

**National Interagency Coordination Center**  
**Incident Management Situation Report**  
**Friday, July 22, 2016 0530 MT**  
**National Preparedness Level 2**

**National Fire Activity**

Initial attack activity:	Light (187 new fires)
New large incidents:	7
Large fires contained:	1
Uncontained large fires:**	12
Area Command Teams Committed:	0
NIMOs committed:	0
Type 1 IMTs committed:	0
Type 2 IMTs committed:	7

\*\*Uncontained large fires include only fires being managed under a full suppression strategy.

[Link](#) to Geographic Area daily reports.

**Great Basin Area (PL 3)**

New fires:	24
New large incidents:	2
Uncontained large fires:	6
Type 2 IMTs committed:	2

**Cliff Creek**, Bridger-Teton NF. IMT 2 (DeMasters). Fifteen miles east of Hoback, WY. Timber. Active fire behavior with short crown runs and spotting. Numerous residences threatened. Road, area and trail closures in effect.

**Pioneer**, Boise NF. IMT 2 (Rosenthal). Five miles north of Idaho City, ID. Timber and grass. Moderate fire behavior with group torching, short crown runs and spotting. Structures threatened. Road closure in effect.

**Little Den**, Carson City District, BLM. Forty-five miles southwest of Austin, NV. Timber, brush and grass. Active fire behavior with running, torching and spotting. Sage-grouse habitat threatened.

\* **Pinto**, Ely District, BLM. Fifteen miles southeast of Eureka, NV. Timber, brush and grass. Active fire behavior with running. Structures and sage-grouse habitat threatened.

**MM14 Highway 21**, Boise District, BLM. Started on county land three miles east of Boise, ID. Brush and short grass. Minimal fire behavior. Numerous residences threatened. Road, area and trail closures in effect.

\* **Shooting Range**, Storey County FD. Started on private land 15 miles east of Reno, NV. Closed timber litter and short grass. Active fire behavior with group torching and running .

**Choke Cherry**, Salt Lake Field Office, BLM. Ten miles southeast of Ibapah, UT. Timber and grass. Moderate fire behavior with isolated torching, creeping and smoldering. Sage-grouse habitat threatened.

Incident Name	Unit	Size		% Acres	Ctn/ Comp	Est	Personnel		Resources			Strc Lost	\$\$ CTD	Origin Own
		Acres	Chge				Total	Chge	Crw	Eng	Heli			
Cliff Creek	WY-BTF	10,118	1,852	10	Comp	7/31	619	23	16	33	8	1	2.2M	FS
Pioneer	ID-BOF	1,300	680	20	Ctn	7/25	300	6	11	2	5	0	1.5M	FS
Little Den	NV-CCD	2,700	2,200	30	Ctn	7/24	225	89	6	9	3	0	200K	BLM
* Pinto	NV-ELD	800	---	0	Ctn	7/27	113	---	2	12	1	0	50K	BLM

Incident Name	Unit	Size		% Acres	Ctn/ Comp	Est	Personnel		Resources			Strc Lost	\$\$ CTD	Origin Own
		Chge	Total				Chge	Crw	Eng	Heli				
MM14 Highway 21	ID-BOD	4,306	6	80	Ctn	UNK	235	-20	8	5	6	2	1.9M	CNTY
* Shooting Range	NV-STOX	1,275	---	70	Ctn	7/23	112	---	3	5	2	0	300K	PRI
Choke Cherry	UT-SLD	1,632	78	51	Ctn	7/30	192	0	6	7	2	0	393K	BLM

### Rocky Mountain (PL 3)

New fires: 44  
 New large incidents: 0  
 Uncontained large fires: 0  
 Type 2 IMTs Committed: 2

**Lava Mountain**, Shoshone NF. IMT 2 (Connell). Twenty miles northwest of Dubois, WY. Timber and heavy logging slash. Active fire behavior with group torching, wind-driven runs and short-range spotting. Numerous structures threatened. Evacuations, road and trail closures in effect.

**Hayden Pass**, Pike & San Isabel NF. Transfer of command from IMT 2 (Esperance) back to the local unit will occur tomorrow. Twenty miles southeast of Salida, CO. Timber, heavy logging slash and chaparral. Minimal fire behavior. Evacuations have been lifted. Road, area and trail closures in effect.

