

2019 SUMMER OUTLOOK

CAL FIRE

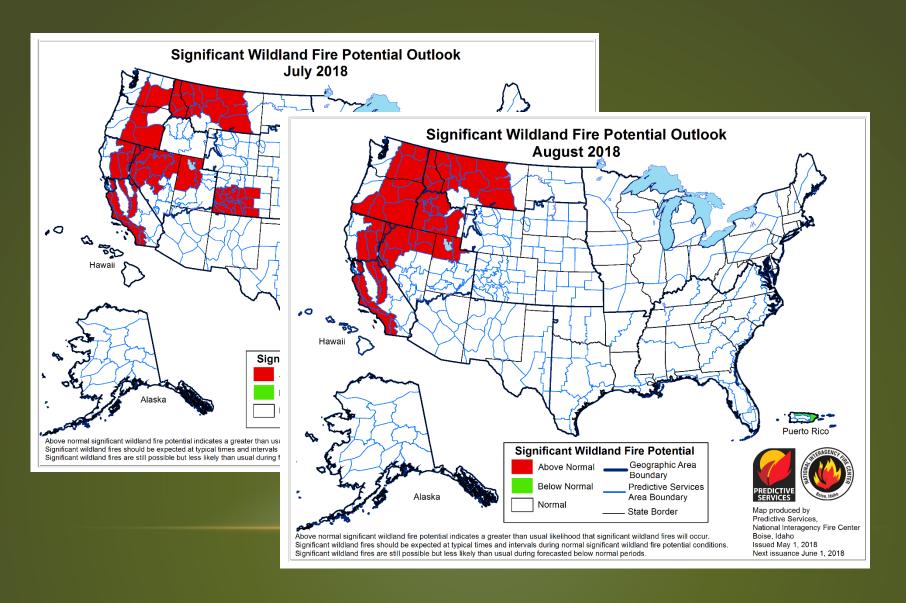
Predictive Services Sacramento
Spring 2019

