizona to assess their reaction to the project and to uncover potential funding mechanisms that can be used to accelerate restoration. Research the most promising funding mechanisms to determine their feasibility for use in Southeastern Arizona. Consider both the pros and cons of each mechanism, the timeline for initiation and implementation, and the costs associated with developing the mechanisms. Prepare this analysis in such a way that it can be used in a future workshop.

	 5. Assist the coalition and the Sky Island Alliance to plan and implement a regional workshop designed to describe the need for accelerated restoration in the Sky Islands, discuss funding mechanisms and build community understanding and support. All deliverables were completed except for assistance to support a workshop (# 5). The workshop was to be funded by the Sky Island Alliance. Due to budget issues and leadership changes at the Sky Island Alliance the workshop was cancelled.
	In a nutshell, educational materials were prepared, interviews conducted and funding mechanisms examined. Dealing with buffelgrass is the restoration identified as most important through interviews and conversations with the Forest Service. The Coronado is now working with the Sky Island Alliance to form a new nonprofit called Coronado Outdoors. This organization is anticipated to take over raising funds for restoration once it is up and running.
 b) Compile a case study of local government and the Forest Service working together to leverage funding. In particular identify the essential components for successful partnerships including: appropriate and efficient financial instruments to transfer funds, mechanisms for establishing and executing appropriate roles and responsibilities and other details that will assist other communities replicate successful partnerships. i. Deliverable: Case Study 	b) Working Title: The Flagstaff Watershed Protection :Project – A Unique Community Partnership. Submitted by Mottek Lucas and in final production/press at ERI. ERI Document #192
4.2) Analyze the relationship of fuels treat	ments and restoration on real estate values.
a) Deliverable: Manuscript for publicationb) Deliverable: Fact Sheet	 a) Hjerpe, E, Y. Kim, L. Dunn. Forest Density Preferences of Homebuyers in the Wildland-Urban Interface. (ERI #186) Submitted to Ecological Economics, July 2015.
	 b) Working Title: Real Estate Values and Wildfire, D. Vosick and Y.S. Kim (ERI# 191) Pending dependent on peer-review of publication referenced in item a, above.

Project 5: State, Tribal and Private Forestry - The All Lands Approach

Project eliminated April, 2014

Project 6: Services to the Intermountain West		
Deliverable	Status	
6.1) Provide support to federal la	nd managers with treatment planning and implementation	
 a) Deliverable: Report to rederar ia a) Deliverable: Report on actions to support project assessments, data collection, treatment design, and use of best available science by federal land managers to achieve desired conditions and outcomes. i. 7 Field Trips 	 i. Field Trips Sensibaugh M, Stoddard M. Field trip and discussions with USFS Coronado NF (Safford Ranger District) personnel at the Hospital Flats site on the Piñaleno Ecosystem Restoration Project (PERP) ERI demonstration mark and RAP. May 19-21, 2014. Pinaleno Mtns. Sensibaugh, M., Greco, B., Participated in a Field Trip to the Piñaleno Ecosystem Restoration Project (PERP) in conjunction with the SW Fire Science Consortium and made a presentation on "Ecological Restoration of Mixed Conifer Forests of the Southwest". Safford, AZ. June 7, 2014 42 participants Sensibaugh, M., Greco, B., Conducted a Field Trip with Prescott NF personnel to evaluate MSO PAC's and management strategies in the Greater Prescott area. Prescott NF, June 17, 2014 5 participants Greco, B., Sensibaugh, M., Field trip to evaluate Treatment Effects and Marking Prescriptions for the Rim Lakes Timber Sale", Black Mesa RD, A-S NF. Heber, AZ. June 17, 2014 13 participants Greco, B., Sensibaugh, M., Conducted a Field trip and presentations for the A-S NF Staff and NEPA Contractor on the Upper Rocky Arroyo Restoration Project (URAR) on the topic "Rapid Assessment Results of Evidence-based Restoration on the URAR Project". Lakeside, AZ. July 21, 2014. 17 participants. Covington, W, Greco, B., Sensibaugh, M., Vosick, D., Field trip with the Tonto NF Line Officers and Staff to review Reference Conditions and understory response to treatments on the Payson and Pleasant Valley RD's, Tonto NF. October 13, 2014 22 participants Greco, B., Sensibaugh, M. Field trip on the Rio Gordito Ecosystem Restoration Project area to train USFS personnel, Carson NF. November 12, 2014. 5 participants. 	

	 Greco, B., Roccaforte, J.P., Field trip to the Mineral LEARN Sites with USFS Personnel from the W.O., R.O. and A-S NF to review fire effects from the San Juan Fire (2014) and participate in a video production of Lessons Learned for use by the USFS in national programs by the Wildfire Lessons Learned Center. A-S NF. 20 participants. August 17, 2014. <u>http://www.youtube.com/playlist?list=PLTjug05B4KNvvloePSA FuvKOIKPZxWfhs</u> Huffman, D., Sanchez-Meador, A., Roccaforte, J.P. Sensibaugh, M. – Coordinator: Field trip with Coconino NF personnel to design treatment prescriptions for the Mixed-conifer LEARN project. Mogollon Rim RD, Coconino NF. December 12, 2014, 11 participants. Huffman, D., Greco, B., Sensibaugh, M. Conducted Field Trip for A-S NF personnel to evaluate Pinon-Juniper and Grasslands within the Escudilla East Restoration Project near Springerville, AZ. March 11, 2015 8 participants.
 ii. 2 Rapid Assessments (RAPS) presently planned on the Apache-Sitgreaves and Prescott National Forests. We are engaged in early discussions to establish a restoration treatment demonstration area on the Coronado National Forest 	 ii Rapid Assessments (RAPS) ✓ Greco, B., Sensibaugh, M. Conducted a Rapid Assessment for the "Upper Rocky Arroyo Restoration Project", Lakeside RD, A-S National Forest. Link to document ✓ Sensibaugh, M., Greco, B. Conducted a Rapid Assessment for "Tio Gordito Restoration Project", Tres Piedras RD, Carson NF Link to document
 iii. Combination of 10 total services based on previous and anticipated demand that may include: workshops, technical assistance, science support and presentations 	 iii. Services Greco, B., Sensibaugh, M., Meeting and presentation to USFS A- S Personnel & public participants regarding a Rapid Assessment request from A-S FLT on the Upper Rocky Arroyo Restoration Project, Lakeside, AZ, May 8, 2014. 9 participants Greco, B., Presentation "Bridge Projects Monitoring Plan" to the Natural Resources Working Group (NRWG), Eagar, AZ. May 13, 2014 32 participants Greco, B., Developed a Monitoring and Adaptive Management Plan for the A-S "Bridge Restoration Projects". Springerville, AZ. May 13, 2014 Greco, B., Presentation on "The White Mountain Stewardship Project: Ten-year Report" to the NRWG, Show Low, AZ June 17, 2014 27 participants Sensibaugh M., Meeting and presentation(s), Greater Flagstaff Forest Partnership (GEEP): monthly meetings, 7-12 participants