Incident Name	Unit	Size		% Acres	Ctn/ Comp	Est	Personnel		Resources			Strc Lost	\$\$ CTD	Origin Own
		Chge	Total				Chge	Crw	Eng	Heli				
Lava Mountain	WY-SHF	1,200	325	0	Comp	9/1	382	48	7	26	10	0	2.8M	FS
Hayden Pass	CO-PSF	16,489	75	55	Comp	10/1	470	-119	9	15	5	1	7.9M	FS

### Southwest Area (PL 3)

New fires: 18  
 New large incidents: 2  
 Uncontained large fires: 1  
 Type 2 IMTs committed: 1

**Fuller**, Grand Canyon NP. IMT 2 (Sinclair). Four miles northeast of North Rim, AZ. Timber and medium logging slash. Minimal fire behavior. Road, area and trail closures in effect. Precipitation occurred over the fire area yesterday.

\* **Marsh**, Las Vegas District, New Mexico State Forestry. Started on private land 10 miles east of Watrous, NM. Timber and tall grass. Active fire behavior with crowning, group torching and spotting. Residences threatened.

\* **Oak**, Fort Apache Agency, BIA. Twenty-two miles southeast of Whiteriver, AZ. Timber. Moderate fire behavior with flanking. Last report unless significant activity occurs.

Incident Name	Unit	Size		% Acres	Ctn/ Comp	Est	Personnel		Resources			Strc Lost	\$\$ CTD	Origin Own
		Chge	Total				Chge	Crw	Eng	Heli				
Fuller	AZ-GCP	14,348	217	15	Comp	11/1	502	-38	12	11	5	0	6M	NPS
* Marsh	NM-N4S	3,000	---	50	Ctn	7/24	54	---	0	12	0	0	70K	PRI
* Oak	AZ-FTA	832	---	0	Comp	7/29	40	---	1	1	1	0	80K	BIA

## Alaska Area (PL 2)

New fires:	2
New large incidents:	2
Uncontained large fires:	2
Type 2 IMTs committed:	1

**McHugh**, Mat-Su Area Forestry, DOF. IMT 2 (Kurth). Two miles southeast of Anchorage, AK. Medium logging slash. Minimal fire behavior. Numerous residences threatened. Area and trail closures in effect. Precipitation occurred over the fire area yesterday.

**Tok River**, Tok Area Forestry, DOF. Started on native corporation land seven miles south of Tok, AK. Timber, light logging slash and grass. Minimal fire behavior. Structures threatened. Precipitation occurred over the fire area yesterday.

**Steamboat Creek**, Valdez-Copper River Area Forestry, DOF. Previously reported incident. Started on NPS land 14 miles southwest of McCarthy, AK. Medium logging slash, brush and tall grass. Minimal fire behavior. Last report unless significant activity occurs.

**Yokneda Lake**, Valdez-Copper River Area Forestry, DOF. Previously reported incident. Started on native corporation land 40 miles northeast of Glennallen, AK. Timber and grass. Minimal fire behavior with flanking, smoldering and creeping. Precipitation occurred over the fire area yesterday. Last report unless significant activity occurs.

\* **Chistochina River**, Valdez-Copper River Area Forestry, DOF. Sixty miles north of Glennallen, AK. Timber. Minimal fire behavior. Precipitation occurred over the fire area yesterday. Last report unless significant activity occurs.

\* **Tiekel River #2**, Valdez-Copper River Area Forestry, DOF. Fifty-two miles south of Glennallen, AK. Timber and brush. Moderate fire behavior with isolated torching, creeping and smoldering. Last report unless significant activity occurs.

