

FLN Networker No. 178: February 18, 2015

The FLN Networker is a publication of the Fire Learning Network—a partnership of the USDA Forest Service, Department of the Interior (BIA, BLM, National Park Service, US Fish & Wildlife Service) and The Nature Conservancy—intended to foster communication within the network and among its friends. Submit comments, links and subscription requests to Liz Rank.

For more about the FLN, visit www.conservationgateway.org/fln or contact Lynn Decker.

News from the Field

California: At the end of January, 44 participants from 12 organizations took part in **FireScape Mendocino's fifth Open Standards planning workshop**. Together they worked on **refining strategies** the group has developed and testing those strategies in light of information presented on **climate change**, as well as establishing subgroups to address the strategies in more detail.

New Jersey: The local **FAC Learning Network** has been busy **partnering with Sustainable Jersey**, a statewide program for municipalities. They have been developing a **suite of emergency preparedness actions** that will move a municipality towards greater **wildfire resiliency**, and earn a community sustainability "points" under that program. According to **Bill Brash** (merceroil@aol.com), "One of the most important lessons we learned at our national workshop last June was the need for a **statewide Fire Safety Council** in New Jersey. I'm happy to report that we now have an officially registered nonprofit for just that purpose. Thanks for the **support and the brilliant ideas**, **FAC Learning Network**."

North Carolina: **Fifty-six people from 20 agencies** are taking part in the **North Carolina TREX**, now underway. From yesterday's report from the field: "The TREX is in full swing. We have organized into three burn crews, completed initial orientation to the landscape, received presentations from ecologist and author Bruce Sorrie, familiarized and practiced with equipment, scouted burn units, **completed three burns**—and are **now encased in half an inch of ice** that fell overnight. A perfect start!" You can follow this TREX on social media (mostly twitter so far) at **#NCTREX2015**.

North Carolina: In an [op-ed column](#) in the Asheville *Citizen-Times*, "Finding a Middle Ground on Forest Management," **Megan Sutton** (msutton@tnc.org) and **William Kane** draw on their collaborative work in this landscape to comment on the final **management plan** for the **Nantahala and Pisgah National Forests**.

North Carolina: The U.S. Forest Service, TNC and North Carolina Forest Service continue to get **collaborative burning** done. Although the weather has been **too dry for a large-scale burn**, on February 6 these partners completed a **255-acre WUI burn**, the Woodruff Ridge unit in the Wilson Creek watershed. The burn—to **reduce fuel** loads and **restore fire-adapted vegetation**—was the third entry for this unit, with previous burns conducted in 2009 and 2011. For more information, contact **Lisa Jennings** (lisanjennings@fs.fed.us), the coordinator of the **Grandfather Restoration Project**.

Washington: More than 30 stakeholders met at the **Washington Prescribed Fire Council** annual conference in Leavenworth last week. Much of this meeting focused on **exploring prescribed fire training** and **expertise exchange models** to produce more capacity and opportunities for controlled burning to meet public and natural resources objectives across the state. For more information, contact **Reese Lolley** (rlolley@tnc.org), **Sarah Hamman** (hamman@cnlm.org) or **Kara Karbowski** (wa.rxfirecouncil@gmail.com).

Washington: The FLN "Working Together" workshop in Yakima County last year kicked off a process that culminated recently in the **Yakima County Community Wildfire Protection Plan**; the CWPP is now awaiting county commissioner and state forester signatures. The original workshop focused on

stakeholder roles and addressing barriers to preparing before, during and after wildfire, and led to the formation of the **Yakima Valley Fire Adapted Communities Coalition**, a diverse group of community members and federal, state and local agencies. For more information, contact **Ryan Anderson** (ryan@scwrcd.org).

