CFLR Project (Name/Number): Amador Calaveras Consensus Group (ACCG) Cornerstone (CFLR015) National Forest(s): Eldorado and Stanislaus National Forest

#### 1. Match and Leveraged Funds

#### a. Fiscal Year 2017 Funds Documentation

Fund Source - (CF	Fund Source – (CFLN/CFLR Funds Expended)			Total Funds Expended in FY 2017	
Core Funds BLI / Program	Eldorado	Stanislaus	Core Funds BLI		
CFLN FY 2015 FY 2017	153,658 538,834	0 790,661	CFLN (2015) CFLN (2017)	153,658 1,329,495	
District Totals:	\$692,492	\$790,661	Total	\$1,483,153	
Cornerstone Total		483,153			
fund Source – (Furfunds (in addition t		from Washington Office (N)	Total Funds Exp	ended in FY 2017	
Core Funds			Core Funds		
BLI / Program	Eldorado	Stanislaus	BLI		
BDBD (FY 2013)	436,713	489,616	CFLN	1,483,153	
District Totals:	\$436,713	\$489,616	BDBD	926,329	

			- FS Matching Funds Total Funds Expended in FY 201		
			Match Funds	225 155	
Eldorado	Stanislaus		ord whose I have reported	225,155	
0	225,155		RIRI	4,833,925	
4,833,925	0		WFHF	10,782	
0	10,782	a .	Cornerstone Total	\$5,099,862	
\$4,833,925	\$265,937				
\$5,099	9,862				
	4,833,925 0 <b>\$4,833,925</b>	0 225,155 4,833,925 0 0 10,782	0 225,155 4,833,925 0 0 10,782 \$4,833,925 \$265,937	0 225,155 4,833,925 0 WFHF 0 10,782 Cornerstone Total	

List and description of Budget Line Item (BLIs) used in this report

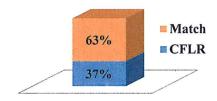
BLI	Description	BLI	Description
CFBD	Cornerstone Match – Brush Disposal	PTNR	Partner Funds
CFLN	Collaborative Forest Landscape Restoration	RBRB	Range Betterment Fund
CMTL	Improvement or Maintenance of Trails	RIRI	Restoration of Improvements on Forest Lands
CMXN	Recreation	SSCC	Stewardship Contracting
NFTM	Forest Products	SSSS	Timber Salvage Sales
NFWF	Wildlife and Habitat Management	WFHF	Hazardous Fuels Reduction

CFLRP Annual Report: 2017

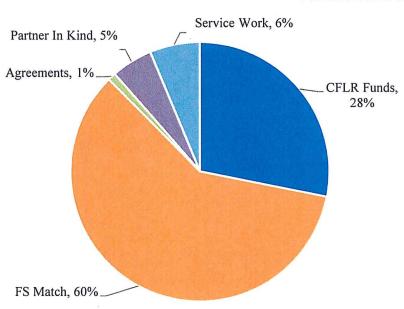
Fund Source – (Funds contributed through agreements)	<b>Total Funds Expended in FY 2017</b>
PG&E Noxious Weeds - \$10,000	\$10,000
Fund Source – (Partner In-Kind Contributions)	<b>Total Funds Expended in FY 2017</b>
• ACCG - \$117,615	a a
• Foothill Conservancy - \$29,067	
<ul> <li>CHIPS (Master Participating Agreement) - \$170,454</li> </ul>	
<ul> <li>Arnold Rim Trail Association, Arnold Volunteers, OHV Clubs,</li> </ul>	\$441,844
Trail Riders, and Trout Unlimited - \$122,708	
• Institute for Bird Populations (Indian Valley monitoring) - \$2,000	

Service work accomplishment through goods-for services funding within a stewardship contract	Totals
For Contracts Awarded in FY 2017:	
Total revised non-monetary credit limit for contracts awarded in FY17	
<ul> <li>Foster Firs Stewardship Project - \$417,880</li> <li>Copycat Stewardship Project - \$118,625</li> </ul>	\$536,505

#### **Cornerstone FY 2012-2017 Cumulative**



### **Cornerstone FY 2017 Funding**



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#### 1b. Please provide a narrative or table describing leveraged funds in your landscape in Fiscal Year 2017.

During the Fiscal Year 2017, approximately \$995,781 was leveraged by the Amador Calaveras Consensus Group from in-kind services, restoration treatments, and capacity building that helped achieve ACCG and Cornerstone project goals and objectives.

Description of Item	Where Activity/Item is Located or Impacted Area	Estimated Total Amount	Forest Service or Partner Funds?	Source of Funds
In-kind Services; workgroups and meetings, web oversight, grant and letter writing	CFLR all-lands landscape within Cornerstone Project Area	\$117,615	Partner Funds	ACCG
Wild and Scenic designation on the non-Federal land portion of the Mokelumne River, Participation in the Mokelumne PG&E Project 137 Ecological Resources Committee, Coordination/participation with the Upper Mokelumne River Salmonid Restoration Team, and Mokelumne River Clean-up.	CFLR all-lands landscape within Cornerstone Project Area	\$37,695	Partner Funds	Foothill Conservancy
Amador Fire Safe Council: Fuel reduction and wildfire protection	PG&E ingress/egress on private, residential roads and public education	\$90,000	Partner Funds	PG&E
Amador Fire Safe Council: Fuel reduction and wildfire protection	Fuel breaks throughout Amador County	\$100,000	Partner Funds	California Fire Safe Council
CalAm Team: Hazard Tree Mitigation	Amador and Calaveras Counties	\$600,000	Partner Funds	CalFire
Youth employer organization	CFLR all-lands landscape within Cornerstone Project Area	\$26,074	Partner Funds	California Conservation Corp
Youth employer organization	CFLR all-lands landscape within Cornerstone Project Area	\$15,757	Partner Funds	Student Conservation Association
Local workforce development organization	CFLR all-lands landscape within Cornerstone Project Area	\$8,640	Partner Funds	Motherlode Job Training

#### 2. Fire Management Activities

# 2a. Please tell us about the CFLR project's progress to date in restoring a more fire-adapted ecosystem as described in the project proposal, and how it has contributed to the wildland fire goals in the 10-Year Comprehensive Strategy Implementation Plan.

The Comprehensive Strategy Implementation Plan focuses on building collaborative relationships with local, State, Regional, Tribal and National interests. The Forest Service is working with ACCG, in which the Fire Safe Councils are active participants, to provide a foundation to meet performance measures in the future. Fuel treatments conducted in FY 2017 within the Cornerstone project area are expected to reduce the extent and intensity of future wildfires within the Wildland Urban Intermix (WUI). Hazardous fuels have been greatly reduced in the project area adjacent to communities at risk.

Contributions to the goals and performance measures are as follows:

Carlo Company	butions to the goals and performance measures are as follows:	
A STATE OF THE PARTY OF THE PAR	Performance Measure	Contribution to the 10-year Strategy
	l - improve fire prevention and suppression.	
	Percent change from 10-year average for wildfires controlled during initial attack.	The Cornerstone Project area had 29 wildland fires in 2017. These fires were
	Percent change from 10-year average for number of unwanted human- caused wildfires.	below or equal to the 10-year average. All fires in 2017 were contained in the initial
	Percent of fires not contained in initial attack that exceed a stratified cost.	attack except in the Mokelumne Wilderness Area. Lightning strikes within the wilderness were allowed to burn for resource benefit and made up 90% of the acreage burned in the Cornerstone.
Goal .	2 - reduce hazardous fuels.	
	Number of WUI acres treated that are identified in CWPPS or other application collaboratively developed plans.	3,895.7 acres
	Number of non-WUI acres treated that are identified through collaboration consistent with the <i>Implementation Plan</i> .	2,330 acres
Goal	3, Part A, - the restoration of fire-adapted ecosystems.	
	Number of acres treated by prescribed fire, through collaboration consistent with the <i>Implementation Plan</i> .	1,200 acres
	Number of acres treated by mechanical thinning, through collaboration consistent with the <i>Implementation Plan</i> .	500 acres
	Number of acres of the natural ignitions that are allowed to burn under strategies that result in desired conditions.	77 acres (within wilderness)
ı	Number of acres treated to restore fire-adapted ecosystems which are moved toward desired conditions.	6,226 acres
	Number of acres treated to restore fire-adapted ecosystems which are maintained in desired conditions	2,407 acres
Goal	3, Part B, - the restoration and post-fire recovery of fire-adapted ecosystem.	
	Number and percent of burned acres identified in approved post-wildfire recovery plans as needing treatments that actually receive treatments.	0 acres (Power Fire Post-fire Planting expected in FY 2018)
	Percent of burned acres treated for post-wildfire recovery that is trending towards desired conditions.	0 acres (Power Fire Post-fire Planting expected in FY 2018)
Goal	4 - the promotion of community assistance.	
	Number of green tons and/or volume of woody biomass from hazardous fuel reduction and restoration treatments on federal land that are made available for utilization through permits, contracts, grants, agreements, or equivalent.	The USFS continues to implement a Master Participating Agreement with CHIPS, resulting in fuels reduction and fuel break construction projects and fuel wood permits account for approximately 1,758 green tons.