CAL FIRE 2018 SUMMER SUMMARY

- 2018 Notable Events
- 2019 Outlook



2018 SEASONAL OUTLOOK



2018 NOTABLE EVENTS





SC07

SC05

SC06

2018 NOTABLE EVENTS

Predictive Service

Area Map

SC14

SC13

SC12

SC10

SC16

SC15

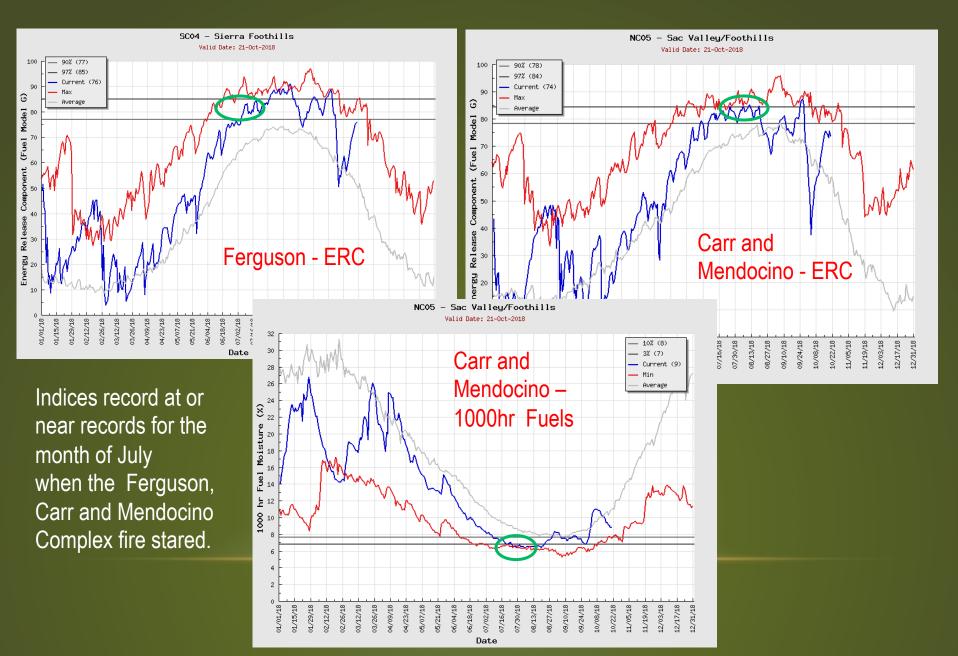
SC08

SC03

SC09

- Ferguson fire in Mariposa County July 13, 2018 96,901 Ac.
- Carr Fire in Shasta County July 23, 2018, 229,651 Ac.
- Mendocino Complex fire in Mendocino, Lake, Colusa and Glen July 27, 2018, 459,123 Ac
- Camp Fire in Butte County
 November 8, 2018, 153,336 Ac
- Woolsey Fire, Ventura and Los Angles County November 8, 2018, 96,949 Ac

2018 NOTABLE EVENTS





CARR



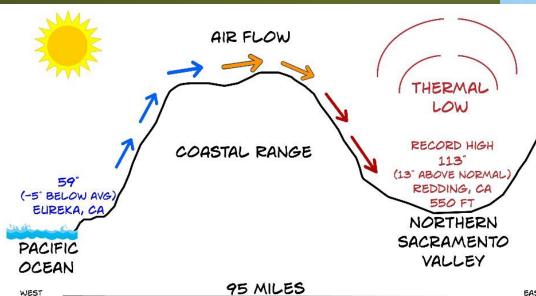
A large pyrocumulus cloud (or cloud of fire) explodes outward during the Carr Fire near Redding, Calif., on July 27. (Josh Edelson/AFP/Getty images)

CARR



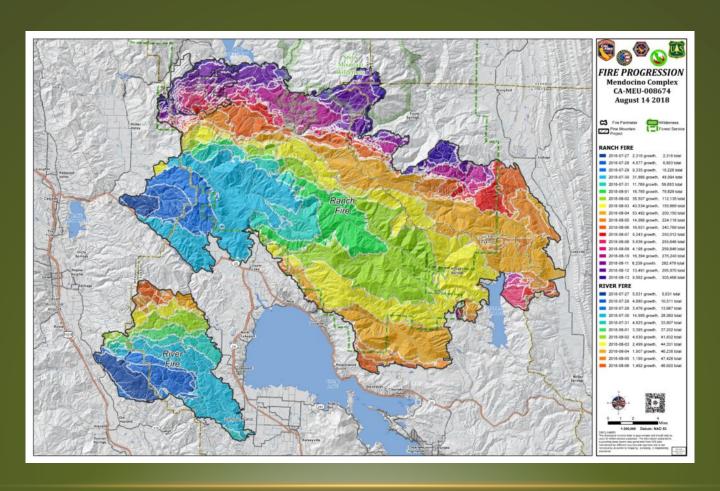
CARR FIRE, FIRE TORNADO

July 26, 2018. The fire tornado was a large rotating fire plume that was roughly 1000 feet in diameter at its base. Winds at the base of the fire tornado reached speeds in the range of 136-165 mph (EF-3 tornado strength),





MENDOCINO COMPLEX



MENDOCINO COMPLEX, LANSTAT 8



CAMP AND WOOLSEY FIRE



2018 NUMBER OF FIRES AND ACRES

Incident Information

Last modified on Jan 24, 2018

The below statistics are tracked on a weekly basis and provide a snapshot of the number of fires and acres burned. These are preliminary numbers taken from our Computer Aided Dispatch (CAD) system, and will likely change as dispatched wildfires may end up being other types of fires or false alarms. These numbers are subject to change until the final fire season reports are completed and tabulated.