FAC Learning Network: Several key players in the network will receive **wildfire mitigation awards** at the IAFC Wildland-Urban Interface Conference in Reno next month. The awards are jointly sponsored by the National Association of State Foresters, International Association of Fire Chiefs, National Fire Protection Association and USDA Forest Service. [The awardees](#) include **Jerry McAdams** of the Boise Fire Department (**Fire Adapted Communities Fire Service Leadership Award**), the **Flagstaff Fire Department**—Wildland Fire Management Division, **Pam Wilson** of FireWise of Southwest Colorado (both **Wildfire Mitigation Innovation Awards**), **Greg McLaughlin** of **New Jersey Forest Fire Service**, **Florida Forest Service**, and **other FAC LN partners** from Colorado to Georgia. Congrats to all!

Public Comment: Ozone Standards

Ozone Standards: The national **Coalition of Prescribed Fire Councils** has issued a memo (attached) to its members summarizing the **EPA's proposed changes** to ground-level **ozone standards**, and the implications for prescribed fire. They also suggest that member councils are in a good position to contribute comments on the proposed rule; the **public comment period** runs through **March 17**.

Resource: CWPPs

CWPPs: The **FAC Learning Network** recently held a webinar focused on **community wildfire protection plans**. Presentation **highlights and resources** shared by all of those on the call have been gathered into a webinar summary document (attached).

Reports & Articles: Cost Drivers / Diversity / Annual Fire Report

Cost Drivers: The Northwest Fire Science Consortium has released "**Drivers of Wildfire Suppression Costs**," a [literature review and annotated bibliography](#) by Autumn Ellison, Cassandra Moseley and R. Patrick Bixler. It includes an appendix with a table that nicely **summarizes the annotated literature**, including the methods used by and main finding of each study.

Diversity: An [article](#) in *Scientific American*, "How Diversity Makes Us Smarter," actually talks about how **diversity makes us work harder**—and do **better work**. Importantly, it's not just a diverse group that works better, but we work better **as individuals** in such a group.

Annual Fire Report: The "**Fiscal Year 2014 Wildland Fire Management Report**" was completed by the Forest Service and Department of the Interior last month. The [report](#) has all the FY2014 **numbers** you might want—spending, acres, and reports on performance measures—along with some **brief narrative reports** on a wide range of subjects, initiatives and programs from accidents to sage grouse.

Essays: Two More Chains

Two More Chains: If you don't regularly read *Two More Chains*, the **Wildland Fire Lessons Learned Center** newsletter, the [winter issue](#) is worth a look. On the first page is an **essay about safety**, and is "Can we do this safely?" the right question to ask. There is also a piece (p. 5) with an **economist's view** of fire suppression and management. Neither has world-shattering news for this audience, but it's good to see (and perhaps contribute to) the discussion in that forum.

Tips from the Field: Radio Care

Radio Care: Glenn Pollock (pollckg@cox.net), who helps keep the **Loess Hills** radios in good order, offers some advice, having repaired five Bendix King radios because of **internal damage** cause by removal of the antenna. “These radios were all well-used, so some **corrosion** had built up in the **base of the antenna / female connector**. As a result, when antenna is unscrewed the female connector at the top of the radio can also turn, causing damage. To **prevent damage**: when removing the antenna use small **pliers to hold the connector** at the top of the radio. Then **gently** turn the antenna. After that, **clean the threads and connector** (rubbing alcohol and Q-tip works well). **Do not oil** the connector.”

In the News: Megadrought

Megadrought: The [article](#) “A ‘Megadrought’ will Grip the U.S. in Coming Decades, NASA Researchers Say” ran in the *Washington Post* last week. The mega- refers to its being **measured in decades**.

For Fun: Big Burn

Big Burn: A [RadioWest podcast](#) from KUER features **interviews** with **Timothy Egan**, who wrote the recent book, and **Stephen Ives**, who wrote and directed the recent PBS documentary.

Jobs: Assistant Professor / Rio Grande Water Fund Program Associate

Assistant Professor: The **University of Idaho** is seeking a clinical assistant professor of **wildland fire science**. For more information, visit the university’s [jobs page](#); applications are due by **February 20**.

