National Interagency Coordination Center Incident Management Situation Report Thursday, September 19, 2019 – 0530 MT National Preparedness Level 2

National Fire Activity

Initial attack activity:	Light (128 new fires)
New large incidents:	2
Large fires contained:	5
Uncontained large fires:***	12
Area Command teams committed:	0
NIMOs committed:	1
Type 1 IMTs committed:	1
Type 2 IMTs committed:	4

Nationally, there are 42 large fires being managed under a strategy other than full suppression. *** Uncontained large fires include only fires being managed under a full suppression strategy.

Link to Geographic Area daily reports.

Link to Understanding the IMSR.

	Ac	tive Incide	ent Res	ource S	Summary	
GACC	Incidents	Cumulative Acres	Crews	Engines	Helicopters	Total Personnel
AICC	3	179,865	6	12	4	327
NWCC	2	24,505	3	5	3	149
ONCC	9	78,557	49	101	14	2,679
OSCC	6	13,587	18	34	7	740
NRCC	2	376	0	4	0	17
GBCC	8	25,721	9	17	7	315
SWCC	7	55,998	4	12	2	233
RMCC	5	5,079	7	13	2	270
EACC	0	0	0	0	0	0
SACC	12	6,296	5	25	1	156
Total	54	389,984	101	223	40	4,886

Northern California Area (PL 2)

New fires:	9
New large incidents:	0
Uncontained large fires:	4
Type 1 IMTs committed	1
Type 2 IMTs committed:	2

Walker, Plumas NF, USFS. IMT 1 (CA Team 4). IMT 2 (CA Team 10) mobilizing. Eleven miles east of Taylorsville, CA. Timber and medium logging slash. Minimal fire behavior with creeping, smoldering and backing. Road and area closures in effect. Precipitation occurred over the fire area yesterday.

South, Shasta-Trinity NF, USFS. IMT 2 (CA Team 16). Fifteen miles south of Platina, CA. Timber, chaparral and hardwood litter. Minimal fire behavior with smoldering and creeping. Residences threatened. Area, road and trail closures in effect. Precipitation occurred over the fire area yesterday.

Middle, Shasta-Trinity NF, USFS. Eleven miles northeast of Junction City, CA. Timber and brush. Minimal fire behavior with smoldering. Area, road and trail closures in effect. Precipitation occurred over the fire area yesterday.

Kidder 2, Klamath NF, USFS. Ten miles northwest of Etna, CA. Timber and brush. Minimal fire behavior. Precipitation occurred over the fire area yesterday.

Incident Name	Unit	Size		%	Ctn/	Est	Personnel		Resources			Strc	\$\$	Origin
		Acres	Chge	/0	Comp	ESI	Total	Chge	Crw	Eng	Heli	Lost	CTD	Own
Walker	CA-PNF	54,612	94	97	Ctn	9/28	1,073	-456	20	40	5	9	30.7M	FS
South	CA-SHF	5,203	13	53	Comp	10/1	391	-50	5	8	4	2	7.1M	FS
Middle	CA-SHF	1,328	0	15	Ctn	10/31	189	38	4	3	2	0	300K	FS
Kidder 2	CA-KNF	227	0	39	Ctn	10/18	41	0	1	0	0	0	810K	FS
Lime	CA-KNF	1,872		99	Ctn	10/9	215		2	5	0	0	7.9M	FS

Lime, Klamath NF, USFS. Ten miles north of Yreka, CA. Timber and brush. No new information.

Southern California Area (PL 3)

New fires:	21
New large incidents:	0
Uncontained large fires:	1
NIMOs committed:	1
Type 2 IMTs committed	1

Taboose, Inyo NF, USFS. NIMO (Boise) and IMT 2 (CA Team 11). Ten miles southwest of Big Pine, CA. Timber, brush and short grass. Minimal fire behavior with smoldering and creeping. Numerous residences threatened. Trail closures in effect.