	 ✓ Greco, B., Sent a copy of current research publications and the ERI Newsletter to each Line Officer in Region 3, and multiple Staff in the R.O. and each forest in the Region. Purpose of the information sharing was to ensure effective science transfer and communications regards response to USFS Needs Assessments across the Region. November 2014 ✓ Greco, B., Sensibaugh, M., Conducted a workshop for the Apache-Sitgreaves NF Escudilla East ID Team and Line Officers in Alpine, AZ. December 11, 2014. 22 participants.
--	---

6.2) Assist with USFS forest planning and implementation			
6.2) Assist with USFS forest plann a) Deliverable: Report on actions to support forest planning, implementation, and integration of best available science in FLMP revisions. Specific support to be provided to the Apache-Sitgreaves, Tonto, Coconino and Kaibab Forest Plan revisions	 ing and implementation Greco, B., Assisted Tonto NF Forest Plan Revision Team by Presenting "Ecological Restoration and Fire: A Historical Perspective" at a public meeting in Payson, AZ May 21, 2014 140 participants. https://www.youtube.com/watch?v=qhKZEUT1dcc Greco, B., Sensibaugh, M., Participated with the Tonto NF FLMP Revision Team by Presenting "Ecological Restoration and Fire: A Historical Perspective" at a public meeting in Pleasant Valley, AZ, July 2, 2014. 55 participants. https://docs.google.com/file/d/0B1wq3f66mAw_enViS2dyakRSd kE/edit Greco, B., Provided Science –Findings and Reference Bibliography to the Tonto NF FLMP Revision Team regarding Restoration of Frequent Fire Forests and ecosystems on the Tonto NF. Phoenix, AZ. July 7, 2014 Greco, B., Sensibaugh M., Meeting with Payson RD District Ranger Angie Elam, and Timber Staff, to discuss ERI involvement with forest planning activities on the Payson Ranger District. July 7, NAU/ERI office, Flagstaff, AZ. 4 participants. Greco, B., Conference call with the Escudilla East Restoration Project to discuss possible support from ERI to provide a Rapid Assessment and Report for consideration in the Project EIS process. Alpine RD, Apache-Sitgreaves NF November 24, 2014 7 participants Greco, B., Conference call with the Tonto NF Forest Plan Revision Team regarding data collection priorities for Ponderosa pine structure changes, understory response patterns and fire regimes on the Tonto NF, November 26, 2014 9 participants Huffman, D., Sanchez-Meador, A., Sensibaugh, M., Greco, B., Meetings and Presentations to Coconino NF Staff and Line Officer (Mogollon Rim RD) on design of the Mixed conifer LEARN Study. Happy Jack, AZ. December 1, 2014 17 participants. Greco, B., Springer, J., Made presentations & participated in a coordination meeting with various organizations, hosted by the Coconino NF on "Ethnobotany Development through Restoration Tre		

6.3	6.3) Provide Web support for ERI, SWERI, 4FRI		
a)	Deliverable: Report on technical support for ERI, SWERI and 4FRI websites	 Web Accomplishments ERI Web Analytics 4FRI-AZPFC Webstats SWERI Web Analytics Link to document 	
6.4) Translate biophysical and soc	al-political-economic information for affected entities	
a)	Deliverable: Editorial support for 1 white paper	a) Editorial Support for white paperi. FWPP assessment in progress (Mottek Lucas)	
		 Brown, S.J. 2015. Administrative and Legal Review Opportunities for Collaborative Groups. ERI White Paper— Issues in Forest Restoration. Ecological Restoration Institute Northern Arizona University and the Western Environmenta Law Center. 12 p. <u>http://library.eri.nau.edu/gsdl/collect/erilibra/index/assoc/D2</u> <u>15006.dir/doc.pdf</u> 	e, al
b)	Deliverable: Editorial support	b) Editorial Support for 2 working papers	
	for 2 working papers	 Egan, D. 2015. The 2012 Mexican Spotted Owl Recovery Plan Guidelines for Forest Restoration in the American Southwest. ERI Working Paper No. 33. Ecological Restoration Institute, Northern Arizona University. 11 p. <u>http://library.eri.nau.edu/gsdl/collect/erilibra/index/assoc/D2</u> <u>15015.dir/doc.pdf</u> 	<u>20</u>
		 Kent, L.Y. 2014. An Evaluation of Fire Regime Reconstruction Methods.ERI Working Paper No. 32. Ecological Restoration Institute and Southwest Fire Science Consortium, Northern Arizona University. 15 p. (ERI#182) <u>http://library.eri.nau.edu/gsdl/collect/erilibra/index/assoc/D2</u> <u>14037.dir/doc.pdf</u> 	
c)	Deliverable: 8 fact sheets	c) Fact Sheets	
		 Rocafforte, J.P. Fact Sheet: Planting to Restore Ponderosa Pine Sites Burned by High-Severity Fire. September, 2014 (ERI# 56) <u>http://library.eri.nau.edu/gsdl/collect/erilibra/index/assoc/D20</u> 4035.dir/doc.pdf 	<u>01</u>
		 ii. Esch, B.E. 2015. Fact Sheet: Administrative Support in Collaborative Forest Restoration. ERI Fact Sheets. Ecologica Restoration Institute, Northern Arizona University. 2 p. (ERI#194) <u>http://library.eri.nau.edu/gsdl/collect/erilibra/index/assoc/D20 5014.dir/doc.pdf</u> 	