NUMBER OF FIRES AND ACRES:

Interval	Fires	Acres
January 1, 2018 through December 30, 2018	6,284	876,147
January 1, 2017 through December 30, 2017	7,117	505,956
5 year average (same interval)	5,756	233,483
2018 Combined YTD (CALFIRE & US Forest Service)	7,571	1,671,203

(Statistics include all wildfires responded to by CAL FIRE in both the State Responsibility Area, as well as the Local Responsibility Area under contract with the department. Statistics may not include wildfires in State Responsibility Area protected by CAL FIRE's contract counties. Final numbers will be provided in the annual Wildfire Activity Statistics Report (Redbook) once it's published.)

TOP 20 CALIFORNIA WILDFIRE LIST

	FIRE NAME (CAUSE)		Top	20 Most Destructiv	e California Wildf	ires
1	MENDOCINO COMPLEX (Under Investigation)	FIRE NAME (CAUSE	E)	DATE	COUNTY	AC
2	THOMAS (Powerlines)	1 CAMP FIRE (Under Investigation		•	Top 20 Dead	liest (
3	CEDAR (Human Related)	2 TUBBS (Electrical)		FIRE NAME (CAUSE)	DATE	
4	RUSH (Lightning)	3 TUNNEL - Oakland Hills (Re	1 CAM	P FIRE (Under Investigation)	November 2018	
5	RIM (Human Related)	4 CEDAR (Human Related)	2 GRIF	FITH PARK (Unknown)	October 1933	
6	ZACA (Human Related)	5 VALLEY (Electrical)	3 TUN	NEL - Oakland Hills (Rekindle)	October 1991	
7	CARR (Human Related)	6 WITCH (Powerlines)	4 TUB	BS (Electrical)	October 2017	
8	MATILIJA (Undetermined)	7 WOOLSEY (Under Investigation	5 CED	AR (Human Related)	October 2003	
9	WITCH (Powerlines)	8 CARR (Human Related)	6 RAT	TLESNAKE (Arson)	July 1953	
10	KLAMATH THEATER COMPLEX (Lightning	9 NUNS (Powerline)	7 LOO	P (Unknown)	November 1966	
1	MARBLE CONE (Lightning)	10 THOMAS (Powerline)	8 HAU	SER CREEK (Human Related)	October 1943	
12	LAGUNA (POWERLINES)	11 OLD (Human Related)	9 INAJA (Human Related)		November 1956	
.3	BASIN COMPLEX (Lightning)	12 JONES (Undetermined)	10 IRON	N ALPS COMPLEX (Lightning)	August 2008	
14	DAY FIRE (Human Related)	13 BUTTE (Powerlines)	11 RED	WOOD VALLEY (Powerline)	October 2017	
15	STATION (Human Related)	14 ATLAS (Powerline)	12 HAR	RIS (Undetermined)	October 2007	
16	CAMP FIRE (Under Investigation)	15 PAINT (Arson)	13 CAN	YON (Unknown)	August 1968	
17	ROUGH (Lightning)	16 FOUNTAIN (Arson)	14 CAR	R (Human Related)	July 2018	Shas
18	McNALLY (Human Related)	17 SAYRE (Misc.)	15 ATL	AS (Powerline)	October 2017	
9	STANISLAUS COMPLEX (Lightning)	18 CITY OF BERKELEY (Power	16 OLD	(Human Related)	October 2003	
20	BIG BAR COMPLEX (Lightning)	19 HARRIS (Undetermined)	17 DEC	KER (Vehicle)	August 1959	
		20 REDWOOD VALLEY (Powerli	18 HAC	IENDA (Unknown)	September 1955	
The	re is no doubt that there were fires with signific		19 ESPI	ERANZA (Arson)	October 2006	
	e large fires in more recent times. is list does not include fire jurisdiction. These a		20 LAG	UNA (Powerlines)	September 1970	