Program Associate: The **Nature Conservancy’s** New Mexico chapter is hiring a program associate. Within the Sangre de Cristo focal area of the **Rio Grande Water Fund**, the program associate will take responsibility for **developing a landscape restoration strategy**, and **building a broad coalition** of partners, collaborators, supporters and funders to address forest restoration needs for communities and sustainable water supplies. For more information, see the Conservancy’s [careers page](#) (job ID #42820); applications are due by **February 20**.

Webinars

February 26
new listing

Resilience and Regeneration after Wildfire in Dry Mixed-Conifer Forests of the U.S. Northern Rockies

10:00 Pacific / 11:00 Mountain / noon Central / 1:00 Eastern

Kerry Kemp will present this Northern Rockies Fire Science Network webinar.

Information: <http://nrfirescience.org/event/resilience-and-regeneration-after-wildfire-dry-mixed-conifer-forests-us-northern-rockies>

FLN Workshops & Field Tours

March 6
new listing

Pike’s Peak FLN / TBD

Save the date for the next meeting of the Pike’s Peak FLN. The agenda will include the status of planning for the Sourdough project and continued development of key messages and outreach strategy.

May 12-14

Southern Blue Ridge FLN / Morganton, NC

Registration is now open for the 10th annual regional workshop of the SBR FLN. Information: <http://sbrfln2015.weebly.com/>

FLN Prescribed Fire Training Exchanges

- February 15-23*** **Klamath River Communities TREX / Weitchpec, CA**
This TREX, hosted by the Yurok Tribe and FLN, will provide training opportunities to local and regional fire practitioners while completing local priority burns. (The application deadline has passed.) * Dates are tentative.
- February 15-28** **North Carolina Prescribed Fire Training Exchange / Ellerbe, NC**
The North Carolina Prescribed Fire Council, Southern Blue Ridge FLN and numerous other partners will host this TREX in the sandhills and piedmont region of the state. (The application deadline has passed.)
- March 14-29** **Niobrara River Valley TREX / Ainsworth, NE**
This “spring break TREX” will integrate a diverse group of fire practitioners, and provide experiential learning while burning on The Nature Conservancy and U.S. Fish & Wildlife Service lands. (The application deadline has passed.)
- March 16-27** **Lower Loup Valley TREX / Broken Bow, NE**
The TREX is a partnership between Pheasants Forever, The Nature Conservancy, Fire Learning Network, and Rainwater Basin Joint Venture. A grant from the Nebraska Environmental Trust Fund provided resources to allow landowners to rest the land from grazing to build up fuel that will increase the effectiveness of the burns. (The application deadline has passed.)
- March 20-22** **Firing Operations on Wildland Fires TREX / Johnstown, NE**
This brief event, aimed at rural and municipal fire departments in the Great Plains, will focus on ignition techniques, timing and sequence of ignition patterns, and planning and briefing firing operations. (Application deadline has passed.)
- April 27 – May 6** **East River TREX—Session I / eastern SD**
May 11-20 **East River TREX—Session II / eastern SD**
deadline
In these TREX supported by the U.S. Fish & Wildlife Service, Bureau of Indian Affairs, South Dakota Wildland Fire Division, The Nature Conservancy and other partners, burns will be conducted near Aberdeen, Huron, Madison and Waubay to improve wildlife habitat and range conditions, reduce the possibility of damaging wildfires and provide training and learning opportunities for participants. Applications for both sessions are due **March 2**.
Information: <http://www.conservationgateway.org/ConservationPractices/FireLandscapes/HabitatProtectionandRestoration/Training/TrainingExchanges/Pages/USFWS-TREX-2015.aspx>
- May 14-21** **Central Oregon Ecological Fire Training Exchange / Bend, OR**
This TREX, aimed at prescribed fire partners in the state of Oregon, will focus on the ecological, social, communications, monitoring and operational dimensions of planning and implementing ecologically-based prescribed fire for restoration goals.

Conferences, Workshops, Etc.