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## 2b. Where existing fuel treatments within the landscape are tested by wildfire, please include a summary and reference the fuel treatment effectiveness report.

Both the Amador Ranger District and Calaveras Ranger District experienced a less severe FY 2017 fire season as compared to FY 2016 (660 acres), with 29 fires on both districts totaling approximately 85.5 acres. All fires were contained in initial attack (8.5 acres) with the exception of lightning-caused fires within the Mokelumne Wilderness Area (77 acres) that were allowed to burn for resource benefit.

Calaveras Ranger District		Amador Ranger District			
Fire Name	Date	Acres	Fire Name	Date	Acres
Winton	05/29/2017	4.24	Salt	10/03/2016	77
Bear	07/31/2017	1.25	Bear	07/05/2017	.25
Moore	08/04/2017	.1	Tragedy	08/01/2017	.1
Salt	08/07/2017	.1	Shot	08/02/2017	.5
Blue	08/21/2017	.1	Devils	08/03/2017	.1
Slick	08/22/2017	.1	Thunder	08/16/2017	.1
Valley	08/22/2017	.1	Pardoe	08/21/2017	.1
Frog	08/26/2017	.1	Hidden	08/21/2017	.1
Cabbage	09/14/2017	.5	Kit	08/22/2017	.1
			Bear 2	08/22/2017	.1
			Cole	08/22/2017	.1
			Beebe	08/22/2017	.1
			Munson	08/23/2017	.1
			Horse	08/24/2017	.1
			Winton	08/28/2017	.1
		- 10 - 10 - 10 - 10 - 10 - 10 - 10 - 10	Scout	09/06/2017	.1
			Woods	09/06/2017	.1
			Forgotten	09/09/2017	.1
			Teton	09/09/2017	.1
			Shealor	09/16/2017	.1
Calavera	s Total Acres	6.06		nador Total Acres	79.45

The CHIPS program provided much needed fuels reduction work in the forest on several high profile Cornerstone fuels projects this year. The projects included fuel break and line construction, thinning and hand piling across both ranger districts:

- Amador Ranger District; Tiger Creek, Panther Creek, and Ellis Road fuels reduction projects. The CHIPS average nine person crew spent 85 days on the district at a cost of \$136,230.
- Calaveras Ranger District; Bailey ridge fuel break, Irish O'Manual fuel break, Tamarack fuel break, and Pumpkin Hollow under the 2016 Master Stewardship Agreement completed in conjunction with Upper Mokelumne River Watershed Authority (UMWRA), and the Greater Valley Conservation Corps (GVCC). The CHIPS average 7 person crew spent 105 days on the district at a cost of \$140,235.

#### Wilderness Fires -

The Salt Fire reported on October 2, 2016 was a lightning fire that occurred in the Mokelumne Wilderness. The Eldorado National Forest chose to utilize a confine /contain management action to monitor the incident. Fire progression was monitored and suppression actions would have been used as appropriate to prevent fire progression South towards Salt Springs Reservoir, Southeast towards County Land Parcel, and West towards PG&E powerlines. This action was chosen to minimize fire size while managing risk exposure to ground and aviation suppression resources and utilize Minimum Impact Strategies and Tactics in suppression efforts within the Mokelume Wilderness boundaries.



Salt Fire burning in the Mokelumne Wilderness. Photo by US Forest Service

Fire protection in Amador, Calaveras and Alpine counties depends on collaboration between the private and public sectors to plan, fund, build and maintain linear and landscape fuel breaks across all lands including Cornerstone Project. The ACCG has facilitated collaboration between the US Forest Service, Bureau of Land Management, Sierra Pacific Industries, Calaveras Big Trees State Park, CAL FIRE, local Fire Districts, and homeowner associations. The Cornerstone Collaborative monthly meetings and website provide a forum for these stakeholders to coordinate fire protection plans. Cornerstone funds have enabled the Amador and Calaveras Ranger Districts to install and maintain WUI fuel breaks while ACCG partners pursue other outside funds to extend these breaks onto adjoining private land.





Fuel break installation and maintenance. Photo from Pat McGreevy

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# 3. What assumptions were used in generating the numbers and/or percentages you plugged into the TREAT tool?

Part-time and full-time jobs and labor income estimates were derived using the following assumptions:

Description	CFLR/N Funds Only	All Funds (CFLR/N and Match)
Funding and Employment		
Total Funding	\$2,409,482	\$7,509,344
Percent of Funding used for Contracted Work	35%	46%
Percent of Funding used for Force Account Implementation and Monitoring	29%	24%
Annual Force Account FTEs for Implementation and Monitoring	12	13
Contract Funding Distribution		
<b>Equipment intensive -</b> (No Commercial Products). Includes chipping in the woods and mechanical treatments such as non-commercial logging, mastication. Grapple piling. Excavator work, tree-tipping, etc.	29%	29%
<b>Labor intensive</b> - (No Commercial Products). Includes labor intensive, simple mechanical treatments such as thinning with chain saws, hand piling, prescribed burning, tree planting, etc.	11%	21%
Material-Intensive Work - (No Commercial Products). Projects where materials represent a significant portion of project costs. Includes road work, culvert replacement, in-stream restoration, fence construction, some trail work, etc.	51%	37%
<b>Technical Services</b> - (No Commercial Products). Includes stand exams, marking, layout, biological surveys, cultural surveys, invasive weed spraying, etc.	2%	10%
<b>Professional Services</b> - (No Commercial Products). Includes studies completed by scientists, engineering design, acquisition or analysis of remotely-sensed data, scientific modeling, workshops, etc.	4%	1%
Contracted Monitoring (Does not include in-kind and volunteer contributions)	2%	2%
Amount of Harvest Volume		
CCF (100 cubic feet)	29,929	29,929
MBF (1000 board feet)		
Dry Tons	1,758	1,758
Cords		
Product Distributions		
Sawmills and Wood Preservation	97%	97%
Veneer and Plywood Manufacturing		
Engineered Wood Member and Truss Manufacturing		
Reconstituted Wood Product Manufacturing		
Wood Container and Pallet Manufacturing		
Prefabricated Wood Building Manufacturing		
All Other Miscellaneous Wood Product Manufacturing		
Pulp Mills		
Biomass—Co-gen		
Biomass—Co-gen Firewood (Commercial)		

#### FY 2017 Jobs Created/Maintained (FY17 CFLR/CFLN/ WO carryover funding):

	Jobs (Full ar	Jobs (Full and Part-Time)		Income
Project Type	Direct	Total	Direct	Total
Timber harvesting component	57	90	3,067,462	3,594,348
Forest and watershed restoration	9	10	128,555	197,607
component				
Mill processing component	55	150	3,337,037	8,316,892
Implementation and monitoring	14	16	506,124	592,738
Other Project Activities	0	0	8,743	14,056
TOTALS:	134	267	7,047,921	12,715,641

#### FY 2017 Jobs Created/Maintained (FY17 CFLR/CFLN/ WO carryover and matching funding):

	Jobs (Full ar	nd Part-Time)	Labor	Income
Project Type	Direct	Total	Direct	Total
Timber harvesting component	57	90	3,067,462	3,594,348
Forest and watershed restoration	33	40	463,945	773,327
component				
Mill processing component	55	150	3,337,037	8,316,892
Implementation and monitoring	29	35	1,305,414	1,528,814
Other Project Activities	1	1	35,814	57,575
TOTALS:	175	316	8,209,671	14,270,956

# 4. Describe other community benefits achieved and the methods used to gather information about these benefits. How has CFLR and related activities benefitted your community from a social and/or economic standpoint?

The Cornerstone collaborative identified the following community benefits from FY 2017:

- Reduced the risk of uncharacteristic fire that could harm people and property.
- Increased public awareness of restoration efforts in the Cornerstone all-lands planning area.
- Increased participation of local Tribes in forest management activities.
- Leveraged investment from other federal, state, and private sources.
- Involved diverse community members in project planning, implementation, and monitoring.
- Attracted regional attention as a model for community forest collaboration.
- Promoted open discussion of forest issues related to ACCG goals through on-the-ground projects.
- Provided opportunities for community learning through project field trips.