ACRES iest California Wildfires

STRUCTURES

DEATHS

Top 20 Deadliest California Wildfires										
FIRE NAME (CAUSE)	DATE	COUNTY	ACRES	STRUCTURES	DEATHS					
1 CAMP FIRE (Under Investigation)	November 2018	Butte County	153,336	18,804	85					
2 GRIFFITH PARK (Unknown)	October 1933	Los Angeles	47	0	29					
3 TUNNEL - Oakland Hills (Rekindle)	October 1991	Alameda	1,600	2,900	25					
4 TUBBS (Electrical)	October 2017	Napa & Sonoma	36,807	5,643	22					
5 CEDAR (Human Related)	October 2003	San Diego	273,246	2,820	15					
6 RATTLESNAKE (Arson)	July 1953	Glenn	1,340	0	15					
7 LOOP (Unknown)	November 1966	Los Angeles	2,028	0	12					
8 HAUSER CREEK (Human Related)	October 1943	San Diego	13,145	0	11					
9 INAJA (Human Related)	November 1956	San Diego	43,904	0	11					
10 IRON ALPS COMPLEX (Lightning)	August 2008	Trinity	105,855	10	10					
11 REDWOOD VALLEY (Powerline)	October 2017	Mendocino	36,523	544	9					
12 HARRIS (Undetermined)	October 2007	San Diego	90,440	548	8					
13 CANYON (Unknown)	August 1968	Los Angeles	22,197	0	8					
14 CARR (Human Related)	July 2018	Shasta County, Trinity County	229,651	1,614	8					
15 ATLAS (Powerline)	October 2017	Napa & Solano	51,624	781	6					
16 OLD (Human Related)	October 2003	San Bernardino	91,281	1,003	6					
17 DECKER (Vehicle)	August 1959	Riverside	1,425	1	6					
18 HACIENDA (Unknown)	September 1955	Los Angeles	1,150	0	6					
19 ESPERANZA (Arson)	October 2006	Riverside	40,200	54	5					
20 LAGUNA (Powerlines)	September 1970	San Diego	175,425	382	5					

^{**} Fires with the same death count are listed my most recent. Several fires have had 4 fatalties, but only the most recent are listed.

***This list does not include fire jurisdiction. These are the Top 20 regardless of whether they were state, federal, or local responsibility.