iii.	Waltz, A.E.M. 2014. Effectiveness of Fuel Reduction Treatments: Assessing Metrics of Forest Resiliency and Wildfire Severity after the Wallow Fire, AZ. ERI Fact Sheets. Ecological Restoration Institute, Northern Arizona University. 2 p. (ERI# 183) http://library.eri.nau.edu/gsdl/collect/erilibra/index/assoc/D201 4041.dir/doc.pdf
iv.	Fact Sheet: Forest Structure and Fuel Dynamics Following Ponderosa Pine Treatments, White Mountains, Arizona, USA. Roccaforte, J.P. 2015. Ecological Restoration Institute, Northern Arizona University. 2 p. (ERI#187) http://library.eri.nau.edu/gsdl/collect/erilibra/index/assoc/D201 5009.dir/doc.pdf
V.	Stoddard, M.T. 2015. Ecological and Social Implications of Employing Diameter Caps at a Collaborative Forest Restoration Project Near Flagstaff, Arizona. ERI Fact Sheets. Ecological Restoration Institute, Northern Arizona University. 2 p. (ERI# 188) http://library.eri.nau.edu/gsdl/collect/erilibra/index/assoc/D201 5017.dir/doc.pdf
vi.	Huffman, D.W. 2015. Fire History of a Mixed Conifer Forest on the Mogollon Rim, Northern Arizona, USA. ERI Fact Sheets. Ecological Restoration Institute, Northern Arizona University. 2 p. (ERI# 190) <u>http://library.eri.nau.edu/gsdl/collect/erilibra/index/assoc/D201</u> 5013.dir/doc.pdf
vii.	Bryant, T. 2015. Implications of Diameter Caps on Multiple Forest Resource Responses in the Context of the Four Forest Restoration Initiative. ERI Fact Sheets. Flagstaff, AZ: Ecological Restoration Institute, Northern Arizona University. 2 p. (ERI#189) http://library.eri.nau.edu/gsdl/collect/erilibra/index/assoc/D201 5020.dir/doc.pdf
viii.	Pending #191. Working Title: Real Estate Values and Wildfire, D. Vosick and Y.S. Kim (dependent on peer-review of item a, above.)

6.5) Initiate and facilitate knowled information requests, and present	lge services and science support through field trips, filling	
 a) Deliverable: Report on actions to educate and support affected entities i. 5 Field Trips 	 Field Trips Vosick, D. Field Trip to Gus Pearson Natural Area requested by SRP for the Western Water Policy Meeting. July 30, 2014. 12 Participants Vosick, D. Field Trip to Gus Pearson for SRP. August 20, 2014. One participant. Covington, WW and D. Vosick, Field Trip for Senator McCain staff (Nick Matiella). October, 31, 2014. One Participant. W.W. Covington. Field trip with AZ Daily Sun enviro/science reporter Emery Cowan to GPNA to learn about restoration ecology and forest restoration science. April 7, 2015. One participant. Vosick, D. Paul Orbuch, Caitlin Polihan and Jeff Whitney requested Flagstaff Tour to understand why the FWPP is so successful. April 14 and 15, 2015 	
ii. 10 Presentations	requested Flagstaff Tour to understand why the FWPP is so	

 Legislative Remedies for Prescribed Burns on Non-Federal Lands in Arizona" to the Southern Arizona Wildland Fire Coordination Group – Winter Meeting and the Altar Valley Conservation Alliance. Tucson, AZ. December 2, 2014 35 participants Vosick. Webinar on Forest Restoration for the Audubon Western Rivers Action Network. 17 participants. December 17, 2014 Greco, B. Made multiple presentations at the monthly NRWG and White Mountain Stewardship Monitoring Board meetings in 2014. Springerville, Eagar and Show Low, AZ. 15-40 participants at each meeting. Greco, B., Presentation to the 4FRI Collaborative Meeting regarding Bridge Project and 4FRI Monitoring Plans. Show Low, AZ. March 25, 2015. 35 participants. Greco, B. Presentation to the Arizona Prescribed Fire Council "FY 2014-2015 Council Accomplishments" Payson, AZ March 27, 2015 12 participants. Greco, B., Sensibaugh, M., Meeting with Trout Unlimited regarding Restoration treatments in Central Arizona and resultant effects on fisheries. Payson, AZ. April 9, 2015. Greco, B., Presentation to various organizations and city & county Government Official regarding the 4FRI Phase 2 NEPA process. Show Low, AZ. April 21, 2015. 27 participants Vosick, D. ASU Continuing Legal Education. Assisted in the planning and delivery of two day workshop for lawyers and other public officials on Fire and restoration. 40 participants. May 6 and 8, 2015. Provided information as reported in section iii below. Presentations were also made at the seminar titled The Wildfire Menace: Will the West Learn or Burn? How to learn from History Instead of Repeating It Covington, W. "Fire, Forests, and Water: Historical and Anticipated Changes in Forests of the West" Vosick, D. "Federal Forest Management: Barriers and Bridges to Restoring Forests."
 iii. Information Requests ✓ Greco, B., Information request for ERI Fire Fact Sheet. The Nature Conservancy, Flagstaff Office. May 5, 2014 ✓ Greco, B., Request for assistance to review USDA Grant Funding Proposals, by Arizona Department of Forestry, May, 6, 2014 ✓ Greco, B., Submitted a letter of reference (per request) to Eastern AZ Resource Advisory Council for Integrated Biological Solutions, LLC for funding of the White Mountain Stewardship 10-Year report. May 22, 2014

