National Interagency Coordination Center Incident Management Situation Report Tuesday, August 23, 2022 – 0730 MDT National Preparedness Level 3

National Fire Activity:

Initial attack activity:	Light (147 fires)
New large incidents:	2
Large fires contained:	6
Uncontained large fires: **	20
Area Command teams committed:	0
NIMOs committed:	1
Type 1 IMTs committed:	2
Type 2 IMTs committed:	6
***Complex IMTs committed:	0

^{***}Complex Incident Management Teams (CIMTs) are configured to respond to large, complex fires and can expand and reduce staffing in all functional areas as necessary to meet the needs of the incident.

Nationally, there are 29 fires being managed under a strategy other than full suppression.

Link to Geographic Area daily reports.

Link to Understanding the IMSR.

One RC-26 aircraft with Distributed Real-Time Infrared (DRTI) capability and support personnel from the 141st Air Refueling Wing (Washington Air National Guard) have been deployed to Boise, ID. One RC-26 aircraft with Distributed Real-Time Infrared (DRTI) capability and support personnel from the 162nd Operations Group (Arizona Air National Guard) have been deployed to Eugene, OR in support of wildland fire operations.

One Boeing 737 airtanker from New South Wales, Australia is supporting fire suppression efforts in the western United States.

^{**}Uncontained large fires include only fires being managed under a full suppression strategy.

		Activ	e Inciden	t Resource	Summary		
GACC	Incidents	Cumulative Acres	Crews Engines		Helicopters	Total Personnel	Change in Personnel
AICC	1	13	1	1	0	38	-11
NWCC	14	32,163	63	59	18	2,444	-233
ONCC	3	113,649	57	130	23	2,505	-155
oscc	2	19,569	3	7	1	151	0
NRCC	19	40,800	12	44	13	713	-33
GBCC	13	113,164	34	100	19	1,864	197
SWCC	1	341,735	2	5	1	498	55
RMCC	3	7,764	3	38	3	195	148
EACC	2	2	0	12	0	44	0
SACC	9	13,298	0	12	1	100	35
Total	67	682,158	175	408	79	8,552	-67

Northwest Area (PL 3)

New fires:	53
New large incidents:	0
Uncontained large fires:	8
Type 1 IMTs committed:	1
Type 2 IMTs committed:	3

White River, Okanogan-Wenatchee NF, USFS. IMT 2 (NW Team 7). IMT is also managing the Irving Peak fire. Twenty-three miles northwest of Leavenworth, WA. Timber. Active fire behavior with flanking, backing and isolated torching. Numerous structures threatened. Evacuations, area, road and trail closures in effect.

Irving Peak, Okanogan-Wenatchee NF, USFS. Twenty-six miles northwest of Leavenworth, WA. Timber. Active fire behavior with flanking, backing and isolated torching. Structures threatened. Evacuations, area, road and trail closures in effect.

Windigo, Umpqua NF, USFS. IMT 2 (NW Team 10). IMT is also managing the Potter and Big Swamp fires. Twenty miles southwest of La Pine, OR. Closed timber litter, timber and medium slash. Minimal fire behavior with creeping and smoldering. Area, road and trail closures in effect.

Potter, Willamette NF, USFS. Forty-six miles southwest of La Pine, OR. Closed timber litter, timber and medium slash. Moderate fire behavior with wind-driven runs, single tree torching and spotting. Area, road and trail closures in effect.

Big Swamp, Willamette NF, USFS. Thirty-seven miles southwest of La Pine, OR. Closed timber litter, timber and medium slash. Minimal fire behavior with creeping and isolated torching. Area, road and trail closures in effect.

Cedar Creek, Willamette NF, USFS. IMT 1 (PNW Team 3). Fifteen miles east of Oakridge, OR. Timber and closed timber litter. Active fire behavior with flanking, creeping and torching. Structures threatened. Area, road and trail closures in effect.

Rum Creek, Medford District, BLM. IMT2 (NW Team 13). Twelve miles northwest of Hugo, OR. Timber and closed timber litter. Active fire behavior with flanking, backing and single tree torching. Structures threatened. Area and trail closures in effect. Reduction in acreage due to more accurate mapping.

Hat Top, Vale District, BLM. Thirteen miles southeast of Juntura, OR. Brush and short grass. Minimal fire behavior with smoldering.