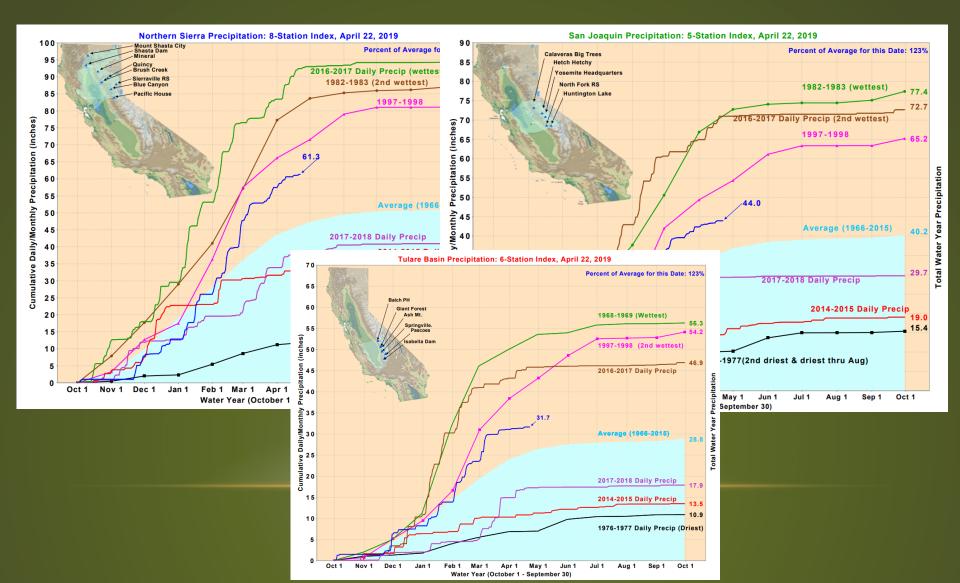


2019 SUMMER OUTLOOK

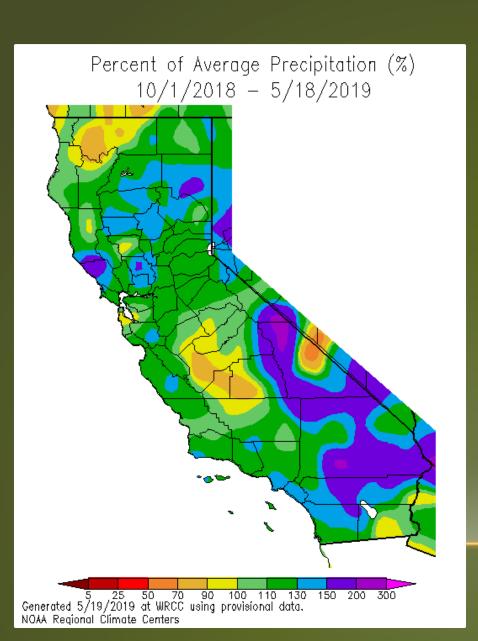


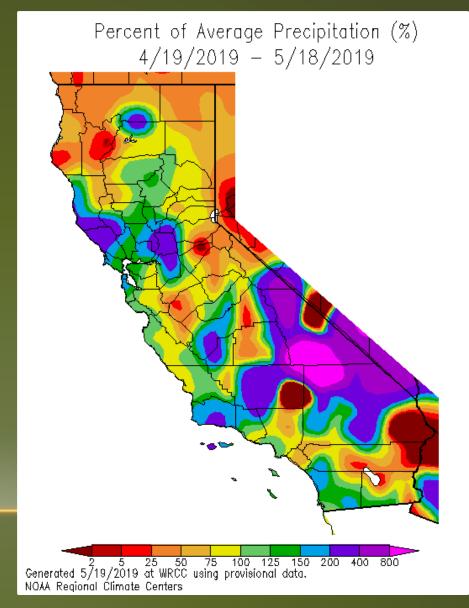
GOES-17 satellite image of a massive storm hitting California on February 2, 2019 NOAA

