National Interagency Coordination Center
Incident Management Situation Report
Friday, October 27, 2017 – 0530 MT
National Preparedness Level 2

National Fire Activity

Initial attack activity:	Light (97) new fires
New large incidents:	2
Large fires contained:	4
Uncontained large fires:**	4
Area Command teams committed:	0
NIMOs committed:	0
Type 1 IMTs committed:	1
Type 2 IMTs committed:	1

**Uncontained large fires include only fires being managed under a full suppression strategy.
Link to Geographic Area daily reports.

Active Incident Resource Summary

GACC	Fires	Cumulative Acres	Crews	Engines	Helicopters	Total Personnel
AICC	0	0	0	0	0	0
NWCC	1	39,715.65	4	3	3	137
ONCC	5	214,899	34	63	3	1,578
OSCC	4	19,742	24	60	19	896
NRCC	1	561	0	1	0	3
GBCC	1	303	1	5	1	39
SWCC	2	2,192.78	0	13	0	21
RMCC	0	0	0	0	0	0
EACC	1	1,328	0	1	0	4
SACC	0	0	0	0	0	0
Total	**15**	**278,741.43**	**63**	**146**	**26**	**2,678**

Northern California Area (PL 3)

New fires:	5
New large incidents:	0
Uncontained large fires:	4
Type 1 IMTs Committed:	1

Central LNU Complex, Sonoma Lake Napa Unit, Cal Fire. Cal Fire IMT 1 (Gouvea). One mile north of Santa Rosa, CA. Brush and tall grass. Minimal fire behavior with smoldering. Road closures in effect.

Southern LNU Complex, (3 fires). Sonoma Lake Napa Unit, Cal Fire. One mile east of Napa, CA. Timber, brush and short grass. Minimal fire behavior.

Incident Name	Unit	Size		%	Ctn/ Comp	Est	Personnel		Resources			Strc Lost	$$ CTD	Origin Own
		Acres	Chge				Total	Chge	Crw	Eng	Heli			
Central LNU Complex	CA-LNU	110,720	0	94	Ctn	10/27	1,077	-669	24	46	2	7,013	97.3M	ST
Southern LNU Complex	CA-LNU	51,624	0	98	Ctn	10/27	241	-138	4	15	0	783	47.6M	ST
Mendocino Lake Complex	CA-MEU	38,730	0	100	Ctn	---	52	-20	0	0	0	706	25M	ST
Bear	CA-CZU	391	0	100	Ctn	---	10	-67	0	0	0	4	7.1M	ST

MEU – Mendocino Unit, Cal Fire CZU – San Mateo-Santa Cruz Unit, Cal Fire

Southern California Area (PL 3)

New fires: 14
New large incidents: 1
Uncontained large fires: 0

*** Wildomar**, Cleveland National Forest. Five miles south of Lake Elsinore, CA. Chaparral and tall grass. Active fire behavior. Numerous structures threatened. Evacuations, road, area and trail closures in effect.

Incident Name	Unit	Size		%	Ctn/ Comp	Est	Personnel		Resources			Strc Lost	$$ CTD	Origin Own
		Acres	Chge				Total	Chge	Crw	Eng	Heli			
* Wildomar	CA-CNF	350	---	0	Ctn	10/30	536	---	14	46	7	0	500K	FS

Southern Area (PL 3)

New fires: 24
New large incidents: 0
Uncontained large fires: 0
Type 2 IMTs Committed: 1

Hurricane Harvey, Texas A&M Forest Service. Texas IMT 2 (Hanneman) has mobilized to College Station, TX to support recovery and mitigation efforts, surveying impacts on local fire departments and distributing donated fire equipment. No new information. Last report unless new information is received.

Incident Name	Unit	Size		%	Ctn/ Comp	Est	Personnel		Resources			Strc Lost	$$ CTD	Origin Own
		Acres	Chge				Total	Chge	Crw	Eng	Heli			
Hurricane Harvey	TX-TXS	N/A	---	N/A	N/A	---	230	0	4	1	0	0	1K	ST

Northern Rockies Area (PL 1)

New fires: 0
New large incidents: 0
Uncontained large fires: 0

Incident Name	Unit	Size		%	Ctn/ Comp	Est	Personnel		Resources			Strc Lost	$$ CTD	Origin Own
		Acres	Chge				Total	Chge	Crw	Eng	Heli			
Lazy R	MT-LG23	561	0	100	Ctn	---	3	-50	0	1	0	9	15K	C&L

LG23 – Musselshell County

Rocky Mountain Area (PL 1)

New fires: 1
New large incidents: 1
Uncontained large fires: 0

Incident Name	Unit	Size		%	Ctn/ Comp	Est	Personnel		Resources			Strc Lost	$$ CTD	Origin Own
		Acres	Chge				Total	Chge	Crw	Eng	Heli			
* Tipton	WY-SWX	460	---	100	Ctn	---	0	---	0	0	0	0	10K	C&L

SWX – Sweetwater County

Fires and Acres Yesterday (by Protection):