Indicator	Brief Description of Impacts, Successes, and Challenges	Links to reports or other published materials
Project partnership	California Fire Safe Council: leveraged	http://www.amadorfiresafe.org/
composition	investment from other federal, state, and	http://www.calaverasfiresafecoun
	private sources.	<u>cil.org/</u>
Relationship	Amador Calaveras Consensus Group:	http://acconsensus.org/
building/collaborative work	Continued and expanded collaboration and	
_	communication among federal, state, and	
	local governments, community groups,	
	nonprofits, and businesses.	
Preserving cultural heritage	Calaveras Healthy Impact Product Solutions:	http://www.calaveraschips.org/co
of sites/resources	Put local Native Americans to work restoring	ntact.html
	traditional cultural sites.	

Indicator	Brief Description of Impacts, Successes, and Challenges	Links to reports or other published materials
Job training	Motherlode Job Training: Provided jobs to	http://mljt.org/
opportunities/per capita	local residents in economically disadvantaged	
normalize	rural communities, which created direct and	
	indirect economic benefits.	3

#### CHIPS Partnership -

When the ACCG was formed, CHIPS had an annual program income of less than \$40,000. It subsisted on some small grants from the National Forest Foundation and bought equipment with a USDA earmark. During the 2017 calendar year CHIPS will achieve project revenues of close to \$1,000,000. CHIPS has staff working in the Tahoe, Eldorado, and Stanislaus National Forests, BLM lands in Amador and Calaveras counties, private parcels in the Butte Fire scar, Washoe Tribal lands restoration in Nevada and California, Yosemite National Park in Tuolumne Meadows, the Mariposa Grove and Yosemite Valley, and Fire Safe Council work in the Amador County WUI. At peak season, CHIPS employed 42 full time employees, making them the largest employer in the Blue Mountain area of West Point. This year, 60% of CHIPS employees were of Miwok, Washoe, and Paiute, heritage. Although some of the projects occurred outside the ACCG planning area, none of them could have occurred without the connections made within the ACCG Collaborative which, in turn, has been nurtured by the CFLR resources we received through the US Forest Service.

One of the most important developments in 2017 was the creation of multi-year Master Participating Agreements with the Eldorado, Stanislaus, and Tahoe National Forests. These additions allowed CHIPS the luxury of long term planning which gave their board the confidence to buy 12 new saws, 3 crew cabs trucks, and a bus. CHIPS was able to accomplish some long overdue repairs on all our rigs. CHIPS is one of the biggest customers at the local automotive repair, saw shop and fuel supplier. Most of CHIPS revenues were spent locally in the hard pressed areas of West Point, Wilseyville, Rail Road Flat, Woodfords, and Mid Pines within the ACCG community. In 2017, CHIPS celebrated its 13th anniversary. They will end this year with funding reserves to take them through the winter with multiple projects at lower elevations to employ as many as 25 staff where only 10 staff were

Local Bioenergy Product Yard The eight year effort to build a
local biomass plant in Wilseyville
at a former lumber mill site has
seen great progress in 2017. A
price was achieved for electricity
production through the California
Senate Bill 1122 BioMAT
Auction, all entitlements with
Calaveras County was completed,
and site preparation has
begun. CHIPS also reached an
agreement with a national
company to bring a tub grinder
and loader to the site by end of

employed in previous years.

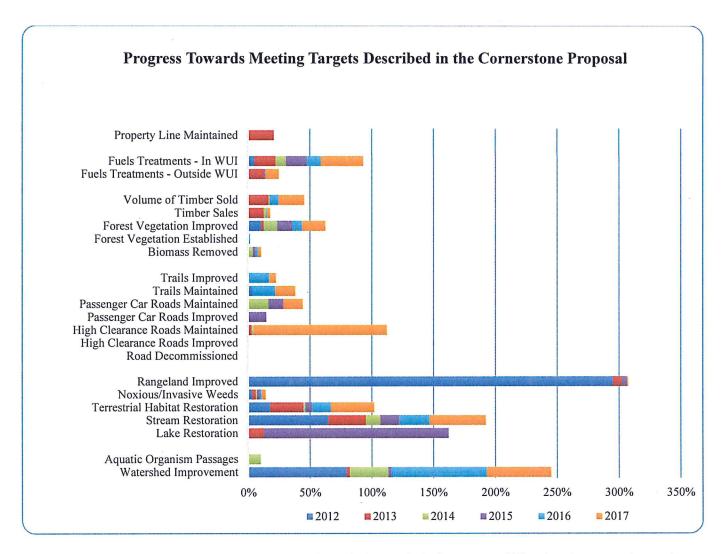


year. Again, none of this work could have come this far without steady employment of their staff under the CFLR and support of the ACCG. The Bioenergy Product Yard will be a needed component to the Sierra and Blue Mountain region, supporting economic, environmental, and social restoration. When the biomass plant is completed, the ACCG will have additional local infrastructure capacity to utilize woody biomass from Cornerstone forest restoration projects.

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5. Based on your project monitoring plan, describe the multiparty monitoring process. What parties (who) are involved in monitoring, and how? What is being monitored? Please briefly share key broad monitoring results and how results received to date are informing subsequent management activities (e.g. adaptive management), if at all. What are the current weaknesses or shortcomings of the monitoring process?

The Cornerstone CFLR just completed its 6<sup>th</sup> year of project implementation. Work in the initial years focused on watershed restoration; aquatic, terrestrial wildlife, and rangeland restoration; and fuels reduction in the Wildland Urban Intermix (WUI). Many of the Cornerstone restoration projects that have actions to decommission, maintain, or improve roads have not been implemented. Over the next 2 years, more projects are expected to have actions related to improving forested and meadow environments, watershed conditions, and treating fuels outside of WUIs.



The ACCG Collaborative has a team with diverse knowledge, technical resource skills, planning expertise, and perspectives on forest restoration and community conditions actively developing the Cornerstone monitoring strategy. This monitoring team includes a variety of Forest Service staff, representatives from environmental and non-profit organizations, and the forest products industry. The monitoring strategy describes what will be monitored, how to conduct the monitoring, how the monitoring results will be used, and the responsible party for each step in the process. The monitoring strategy will also provide guidance in:

- Determining if restoration projects are implemented in accordance with the project design and intent.
- Determining if the outcomes and effects of restoration actions are achieving desired conditions.
- Identifying whether the restoration treatments need to be modified to accommodate results of monitoring.

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In 2016, the monitoring team created the templates for data collection for each of the monitoring perspective. In 2017, CFLR funds were used to support the collection of baseline conditions for the Hemlock Restoration Project and Red Fir Monitoring in the Foster Firs Project.

In addition, the 62-page monitoring document, *Cornerstone Collaborative Forest Landscape Restoration Project Monitoring Strategy*, was presented to the entire Collaborative in FY 2017 and gained concurrence to move forward with monitoring activities.

Monitoring Project	Perspective	the Cornerstone Project A Discipline	Responsible Party
Monitoring red fir management	Ecol. Effect.	Conifer Forest	UC Davis, USFS Region 5 Ecology
CFLR Annual Report		Collaboration / Social Economic	Stanislaus and Eldorado NF
Social/Economic Monitoring (future)		Social Economic	
Region 5 Economic Monitoring		Social Economic	US Forest Service, Region 5
Caples Creek Monitoring	Ecol. Effect.	Conifer Forests/Fire and Fuels	USFS Region 5 Ecology, ENF, SNC
Indian Valley Meadow Monitoring	Ecol. Effect.	Riparian and Aquatic Features	American Rivers, Institute for Bird Populations, and Alpine Watershed Group
Restoring services provided by mature California black oak in the Power Fire	Ecol. Effect.	Hardwood	USFS Pacific Southwest Research Station
Planning and Implementation of Prescribed Burns in the Power Fire	Ecol. Effect.	Fire and Fuels/Conifer Forests	USFS Pacific Southwest Research Station, UC Berkeley
Inventory and monitoring of post fire forest succession in the Power Fire area, including comparison of treated and untreated areas.	Ecol. Effect.	Conifer Forests/Fire and Fuels	UC Davis
Identifying desired conditions for plantation management and planting and thinning techniques to reach desired conditions	Ecol. Effect.	Conifer Forest	USFS Pacific Southwest Research Station, University of Michigan
LiDAR Ground Validation in the Power Fire	Ecol. Effect.	Conifer Forest	USFS Region 5 Ecology, USFS Remote Sensing Lab
Western bumble bee distribution and management in the Power Fire area.	Ecol. Effect.	Terrestrial Wildlife	Institute of Bird Populations
Using birds to effectively monitor the ecological restoration of the Fred's & Power Fires	Ecol. Effect.	Terrestrial Wildlife	Point Blue
Characterizing meadow vulnerability to climate change to prioritize conservation and restoration efforts	Ecol. Effect	Meadow	Region 5 Ecology
Monitoring of birds and bats in the Power Fire: ecological implications for post-fire restoration in the mixed conifer zone of the Sierra Nevada	Ecol. Effect.	Terrestrial Wildlife	UC Davis, Point Blue
Real-time hydrologic monitoring for Western Watershed Enhancement program Hemlock Forest Restoration Project	Ecol. Effect.	Watershed	UC Merced
Power Fire Roads Assessment using the GRAIP Road Inventory and Model	Ecol. Effect.	Roads	Rocky Mountain Research Station
Were treated forests more resistant to the 2012-2015 bark beetle epidemic in the Sierra Nevada?	Ecol. Effect	Conifer Forest	UC Davis, Region 5 Ecology
Effectiveness of conifer removal in meadows	Ecol.Effect.	Meadow	Region 5 Ecology, ACCG members

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Thompson Meadow Monitoring Field Day -

In the past, Sierra Nevada meadows were more expansive and supported a vast array of wildlife and aquatic species. Now conifers are encroaching upon the meadows, decreasing their size, health and ecological function. Public awareness and support are central to maintain these meadow areas protected and functional.