Incident Name	Unit -	Size		% Ctn/	Ctn/	Ctn/ Est	Personnel		Resources			Strc	\$\$	Origin
		Acres	Chge	/0	Comp	LSI	Total	Chge	Crw	Eng	Heli	Lost	CTD	Own
Taboose	CA-INF	10,121	15	63	Ctn	9/30	400	-175	5	18	6	0	8.6M	FS
Larg	Large Fires Being Managed With a Strategy Other Than Full Suppression Without a Type 1 or 2 IMT Assigned													
Springs	CA-INF	4,840		98	Comp	10/1	149		2	4	0	0	6.2M	FS
Cow	CA-INF	2,025		70	Comp	10/11	27		0	1	1	0	1.9M	FS

Northwest Area (PL 1)	
New fires:	1
New large incidents:	0
Uncontained large fires:	2

Gopher, Rogue River-Siskiyou NF, USFS. Eleven miles east of Prospect, OR. Timber, brush and medium logging slash. Minimal fire behavior with smoldering. Area, road and trail closures in effect. Precipitation occurred over the fire area yesterday.

Poker, Sheldon-Hart Mountain NWR, FWS. Nineteen miles northeast of Plush, OR. Brush and tall grass. Minimal fire behavior with smoldering. Sage-grouse habitat threatened. Road closures in effect. Precipitation occurred over the fire area yesterday.

Incident Name Un	Unit	Siz	ze	%	Ctn/	Ctn/ Comp Est	Personnel		Resources			Strc	\$\$	Origin
	Onit	Acres	Chge	/0	Comp		Total	Chge	Crw	Eng	Heli	Lost	CTD	Own
Gopher	OR-RSF	354	0	50	Ctn	9/30	115	-2	3	0	2	0	4M	FS
Poker	OR-SHR	23,400	0	98	Ctn	9/23	34	-69	0	5	1	0	540K	FWS
Larg	Large Fires Being Managed With a Strategy Other Than Full Suppression Without a Type 1 or 2 IMT Assigned													
204 Cow	OR-MAF	9,668		73	Comp	10/15	70		2	2	0	0	10.7M	FS
Granite Gulch	OR-WWF	5,500		0	Comp	10/31	9		0	0	1	0	500K	FS
Devore Creek	WA-OWF	630		0	Comp	11/30	3		0	0	0	0	1.1M	FS
South Fork Creek	WA-OWF	199		60	Comp	11/15	0		0	0	0	0	30K	FS

MAF – Malheur NF, USFS WWF – Wallowa-Whitman NF, USFS OWF – Okanogan-Wenatchee NF, USFS

Alaska Area (PL 2)

New fires:	1
New large incidents:	0
Uncontained large fires:	1
Type 2 IMTs committed:	1

Swan Lake, Kenai Kodiak Area, Alaska DOF. IMT 2 (NR Team 4). Started on FWS land five miles northeast of Sterling, AK. Timber, brush and short grass. Minimal fire behavior with creeping and smoldering. Numerous structures threatened. Area, road and trail closures in effect.

Incident Name	Unit	Siz	Size		Ctn/	Ctn/ Est	Personnel		Resources			Strc	\$\$	Origin
	Onit	Acres	Chge	%	Comp	L3(Total	Chge	Crw	Eng	Heli	Lost	CTD	Own
Swan Lake	AK-KKS	167,164	0	57	Comp	10/1	265	11	4	9	3	0	46.1M	FWS
Large Fires Being Managed With a Strategy Other Than Full Suppression Without a Type 1 or 2 IMT Assigned														
Tokaina 2	AK-CRS	9,412	0	0	Comp	9/30	5	0	0	0	1	0	1M	ST
Pete Andrews Creek	AK-SWS	5,859		70	Comp	UNK	7		0	0	0	0	983K	PRI
Lower Klutuk	AK-SWS	4,699		0	Comp	10/14	0		0	0	0	0	2K	BLM

CRS – Valdez-Copper River Area, Alaska DOF SWS – Southwest Area, Alaska DOF

Rocky Mountain Area (PL 2)

New fires:	6
New large incidents:	0
Uncontained large fires:	1

Brush Creek, Albany County. Thirty miles southwest of Douglas, WY. Timber, brush and short grass. Minimal fire behavior with smoldering. Structures threatened.