Incident Name	Unit	Size		% Acres	Ctn/ Comp	Est	Personnel		Resources			Strc Lost	\$\$ CTD	Origin Own
		Chge	Total				Chge	Crw	Eng	Heli				
McHugh	AK-MSS	842	0	7	Ctn	8/1	323	134	8	12	7	0	2.1M	ST
Tok River	AK-TAS	731	0	68	Ctn	7/23	139	3	6	0	1	0	831K	ANC
Steamboat Creek	AK-CRS	19,179	6,916	0	Comp	9/30	12	12	0	1	2	0	159K	NPS
Yokneda Lake	AK-CRS	3,245	1,245	0	Comp	9/30	0	0	0	0	0	0	14K	ANC
* Chistochina River	AK-CRS	982	---	0	Comp	10/1	0	---	0	0	0	0	18K	ST
* Tiekel River #2	AK-CRS	300	---	0	Comp	10/1	0	---	0	0	0	0	NR	ST

## Southern California Area (PL 3)

New fires:	28
New large incidents:	1
Uncontained large fires:	2
Type 2 IMTs committed:	1

\* **Roblar**, Camp Pendleton Marine Corps Base, DOD. IMT 2 (Kelly). Seven miles northwest of Fallbrook, CA. Chaparral and tall grass. Extreme fire behavior with uphill runs and spotting.

**Spring**, Sierra NF. Seventeen miles south of Mammoth Lakes, CA. Timber and brush. Minimal fire behavior. Road and trail closures in effect.

Incident Name	Unit	Size		% Acres	Ctn/ Comp	Est	Personnel		Resources			Strc Lost	\$\$ CTD	Origin Own
		Chge	Total				Chge	Total	Crw	Eng	Heli			
* Roblar	CA-MCP	500	---	4	Ctn	7/26	342	---	10	36	8	0	250K	DOD
Spring	CA-SNF	174	0	95	Ctn	7/23	62	-30	2	1	0	0	479K	FS

### Northern Rockies Area (PL 2)

New fires: 7  
 New large incidents: 0  
 Uncontained large fires: 0

Incident Name	Unit	Size		% Acres	Ctn/ Comp	Est	Personnel		Resources			Strc Lost	\$\$ CTD	Origin Own
		Chge	Total				Chge	Total	Crw	Eng	Heli			
ODell	MT-MCD	370	0	100	Ctn	---	44	-1	1	5	0	0	95K	BLM

MCD Miles City Field Office, BLM

### Southern Area (PL 2)

New fires: 22  
 New large incidents: 0  
 Uncontained large fires: 1

**Taylor**, National Forests in Florida. Nine miles northeast of Sanderson, FL. Southern rough. No new information.

Incident Name	Unit	Size		% Acres	Ctn/ Comp	Est	Personnel		Resources			Strc Lost	\$\$ CTD	Origin Own
		Chge	Total				Chge	Total	Crw	Eng	Heli			
Taylor	FL-FNF	880	0	80	Ctn	7/22	15	0	0	2	1	0	211K	FS

Active Incident Resource Summary						
GACC	Fires	Cumulative Acres	Crews	Engines	Helicopters	Total Personnel
AICC	11	58,409	21	16	12	681
NWCC	1	1,800	0	1	0	3
ONCC	1	5,646	1	2	0	52
OSCC	4	3,319	13	39	10	453
NRCC	6	5,861	4	12	1	163
GBCC	14	27,850	56	86	29	1,958
SWCC	18	46,014	18	38	7	778
RMCC	14	63,627	28	70	22	1,395
EACC	0	0	0	0	0	0
SACC	10	7,482	3	25	3	194
<b>Total</b>	<b>79</b>	<b>220,008</b>	<b>144</b>	<b>289</b>	<b>84</b>	<b>5,677</b>

### Fires and Acres Yesterday (by Protection):

Area		BIA	BLM	FWS	NPS	ST/OT	USFS	TOTAL
Alaska Area	FIREs	0	1	0	0	1	0	2
	ACRES	0	20	0	0	0	0	20
Northwest Area	FIREs	1	0	0	0	7	2	10
	ACRES	2	0	0	0	7	0	9
Northern California Area	FIREs	1	0	0	0	26	5	32
	ACRES	1	0	0	0	103	9	113
Southern California Area	FIREs	4	0	0	2	17	5	28
	ACRES	1	0	0	0	7	26	34
Northern Rockies Area	FIREs	1	0	0	0	2	4	7
	ACRES	1	0	0	0	1	151	153
Great Basin Area	FIREs	0	11	0	0	9	4	24
	ACRES	0	3,041	0	0	1,330	1,001	5,372
Southwest Area	FIREs	2	1	1	0	4	10	18
	ACRES	500	0	5	0	3,011	52	3,568
Rocky Mountain Area	FIREs	3	16	0	1	14	10	44
	ACRES	1	0	0	10	7	725	743
Eastern Area	FIREs	0	0	0	0	0	0	0
	ACRES	0	0	0	0	0	0	0
Southern Area	FIREs	0	0	0	0	22	0	22
	ACRES	0	0	0	0	459	0	459
<b>TOTAL FIRES:</b>		<b>12</b>	<b>29</b>	<b>1</b>	<b>3</b>	<b>102</b>	<b>40</b>	<b>187</b>
<b>TOTAL ACRES:</b>		<b>506</b>	<b>3,061</b>	<b>5</b>	<b>10</b>	<b>4,925</b>	<b>1,964</b>	<b>10,471</b>