- March 10-12** **Preparing for Wildfires: Moving from Crisis to Opportunity / Tucson, AZ**
new listing
Information: <http://tucsonfireworkshop.org>

- March 24-26** **Wildland-Urban Interface Conference / Reno, NV**
There will be a FAC track at this IAFC conference.
Information: www.iafc.org/wui
- April 20-24** **Managing Fire, Understanding Ourselves: Human Dimensions in Safety and Wildland Fire / Boise, ID**
13th International Wildland Fire Safety Summit & 4th Human Dimensions of Wildland Fire Conference. Early registration ends **March 2**.
Information: <https://inawf.memberclicks.net/upcoming-conferences>
- May 2**
new link **International Wildfire Community Preparedness Day**
Various events will be taking place. Entries for the Wildfire Community Preparedness Project Awards are being accepted through **March 5**.
Information: <http://www.nfpa.org/wildfirepreparednessday>
- May 5-7** **11th Symposium on Fire and Forest Meteorology / Minneapolis, MN**
The American Meteorological Society is hosting this conference.
Information: <http://www.ametsoc.org/MEET/fainst/201511fireforest.html>
- May 18-19**
new listing **Intro to State-and-Transition Simulation Modeling of Landscape Vegetation Dynamics / Ft Collins, CO**
Information: http://wiki.syncrosim.com/index.php?title=Courses#Course_Descriptions
- May 27-29** **5th Fire in Eastern Oak Forests Conference / Tuscaloosa, AL**
Information: <http://easternfire.as.ua.edu>
- September 24-26**
new listing **Colorado Wildland Fire Conference: Creating Fire Adapted Communities / Snowmass Village, CO**
Information: <http://www.wildfire-colorado.com/>
- October 22-24** **Backyards & Beyond: Wildland Fire Education Conference / Myrtle Beach, SC**
Information: <http://www.nfpa.org/training/backyards-and-beyond>
- November 16-20** **Fire Ecology & Management Congress / San Antonio, TX**
The call for proposals (oral & poster presentations, special sessions, workshops & trainings, attached meetings) is now open; deadlines vary.
Information: <http://afefirecongress.org/>

Send News, Links & Comments

Lynn Decker – ldecker@tnc.org – Lynn is in Orleans, CA February 16-19; Ashland, OR February 20-21.

Jeremy Bailey – jeremy_bailey@tnc.org – Jeremy is at North Carolina TREX February 13-22.

Wendy Fulks – wfulks@tnc.org – Wendy is out February 27.

Mary Huffman – mhuffman@tnc.org – Mary is in Orleans, CA February 16-20.

Heather Montanye – hmontanye@tnc.org – Heather is in the office.

Guy Duffner – gduffner@tnc.org – Guy is at NC TREX February 12-March 1; out March 3-8.

Liz Rank (editor) – lrnk@tnc.org – Liz is out February 19-26.

To stop receiving the FLN Networker, please reply to this message and include your request in the body of the message.

Full Links

News from the Field—NC—Op-ed: <http://www.citizen-times.com/story/opinion/contributors/2015/02/06/finding-middle-ground-forest-management/22995373/>

News from the Field—FAC Learning Network: <http://www.nfpa.org/press-room/news-releases/2015/partnership-announces-inaugural-wildfire-mitigation-awardees>

Reports & Articles—Cost drivers: <http://www.nwfirescience.org/sites/default/files/u5/Suppression%20synthesis.pdf>

Reports & Articles—Diversity: <http://www.scientificamerican.com/article/how-diversity-makes-us-smarter/>

Reports & Articles—Annual fire report: http://www.doi.gov/pmb/owf/upload/2016_01_12_FY-2014-WFM-Annual-Rpt_Final2.pdf

Essays—Two More Chains: <http://www.wildfirelessons.net/viewdocument/?DocumentKey=ae1ab29c-d453-428f-9be7-1ece11ef8633>

In the News—Megadrought: http://www.washingtonpost.com/national/health-science/todays-drought-in-the-west-is-nothing-compared-to-what-may-be-coming/2015/02/12/0041646a-b2d9-11e4-854b-a38d13486ba1_story.html

For Fun—Big Burn: <http://radiowest.kuer.org/post/big-burn>

Job—University of Idaho: <http://www.uidaho.edu/human-resources/jobs>

The Fire Learning Network is supported by *Promoting Ecosystem Resilience and Fire Adapted Communities Together: Collaborative Engagement, Collective Action and Co-ownership of Fire*, a cooperative agreement between The Nature Conservancy, USDA Forest Service and agencies of the Department of the Interior.