Incident Name	Unit	Si	ze	%	Ctn/ Comp	Est	Pers	onnel	Re	esource	s	Strc	\$\$ CTD	Origin
incident Name	Offic	Acres	Chge			Lot	Total	Chge	Crw	Eng	Heli	Lost		Own
Brush Creek	WY-ALX	470	0	45	Ctn	9/20	123	-4	3	9	1	0	740K	CNTY
McNey	CO-LRX	560	0	100	Ctn		47	-66	1	0	0	0	350K	CNTY
Sand Spring	CO-MFX	303	0	100	Ctn		3	-3	0	1	0	0	145K	CNTY
Larg	e Fires Bein	g Manage	d With a S	Strategy	/ Other T	han Full	Suppress	ion Witho	ut a Ty	pe 1 or	2 IMT	Assig	ned	
Decker	CO-RGF	846	0	0	Comp	12/20	84	12	3	0	1	0	350K	FS
Hunt	CO-WRD	2,900		40	Comp	9/30	13		0	3	0	0	550K	BLM
Middle Mamm	CO-WRF	275		2	Comp	10/31	7		1	0	0	0	493K	FS
Fishhawk	WY-SHF	11,177		0	Comp	10/31	1		0	0	0	0	1.9M	FS

LRX – Larimer County MFX – Moffat County RGF – Rio Grande NF, USFS WRD – White River Field Office, BLM WRF – White River NF, USFS SHF – Shoshone NF, USFS

Great Basin Area (PL 2)

New fires:	12
New large incidents:	0
Uncontained large fires:	1

Francis, Uinta-Wasatch-Cache NF, USFS. One mile northeast of Fruit Heights, UT. Brush and tall grass. Minimal fire behavior with smoldering and creeping. Structures threatened. Trail closures in effect.

Incident Name	Unit	Size		%	Ctn/	Est	Perso	onnel	Re	esource	es	Strc	\$\$	Origin
Incluent Name	Onit	Acres	Chge	/0	Comp	251	Total	Chge	Crw	Eng	Heli	Lost	CTD	Own
Francis	UT-UWF	365	0	68	Ctn	9/19	188	1	8	3	4	0	660K	FS
Kelly	NV-HUMX	1,493	0	100	Ctn		0	-18	0	0	0	0	80K	CNTY
Large Fires Being Managed With a Strategy Other Than Full Suppression Without a Type 1 or 2 IMT Assigned														
Tincup	ID-CTF	263		0	Comp	9/30	6		0	1	0	0	90K	FS
Boone	ID-CTF	117		1	Comp	9/30	2		0	0	0	0	12K	FS
Shady	ID-SCF	6,286		8	Comp	10/31	1		0	0	0	0	602K	FS
Cove Creek	ID-SCF	5,304		85	Comp	9/30	1		0	0	0	0	5.2M	FS
Smith Knob	ID-PAF	915		0	Comp	10/1	0		0	0	0	0	310K	FS
Trumbull	AZ-ASD	2,925		0	Comp	9/26	0		0	0	0	0	550K	BLM

HUMX – Humboldt County CTF – Caribou-Targhee NF, USFS SCF – Salmon-Challis NF, USFS PAF – Payette NF, USFS ASD – Arizona Strip Field Office, BLM

Southwest Area (PL 2)

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

Incident Name	Unit	Siz	ze	%	Ctn/	Est	Perso	onnel	R	esourc	es	Strc	\$\$	Origin
incident Name	Onit	Acres	Chge	[%] Comp	Comp	Total	Chge	Crw	Eng	Heli	Lost CTD	Own		
Large Fires Being Managed With a Strategy Other Than Full Suppression Without a Type 1 or 2 IMT Assigned														
Whiskey	AZ-COF	4,190	290	20	Comp	10/16	68	-32	1	4	1	0	681K	FS

Telephone	AZ-ASF	2,361	 50	Comp	UNK	5	 0	1	0	0	115K	FS
Sheridan	AZ-PNF	21,510	 60	Comp	9/30	50	 1	3	0	0	4.2M	FS
Lava 18	NM-EMP	2,070	 20	Comp	9/30	44	 2	2	0	0	370K	NPS
Apache	NM-GNF	170	 0	Comp	10/31	26	 0	1	0	0	60K	FS
Middle	NM-LNF	785	 50	Comp	11/15	26	 1	1	0	0	20K	FS
lkes	AZ-GCP	7,650	 98	Comp	UNK	13	 0	0	0	0	2.6M	NPS
Rocky	AZ-ASF	3,702	 55	Comp	9/30	9	 0	1	0	0	185K	FS

COF – Coconino NF, USFS ASF – Apache-Sitgreaves NF, USFS PNF – Prescott NF, USFS EMP – El Malpais National Monument, NPS GNF – Gila NF, USFS LNF – Lincoln NF, USFS GCP – Grand Canyon NP, NPS

Southern Area (PL 2)

New fires:	76
New large incidents:	2
Uncontained large fires:	3

* Kings Chapel Rd, Alabama Private Lands. Started on private land five miles northwest of Alpine, AL. Short grass. Moderate fire behavior.