 International Wood Culture Society" regarding "Wood Culture and Uses as Related to the Desert of the Southwest". June 17, 2014 ✓ Vosick, D. Phoenix Law Firm (Ken Hodson) asking about forest
--

✓ Vosick, D. Jim Paxon. AZ Game and Fish - Economic Trend
statistics for the timber industry in Arizona. Referred him to
Patrick Rappold after reviewing selected literature. September
10, 2014
✓ Dubay, T. Lisa Schnebly Heidinger. Request for assistance with
photos of Abe Springer for a new book Lisa is writing for NAU.
Provided Lisa with photos and photo credit info. September 10,
2014
✓ Dubay T. Emery Cowan - AZ Daily Sun. New enviro reporter
with AZ Daily Sun, Emery Cowan, met with Wally Covington
and Diane Vosick to learn about ERI and local forest health
issues. September 12, 2014
✓ Dubay, T. Carla Sandine. Wally Covington Video Interview
about forests and 4FRI for a piece to run at the Arizona
Leadership Forum on September 19th in Phoenix. 1200 people
anticipated. September 19, 2014
✓ Greco, B. and Vosick, D. Meeting with AZ (District 6) Senator
Carlyle Begay to provide science publications and respond to his
request for input regarding Carbon Sink Exchange options
between the Navajo Tribal Council, State of Arizona & EPA.
Flagstaff, AZ. October 15, 2014.
✓ Vosick, D. Met with Megan O'Grady, Stratus Consulting-
Interview concerning FWPP and its contribution to creating a
resilient community. October 21, 2014.
✓ Greco, B. Meeting with NAU SOF Professor David Auty to
assist in his transition to NAU & provide a framework for
cooperative studies with ERI. Flagstaff, AZ. October 22, 2014
✓ Greco, B., Sensibaugh, M. Five telephone conference calls with
USFS Personnel on the Carson NF in response to project
Assessments, providing science support & technical assistance
to Program Planning & Forest Plan Revision support from ERI.
October & November, 2014
✓ Vosick, D. Robert Breunig - Museum of NAZ requested ERI
assistance in developing content and editing text for their Slide
Fire Exhibit. December 2, 2014
✓ Greco, B. Participated in the BLM Uinkaret Mountains
Restoration Project Public NEPA Scoping Meeting to provide
information and science support, requested by the St. George, Utah BLM Office. Flagstaff, AZ December 3, 2014
✓ Vosick, D. Request from Scott Harger for ERI Working Papers. December 22, 2014
 Dubay, T. Emery Cowan - AZ Daily Sun requested information
on PIPO die-off predictions in face of climate change. January 5,
2015
✓ Greco, B., Roccaforte J.P., Responded to a data request (Photos,
Maps) from the USFS Lessons Learned Center regarding the
maps, nom the OSI 5 Dessons Dearned Center regarding the

Mineral LEARN sites impacted by the A-S NF San Juan Fire.
January 15, 2015
✓ Greco, B., Crouse, J., Responded to a request by R-3 Regional Evaluation of the section of ETR site for ERU Data
Ecologist Jack Triepke to set up an FTP site for ERU Data
exchange. January 16, 2015
✓ Greco, B., Presentation to the Natural Resources Working
Group, "White Mountain Stewardship Contract – Ten Year
Report Strategy", Eagar, AZ, January 20, 2015 32 participants.
✓ Greco, B. Conference call with A-S Leadership Team (Tom
Osen-Lead) regarding Natural Resource Working Group
integration with 4FRI Collaborative process. January 29, 2015. 7
participants
✓ Dubay, T. Pete Caligiuri – TNC requested permission to use a
quote from Wally Covington's LiveScience op-ed on the
Deschutes Forest Collaborative website along with a head shot
of Dr. Covington. February 2, 2015 ✓ Greco, B. Presentation regarding "White Mountain Stewardship
Contract and Restoration Outcomes" to Navajo County Board of
Supervisors & Natural Resource Working Group. Show Low,
AZ. February 17, 2015 27 participants.
✓ Greco, B., Sensibaugh, M., Conference call with tonto NF
FLMP Revision Team to coordinate Ecological Response Units
and Reference Condition Rapid Assessment on the Payson and
pleasant valley RD's, Tonto NF. February 19, 2015 7
participants.
✓ Greco, B., Participated in a conference call with Tom Osen &
Misc. A-S NF Staff to discuss the update to the Bridge Projects
Monitoring Plan. February 19, 2015 5 participants.
✓ Greco, B., Conference call with Tonto NF FLMP Revision
Team & Deputy FS Kerwin Dewberry to coordinate ERI support
to the Tonto NF Forest Plan Revision Process. Phoenix, AZ
March 11, 2015 5 participants.
✓ Greco, B., Sensibaugh, M., Conference call with Tessa Nicolet
to coordinate Fire Regime data collection and modeling for the
Carson & Tonto NF's. Payson, AZ March 23, 2015 3
participants.
✓ Dubay, T. Kevin Sullivan - Sedona Fire Dept. requested Wally
Covington to appear in a video on community wildfire
prevention and preparedness. April 17, 2015
✓ Vosick, D. Information to the Federal Lands Subcommittee of
the House Natural Resources Committee Hearing entitled "The
Devastating Impacts of Wildard Fires and the Need to Better
Manage our overgrown, fire-prone National Forests". April 23,
✓ Dubay, T. Steve Rosenstock - AZ Game and Fish Dep't
requested photos to use in briefing materials that mention fire