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COALITION ALERT: EPA's Proposed Ground-Level Ozone Standard and Prescribed Burning Implications

The Issue: More stringent ground-level ozone standards will dramatically increase the area in the U.S. that fails to meet the proposed standard. Many of these potential nonattainment areas harbor fire-dependent ecosystems where the use of fire may become more difficult, exacerbating fire hazards, plant and wildlife habitat quality, sustainability of forest and rangeland resources, and increasing risks to health and safety.

Background: Based on an extensive body of public health research evidence, EPA has proposed (see: www.gpo.gov/fdsys/pkg/FR-2014-12-17/pdf/2014-28674.pdf) to update the primary and secondary ozone standards. The proposal consists of 8-hour standards within a range of 65 to 70 parts per billion (ppb). EPA is also considering levels for the health standard as low as 60 ppb and retaining the current level of 75 ppb. Changes are proposed for the Air Quality Index (AQI) for ozone and there is discussion of effects of natural background sources for ozone in the rulemaking. Hearings will also be held for public comment in **Arlington, TX** (Jan. 29), **Washington, DC** (Jan. 29), and **Sacramento, CA** (Feb.2). **The EPA will accept comments on all aspects of the proposal until March 17, 2015.** EPA will issue a final decision on Oct. 1, 2015 by court order.

Key Points for the Prescribed Fire Community:

1. Strengthening the standard to 70 ppb will **result in a potential doubling of both federal and non-federal acreage in ozone nonattainment** from the current 140 million acres to 280 million acres. At 65 ppb, approximately another 130 million acres will be nonattainment areas (NAAs). Many of these NAAs are fire-dependent ecosystems and at high risk of wildfire. Current NAAs are primarily urban centers (e.g., the Atlanta metro); the proposed standards would affect vast rural tracts in almost all states.
2. State, tribal and local air quality regulators will develop Implementation Plans to reduce emissions that contribute to high ozone levels in NAAs. Wildland fire smoke with its emissions of Nitrogen Oxides and hydrocarbons (both precursors to ozone formation) can influence or increase ozone development. **Chances are high that it could be substantially more challenging to use fire in these areas.**
3. EPA states that monitored exceedances caused by wildfire and prescribed fire will be addressed using the Exceptional Events Rule (www.federalregister.gov/articles/2007/03/22/E7-5156/treatment-of-data-influenced-by-exceptional-events). With more stringent standards for ozone and other pollutants, increased use of this rule can be anticipated, especially considering the increases in wildfires. Every submission to the EPA Regional Office under the EER is costly for the submitting agency and subject to variation between Regional Offices. **Relying on EER is a risky strategy;** already a few states are avoiding using EER for prescribed fires due to costs of monitoring and reporting.
4. In the proposed rule, EPA acknowledges the complex inter-relationships of wildfire, prescribed fire and fuels (word search "fire"); however, there is no specific language to ensure that prescribed fire is treated differently than other contributing industrial sources in NAAs. In the proposal, wildfire is noted as a part of "natural background" but **no clear statements outline how prescribed fire and fire-dependent ecosystems fit into natural backgrounds.** Additionally, it is unclear how this natural background will be considered when determining the severity of nonattainment and the emission reductions needed for an area to comply with the rule. The current trends of climate change and increasing wildfire are not considered, though EPA points out that these trends could result in more stringent requirements for an area to make progress towards attainment.
5. As Implementation Plans are developed, it is critical that Prescribed Fire Councils help craft strategies for NAAs. This level of engagement is already in place with some Councils, but **it will be imperative that all of us engage to maintain the role of fire in reducing hazard, maintaining biodiversity, managing carbon to reduce other pollutants, maintaining cultural practices, and protecting forest and rangeland resources.**



Recommendations for Prescribed Fire Councils:

A. Councils are ideally suited to foster proactive discussions with the state, tribal and local regulatory agencies charged with implementing the standards. We understand the implications of the change with regard to possible nonattainment and needs such as Smoke Management Programs and use of Basic Smoke Management Practices (<ftp://ftp-fc.sc.egov.usda.gov/AIR/smoke/BasicSmokeManagementPractices.pdf> and http://www.southernfireexchange.org/SFE_Publications/factsheets/2014-1.pdf). The costs, challenges, and limitations of the Exceptional Events Rule, which is proposed as a potential pathway for exempting fire-related emissions, would be important points for Councils to highlight and discuss.

B. Each Council understands the benefits of fire use in the context of their ecosystems, laws and requirements, such as addressing Threatened and Endangered Species. Comments to EPA on the proposed ozone standards and concerns about how fire is addressed from the Council perspective are important. The impacts of emissions cross state and EPA Regional boundaries, so the common assumption of a good in-state relationship regarding these impacts and sources may not be the same for a down-wind state or region. Interstate transport of ozone and precursors is a direct part of the proposal and the Clean Air Act.

C. Wildfire emissions commonly cross state boundaries as well as international borders and could contribute to nonattainment if untracked and not documented as an exceptional event. EPA should clarify and consider in the Proposed Rule how natural fire regimes and fuels accumulation will be addressed in fire-dependent ecosystems and considered in the natural backgrounds. Natural background emissions should not be a liability for an area when determining attainment. The Rule should directly acknowledge the trade-offs between wildfire versus prescribed fire emissions with the understanding that emissions control strategies that impair fuel treatments is not in the best interest of public health or welfare.

Comments on the Proposed Rule are due by March 17, 2015. Comments can be submitted to EPA online, via email, fax, or mail. See: <http://www.epa.gov/airquality/ozonepollution/how-to-comment.html>

EPA notes to be sure to reference Docket ID number: EPA-HQ-OAR-2008-0699

The Coalition of Prescribed Fire Councils supports individual Prescribed Fire Councils to comment. Beyond this short-term period, we encourage Councils that have not engaged with the air quality regulatory community to do so. Other looming air quality issues will face our community over the coming years – our position as proactive partners will be critical to maintaining prescribed fire.

Please direct questions to:

Dr. Morgan Varner, Chair of the Coalition of Prescribed Fire Councils, Inc.
Department of Forest Resources & Conservation
310 West Campus Drive (MC 0324)
Virginia Tech
Blacksburg, VA 24061
Tel. 540-231-4855; Email: morgan.varner@prescribedfire.net

Community Wildfire Protection Plans

The Fire Adapted Communities Learning Network held a webinar exploring Community Wildfire Protection Plans (CWPPs). The webinar featured presenters from six different communities and an assistant professor at Portland State University. In addition to this summary, a set of [FAC Learning Network Resources](#) covering CWPP topics is being produced.

Characterizing Trends in CWPP Planning

Max Nielson, an assistant professor at Portland State University, provided an update on community wildfire planning research. His presentation covered a project exploring the need to better characterize the social factors that contribute to wildfire risk. Connections between adaptive capacity and planning was one question the project explored. A set of community archetypes that describe risks and assets at the community level was another aspect of the project webinar participants found interesting. Links to the research are included in the resources section at the end of this summary.

Process, Partnerships and Collaboration

Justice Jones of the Austin Fire Department, George McKinley of the Southern Oregon Forest Restoration Collaborative and Chris Chambers of the City of Ashland gave presentations about their CWPP processes and the value of collaboration and partner buy-in. They discussed what it takes to initiate a CWPP process and enroll key partners. One lesson that each presenter had experienced was how important community involvement is if you want the final product to reflect community values. Letting partners define the CWPP activities and help guide the process can also ultimately lead to more successful implementation.

From the Chat Box: Participant Insights

"We're trying to create a more flexible model where it [the CWPP] can be updated as things change and projects are completed."

"We are more effective at funding our community/HOA level CWPPs. Our County CWPP is funded at a much lower level."