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

Area		BIA	BLM	FWS	NPS	ST/OT	USFS	TOTAL
Alaska Area	FIREs	0	175	0	0	324	10	509
	ACRES	0	348,643	0	0	98,454	3	447,100
Northwest Area	FIREs	170	76	20	8	564	264	1,102
	ACRES	2,764	38,684	147	0	4,055	906	46,556
Northern California Area	FIREs	68	5	0	20	1,368	198	1,659
	ACRES	124	11	0	3	20,903	8,634	29,675
Southern California Area	FIREs	11	50	4	22	1,842	213	2,142
	ACRES	8	26,016	269	25	19,344	47,674	93,336
Northern Rockies Area	FIREs	484	49	8	6	663	159	1,369
	ACRES	3,332	2,185	1,402	3	12,195	3,111	22,228
Great Basin Area	FIREs	12	338	5	23	343	200	921
	ACRES	16	128,008	3	23	39,958	8,484	176,492
Southwest Area	FIREs	524	174	8	38	718	642	2,104
	ACRES	14,918	65,473	5,256	31,721	99,014	218,994	435,376
Rocky Mountain Area	FIREs	476	208	10	13	654	257	1,618
	ACRES	1,639	14,721	480	1,435	460,310	43,208	521,793
Eastern Area	FIREs	490	0	25	19	4,949	343	5,826
	ACRES	1,906	0	1,087	910	29,992	7,111	41,006
Southern Area	FIREs	325	0	18	54	12,919	398	13,714
	ACRES	132,673	0	128	27,567	856,933	35,817	1,053,118
<b>TOTAL FIRES:</b>		<b>2,560</b>	<b>1,075</b>	<b>98</b>	<b>203</b>	<b>24,344</b>	<b>2,684</b>	<b>30,964</b>
<b>TOTAL ACRES:</b>		<b>157,380</b>	<b>623,741</b>	<b>8,772</b>	<b>61,687</b>	<b>1,641,158</b>	<b>373,942</b>	<b>2,866,680</b>

<b>Ten Year Average Fires (2006 – 2015 as of today)</b>	<b>42,761</b>
<b>Ten Year Average Acres (2006 – 2015 as of today)</b>	<b>3,566,387</b>

**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	0	0	0	0	0	0
	ACRES	0	0	0	0	0	0	0
Northern California Area	FIREs	0	0	0	0	0	0	0
	ACRES	0	0	0	0	0	0	0
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	0	0	0	0	0	0	0
Great Basin Area	FIREs	0	0	0	0	0	0	0
	ACRES	0	0	0	0	0	0	0
Southwest Area	FIREs	0	0	0	0	0	0	0
	ACRES	0	0	0	0	0	0	0
Rocky Mountain Area	FIREs	0	0	0	0	0	0	0
	ACRES	0	0	0	0	0	0	0
Eastern Area	FIREs	0	0	0	0	0	0	0
	ACRES	0	0	0	0	0	0	0
Southern Area	FIREs	0	0	0	0	19	0	19
	ACRES	0	0	0	0	378	0	378
<b>TOTAL FIRES:</b>		0	0	0	0	<b>19</b>	0	<b>19</b>
<b>TOTAL ACRES:</b>		0	0	0	0	<b>378</b>	0	<b>378</b>