	1
	 impacts to forest ecosystems and wildlife, and emphasize need for proactive restoration. April 25, 2015 Vosick, D. Kris Keifer requested validation of information pertaining to treatment effectiveness during the Wallow fire. April 27, 2015 Dubay, T. Caroline Pilkington-contractor for County/Co requested photos for a poster the county and city officials will be using in a presentation about forest restoration and inter-agency partnerships to protect communities in St. Louis. May 4, 2015 Vosick, D. ASU Continuing Legal Education. Assisted in the planning and delivery of two day workshop for lawyers and other public officials on Fire and restoration. 40 participants. May 6 and 8, 2015. Also gave presentations that are reported in section ii, above. Vosick, D. Chuck Podlak, Ofc of Senator Flake requested review of different national data sets and if they would be good for providing HFRA like requirements. May 12, 2015 Vosick, D. Matt Strickler, Ofc of Congressman Grijalva requested assistance for upcoming testimony on the need to stop fire borrowing. Referred him to Aumack, Falk and Barnwell as possibilities. May 14, 2015 Vosick, D. Terry T. Brady, Nordev LLC. Wanted link to our Workforce report after hearing interview on KJZZ. May 15, 2015 Sensibaugh, M., Participated in multiple monthly meetings as Chairman of the Board, for the Greater Flagstaff Forest
6.6) Use media to educate the Gen	Partnership. Flagstaff, AZ CY 2014-2015
	1) Covington, WW. Live Science. "Expert Voices: Op-Ed and
a) Deliverable: 2 Newspaper articles	 Covington, ww. Live Science. "Expert Voices: Op-Ed and Insights: The Two Wildfires Everyone Should be Talking About." August 22, 2014. <u>http://www.livescience.com/47510- wildfire-prevention-is-science-not-art.html</u> Stevens, B. Flagstaff Business News. "The changing face of southwestern forests and forest products." November 1, 2014. <u>http://www.flagstaffbusinessnews.com/the-changing-face-of- southwestern-forests-and-forest- products/?utm_source=FBN&utm_medium=WEB&utm_campai</u>
	gn=front featured title

Project 7: Duty 5 under the ACT. Provide annual progress reports		
Deliverable	Status	
7.1) Complete annual progress report on June 30, 2014	✓ Completed through July 30, 2014	
7.2) Complete annual progress report on June 30, 2015	✓ Completed as Final Report for #14-DG-11031600-055	

FY15 Deliverables (Progress) - #15-DG-11031600-073

Project 1: Science Support for Collaborative Restoration and Conservation from the Local to the Landscape Scale

De	liverable	Status
1.1) Provide support for the Four Forest Ro Landscape Restoration Act project.	estoration Initiative (4FRI), a Collaborative Forest
a)	Report on technical assistance to: the multi-party monitoring board; the Forest Service as EIS#1 proceeds to implementation; and, support for EIS#2 analysis.	Early stage of project – all deliverables are in progress.
b)	Report on activities completed as co- chair and assistance provided to create an efficient working relationship between the Natural Resources Working Group (NRWG) and the 4FRI Stakeholder Group.	
c)	Report on IT support for the 4FRI Website and BASECAMP (an online collaborative work space) and administrative support including minutes and agendas.	
1.2	2) Assist in the planning, coordination an Stakeholders and the Forest Service.	d delivery of a 1.5 day workshop for 4FRI
a)	Deliver workshop.	Workshop completed May, 2015. White paper in
b)	Publish white paper that: compiles lessons learned, recommendations for the second analysis area, and a discussion of why the NEPA and Objection process worked (editorial support appears in deliverable 6.4)	progress.

1.3) Provide scientific and technical support for CFLRP pilots and emerging projects.			
/ 1	vities to support the RP monitoring network	a)	Early stage of project – all deliverables are in progress.
i. Report on requests.	responses to information		
describing	e (with NFF) a webinar the outcomes of the 5- itoring Plan		
Forest Founda Office of the U national CFLF Discussions an conference. It	stance to the National tion and the Washington JSFS to plan and deliver a RP conference. The underway for this is possible that the Il actually occur in FY	b)	National workshop tentatively scheduled for week of February 22, 2016

Project 2: Information Analysis to Assist Evidence-Based Conservation		
Deliverable	Status	
2.1) Literature or Systematic Review of restoration treatments to restore Ponderosa Pine Forests with shrub understory.		
a) Completed review and draft manuscript or technical report.	Early stage of project – all deliverables are in progress.	
i. Presentation to appropriate staff from the Prescott, Tonto and Kaibab National Forests.		

Project 3: Ecological Monitoring and Evaluation for Adaptive Management			
Deliverable	Status		
3.1) Continue development of long-term st Ranger District of the Coconino Nation	udy in a mixed-conifer forest on the Mogollon Rim nal Forest (build from FY14).		
a) Report on progress with:	Early stage of project – all deliverables are in progress.		
i. Coconino National Forest to complete NEPA requirements.			
ii. Coconino National Forest to develop treatment prescriptions.			
iii. Coconino National Forest to train crews and implement treatment marking.			
3.2) Wildlife responses to restoration and h	nazardous fuels reduction treatments.		
a) Report on pretreatment conditions and progress of the Flagstaff Watershed Protection Project (FWPP) wildlife monitoring (in FY15 work will be at the Mormon Mountain site on the Coconino National Forest)	Early stage of project – all deliverables are in progress.		
,	aged for resource benefit to achieve desired conditions.		
a) Present findings at a professional conference, or a workshop for resource managers, or a stakeholder event.	Early stage of project – all deliverables are in progress.		
 Initiate study – identify study fires, develop maps, develop study methodology, and seek field work permits. 			
ii. Collect field data.			
iii. Analyze spatial and field-based data.			
3.4) Test high-resolution spatial data for developing landscape reference conditions and analyzing forest management and disturbance dynamics. Include an analysis of cost effectiveness as compared to conventional approaches for determining landscape level reference conditions.			
a) Final Report and presentation at a national conference.	Early stage of project – all deliverables are in progress.		
i. Develop data layers.			
 Analyses performed at two sites along the Mogollon Rim (Black Mesa and LEARN Blocks 2-6). 			