2018/2019 SIERRA PRECIPITATION

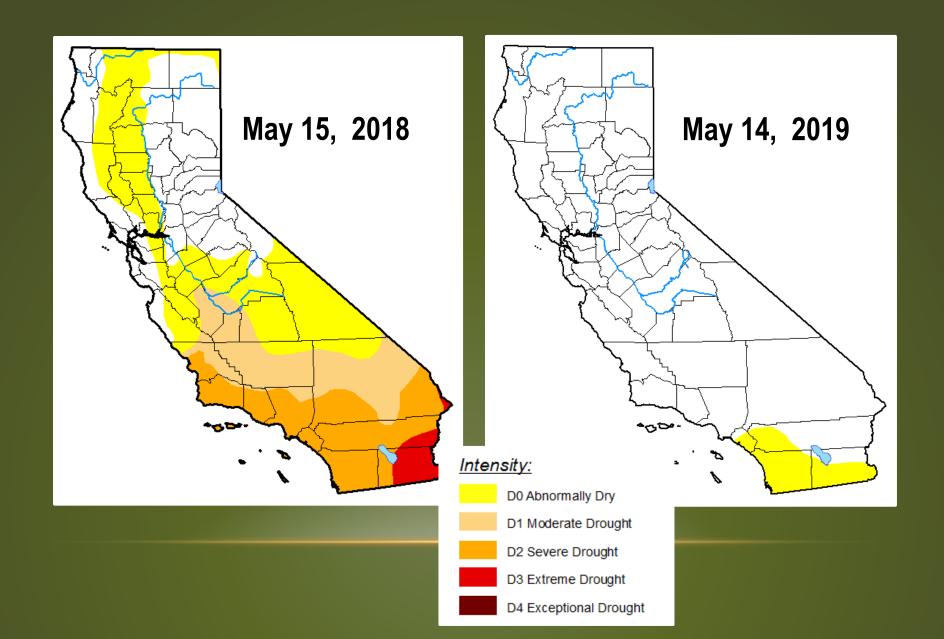


Current WX - Percent of Normal Precipitation





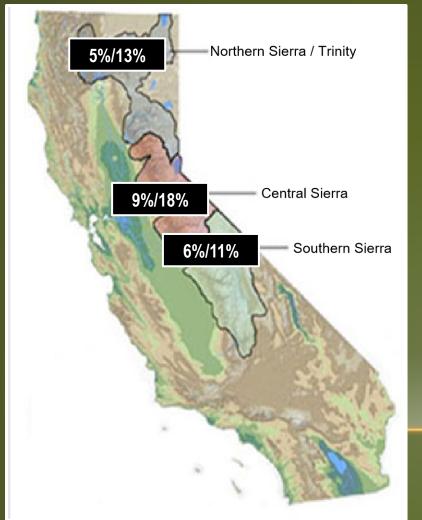
Current WX -Drought Monitor

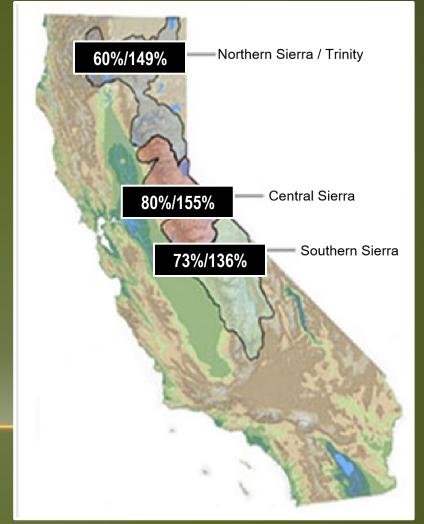


CURRENT WX – SNOW WATER CONTENT

% April 1st Avg/% May 20th Normal

2018 2019