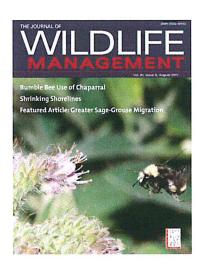
The US Forest Service initiated a two-day volunteer field work in the Thompson Meadow Restoration Project to study this important ecosystem and understand how best to maintain the benefits of meadow habitats for the plants and animals that rely on them.



About dozen volunteers and UC Davis personnel assisted the US Forest Service monitoring and learning more about the meadow habitat. *Photo by US Forest Service* 

In 2014, funded through the Power Fire Settlement, the Institute for Bird Populations began to document changes in bumble bee diversity and abundance in response to vegetation treatment (herbicide and hand treatment) and compare those responses to baseline values collected in 2015-2017. These data will help guide the restoration and management of bumble bee habitat within the Power Fire are within the Cornerstone Project and at other fire restoration areas within the Sierra Nevada. Monitoring data collected will provide information on habitat conditions and western bumble bee occurrence to allow the Forest Service to better plan for and implement restoration activities that increase persistence of this sensitive species.

Bumble Bee Use of Post-Fire Chaparral in the Central Sierra Nevada The Journal of Wildlife Management 81:1084–1097. http://onlinelibrary.wiley.com/doi/10.1002/jwmg.21280/full



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### 6. Fiscal Year 2017 Accomplishments

Performance Measure Code	Project Names	Unit of Measure	Total Units	Total Treatment Cost (\$) (Contract Costs)	Type of Funds
Watershed Improvement					
Acres of water or soil resources protected, maintained or improved to achieve desired watershed conditions (S&W-RSRC-IMP).	<ul> <li>Foster Meadows Road</li> <li>Hathaway</li> <li>El Ranchero</li> <li>Bollards Meadow</li> <li>Mattley Ridge</li> <li>Bear Valley</li> <li>Wolfeboro</li> </ul>	Acres	483	0	CFLN CMTL
Habitat Improvement					
Miles of stream habitat restored or enhanced (HBT-ENH-STRM).	<ul><li>Bebee Creek</li><li>Deer Valley Trail</li><li>Meadow Lake Road</li></ul>	Miles	3	67,000	CFLN NFWF PTNR
Acres of terrestrial habitat restored or enhanced (HBT-ENH-TERR).	<ul> <li>Non-native Plant Treatments</li> <li>Rare Plant Protection</li> <li>Foster Firs</li> <li>Wolfeboro</li> </ul>	Acres	1,339	0	CFLN
Manage noxious weeds and invasive plants (INVPLT-NXWD-FED-AC).	<ul> <li>Hwy 88</li> <li>Dew Drop</li> <li>Heliport</li> <li>Omo Ranch</li> <li>Panther Creek</li> <li>South Beaver</li> <li>Salt Springs</li> <li>Caples Boat Launch</li> </ul>	Acre	182	24,000	CFLN RIRI
Road Improvements					
High clearance roads receiving maintenance (RD-HC-MAINT-MI)	<ul> <li>Bear River</li> <li>Penstock</li> <li>Ellis</li> <li>Dufrene Creek</li> <li>East Panther</li> </ul>	Miles	91	116,365	RIRI
Miles of existing passenger car system roads reconstructed (RD-PC-RCNSTR)	Panther Creek Road     Ellis Road	Miles	20	0	RIRI
High clearance road reconstruction (RD-HC-RCNSTR)	<ul><li>Blue Lakes</li><li>Lower Bear River</li><li>Bear Point</li></ul>	Miles	14	312,532	RIRI
Passenger car roads receiving maintenance (RD-PC-MAINT-MI)	<ul> <li>Green Road</li> <li>Panther Creek</li> <li>Spicer</li> <li>Salt Springs</li> <li>Ellis Road</li> <li>Cabbage</li> <li>Tanglefoot</li> <li>Canyon</li> </ul>	Miles	75	154,445	RIRI
Trail Improvements	D 11 11	N 4:1	22	57.000	CELN
Miles of system trail maintained to standard (TL-MAINT-STD)	<ul> <li>Deer Valley</li> <li>Arnold Rim Trail</li> <li>Emigrant Trail</li> <li>Calaveras Dome</li> <li>Highland Creek</li> </ul>	Miles	32	57,000	CFLN CMXN
Miles of system trail improved to standard (TL-IMP-STD)	<ul><li>Deer Valley</li><li>Gold Rush</li><li>Long Valley</li></ul>	Miles	3	0	CFLN CMXN

CFLRP Annual Report: 2017

			CILIT	Annual Re	port: 201
Performance Measure Code	Project Names	Unit of Measure	Total Units	Total Treatment Cost (\$) (Contract Costs)	Type of
Forest Improvements				T	
Acres of forest vegetation established	<ul> <li>Power Fire Post-fire Planting</li> </ul>	Acres	0	0	
(FOR-VEG-EST).	expected in FY2018				
Acres of forest vegetation improved	Camp Creek	Acres	2,461	333,837	CFLN
(FOR-VEG-IMP).	• East Panther				RIRI
	Foster Firs				SSCC
	Copycat				
	• Winton Plantation Thin				
	Pumpkin		2.60		
Acres of forestlands treated using	• View 88	Acres	369	0	
timber sales (TMBR-SALES-TRT-	Callecat				
AC).  Volume of timber sold (TMBR-VOL-	0 0 7 7 1 0 1	CCF	30,000	0	CFLN
SLD).	<ul><li>Copy Cat Timber Sale</li><li>Foster Firs Timber Sale</li></ul>	CCr	30,000	0	SSSS
SLD).					3333
Green tons from small diameter and	Timber Salvage Sales	Cuaan	1,758	0	
low value trees made available for bio-	• Fire Wood Permits	Green tons	1,736	0	
energy production ( <b>BIO-NRG</b> ).	• Issued Permits	tons			
Acres of rangeland vegetation	Dufrene Watering Pond	Acres	.5	0	RBRB
improved (RG-VEG-IMP)	Duffelle Watering Folid	ricies	.5	, v	10.0
Acres covered by stewardship	Copy Cat Timber Sale	Acres	2,213	0	
contracts/agreements (STWD-	• Foster Firs Timber Sale		,		
CNTRCT-AGR-AC)	- Toster The Timber Sale	_			
Number of stewardship	• CHIPS (Cowboy Trail OHV,	Number	5	520,000	CFLN
contracts/agreements contributing to	Tamarack Fuel Break)				
forest and rangeland watersheds in	<ul> <li>Pumpkin Hollow Mastication</li> </ul>				
fully functioning condition (STWD-					
CNTRCT-AGR-WTRSHD)					
uel Treatments  Acres of hazardous fuels treated	Callecat     Oski Bear	Acre	2,330	141,724	CFLN
outside the wildland/urban interface	action region of the great for	ACIC	2,330	141,724	RIRI
(WUI) to reduce the risk of	<ul><li>Copycat</li><li>Lost Horse</li><li>East Panther</li></ul>				SSCC
catastrophic wildland fire ( <b>FP</b> -	Mokey Bear     Winton				5555
FUELS-NON-WUI).	• Prospect Plantation				
,	Rock • Wolfeboro				
	• Silverado • Summit Level				
	• Tiger Creek				
Acres of WUI high priority hazardous	Tamarack     Lakemont	Acres	3,896	490,000	CFLN
fuels treated to reduce the risk of	Fuel Break • Highway 4	A A STATE OF THE S			RIRI
catastrophic wildland fire (FP-	• View 88 Corridor				SSCC
FUELS-WUI).	• Caples • Hazard Trees				
	• Foster Firs • Mckays				
	• Copycat				
Acres mitigated (FP-FUELS-ALL-MIT-NFS)		Acres	6,226	0	
Prescribed fire accomplished		Acres	1,200	0	
nventory and Monitoring			L		
Acres of inventoried data	Hemlock spotted owl PACS	Acres	6,364	307,725	CFLN
collected/acquired (INV-DAT-ACQ).	• Post-fire monitoring support				CFBD
	Amador Archeology Surveys				CFRI

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7. FY 2017 accomplishment narrative. Summarize key accomplishments and evaluate project progress not already described elsewhere in this report.