3.5) Identify the appropriate metrics for monitoring landscape-scale desired conditions in fire-
adapted forests, including, but not limited to, forest cover and opening proportions, spatial
configuration, and group size. Assess how each metric performs at different scales. This work
will be coordinated with Jamie Barbour and the Broad-scale Monitoring Project in Regions 2
and 3.

a) Final Report or manuscript, presentation to 4FRI Stakeholder Group, presentation to CFLRP Peer Learning Group.	Early stage of project – all deliverables are in progress.	
3.6) Re-measurement of study units in the San Juan Fire to determine the outcomes of different treatment approaches implemented prior to this mixed-severity fire and include in this analysis the survivability of trees.		
a) Presentation to land managers and Fact Sheet	Early stage of project – all deliverables are in progress.	

Project 4: Understanding and Solving the Economic, Social and Political *Issues and Opportunities of Ecological Restoration*

Deliverable	Status	
4.1) Actions to increase understanding of innovative funding approaches for achieving forest restoration and wildfire risk reduction. These alternative funding approaches include the Northern Arizona Forest Fund (SRP and NFF) and emerging efforts to support the Coronado National Forest by creating an "opt-in" program for resorts in Southeastern Arizona.		
a) Report on actions that support the Northern Arizona Forest Fund and creation of an "opt-in" resort fee on the Coronado National Forest.	Early stage of project – all deliverables are in progress.	
4.2) Continue to facilitate work force traini	ng development.	
Participants include industry (Campbell Global, Good Earth Power and New Pac Fiber), Community Colleges (Northland Pioneer College and Coconino Community College), Coconino County Employment Services, Northern Arizona University- School of Forestry, The Nature Conservancy, and the Arizona Department of Forestry. Work force training includes workforce readiness, retention, safety and harvest and manufacturing skills development. a) Report on actions and outcomes.	Early stage of project – all deliverables are in progress.	

Г

Project 5: State, Tribal and Private Forestry – The All-Lands Approach			
Deliverable	Status		
5.1) Assist the Arizona Prescribed Fire Cou	ıncil.		
The mission and purpose of the Arizona Prescribed Fire Council is to serve as a forum for all prescribed fire practitioners (government, academic institutes, tribes, coalitions and individuals) in order to work collectively to promote, protect, conserve, and expand the responsible use of prescribed fire in Arizona's fire-dependent ecosystems.	Early stage of project – all deliverables are in progress.		
a) <u>Deliverable</u> : Report on technical support provided to the council and website services.			
5.2) In collaboration with the Arizona State Forester and in consultation with the USFS Deputy Chief for State and Private Forestry, revise the Arizona Statewide Strategy to comport with the National Cohesive Strategy.			
a) <u>Deliverable</u> : Report on actions toward revising strategy. The ERI will seek leveraged funding to complement this action.	Early stage of project – all deliverables are in progress.		
5.3) Consult with the tribes to assess how assistance can be provided to them in the face of limited			
financial resources. Priority will be given to work with tribes adjacent to the 4FRI landscape.			
a) <u>Deliverable</u> : Report on options to help serve tribes. Particular emphasis will be on tribes adjacent to the 4FRI landscape.	Early stage of project – all deliverables are in progress.		

Deliverable	Status		
6.1) Provide support to federal land managers with treatment planning and implementation.			
 a) <u>Deliverable</u>: Report on actions to support project assessments, data collection, treatment design, and use of best available science by federal land managers to achieve desired conditions and outcomes. i. A combination of 10 total services based on previous and anticipated demand that may include: workshops, technical assistance, science support, field trips, and presentations. ii. Three Rapid Assessments (RAPs) are presently planned to support landscape restoration projects at the forest level. The RAPs are site-based analyses of historic and current conditions designed to inform Purpose and Need and restoration treatment development. 1. Apache-Sitgreaves NF: Escudilla East Restoration Project (RAP) report 2. Prescott NF: Restoration Alternatives in MSO PACs (RAP) report 3. Carson NF: Tusas-San Antonio Restoration Project (RAP) report iii. We are finalizing establishment of a restoration treatment demonstration area on the Coronado National Forest. 	Early stage of project – all deliverables are in progress.		

Science and timing of support are variable	Farly stage of project all deliverables are in progress
or each national forest based on its	Early stage of project – all deliverables are in progress.
ndividual planning schedule.	
Deliverable: Report on actions to	
support forest plan revisions.	
i. Tonto National Forest:	
1. Report on development of public	
participation process.	
2. Report on data collection for	
assessment of reference	
conditions on the Payson and	
Pleasant Valley Ranger Districts.	
3. Report on science and	
knowledge synthesis and	
translation and transfer of best	
available science to support	
assessment of current conditions	
and need for change.	
4. Report on support, as requested,	
with public meetings,	
presentations, field trips and	
technical support in Forestry,	
Fuels, Watershed, and Fire	
program areas.	
ii. Carson National Forest:	
1. Report on data collection to	
assess applicability of reference	
condition synthesis for	
assessment of current conditions	
and need for change.	
2. Report on knowledge gaps with	
the forest to determine needs to	
provide science synthesis,	
translation, or transfer.	
iii. Santa Fe, Cibola, Prescott, Lincoln	
National Forests:	
1. Report on outreach efforts to	
determine opportunities for ERI	
to provide best available science	
or other support to plan revision.	