Area		BIA	BLM	FWS	NPS	ST/OT	USFS	TOTAL
Alaska Area	FIRES	0	0	0	0	0	0	**0**
	ACRES	0	0	0	0	0	0	**0**
Northwest Area	FIRES	0	0	0	0	5	0	**5**
	ACRES	0	0	0	0	51	0	**51**
Northern California Area	FIRES	0	0	0	0	3	2	**5**
	ACRES	0	0	0	0	1	0	**1**
Southern California Area	FIRES	0	1	0	0	12	1	**14**
	ACRES	0	25	0	0	5	0	**30**
Northern Rockies Area	FIRES	0	0	0	0	0	0	**0**
	ACRES	0	0	0	0	0	0	**0**
Great Basin Area	FIRES	0	6	0	0	9	6	**21**
	ACRES	0	563	0	0	1	145	**709**
Southwest Area	FIRES	5	1	0	0	0	17	**23**
	ACRES	0	75	0	0	0	85	**160**
Rocky Mountain Area	FIRES	0	0	0	0	1	0	**1**
	ACRES	0	0	0	0	6	0	**6**
Eastern Area	FIRES	0	0	0	0	0	4	**4**
	ACRES	0	0	0	0	0	2	**2**
Southern Area	FIRES	0	0	0	0	24	0	**24**
	ACRES	0	0	0	0	129	0	**129**
TOTAL FIRES:		**5**	**8**	**0**	**0**	**54**	**30**	**97**
TOTAL ACRES:		**0**	**663**	**0**	**0**	**193**	**232**	**1,088**

Fires and Acres Year-to-Date (by Protection):

Area		BIA	BLM	FWS	NPS	ST/OT	USFS	TOTAL
Alaska Area	FIRES	0	171	0	0	176	13	**360**
	ACRES	0	571,516	0	0	81,348	1	**652,865**
Northwest Area	FIRES	192	243	38	26	1,471	1,322	**3,292**
	ACRES	11,934	212,762	20,988	5,359	39,124	510,564	**800,731**
Northern California Area	FIRES	84	74	6	16	2,910	940	**4,030**
	ACRES	118	39,891	71	38	303,172	354,941	**698,231**
Southern California Area	FIRES	165	76	2	46	3,727	511	**4,527**
	ACRES	641	37,886	0	12,089	216,628	128,724	**395,968**
Northern Rockies Area	FIRES	657	97	20	30	1,596	705	**3,105**
	ACRES	58,651	377,312	1,325	22,318	238,834	725,262	**1,423,702**
Great Basin Area	FIRES	36	1,037	5	39	932	475	**2,524**
	ACRES	56,329	1,261,297	2	38	448,637	214,137	**1,980,440**
Southwest Area	FIRES	744	236	19	42	718	1,059	**2,818**
	ACRES	46,671	23,474	1,027	1,389	114,116	365,342	**552,019**
Rocky Mountain Area	FIRES	730	355	9	24	1,080	415	**2,613**
	ACRES	9,880	58,816	354	2,474	562,390	13,530	**647,444**
Eastern Area	FIRES	364	0	13	15	3,670	332	**4,394**
	ACRES	2,137	0	19	130	18,283	3,407	**23,976**
Southern Area	FIRES	306	472	50	27	23,655	399	**24,909**
	ACRES	43,518	6,546	165,971	54,654	1,357,081	26,319	**1,654,089**
TOTAL FIRES:		**3,278**	**2,761**	**162**	**265**	**39,935**	**6,171**	**52,572**
TOTAL ACRES:		**229,879**	**2,589,500**	**189,757**	**98,489**	**3,379,613**	**2,342,227**	**8,829,465**

Ten Year Average Fires (2007 – 2016 as of today)	**58,700**
Ten Year Average Acres (2007 – 2016 as of today)	**6,130,319**

Prescribed Fires and Acres Yesterday (by Ownership):

Area		BIA	BLM	FWS	NPS	ST/OT	USFS	TOTAL
Alaska Area	FIRES	0	0	0	0	0	0	**0**
	ACRES	0	0	0	0	0	0	**0**
Northwest Area	FIRES	0	1	0	0	0	4	**5**
	ACRES	100	32	0	0	0	407	**539**
Northern California Area	FIRES	0	0	0	0	0	0	**0**
	ACRES	0	0	0	0	0	200	**200**
Southern California Area	FIRES	0	0	0	0	0	0	**0**
	ACRES	0	0	0	0	0	0	**0**
Northern Rockies Area	FIRES	0	0	0	0	0	0	**0**
	ACRES	8	0	0	0	0	0	**8**
Great Basin Area	FIRES	1	1	0	0	0	1	**3**
	ACRES	18	15	0	0	0	387	**420**
Southwest Area	FIRES	0	0	0	0	0	2	**2**
	ACRES	35	22	0	0	0	2,168	**2,225**
Rocky Mountain Area	FIRES	0	0	0	0	0	0	**0**
	ACRES	0	0	0	0	0	0	**0**
Eastern Area	FIRES	0	0	1	0	0	0	**1**
	ACRES	0	0	7	0	0	0	**7**
Southern Area	FIRES	0	0	0	0	34	3	**37**
	ACRES	0	0	0	0	1,049	1,636	**2,685**
TOTAL FIRES:		**1**	**2**	**1**	**0**	**34**	**10**	**48**
TOTAL ACRES:		**161**	**69**	**7**	**0**	**1,049**	**4,798**	**6,084**