#### Supporting Restoration with Off-Road Vehicle Associations -

The Cornerstone Project area has popular motorized and non-motorized trail system that requires yearly maintenance and monitoring. Trail re-routes helps reduce resource damage, improves rider safety, and enhances environmental aesthetics. Local volunteers such as Arnold Rim Trail Association, Mother Lode Rock Crawlers, Tahoe High Lows, South County Trail Riders, and Trout Unlimited spent about 4,760 hours this summer maintaining and monitoring trails in the Cornerstone.

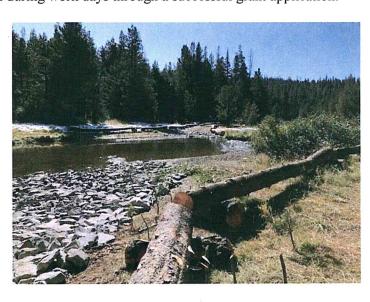


Barrier installation to maintain OHV trail and limit access and protection of meadows. *Photo by US Forest Service* 

Deer Valley Meadow Restoration worked on portions of Deer Valley Meadow and associated Yosemite Toad habitat with the assistance of over 1,200 volunteer hours from the local community.

- Re-routed 600' trail away from riparian vegetation and Yosemite Toad habitat along creek bank.
- Install sedge mulch and planted willow and alder cuttings along western bank of Deer Creek.
- Gathered native seeds from local plant communities and used for re-vegetation efforts along the creek bank.
- Armored both crossings at Deer Creek with 40 tons of 10" rock to reduce loads into Deer Creek.
- OHV Associations volunteers provided a hot lunch during work days through a successful grant application.

Defined and delineated the crossing at Deer Creek using local materials to reduce the occurrence of user created routes and their effects on riparian vegetation. *Photo by US Forest Service* 



#### Heritage Resources -

In FY 2017, CHIPS crews completed fuel reduction and rehabilitation work in 134 acres within culturally significant areas of the in the Calaveras Ranger District. The district met with representatives from the local Miwok and Washoe Tribes to discuss work priorities for culturally sensitive sites within in the Hemlock, Pumpkin Hollow, and Wolfeboro projects. In addition, 111 visitors for 6 heritage programs held to educate visitors about the forest cultural programs on federal lands.



Restoration of Archeological Sites such as grinding rocks that are unique cultural features managed on our Forest Service lands.

Photo by US Forest Service

Over 6,200 acres of new survey were inventoried in the Amador Ranger District to identify archeological resources resulting in the identification and recordation of around 18 new sites. Monitoring of over 75 existing sites occurred across the District. The majority of the completed work under the 2017 Supplemental Program Agreement with CHIPS to reduce fuel in archeological sites using local Tribal Natives. The hand treatments improve resource conditions are within the Cornerstone Project area and will occur from March 2017 to March 2018. The majority of the work is within the Power Fire Prescribed Burn project to assist with burn preparation to keep the fire low when near sensitive features. One new prehistoric site was discovered while CHIPS was working to cut hand line for the Power Fire Prescribed Burn.

Newly discovered archeological site that shows a single bedrock mortar, used for food processing, and a possible basin.

Photo by Solano Archaeological Services



The Amador Ranger District hosted a Tribal interest meeting and three field trips to inform Tribes about various Cornerstone and Power Fire funded projects and to receive input about their concerns. This lead to the use of Tribal Monitors for the first time on the district. Additionally, two new free use permits were administered for the use of non-merchantable plants and rocks to Tribal members.

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Volunteers from the California-Nevada Chapter of the Oregon-California Trail Association (OCTA) walked portions of the Volcano Road, a Gold Rush Era wagon trail that runs into the Carson Emigrant Trail from nearby Volcano. They were able to verify its location by discovering a variety of artifacts including a mule shoe.

An overview photo of archeological site taken while assessing the fuel loading within the Power Fire Prescribed Burn area.

Photo by US Forest Service



#### Restoring Little Bear River and Cole Creek Watersheds -

To increase the pace and scale of restoration work in the Cornerstone area, ACCG members conducted field assessments of meadows and aspen stands in two watersheds affected by the Power Fire. Moderate impairment of meadow function was found in three meadows in the Little Bear River and Cole Creek drainages on the Amador Ranger District. Additional reconnaissance indicated that roads near the meadows were contributing to this impairment by modifying sediment and water inputs. A thorough assessment of necessary road work was developed in 2017 and planning for implementation is nearly complete. Aspen groves in the Little Bear River watershed were delineated. Determining the risk of stand loss is underway. Funding options for restoration are being pursued by a team of ACCG members and Forest Service staff. Plans for additional assessment and restoration on the meadows in 2018 include detailed meadow mapping, willow planting with volunteers, and initial meadow restoration designs.

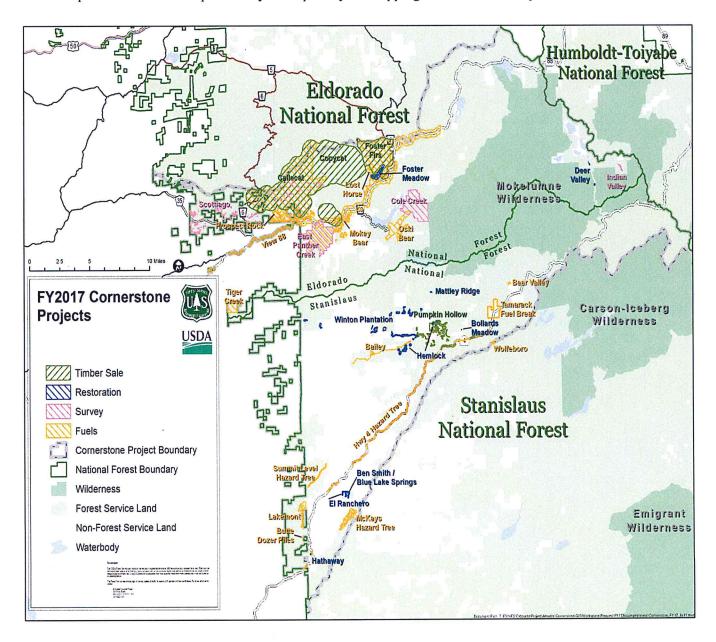


Amador Ranger District high country meadow. *Photo by Gwen Starrett* 

## 8. Please briefly describe how you arrived at the total number of footprint acres: what approach did you use to calculate the footprint?

Fiscal Year	Total Number of Acres Treated (Treatment Footprint)
FY 2017	3,528
FY 2016	3,051
FY 2015	4,106
FY 2014	2,612
FY 2013	4,687
FY 2012	3,280
Estimated Cumulative Footprint of Acres	21, 264 acres

Footprint acres were calculated by first summing treatment acres for projects listed in the FY 2017 accomplishments identified in Question 6, then removing overlapping treatment areas. Footprint acres calculated in ArcGIS represent acres treated per fiscal year. Spatially overlapping treatments are only summarized once.



9. Describe any reasons that the FY 2017 annual report does not reflect your project proposal, previously reported planned accomplishments, or work plan. Did you face any unexpected challenges this year that caused you to change what was outlined in your proposal?