6.3) Provide website support for ERI, SWE Prescribed Fire Council).	RI, 4FRI (see Project 5 for support to the Arizona	
for ind	ence and timing of support are variable each national forest based on its ividual planning schedule. <u>Deliverable</u> : Report on technical support for ERI, SWERI, and 4FRI websites.	Early stage of project – all deliverables are in progress.	
6.4) Translate biophysical and social-politic	cal-economic information for affected entities.	
a)	 <u>Deliverable</u>: Editorial support for a total of 3 white papers and or working papers i. White paper compiling lessons learned from 4FRI Retreat on May 27, 28 ii. Working paper on climate change and fire in the Southwest iii. Working paper on carbon cycling in southwestern forests 	 a) Editorial Support Early stage of project – all deliverables are in progress. ii. Kent, L.Y. 2015. Climate Change and Fire in the Southwest. ERI Working Paper No. 34. Ecological Restoration Institute and Southwest Fire Science Consortium, Northern Arizona University: Flagstaff, AZ. 6 p. http://library.eri.nau.edu/gsdl/collect/erilibra/index/assoc/D2015016.dir/doc.pdf 	
b)	<u>Deliverable</u> : 8 fact sheets that translate and summarize scientific papers and journal articles.	iii. In progressb) Fact Sheets – in progress	
6.5		es and science support for non-federal entities through and presentations for affected entities. These numbers	
a)	Deliverable: Report on actions to educate and support affected entities. Provide a minimum of 12 services that may include field trips, presentations, and information requests.	• T. Dubay. June 25, 2015. Presentation to Centennial Forest campers on communicating effective PSAs titled "A Fierce Green Fire: Crafting an Effective and Persuasive Message for Environmental Conservation Public Service Announcements." 15 campers in attendance	
6.6) Use media to educate the general public.			
a)	<u>Deliverable</u> : 2 newspaper articles in response to fire events to education the general public about the need for forest restoration to restore frequent fire forests.	Early stage of project – all deliverables are in progress.	

Project 7: Duty 5 under the ACT. Provide annual progress reports			
Deliverable	Status		
7.1) Complete annual progress report on	✓ Completed June 30, 2015		
June 30, 2015			

Г

Web Accomplishments: July 1, 2015–June 30, 2015

4Fri.org Accomplishments

- Updated site content including meeting minutes, agendas, maps, and other pertinent materials.
- Updated calendar and event locations
- Provided updates on site on important 4Fri related news, news articles, and press releases
- Streamlined content to make important information more readily accessible to users
- Added an interactive 4FRI map tracking acres treated

NAU.edu/ERI Accomplishments

- Added current /relevant ecological related news articles
- Updated the site with current ERI publications including journal articles, ERI working papers, ERI Fact Sheets, and technical papers
- Added relevant events and conferences
- Developed a press specific landing page on the site to answer frequently answered questions of the media, provide high resolution photographs for press members and direct press members with further inquiries to the appropriate person

SWERI Accomplishments

- Revised the home page content to make the content more relevant to users
- Revised, updated, and expanded the broad scale monitoring section
- Streamlined and redesigned the page layout and improved page graphics

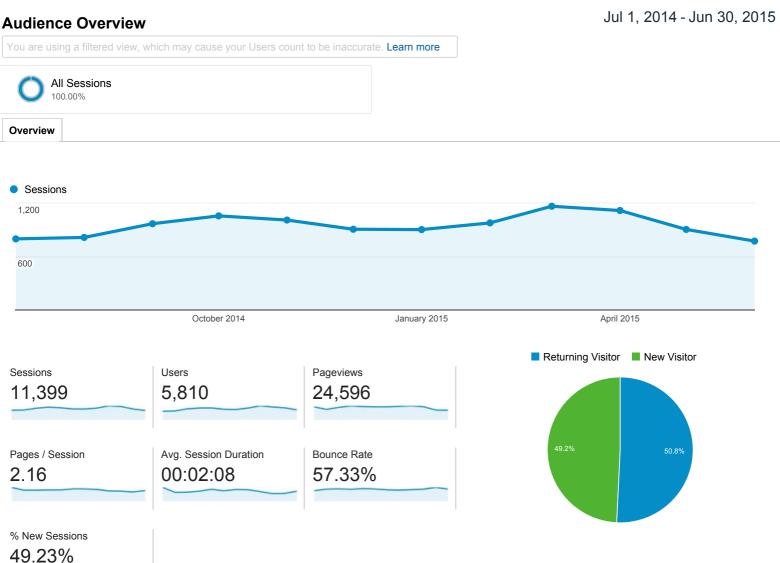
AZPFC.org

- Added new events and posts to keep users informed about topics relevant to the council
- Updated board member information as needed
- Created an online voting mechanism for people to vote for board members
- Reported out the voting results and updated the site regarding the board member election
- Created an online registration mechanism for the TREX conference

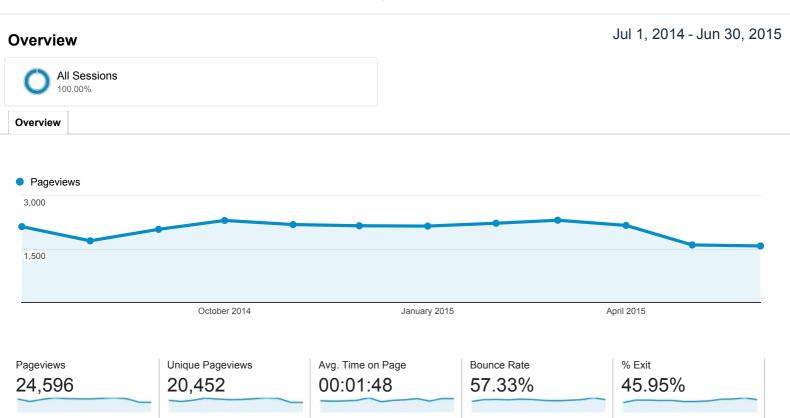
Parashant

• Created a password protected file repository for members of the site to upload and organize various Parashant related files

Google Analytics



Language	Sessions	% Sessions
1. en-us	10,620	93.17%
2. en-gb	156	1.37%
3. es	91	0.80%
4. en	80	0.70%
5. en-ca	40	0.35%
6. pt-br	33	0.29%
7. zh-cn	33	0.29%
8. es-es	29	0.25%
9. de	23	0.20%
10. en-au	22	0.19%