Powers Ranch, Texas A&M Forest Service. Started on private land 55 miles south of San Angelo, TX. Brush and tall grass. Minimal fire behavior.

Jack Creek, Oklahoma DOF. Twenty miles northeast of Antlers, OK. Timber. Minimal fire behavior with smoldering.

Incident Name	Unit	Size		% Ctn/		Ctn/ Est	Perso	Personnel		Resources				Origin
Incluent Name	Onit	Acres	Chge	/0	Comp	L31	Total	Chge	Crw	Eng	Heli	Lost	CTD	Own
* Kings Chapel Rd	AL-PRI	500		50	Ctn	UNK	0		0	0	0	0	2K	PRI
Powers Ranch	TX-TXS	1,356	0	95	Ctn	9/19	30	0	0	7	0	0	1K	PRI
Jack Creek	OK-OKS	574	69	80	Ctn	9/19	11	0	0	5	0	1	6K	ST
* Mare Creek	KY-KYS	127		100	Ctn		8		1	1	0	0	2K	PRI
Large Fires Being Managed With a Strategy Other Than Full Suppression Without a Type 1 or 2 IMT Assigned														
Clark Branch #2	KY-KYS	654	54	90	Comp	9/19	31	20	4	2	0	0	12K	PRI

KYS – Kentucky DOF

Northern Rockies (PL 1)

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

Incident Name	Unit	Siz	Size		% Ctn/ Est		Personnel		Resources			Strc	\$\$	Origin	
incluent Name	Onit	Acres	Chge	70	Comp	L31	Total	Chge	Crw	Eng	Heli	Lost	CTD	Own	
Crooked Creek	MT-LG03	316	0	100	Ctn		0	-39	0	0	0	0	100K	CNTY	
Large Fires Being Managed With a Strategy Other Than Full Suppression Without a Type 1 or 2 IMT Assigned															
Horsefly	MT-HLF	1,352		75	Comp	9/30	34		1	0	0	0	6.6M	FS	
Beeskove	MT-LNF	430		75	Comp	9/30	15		0	0	0	0	7M	FS	
McClusky	MT-BDF	2,932		60	Comp	11/1	7		0	1	0	0	1.5M	FS	

Incident Name	Unit	Siz	ze	%	Ctn/	Est	Perso	onnel	Re	esource	es	Strc	\$\$	Origin
Incluent Name	Onit	Acres	Chge	/0	Comp	ESI	Total	Chge	Crw	Eng	Heli	Lost	CTD	Own
Snow Creek	MT-FNF	1,815		5	Comp	10/31	3		0	0	0	0	80K	FS
Miller Gulch	MT-LNF	297		50	Comp	11/1	2		0	0	0	0	361K	FS
Balsam	MT-BRF	130		0	Comp	10/31	2		0	0	0	0	12K	FS
Shale Creek	ID-NCF	600		0	Comp	11/1	1		0	0	0	0	75K	FS
Hungry Creek	ID-NCF	207		0	Comp	9/30	1		0	0	0	0	8K	FS
Snow Peak	ID-IPF	110		0	Comp	10/31	0		0	0	0	0	65K	FS
Barren Hill	ID-NCF	1,300		0	Comp	10/31	0		0	0	0	0	20K	FS
Elbow Bend	ID-NCF	129		0	Comp	10/31	0		0	0	0	0	10K	FS
Crab	ID-NCF	214		40	Comp	10/31	0		0	0	0	0	2.6M	FS

LG03 – Yellowstone County HLF – Helena-Lewis and Clark NF, USFS LNF – Lolo NF, USFS BDF – Beaverhead-Deerlodge NF, USFS FNF – Flathead NF, USFS BRF – Bitterroot NF, USFS NCF – Nez Perce-Clearwater NF, USFS IPF – Idaho Panhandle NF, USFS