Prescribed Fires and Acres Year-to-Date (by Ownership):

Area		BIA	BLM	FWS	NPS	ST/OT	USFS	TOTAL
Alaska Area	IRES	0	0	0	0	6	2	**8**
	ACRES	0	0	0	0	64,850	100	**64,950**
Northwest Area	FIRES	10	18	16	2	3	198	**247**
	ACRES	2,745	1,909	5,623	39	19	22,708	**33,043**
Northern California Area	FIRES	1	5	7	14	0	96	**123**
	ACRES	20	654	389	446	0	10,829	**12,338**
Southern California Area	FIRES	0	3	9	6	0	154	**172**
	ACRES	0	62	1,412	954	0	4,676	**7,104**
Northern Rockies Area	FIRES	6	13	42	6	32	141	**240**
	ACRES	462	3,820	18,690	752	1,372	7,645	**32,741**
Great Basin Area	FIRES	6	23	7	9	30	88	**163**
	ACRES	863	8,074	2,501	4,327	799	19,324	**35,888**
Southwest Area	FIRES	29	34	4	5	5	150	**227**
	ACRES	6,377	47,012	4,952	1,639	6,105	94,699	**160,784**
Rocky Mountain Area	FIRES	26	36	45	11	86	97	**301**
	ACRES	1,191	3,529	22,427	2,541	3,630	44,067	**77,385**
Eastern Area	FIRES	51	0	172	23	1,285	228	**1,759**
	ACRES	26,679	0	26,244	6,162	98,153	66,917	**224,155**
Southern Area	FIRES	49	0	128	28	68,330	620	**69,155**
	ACRES	6,912	0	102,565	133,644	1,549,503	536,704	**2,329,328**
TOTAL FIRES:		**178**	**132**	**430**	**104**	**69,777**	**1,774**	**72,395**
TOTAL ACRES:		**45,249**	**65,060**	**184,803**	**150,504**	**1,724,431**	**807,669**	**2,977,716**

***** Changes in some agency YTD acres reflect more accurate mapping or reporting adjustments.**
*******Additional wildfire information is available through the Geographic Areas at **http://gacc.nifc.gov/**

Predictive Services Discussion: The cold front and upper level trough will strengthen considerably as it becomes better organized as it moves east in to the Mississippi River Valley. Showers and strong storms are expected with the passage of the front. High pressure along the West coast will promote warmer weather west of the Cascade and Sierra crests while cool conditions will persist under northerly flow from the Intermountain West through the Great Plains. The East coast, however, will continue to experience normal, dry conditions as the upper level ridge of high pressure begins to weaken and move into New England.

http://www.predictiveservices.nifc.gov/outlooks/outlooks.htm

New Research on Safety Zones

Operational Engagement

[If you have computer or smart phone access, please watch the video for this subject using the link or QR code...Otherwise, read on Old School…]

First, a Fire Behavior 101 refresher: You can warm yourself around the sides of a campfire for quite some time; that's **radiant heat.** If you hold your hands over the top of the fire, you'll get burned relatively quickly; that's **convective heat.**

Basically, wind or slope can tip the flames over, so that the convective heat is no longer going straight up, but is now aimed more along the ground, sending the heat and hot gasses much further ahead. This causes pre heating of the fuels, faster fire spread and greater fire intensities. You'll need a larger Safety Zone if that fire is coming towards you.

The current equation for safety zone size in the IRPG (page 8) is:

4 x Flame Height = Safe Separation Distance

To make estimations of flame height though, you either have to use past fire behavior observations or use your experience to guess what the fire may do in the future. After a decade of research, Bret Butler, at the Missoula Technology and Development Center, suggests removing the uncertainty and guesswork that comes with estimating flame height by taking the general rule of thumb: Flame Height = 2 x Vegetation Height

…and substituting that Flame Height equation into the original IRPG equation, to give:

4 x 2 x Vegetation Height = Safe Separation Distance, which simplified is:
8 x Vegetation Height = Safe Separation Distance

But remember, that's still for **radiant heat** only, on flat ground, with no wind. To take into account the **convective heat** from slope or wind, Butler's research suggests that a "Slope Wind Factor" is needed in the equation:

8 x Vegetation Height x Slope Wind Factor = Safe Separation Distance

But what is the Slope Wind Factor? Current research is indicating that the Slope Wind Factor is between 1 and 10; with Butler arguing it may be closer to between 1 and 5. Butler's ongoing research is focused on answering that question by gathering sensor data on fires, running computer simulations, and refining the models…Stay tuned.

In the meantime, utilize the calculations on page 8 of your IRGP to help you determine a bare minimum size for your safety zone with the understanding that slope and wind need to be considered in your decision making.

But remember, a safety zone is only good if you can get there…join us tomorrow for some thoughts on Escape Routes.

Have an idea? Have feedback? Share it.

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