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

Area		BIA	BLM	FWS	NPS	ST/OT	USFS	TOTAL
Alaska Area	FIREs	0	7	0	0	2	1	<b>10</b>
	ACRES	0	31,664	0	0	1,566	38	<b>33,268</b>
Northwest Area	FIREs	8	21	6	0	0	149	<b>184</b>
	ACRES	4,752	1,990	356	0	0	23,858	<b>30,956</b>
Northern California Area	FIREs	4	1	9	8	0	125	<b>147</b>
	ACRES	41	90	3,356	328	0	8,244	<b>12,059</b>
Southern California Area	FIREs	0	5	4	1	0	136	<b>146</b>
	ACRES	0	71	422	760	0	3,587	<b>4,840</b>
Northern Rockies Area	FIREs	12	12	53	11	14	149	<b>251</b>
	ACRES	5,316	4,358	12,318	651	698	14,894	<b>38,235</b>
Great Basin Area	FIREs	4	23	6	5	36	73	<b>147</b>
	ACRES	110	2,296	3,584	128	915	25,780	<b>32,813</b>
Southwest Area	FIREs	8	30	3	8	1	103	<b>153</b>
	ACRES	894	22,071	92	2,331	2	62,524	<b>87,914</b>
Rocky Mountain Area	FIREs	15	33	57	24	76	69	<b>274</b>
	ACRES	1,266	2,908	26,221	10,952	4,482	27,771	<b>73,600</b>
Eastern Area	FIREs	46	0	347	23	891	180	<b>1,487</b>
	ACRES	45,655	0	50,823	5,774	61,229	56,090	<b>219,571</b>
Southern Area	FIREs	16	0	178	65	9,886	907	<b>11,052</b>
	ACRES	1,615	0	158,888	51,546	664,538	829,043	<b>1,705,630</b>
<b>TOTAL FIRES:</b>		<b>113</b>	<b>132</b>	<b>663</b>	<b>145</b>	<b>10,906</b>	<b>1,892</b>	<b>13,851</b>
<b>TOTAL ACRES:</b>		<b>59,649</b>	<b>65,448</b>	<b>256,060</b>	<b>72,470</b>	<b>733,430</b>	<b>1,051,829</b>	<b>2,238,886</b>

\*\*\* 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/>

### Canada Fires and Hectares

PROVINCES	FIRES YESTERDAY	HECTARES YESTERDAY	FIRES YEAR-TO-DATE	HECTARES YEAR-TO-DATE
BRITISH COLUMBIA	0	0	543	93,613
YUKON TERRITORY	0	0	43	16,366
ALBERTA	2	4	1,050	610,515
NORTHWEST TERRITORY	0	21	160	145,188
SASKATCHEWAN	4	78	327	154,078
MANITOBA	1	4	170	33,799
ONTARIO	6	1	400	86,391
QUEBEC	3	1,143	450	25,907
NEWFOUNDLAND	1	4	71	10,958
NEW BRUNSWICK	0	0	236	236
NOVA SCOTIA	1	1	205	336
PRINCE EDWARD ISLAND	0	0	6	19
NATIONAL PARKS	0	1	41	5,540
<b>TOTALS</b>	<b>18</b>	<b>1,256</b>	<b>3,702</b>	<b>1,182,946</b>

\* 1 Hectare = 2.47 Acres

**Predictive Services Discussion:** High pressure will continue to dominate the pattern across most of the U.S. A broad trough will move through the northern Rockies bringing scattered showers and a few thunderstorms along the Canadian border from Washington to the Dakotas. Scattered thunderstorms will develop over the Four Corners region. In the East, scattered showers and thunderstorms will form in the Northeast and across the Gulf states. Conditions will remain very hot across most of the eastern and central states with warm weather over New England. The desert Southwest will remain very hot while the Northwest and the northern Rockies receive slightly cooler conditions. In Alaska, scattered showers and a few thunderstorms will develop across most of the state. Temperatures will continue to be mild.

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



This Day in History is a brief summary of a powerful learning opportunity and is not intended to second guess or be judgmental of decisions and actions. Put yourself in the following situation as if you do not know what the outcome will be. What are the conditions? What are you thinking? What are YOU doing?