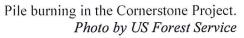
Performance Measure Code	Planned Accomplishment (From FY 2016 Annual Report)	2017 Accomplished (See Question 6)
Watershed Improvement		
Acres of water or soil resources protected, maintained or improved to achieve desired watershed conditions (S&W-RSRC-IMP).	171	483
Habitat Improvement		
Miles of stream habitat restored or enhanced (HBT-ENH-STRM).	1.6	3
Acres of terrestrial habitat restored or enhanced (HBT-ENH-TERR).	585.1	1,339
Manage noxious weeds and invasive plants (INVPLT-NXWD-FED-AC).	90.3	182
Road/Trail Improvements		
Miles of system trail maintained to standard (TL-MAINT-STD).	36.35	32
Miles of system trails improved (TL-IMP-STD).	8.5	3
Forest Improvements		
Acres of forest vegetation established (FOR-VEG-EST).	81	0
Acres of forest vegetation improved (FOR-VEG-IMP).	1056	2,461
Acres of forestlands treated using timber sales (TMBR-SALES-TRT-AC).	117	369
Volume of timber sold (TMBR-VOL-SLD).	10,196	30,000
Green tons from small diameter and low value trees (BIO-NRG).	1,266	1,758
Fuel Treatments		
Acres of hazardous fuels treated outside the WUI (FP-FUELS-NON-WUI).	29	2,330
Acres of hazardous fuels treated inside the WUI (FP-FUELS-WUI).	1,265	3,896
Inventory and Monitoring		
Acres of inventoried data collected/acquired (INV-DAT-ACQ).	6,199	6,364

#### **Fire Regime Restoration**

For the past few years, prescribed fire projects lagged behind expectations due to a number of external factors. Large landscape scale wildfires occurred during the Cornerstone implementation period. These fires occurred during a five-year drought, which was followed by a substantial increase in mountain pine beetle tree mortality. The combined drought, tree mortality and wildfire situation reduced opportunity to implement prescribed fire. It also changed our priority areas for burning, with increased emphasis on treatment in the WUI.

During development of the CFLR Ecological Indicator Progress Report (2014) we identified that treatment acres related to fire regime restoration were overly ambitious. Notably, we anticipate that we will not meet our original expectation for areas outside of the WUI. We expect to meet 22% of the original non-WUI accomplishment by the end of FY 2019. Fuels treatments within WUI are projected to meet 100% of the original Cornerstone goals.

In FY 2017, we worked closely with the ACCG and local partners like the Fire Safe Councils to increase prescribed burning capacity. For example, we have initiated coordination with local fire units to assist in prescribed burn activities when appropriate. Public demand and ecological need will support continued prescribed fire and fuels reduction activities well beyond the FY19 anticipated end of CFLR funding.







#### **Roads and Trails**

The severe winter storms in 2017 caused extensive damage to the transportation system within the Cornerstone project area and hampered road maintenance and improvement activities. Engineering resources have had to adjust priorities to emergency fixes for primary forest access. Future road maintenance work will be commensurate with available road maintenance funding. Over the remaining years of CFLR funding projects are planned to repair and improve the road network. In the Eldorado National Forest most of the Cornerstone road projects will be supplemented with fire settlement funds. We anticipate increasing the pace of road and trail improvements during the remaining years of CFLR funds, but also that this type of work will substantially decrease once supplemental funds are not available.

Storm damaged road in the Cornerstone area of the Stanislaus National Forest. *Photo by US Forest Service* 





Storm damaged roads in the Cornerstone area of the Eldorado National Forest. *Photo by US Forest Service* 

## 10. Planned FY 2019 Accomplishments

Rangeland Improved RG-VEG-IMP   72   220.9   0.5   226.0	208 202 163
Stream Restoration	208
HBT-ENH-STRM	202
Watershed Improvement         S&W-RSRC-IMP         930         1,329.1         4,83.29         1,879.0           Lake Restoration         BT-ENH-LAK         32         52.0         0         52.0           Property Line Maintained         LND-BL-MRK-MAINT         15         10.6         0         15.0           Fuels Treatments - In WUI         15         10.6         0         15.0           Fuels Treatments - In WUI         11,367         6,650.5         3,895.70         11,370.0           Terrestrial Habitat Restoration         HBT-ENH-TERR         3,820         1,882.6         1,338.72         3,056.0           Passenger Car Roads Improved         132         19.3         0         106.0           Volume of Timber Sold         143,305         35,106.4         29,928.74         114,644.0           Aquatic Organism Passages         5TRM-CROS-MTG-STD         10         1         0         8           Trails Improved         50         8.5         2.75         40.0           High Clearance Roads Maint.         84         3.8         90.56         66.5           Forest Vegetation Improved         7,645.5         466.5         7,645.5           High Clearance Roads Improved         7,645.5         7,645.5 <td>202</td>	202
S&W-RSRC-IMP         930         1,329.1         4,83.29         1,879.0           Lake Restoration         BT-ENH-LAK         32         52.0         0         52.0           Property Line Maintained         LND-BL-MRK-MAINT         15         10.6         0         15.0           Fuels Treatments - In WUI         15         10.6         0         15.0           Fuels Treatments - In WUI         11,367         6,650.5         3,895.70         11,370.0           Terrestrial Habitat Restoration         HBT-ENH-TERR         3,820         1,882.6         1,338.72         3,056.0           Passenger Car Roads Improved         132         19.3         0         106.0           Volume of Timber Sold         143,305         35,106.4         29,928.74         114,644.0           Aquatic Organism Passages         5TRM-CROS-MTG-STD         10         1         0         8           Trails Improved         50         8.5         2.75         40.0           High Clearance Roads Maint.         84         3.8         90.56         66.5           Forest Vegetation Improved FOR-VEG-IMP         13,117         4,695.7         2460.60         7,645.5           High Clearance Roads Maintained         84         0	
Lake Restoration	
HBT-ENH-LAK   32   52.0   0   52.0	163
Property Line Maintained	103
LND-BL-MRK-MAINT   15	
Fuels Treatments - In WUI         11,367         6,650.5         3,895.70         11,370.0           Terrestrial Habitat Restoration         HBT-ENH-TERR         3,820         1,882.6         1,338.72         3,056.0           Passenger Car Roads Improved         RD-PC-IMP         132         19.3         0         106.0           Volume of Timber Sold         143,305         35,106.4         29,928.74         114,644.0           Aquatic Organism Passages         STRM-CROS-MTG-STD         10         1         0         8           Trails Improved         50         8.5         2.75         40.0           High Clearance Roads Maint.         84         3.8         90.56         66.5           Forest Vegetation Improved         13,117         4,695.7         2460.60         7,645.5           High Clearance Roads Improved         84         0         0         45           Passenger Car Roads Maintained         84         0         0         45	100
FP-FUELS-WUI         11,367         6,650.5         3,895.70         11,370.0           Terrestrial Habitat Restoration         3,820         1,882.6         1,338.72         3,056.0           Passenger Car Roads Improved         132         19.3         0         106.0           Volume of Timber Sold         143,305         35,106.4         29,928.74         114,644.0           Aquatic Organism Passages         35,106.4         29,928.74         114,644.0           Aquatic Organism Passages         35,106.4         29,928.74         114,644.0           Trails Improved         10         1         0         8           Trails Improved         50         8.5         2.75         40.0           High Clearance Roads Maint.         84         3.8         90.56         66.5           Forest Vegetation Improved         66.5         7,645.5         66.5           High Clearance Roads Improved         13,117         4,695.7         2460.60         7,645.5           High Clearance Roads Maintained         84         0         0         45	100
Terrestrial Habitat Restoration	100
HBT-ENH-TERR   3,820   1,882.6   1,338.72   3,056.0     Passenger Car Roads Improved   RD-PC-IMP   132   19.3   0   106.0     Volume of Timber Sold   TMBR-VOL-SLD   143,305   35,106.4   29,928.74   114,644.0     Aquatic Organism Passages   STRM-CROS-MTG-STD   10   1   0   8     Trails Improved   TL-IMP-STD   50   8.5   2.75   40.0     High Clearance Roads Maint.   RD-HC-MAINT   84   3.8   90.56   66.5     Forest Vegetation Improved   FOR-VEG-IMP   13,117   4,695.7   2460.60   7,645.5     High Clearance Roads Improved   RD-HC-IMP   84   0   0   45     Passenger Car Roads Maintained   RD-Basenger Car Roa	100
Passenger Car Roads Improved         132         19.3         0         106.0           Volume of Timber Sold         143,305         35,106.4         29,928.74         114,644.0           Aquatic Organism Passages         10         1         0         8           STRM-CROS-MTG-STD         10         1         0         8           Trails Improved         50         8.5         2.75         40.0           High Clearance Roads Maint.         84         3.8         90.56         66.5           Forest Vegetation Improved         13,117         4,695.7         2460.60         7,645.5           High Clearance Roads Improved         84         0         0         45           Passenger Car Roads Maintained         84         0         0         45	80
RD-PC-IMP	
Volume of Timber Sold         143,305         35,106.4         29,928.74         114,644.0           Aquatic Organism Passages         10         1         0         8           STRM-CROS-MTG-STD         10         1         0         8           Trails Improved         2.75         40.0         40.0           High Clearance Roads Maint.         84         3.8         90.56         66.5           Forest Vegetation Improved         66.5         7,645.5         66.5           High Clearance Roads Improved         13,117         4,695.7         2460.60         7,645.5           High Clearance Roads Improved         84         0         0         45           Passenger Car Roads Maintained         84         0         0         45	80
Aquatic Organism Passages         10         1         0         8           Trails Improved         50         8.5         2.75         40.0           High Clearance Roads Maint.         84         3.8         90.56         66.5           Forest Vegetation Improved         13,117         4,695.7         2460.60         7,645.5           High Clearance Roads Improved         84         0         0         45           Passenger Car Roads Maintained         10<	
Aquatic Organism Passages         10         1         0         8           STRM-CROS-MTG-STD         10         1         0         8           Trails Improved         50         8.5         2.75         40.0           High Clearance Roads Maint.         84         3.8         90.56         66.5           Forest Vegetation Improved         66.5         7,645.5         66.5           High Clearance Roads Improved         7,645.5         7,645.5           High Clearance Roads Improved         84         0         0         45           Passenger Car Roads Maintained         10.0	80
Trails Improved         50         8.5         2.75         40.0           High Clearance Roads Maint.         84         3.8         90.56         66.5           Forest Vegetation Improved         7,645.5         66.5         7,645.5           High Clearance Roads Improved         84         0         0         45           Passenger Car Roads Maintained         13,117	
TL-IMP-STD         50         8.5         2.75         40.0           High Clearance Roads Maint.         RD-HC-MAINT         84         3.8         90.56         66.5           Forest Vegetation Improved FOR-VEG-IMP         13,117         4,695.7         2460.60         7,645.5           High Clearance Roads Improved RD-HC-IMP         84         0         0         45           Passenger Car Roads Maintained         100.00         100.00         100.00         100.00	80
High Clearance Roads Maint.         84         3.8         90.56         66.5           Forest Vegetation Improved         13,117         4,695.7         2460.60         7,645.5           High Clearance Roads Improved         RD-HC-IMP         84         0         0         45           Passenger Car Roads Maintained         10	
RD-HC-MAINT         84         3.8         90.56         66.5           Forest Vegetation Improved         13,117         4,695.7         2460.60         7,645.5           High Clearance Roads Improved         RD-HC-IMP         84         0         0         45           Passenger Car Roads Maintained         100.00	80
Forest Vegetation Improved FOR-VEG-IMP 13,117 4,695.7 2460.60 7,645.5 High Clearance Roads Improved RD-HC-IMP 84 0 0 45 Passenger Car Roads Maintained	
FOR-VEG-IMP         13,117         4,695.7         2460.60         7,645.5           High Clearance Roads Improved RD-HC-IMP         84         0         0         45           Passenger Car Roads Maintained         100.00	79
High Clearance Roads Improved RD-HC-IMP 84 0 0 45 Passenger Car Roads Maintained	
RD-HC-IMP 84 0 0 45 Passenger Car Roads Maintained	58
Passenger Car Roads Maintained	
	54
RD-PC-MAINT 482 138.3 75.41 200.0	41
Trails Maintained	20
TL-MAINT-STD 200 36.4 32.39 76.0	38
Fuels Treatments - Outside WUI	
FP-FUELS-NON-WUI         21,952         3,097.5         2,330         4,910.0	22
Timber Sales	22
TMBR-SALES-TRT-AC         14,442         2,200.9         369         3,201.0	22
Road Decommissioned RD-DECOM 5 0 1.0	
	20
Forest Vegetation Established FOR-VEG-EST  862  107.5  0  1,607.5	20
Noxious/Invasive Weeds INVPLT-NXWD-FED-AC 5,480 587.9 181.70 963.0	20 19
INVPLT-NXWD-FED-AC         5,480         587.9         181.70         963.0           Biomass Removed	19
BIO-NRG 66,403 7,578 1,758 9,078	