"When goals are accomplished, it is time to come up with new goals. Each plan should be put together with an expected time frame."

"In a collaborative process remember, this might not be how I would do it, but its how we could do it."

Significant Updates and Revisions

Annie Schmidt of the Chumstick Wildfire Stewardship Coalition and Alison Green and Ed Keith of Project Wildfire gave presentations on initiating and completing CWPP revisions. Tailored meetings for different stakeholders was an important strategy in deeply engaging community groups. Questions about scale also factored into several of the presentations. Identifying actionable goals and a way to measure progress was cited as critical. Several resources for revising CWPPs were shared, including an Evaluation Guide (see resources section).

Ensuring Successful Implementation

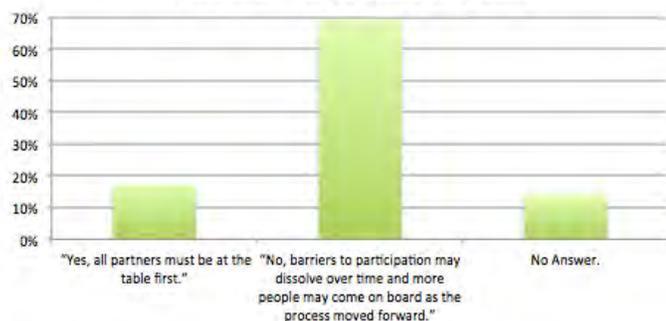
Doc Bloodworth of the Florida Forest Service and Jerry McAdams of the Boise Fire Department offered ideas for ensuring successful implementation. They talked about how communities are effectively using CWPPs to implement FAC activities and how they fund these efforts. Coordinating CWPPs with other hazard mitigation plans was one technique they shared that can streamline implementation.



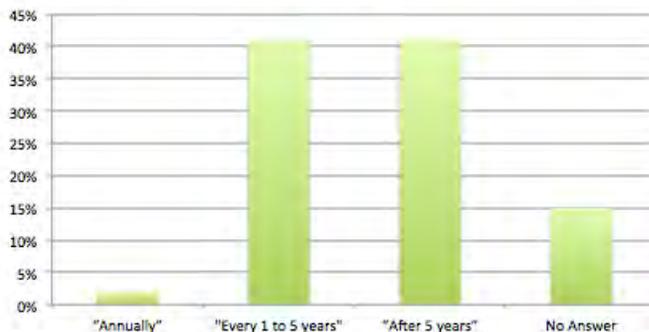
Time For A Poll!

Webinar participants shared their opinions in a set of polls. Discussions were sparked around the importance of timing and partnerships, and the frequency of plan revisions.

Q1: Do you believe it is important to have all of your partners in place before you begin the CWPP process?



Q2: How often should CWPPs be updated with major revisions?



Resources

For more information about the Fire Adapted Communities Learning Network, visit the website at www.facnetwork.org or email info@facnetwork.org.

The following resources were provided by participants and presenters in the webinar:

Local Tools

[State of Florida Wildfire Hazard Mitigation Plan Annex](#)

[An evaluation of Fuel Reduction Projects in the Eastern Cibola National Forest: Mapping as Monitoring](#)

Research

[Measuring Community Capacity for Protection from Wildfire](#)

[Ecosystem Workforce Program](#)

[Categorizing the Social Context of the Wildland-Urban Interface: Adaptive Capacity for Wildfire and Community Archetypes](#)

Best Practices

[Best Management Practices for Creating a Community Wildfire Protection Plan](#)

[Preparing a Community Wildfire Protection Plan: A Handbook for Wildland-Urban Interface Communities](#)

[Community Wildfire Protection Plan Evaluation Guide](#)

[Engaging Socially Vulnerable Populations in Community Wildfire Protection Plans](#)

The Fire Adapted Communities Learning Network is supported by Promoting Ecosystem Resilience and Fire Adapted Communities Together, a cooperative agreement between The Nature Conservancy, USDA Forest Service and agencies of the Department of the Interior through a subaward to the Watershed Research and Training Center.

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