Pageviews	% Pageviews
4,255	17.30%
1,941	7.89%
1,300	5.29%
1,092	4.44%
1,032	4.20%
622	2.53%
582	2.37%
491	2.00%
452	1.84%
389	1.58%
	4,255 1,941 1,300 1,092 1,032 622 582 491 452

© 2015 Google

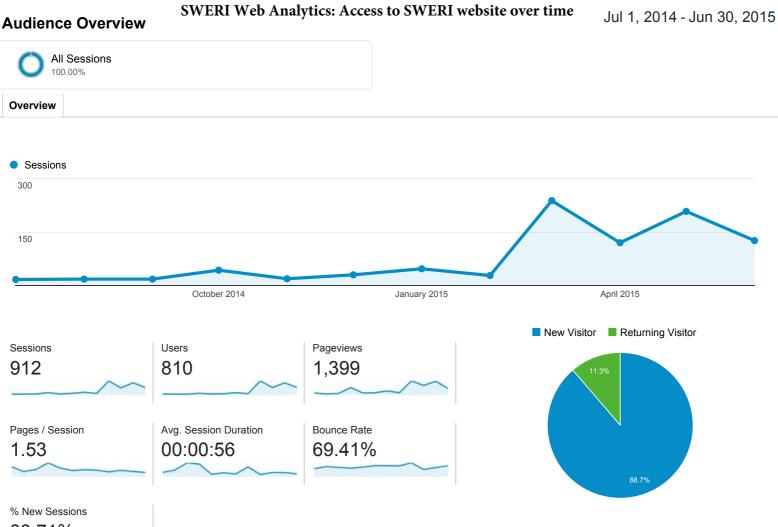
4FRI-AZPFC Web Stats

4FRI.ORG Web Stats					
Month	Unique visitors	Number of visits	Pages	Hits	Bandwidth
Jul-14	920	1,859	4,546	30,119	2.32 GB
Aug-14	882	1,677	3,479	25,820	1.80 GB
Sep-14	969	1,635	3,966	29,383	1.72 GB
Oct-14	1,160	1,995	5,697	33,223	1.84 GB
Nov-14	1,145	1,803	4,184	37,174	1.73 GB
Dec-14	1,186	1,524	3,172	36,566	1.78 GB
Jan-15	1,256	1,596	3,776	34,557	2.03 GB
Feb-15	1,023	1,328	3,422	29,704	1.76 GB
Mar-15	1,253	1,640	3,246	31,615	3.05 GB
Apr-15	1,326	2,204	5,343	34,907	2.10 GB
May-15	1,103	1,958	4,350	29,796	1.74 GB
Jun-15	1,090	1,475	3,612	26,463	2.11 GB

4Fri Top 5 Visited Pages
Home Page
/fire_reintroduction.html
/stakeholders.html
/meetings.html
/maps.html

AZPrescribedFireCouncil.org					
Month	Unique visitors	Number of visits	Pages	Hits	Bandwidth
Jul-14	538	859	2,972	12,833	243.25 MB
Aug-14	380	664	2,361	8,795	226.06 MB
Sep-14	484	798	2,854	11,026	271.00 MB
Oct-14	392	969	3,827	9,579	206.18 MB
Nov-14	409	907	3,692	10,059	177.76 MB
Dec-14	1,050	1,567	4,915	12,136	197.31 MB
Jan-15	1,143	1,798	3,940	11,053	231.16 MB
Feb-15	886	1,270	3,539	7,873	128.40 MB
Mar-15	1,118	1,474	3,635	9 <i>,</i> 965	167.39 MB
Apr-15	903	1,260	2,464	6,467	107.96 MB
May-15	362	762	1,644	6,544	129.70 MB
Jun-15	352	584	1,779	5,617	100.29 MB

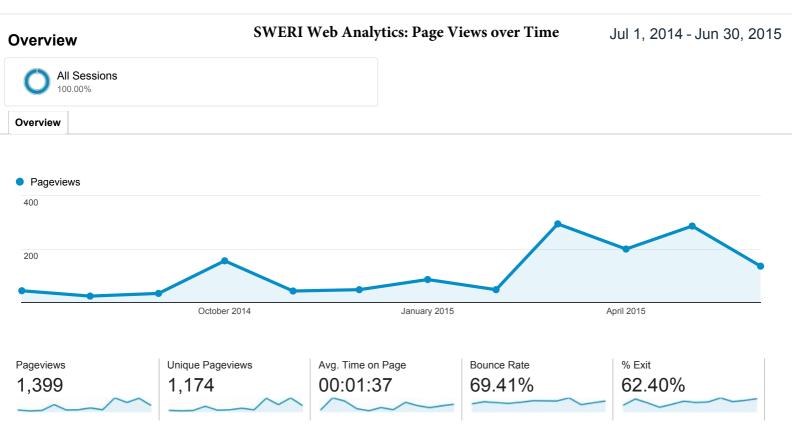
AZPFC Top 5 Visited Pages
Home
Feed
About
Event/Prescribed-Fire-Training-
Exchange
News



88.71%

Sessions	% Sessions
453	49.67%
388	42.54%
19	2.08%
16	1.75%
12	1.32%
4	0.44%
3	0.33%
3	0.33%
3	0.33%
2	0.22%
	453 388 19 16 12 4 3 3 3





Page	Pageviews	% Pageviews
1. /	932	66.62%
2. /team.html	70	5.00%
3. /newsstories/cutting_edge.html	60	4.29%
4. /BroadscaleMonitoring.html	49	3.50%
5. /dfc_wksp.html	46	3.29%
6. /index.html	42	3.00%
7. /legislation.html	39	2.79%
3. /reviews.html	36	2.57%
9. /contactus.html	20	1.43%
10. /maps.html	16	1.14%

© 2015 Google