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## 11. Planned accomplishment narrative and justification if planned FY 2018/19 accomplishments and/or funding differs from CFLRP project work plan

We continue to move forward completing work on the ground within the Cornerstone Project to fulfill the original proposal objectives and the purposes of the Omnibus Act of 2009. In FY18 and FY19, the Cornerstone Project will continue implementation of several large projects that will improve our performance towards meeting the objective goals, including the Bailey Plantation Health Improvement, Hemlock Project, West Calaveras Plantation Thin, Callecat and Foster Firs Stewardship, Panther Forest Health projects, and Power Fire Reforestation.

## 12. Please include an up to date list of the members of your collaborative if it has changed from previous years

The ACCG is a diverse community based collaborative effort working to create healthy forests and watersheds, fire-safe communities, and sustainable local economies. ACCG developed a Memorandum of Agreement (MOA) that provides a framework between members for working together. The MOA provides clarity of intent, shared vision, membership eligibility and accountability, and basic policies and procedures for key organizational functions.

Participation in ACCG has varied since its inception in 2008. Participation from 2010 through 2017 ranged from a low of 60 individuals in 2011 and 2014 to a high of 103 individuals in 2017, with approximately 35 MOA signatories. Affiliation of ACCG members has also varied across time. ACCG observed an increase in nongovernment participation from 2016 to 2017, from 39 to 52 people, respectively. State and County participation remained the same level as in 2016. Cornerstone funds were awarded in 2012, which also corresponds to an increase in Forest Service participation in the Collaborative. Nevertheless, non-government participation represents half of the Collaborative participation in 2017.

ACCG Membership is open to all stakeholders, individuals, or organizations. Membership requires signing a copy of the ACCG MOA and acceptance as a member by the group at a regularly scheduled meeting. However, the signature of the MOA is not a requirement for participation in ACCG. All ACCG meeting and events are open to the public. Meeting and event announcements, agenda, notes, and current ACCG membership is posted on the group's website (http://www.acconsensus.org).

#### Speakers at General Meetings -

ACCG holds 11 "General" meetings each year, alternating the meeting locations between Amador and Calaveras counties. Meeting attendance is generally between 25 and 50, representing a broad spectrum of interests and perspectives. Attendees include USFS staff and management, representatives from several local environmental groups, conservancies, utilities, private land managers, other government agencies (i.e., BLM), and County Board of Supervisors from Alpine, Calaveras, and Amador counties.

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	FY 2017 ACCG Speakers
February 2017	Rick Hopson and Ray Cablayan, USFS, Cornerstone Project Accomplishments
March 2017	Zack Steel, UC Davis, "Bats in a fire-prone landscape: Acoustic monitoring in
	the Power Fire burn area 2014-2016"
April 2017	Michael Pickard, Sierra Nevada Conservancy, ACCG Strategic Planning
May 2017	Steve Wilensky, ACCG, CHIPS, Getting to consensus and conflict resolution
	Reuben Childress, Foothill Conservancy, Power Fire DEIS
-	Rick Hopson, USFS, Forest Plan Revision
June 2017	Rick Hopson, USFS, Letter of support for Cornerstone Business Plan Revision
July 2017	Joe Harvey, Calaveras Big Trees State Park, Long term forest management
	plan, fuels reduction, forest restoration
August 2107	Beter Beesley, PG&E Project Manager, PG&E Transmission Line Herbicide
	Maintenance Project
	Scott Conway, USFS, LIDAR and hyperspectral imaging uses in forestry
September 2017	Shana Gross, USFS, Landscape-level assessment and strategy
October 2017	Pat McGreevy, South Fork Mokelumne Watershed Restoration Project



Planning Work Group field meetings are routinely offered and open to all ACCG members and public to gain knowledge and ask questions about potential forest management projects. *Photo by US Forest Service* 



Photo by and Jill Micheau

13. Did your project try any new approaches to increasing partner match funding in FY 2017 (both in-kind contributions and through agreements)?

#### UMRWA (Upper Mokelumne River Watershed Authority) - USFS MSA Accomplishments

#### Pumpkin Hollow Restoration Project -

In 2017, UMRWA worked closely with the Stanislaus National Forest (SNF) staff to compile Requests for Proposals (RFPs) and an agreement with the Greater Valley California Conservation Corps (GVCCC) to implement the SNC-funded Pumpkin Hollow Restoration Project. The project is designed to reduce the risk of catastrophic wildfire and restore healthy and resilient forests in the Mokelumne watershed. The project work was organized into two Phases (Phase 1 in 2017 and Phase 2 in 2018) and six groupings consistent with the capacity of the GVCCC and the type and level of work to be performed by contractors. Accordingly, for Phase 1 UMRWA completed the GVCCC agreement and went out to bid with three RFPs and awarded all three competitive contracts. In August 2017, the successful bidders initiated the following tasks:

#### Scenic Corridor Hand Treatments (Agreement with GVCCC and CHIPS

The GVCCC initiated hand cutting of conifer trees within a 45.5-acre scenic corridor along Highway 4. UMRWA representatives worked closely with staff from the GVCCC and inspected their work in the field and obtained approvals from SNF.