Fires and Acres Yesterday (by Protection):

Area		BIA	BLM	FWS	NPS	ST/OT	USFS	TOTAL
Alaska Area	FIRES	0	0	0	0	1	0	1
Alaska Alea	ACRES	0	0	0	0	0	0	0
Northwest Area	FIRES	0	0	0	0	1	0	1
Nontriwest Area	ACRES	0	0	0	0	1	0	1
Northern California Area	FIRES	0	0	0	0	7	2	9
Northern California Alea	ACRES	0	0	0	0	0	133	133
Southern California Area	FIRES	0	3	0	0	15	3	21
Southern California Area	ACRES	0	5	0	0	10	81	96
Northern Rockies Area	FIRES	1	0	0	0	0	0	1
Northern Rockies Area	ACRES	0	0	0	0	0	0	0
Great Basin Area	FIRES	1	2	0	1	6	2	12
Great basin Area	ACRES	0	5	0	0	14	0	19
Southwest Area	FIRES	0	0	0	0	0	1	1
Southwest Area	ACRES	0	0	0	0	0	0	0
Decky Mountain Area	FIRES	0	2	0	0	2	2	6
Rocky Mountain Area	ACRES	0	0	0	0	34	25	59
Factors Area	FIRES	0	0	0	0	0	0	0
Eastern Area	ACRES	0	0	0	0	0	0	0
Southorn Aroo	FIRES	0	0	0	0	76	0	76
Southern Area	ACRES	0	0	0	0	486	0	486
TOTAL FIRES:		2	7	0	1	108	10	128
TOTAL ACRES:		0	10	0	0	545	239	794

Fires a	nd Acres	Year-to-Date	(by Protection):
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Area		BIA	BLM	FWS	NPS	ST/OT	USFS	TOTAL
Alaska Area	FIRES	0	242	0	0	416	44	702
	ACRES	0	1,692,548	0	0	887,501	13	2,580,062
Northwest Area	FIRES	236	189	15	29	1,588	983	3,040
	ACRES	49,858	29,192	23,489	4	20,796	21,779	145,120
Northern California Area	FIRES	51	45	4	7	2,280	454	2,841
	ACRES	28	5,599	25	1	31,904	85,479	123,036
Southern California Area	FIRES	18	75	10	18	2,986	300	3,407
	ACRES	140	419	2,727	106	17,611	22,479	43,482
Northern Rockies Area	FIRES	740	48	22	15	785	456	2,066
	ACRES	11,567	969	10,026	116	37,653	11,254	71,585
Great Basin Area	FIRES	37	706	8	29	791	435	2,006
	ACRES	145	260,994	2	126	149,225	35,201	445,694
Southwest Area	FIRES	600	200	11	50	584	807	2,252
	ACRES	51,620	6,754	55	9,278	28,807	324,689	421,203
Rocky Mountain Area	FIRES	247	307	1	10	526	299	1,390
	ACRES	1,943	21,370	5,048	29	29,637	20,779	78,807
Eastern Area	FIRES	301	0	15	31	3,668	295	4,310
	ACRES	569	0	427	520	27,282	5,134	33,932
Southern Area	FIRES	255	0	34	44	15,114	254	15,701
	ACRES	22,692	0	2,498	2,303	353,591	19,096	400,180
TOTAL FIRES:		2,485	1,812	120	233	28,738	4,327	37,715
TOTAL ACRES:		138,563	2,017,845	44,297	12,483	1,584,009	545,906	4,343,105

Ten Year Average Fires (2009 – 2018 as of today)	48,740
Ten Year Average Acres (2009 – 2018 as of today)	6,074,366

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

Canadian Fires and Hectares

PROVINCES	FIRES LAST WEEK	HECTARES LAST WEEK	FIRES YEAR-TO-DATE	HECTARES YEAR-TO-DATE
BRITISH COLUMBIA	7	0	986	21,032
YUKON TERRITORY	2	8,628	116	279,169
ALBERTA	7	22	981	883,407
NORTHWEST TERRITORY	0	0	145	105,167
SASKATCHEWAN	1	0	234	47,930
MANITOBA	0	0	277	101,140
ONTARIO	2	273	535	270,030
QUEBEC	3	0	339	10,225
NEWFOUNDLAND	2	0	93	320
NEW BRUNSWICK	1	0	178	224
NOVA SCOTIA	0	0	135	154
PRINCE EDWARD ISLAND	0	0	2	9
NATIONAL PARKS	1	0	75	117,826
TOTALS	26	8,923	4,096	1,836,633
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*1 Hectare = 2.47 Acres