Fuels - North Zone 1000 hr FM



FUELS - HERBACEOUS CARRYOVER MITIGATED

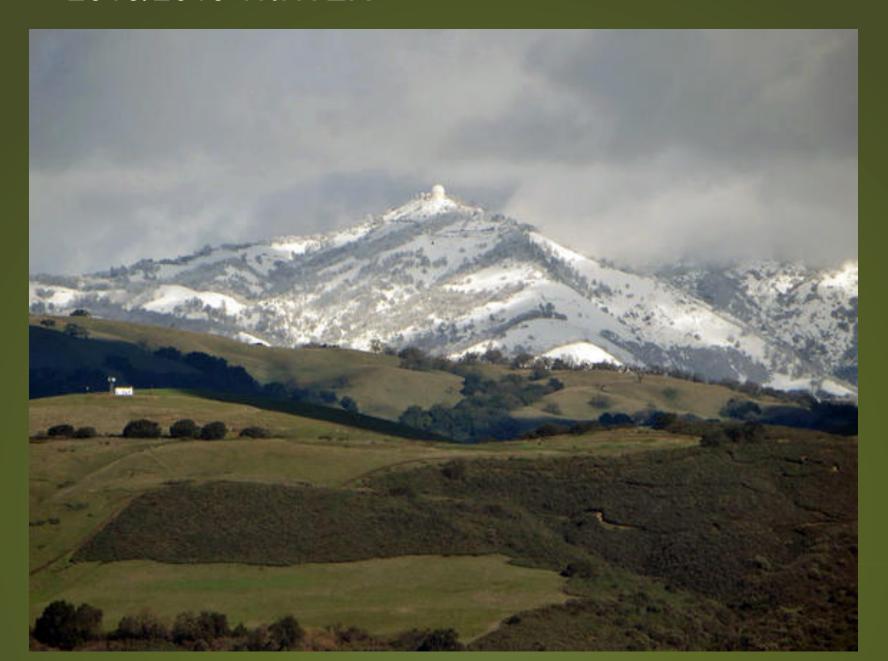








2018/2019 WINTER



Localized Mortality N. Sacramento Vly

Significant
vegetation
damage from
Feb 13th
Snowstorm

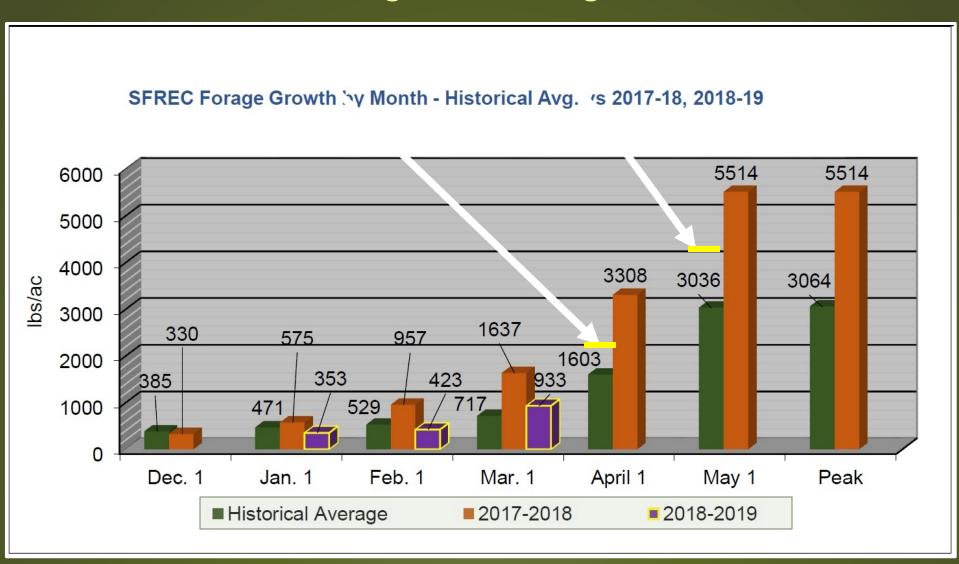
Generally impacting elevations below 2000 ft