#### Plantation Thinning and Mastication

UMRWA initiated plantation mastication of 230 acres of existing USFS plantations. Trees less than 10" diameter and brush were masticated to retain healthy trees at approximately 20x20 foot spacing. *Roadside Fuel break* 

UMRWA awarded a contract for 21 acres of roadside clearing and mastication of brush and small trees. *Hand Thinning/Wildlife Habitat Treatments* 

UMRWA awarded a contract for hand thinning of small conifer trees, plus lop and scatter of all limbs and stems in a 321-acre area; and hand thinning of small conifer trees plus hand piling in a 49-acre scenic corridor.



Fuels reduction needs along Highway 4. Restoration actions in Pumpkin Hollow include removal of surface and ladder fuels, thinning of overstocked forested stands, and thinning plantations.

This photograph provides a good example of vegetation conditions in Pumpkin Hollow project area.

Photo by UMRWA

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#### Power Fire EIS -

UMRWA assisted the Amador Ranger District, Eldorado National Forest with NEPA support to complete the Power Fire Reforestation Project, Environmental Impact Statement. The Eldorado National Forest proposed to restore and rehabilitate areas within the Mokelumne River watershed that burned during the Power Fire. The proposed reforestation and vegetation management project included hand planting and inter-planting, site

preparation, release of conifers from competing vegetation,

control of invasive plants and oak management.

Many areas within the fire contain large numbers of snags which are falling at an increasing rate, as well as dense vegetation re-growth with highly variable amounts of natural conifer and oak regeneration. Salvage logged units and pre-fire plantations have mostly been replanted and had brush and grass treated by hand at least once. Surveys show that some of these plantations have declined because the brush and grasses consumed the limited water and nutrients and the seedlings died. Tree survival and growth in the remainder of the plantations are at continued risk of mortality due to high levels of competing vegetation. Some logged areas have not been replanted due to rapid post-fire return of highly competitive vegetation. This project will restore and re-plant these areas.



Power Fire Restoration Area showing tree outcompeted by brush. *Photo by UMRWA* 

#### Cabbage Patch Restoration Project -

On November 6, 2017, UMRWA submitted a second Proposition 1 grant application to the Sierra Nevada Conservancy for the Cabbage Patch Restoration Project for \$500,000. The 1,219-acre Cabbage Patch Restoration

Project is located on the Calaveras Ranger District of the Stanislaus National Forest in Calaveras County, California. The purpose of this project is to reduce forest fuels, improve ecological resilience, protect tributaries to Mokelumne water storage facilities, support the regional economy and build contractor capacity, and the project will coordinate with a water yield and water balance research project sponsored by the Sierra Nevada Research Institute (SNRI) at the University of California, Merced. This project falls under the Master Stewardship Agreement between the Forest Service and UMRWA, signed May 18, 2016. The total estimated cost is \$1,200,000, including the Forest Service share of costs.

UMRWA obtained nine letters of support for the Cabbage Patch Restoration Project from Alpine County, Amador County, Amador Water Agency, Calaveras-Amador Forestry Team, United States Forest Service, Calaveras County, East Bay Municipal Utility District, Bureau of Land Management, and Calaveras Public Utility District. This project combines the assessment and modeling expertise at the University of California, with the management responsibilities of the National Forest and perspectives of other stakeholders such as water management agencies and counties with interests in long-term forest health and water supplies from the Sierra Nevada.

UMRWA anticipates that the SNC Board of Directors will award contracts at the March 2018 Board meeting.

14. Media recap. Please share with us any hyperlinks to videos, newspaper articles, press releases, scholarly works, and photos of your project in the media that you have available. You are welcome to include links or to copy/paste.

Since 2015, the ACCG website has been a convenient tool to inform and update the public and members of ACCG topics and activities. The website calendar is updated frequently, providing our members with information on educational opportunities, volunteer projects, webinars, funding opportunities, field trips, and, of course, all ACCG meetings (General, Planning, Monitoring, Administration Work Group meetings). We also post meeting notices for many of our member organizations.

Bark beetle outbreak may be signal of larger shift – Union Democrat Article
<a href="http://www.uniondemocrat.com/localnews/4722251-151/bark-beetle-outbreak-may-be-signal-of-larger">http://www.uniondemocrat.com/localnews/4722251-151/bark-beetle-outbreak-may-be-signal-of-larger</a>

Officials hope rain will help douse lightning-sparked Salt Fire <a href="http://www.sacbee.com/news/state/california/fires/article107833597.html">http://www.sacbee.com/news/state/california/fires/article107833597.html</a>

Flooded North Fork Mokelumne River is Roaring in California - One Minute News
<a href="http://www.ledger.news/flooded-north-fork-mokelumne-river-is-roaring-in-california-/youtube\_ba033552-fa00-11e6-a597-e7f7c21d676a.html">http://www.ledger.news/flooded-north-fork-mokelumne-river-is-roaring-in-california-/youtube\_ba033552-fa00-11e6-a597-e7f7c21d676a.html</a>

Bumble Bee Use of Post-Fire Chaparral in the Central Sierra Nevada <a href="http://onlinelibrary.wiley.com/doi/10.1002/jwmg.21280/full">http://onlinelibrary.wiley.com/doi/10.1002/jwmg.21280/full</a>

Jason Kuiken named Stanislaus National Forest Supervisor
<a href="http://www.uniondemocrat.com/localnews/5576836-151/stanislaus-national-forest-gets-a-new-supervisor-oct">http://www.uniondemocrat.com/localnews/5576836-151/stanislaus-national-forest-gets-a-new-supervisor-oct</a>

Stanislaus National Forest Public Meeting on Condition of Forest Roads
<a href="http://www.uniondemocrat.com/localnews/5308142-151/stanislaus-national-forest-staff-to-host-public-meeting">http://www.uniondemocrat.com/localnews/5308142-151/stanislaus-national-forest-staff-to-host-public-meeting</a>

Stanislaus National Forest suffers extensive storm damage, some roads closed until 2018 <a href="https://www.fs.usda.gov/detail/stanislaus/landmanagement/?cid=FSEPRD539085">https://www.fs.usda.gov/detail/stanislaus/landmanagement/?cid=FSEPRD539085</a>

Hazardous Roads in California's Eldorado National Forest http://acconsensus.org/2017/06/20/hazardous-roads-in-californias-eldorado-national-forest/

Hazardous Roads in California's El Dorado National Forest - One Minute News <a href="http://www.ledger.news/multimedia/hazardous-roads-in-california-s-el-dorado-national-forest-/youtube-be90212c-4da0-11e7-ad1f-0771293fe0e7.html">http://www.ledger.news/multimedia/hazardous-roads-in-california-s-el-dorado-national-forest-/youtube-be90212c-4da0-11e7-ad1f-0771293fe0e7.html</a>

2017 Mokelumne River Cleanup
http://acconsensus.org/event/2017-mokelumne-river-cleanup/

Symposium: Lessons Learned – Drought & Tree Mortality in the Sierra Nevada http://acconsensus.org/event/symposium-lessons-learned-drought-tree-mortality-in-the-sierra-nevada/

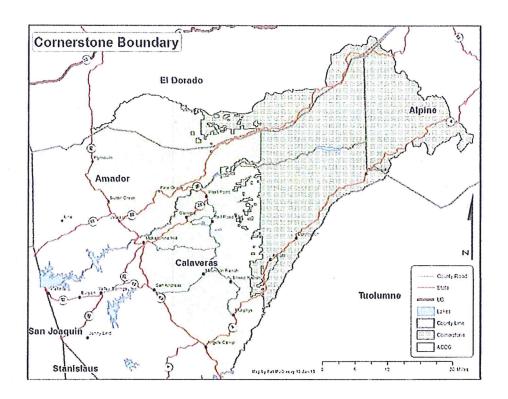
Meadow Monitoring Field Day
http://acconsensus.org/event/meadow-monitoring-field-day/

Reclaiming the Sierra 2017: Headwater Resiliency
<a href="http://acconsensus.org/event/reclaiming-the-sierra-2017-headwater-resiliency/">http://acconsensus.org/event/reclaiming-the-sierra-2017-headwater-resiliency/</a>

Forest Restoration Workshop

<a href="http://acconsensus.org/event/forest-restoration-workshop/">http://acconsensus.org/event/forest-restoration-workshop/</a>

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Date: December 1, 2017

Signatures:

Approved by: <u>amence</u> (M)
LAURENCE CRABTREE

Forest Supervisor

Eldorado National Forest

Approved by:

JASON KUIKEN

Forest Supervisor Stanislaus National Forest