## Cramer Fire - Idaho – July 22<sup>nd</sup> 2003

*"May the lessons of the Cramer Fire not be lost on an Idaho ridge"*

**Incident Summary:** Central Idaho including the Salmon-Challis Nat'l Forest had been in a period of drought for the last 4 years. Spring and summer rainfall had lagged. 1630 July 20<sup>th</sup> a fire is reported in the area of Cramer Creek. Jumpers are dispatched and size up the Cramer Fire at 3 acres with high spread potential. High winds keep them from engaging the fire. Firefighters are flown in to a helispot (H1) on a ridge between Cramer and Cache Bar drainages, and due to fire behavior, do not engage the fire. The fire burns actively until 0230. By morning the fire is over 35 acres.

In addition to other air and ground resources, the Indianola helicopter H193 and Helitack crew report to the fire at 1515 on the 21<sup>st</sup>. By 1952 the fire is 200 acres. At 2000 fire intensity is reported to be low yet due to a thermal belt, the fire burns actively until 0300. Around 0930 the morning of the 22<sup>nd</sup>, H193 rappels two Helitack into a new helispot (H2) up the ridge from H1. Air attack reports fire perimeter is now over the ridge and in the Cache Bar drainage. The fire is now on both sides of the ridge that the helispots are on. Fire is active below H1. The Helitack are falling large trees on H2 to clear room for medium helicopters that had been ordered for a crew shuttle. H193 transitions to bucket work on H1 at 1127 and minutes later the firefighters on H1 pull back and retreat down the trail toward the river. 20 minutes later H1 is burned over. Fire activity is reported as "intense".

By 1430 the fire in the Cache Bar drainage is an active fire front. At 1447 plans were made to remove the Helitack from H2. At 1500 the fire on both sides of the ridge begins to spread rapidly... Both helicopters assigned to the fire are at the helibase 15 minutes away for refueling and maintenance when the Helitack call for an immediate pick up. At 1505 they call again for immediate pickup. At 1509 they call for immediate pickup and report that they are fine just taking a lot of smoke. At 1513 the Helitack report fire and smoke below them and request immediate pickup. At 1519 Helitack contact helibase regarding status of helicopter. Arriving at the fire, the helicopter is unable to land due to smoke. Both rappellers leave H2 at 1520. At 1524 the Cache Bar drainage is fully involved in fire. The rappellers make final call for immediate pickup... Both firefighters die soon after.

**History** - The Salmon River Breaks area of the Salmon-Challis Nat'l Forest has a long history of entrapping firefighters; 161 to date. Steep slopes predispose areas to rollout and rapid, uphill fire growth commonly lending to extreme fire behavior and difficult suppression.

- *How can information about an area's fire history help your situational awareness?*

**Size up** – Crews are informed at the July 22 morning briefing that conditions will be getting progressively warmer and drier than previous days. Temperatures surpass 100°F and set record highs. RH's are 10-15%. Fuels in the Cache Bar drainage are short grass on the south aspects and nearly continuous fields of ceanothus on the north. Live fuel moistures are critically low and the Burn Index (BI) and Energy Release Component (ERC) indicate dangerous conditions.

- *Based on the predicted weather and the fire information above, what are your concerns?*
- *How could you and your crew safely engage a fire in a similar situation?*

**L** – The investigation report states that there were no effective lookouts for the rappellers at H2.

- *It is not uncommon to assign small squads to isolated tasks such as cutting helispots. The rappellers on H2 were clearing large trees to make a larger helispot. How would you and your crew maintain situational awareness of the fire and the felling operation at the same time?*

**C** – The rappellers were made aware of the low intensity fire in the Cache Bar drainage as soon as they were dropped off but the development of an active fire front in the Cache Bar drainage was observed by the lead plane and air attack 50 minutes before the fire reached H2. It was never communicated to them.

- *What will you and your crew do during any fire assignment to get accurate information about current fire behavior?*

**E and S** – There were no effective safety zones for the rappellers at H2 and once H1 below them burned over, the only way out was a helicopter.

- *Helicopters have become a common resource on fires transporting us to and from remote fireline, delivering our food, water, supplies, and medevac. But what would you do if the helicopter couldn't come? Discuss why depending on helicopters as an escape route is a bad idea?*

**Incident Complexities** - On any incident, we may or may not be aware of problems with incident management effectiveness, adequacy of resources, or other big-picture details.

- *Discuss how you and your crew will maintain safety without knowing these things.*

[Cramer Fire Accident/Investigation](#), [Cramer Fire Case Study video](#)

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