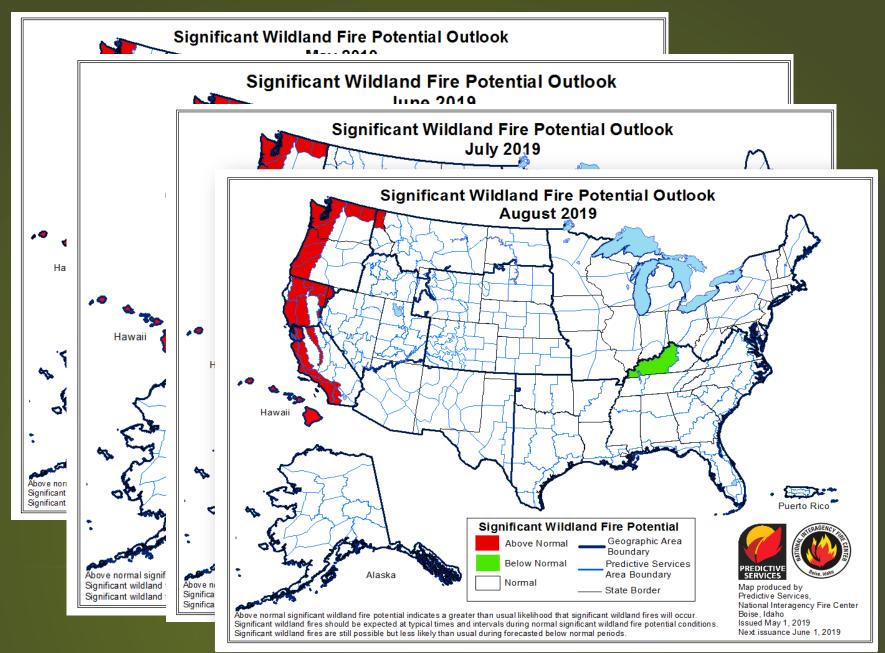


CURRENT GROWING SEASON: ABOVE NORMAL GREEN-UP

Sierra Foothills Rangeland Forage Production Data



2019 SUMMER OUTLOOK



2017 SUPER BLOOM YEAR



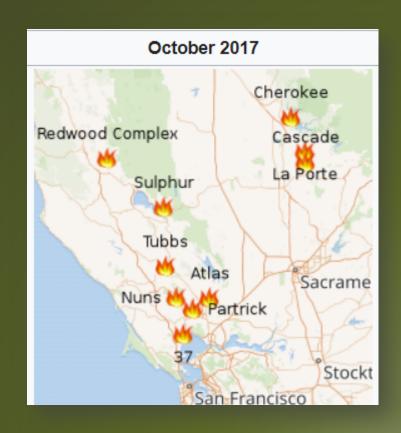
SIMILARITIES

- Multiple weather systems
- Higher than normal rainfall amounts
- Atmospheric River events

2019 SUPER BLOOM YEAR

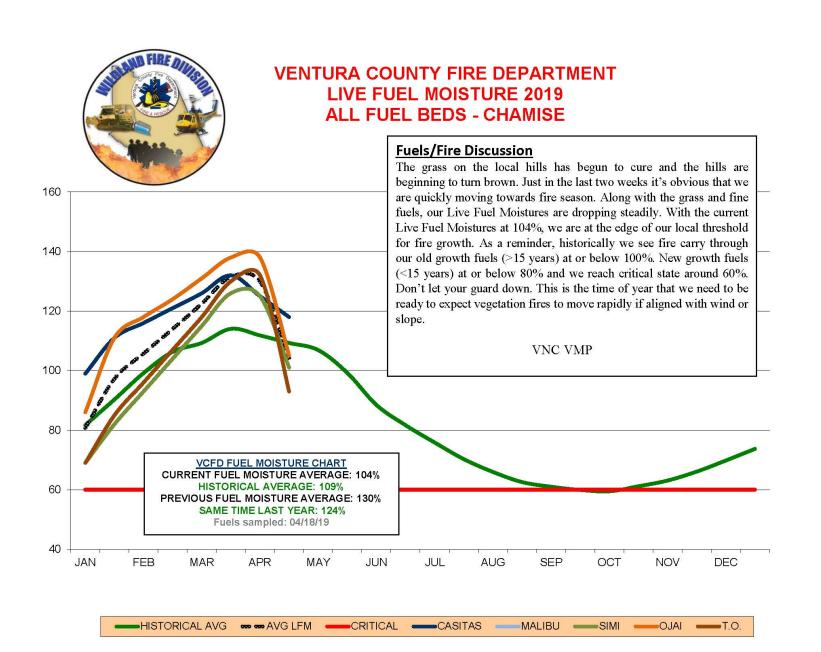


2017 SUPER BLOOM YEAR LED TO LATE SEASON FIRES





VENTURA COUNTY FUEL MOISTURE UPDATE



OUTLOOK SUMMARY

- We are seeing some of the same patterns that occurred in 2017
- The large amount of rainfall has led to an extensive grass crop that will contribute to fast moving early season fires in the grass.
- A potential for large, late season fires as the remaining grass crop will support wind driven combustion of the larger fuels after they have dried/cured.
- Areas above 6000 ft to have below normal to normal large fire potential due to the abundant slow melting snow pack

QUESTIONS?