Predictive Services Discussion: The cool upper level trough will continue to slowly move east across the Great Basin and the Northern Rockies producing cool and wet conditions. Snow levels will be slightly lower than typical with elevations above 7,000 feet seeing accumulations along the Continental Divide. Temperatures West-wide will be about 10-15 degrees below average except along the coast where a ridge off shore will produce a slight warming trend. Hot and dry conditions will continue across the Southeast as high pressure extends north from the Gulf Coast into New England. A tropical wave will continue to slowly move north across eastern Texas and should continue to produce much needed rainfall.

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

Effects of Smoke Exposure



Firefighter Health First-Aid

First and foremost, exposure to wildfire smoke may limit your ability to work efficiently and effectively. Wildfire smoke is a complex mix of chemicals and particles, which varies depending on the fuels, soil, weather, fire intensity, and

the burning phase of the fire. Some of the chemicals and particles that are present in wildfire smoke can pose a health risk. These health risks increase with higher exposures or longer duration of exposures. Whether on prescribed fires or wildfires, your exposure to wildfire smoke could cause irritating respiratory symptoms and, over time, could possibly increase your risk of developing long-term illnesses. However, further research is needed to better understand the long-term health risks.

While the makeup of smoke varies, here are just a few of the things in smoke that could impact your health:

- Carbon Monoxide (CO) Exposure to CO from wildfire smoke, or from other sources such as exhaust (from chainsaws, engines, or pumps) may lead to a variety of symptoms: impaired vision and judgement, headaches, fatigue, and with high levels of exposure, asphyxiation, which in extreme situations can even lead to death.
- Fine Particulate Matter (PM) Wildfire smoke contains gases, vapors, and very small particles or PM. PM have the ability to penetrate deep into your lungs and some may even get into your bloodstream. Studies of PM in ambient air pollution have shown that repeated or continuous exposure can negatively affect a person's lungs and heart. This is especially true for people with underlying health issues (e.g. high blood pressure, high cholesterol), smokers, and people who work in stressful environments.
- A variety of other chemicals are also present in wildfire smoke, such as polycyclic aromatic hydrocarbons (PAHs) and volatile organic compounds (VOCs). Additional harmful chemicals can be released when synthetic materials burns, such as those found in wildland urban interface (WUI). These exposures may further increase your risk of experiencing short-term or even long-term health effects.

There is no easy way to avoid exposure to smoke; it is part of the wildland fire environment. Firefighters and incident overhead personnel should be on the lookout for opportunities to reduce their exposures. Incident overhead can think strategically about assigning wildland firefighting tasks in certain work environments and ask, "**Does our workforce really** *need* to be in the smoke to meet the operational objectives?" Some other things to consider include:

- Is camp placed in a valley where smoke accumulates?
- Is the crew strung out "holding" a smoke-choked road when the probability of ignition is near zero?
- Are firefighters mopping-up stuff that poses no operational threat?

Discussion: There are certain tasks that have been associated with higher exposures to potentially harmful chemicals. Below are some of those tasks. How can you/your crew realistically reduce smoke and PM exposure during these tasks:

- Mopup
- Holding



Firing

Think about and discuss this partial quote from an article from the Summer 2017 Two More Chains

"As CO exposure increases, your ability to think clearly decreases. Being in smoke you don't need to be in is the epitome of not working "smarter." In fact, it is actually working dumber."

Additional Resources

<u>WFSTAR module - Smoke: Knowing the Risks</u> <u>FINAL REPORT Wildland Fire Smoke Health Effects on Wildland Firefighters and the Public</u> <u>Factors affecting smoke and crystalline silica exposure among wildland firefighters</u> <u>Wildland firefighter smoke exposure and risk of lung cancer and cardiovascular disease mortality</u>

Have an idea? Have feedback? Share it.

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