Incident Name	Unit	Si	ze	%	Ctn/	Est	Perso	onnel	Resources			Strc	\$\$	Origin
incident Name	Offic	Acres	Chge	70	Comp	р	Total	Chge	Crw	Eng	Heli	Lost	CTD	Own
White River	WA-OWF	953	0	1	Ctn	10/30	498	-30	14	17	3	0	5.4M	FS
Irving Peak	WA-OWF	952	0	1	Ctn	10/31	58	0	3	0	0	0	1.8M	FS
Windigo	OR-UPF	1,007	0	98	Ctn	10/1	264	-85	4	1	1	0	14.3M	FS
Potter	OR-WIF	622	3	84	Ctn	10/30	311	2	9	7	4	0	9.4M	FS
Big Swamp	OR-WIF	110	0	69	Ctn	10/30	103	0	3	2	0	0	1.8M	FS
Cedar Creek	OR-WIF	7,012	539	0	Ctn	10/1	810	-2	16	19	9	0	21.4M	FS
Rum Creek	OR-MED	265	-95	0	Ctn	10/31	139	-127	4	0	0	0	660K	BLM
Hat Top	OR-VAD	1,894	694	75	Ctn	8/24	62	1	2	2	1	0	350K	BLM

Northern California Area (PL 3)

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

2022 SRF Lightning Complex (2 fires), Six Rivers NF, USFS. NIMO (NIMO Team 1) and IMT 2 (CA Team 14). One mile northeast of Willow Creek, CA. Timber and slash. Extreme fire behavior with uphill runs, spotting and torching. Several communities, numerous structures and infrastructure threatened. Evacuations, area, road and trail closures in effect.

McKinney, Klamath NF, USFS. IMT 2 (CA Team 12). Fifteen miles northwest of Yreka, CA. Timber and brush. Minimal fire behavior with smoldering and creeping. Several communities and numerous residences threatened. Area, road and trail closures in effect.

Yeti, Klamath NF, USFS. Eight miles northeast of Happy Camp, CA. Closed timber litter and timber. Minimal fire behavior with creeping and smoldering. Several communities, numerous structures and communication infrastructure threatened. Evacuations, area, road and trail closures in effect.

Incident Name	Unit Size Acres Chge	Size		- %	Ctn/	Est	Personnel		Resources			Strc	\$\$	Origin
incident ivallie		/0	Comp	Comp LSt	Total	Chge	Crw	Eng	Heli	Lost	CTD	Own		
2022 SRF Lightning Complex	CA-SRF	27,025	1,049	80	Ctn	8/27	1,694	77	44	112	18	8	47.2M	FS
McKinney	CA-KNF	60,138	0	95	Ctn	8/30	689	-236	11	12	5	185	68M	FS
Yeti	CA-KNF	7,886	0	95	Ctn	9/1	122	4	2	6	0	0	16.6M	FS

Great Basin Area (PL 3)

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

Four Corners, Payette NF, USFS. IMT 2 (GB Team 4). Six miles west of Cascade, ID. Timber. Active fire behavior with flanking, group torching and spotting. Numerous structures threatened. Evacuations, area and road closures in effect.

Moose, Salmon-Challis NF, USFS. IMT 1 (NR Team 2). Seventeen miles north of Salmon, ID. Timber. Moderate fire behavior with uphill runs, isolated torching and backing. Numerous residences and energy infrastructure threatened. Area, road and trail closures in effect. Precipitation occurred over the fire area yesterday.

Incident Name	Unit	Si	ze	%	Ctn/	Est	Perso	onnel	Re	esourc	es	Strc	\$\$	Origin
incident Name	Offic	Acres	Chge	/0	Comp	LSI	Total	Chge	Crw	Crw Eng Hel	Heli	Lost	CTD	Own
Four Corners	ID-PAF	7,986	164	11	Ctn	9/15	649	46	15	35	7	0	7.5M	FS
Moose	ID-SCF	94,740	1,881	37	Ctn	10/31	823	41	11	48	6	7	51.8M	FS
* Doubletapp	ID-BOD	710		100	Ctn		20		0	4	0	2	100K	BLM
Large Fires Being Managed with a Strategy Other Than Full Suppression Without a Type 1 or 2 IMT Assigned											gned			
Woodtick	ID-SCF	5,735	4	17	Comp	9/30	27	0	1	0	1	0	4M	FS
Porphyry	ID-PAF	2,000	0	0	Comp	10/15	64	0	1	3	0	0	201K	FS
Ross Fork	ID-STF	515	50	0	Comp	10/31	17	0	0	1	0	0	450K	FS
Dismal	ID-PAF	1,664		0	Comp	10/15	12		0	0	1	0	38K	FS
Norton	ID-SCF	679		0	Comp	10/31	2		0	0	0	0	98K	FS
Halfway Hill	UT-SCS	11,702		93	Comp	10/1	11		0	2	0	2	11.7M	ST
Wolf Fang	ID-SCF	1,266		0	Comp	10/1	1		0	0	0	0	60K	FS

BOD - Boise District, BLM STF - Sawtooth NF, USFS SCS - South Central Area, Utah DOF

Northern Rockies Area (PL 3)

New fires:	28
New large incidents:	0
Uncontained large fires:	2

Garceau, Flathead Agency, BIA. Seven miles northeast of Hot Springs, MT. Tall grass and timber. Moderate fire behavior with backing, creeping and single tree torching. Structures and energy infrastructure threatened.

Sutton, Kootenai NF, USFS. Thirteen miles southeast of Eureka, MT. Timber. Minimal fire behavior with creeping and smoldering. Road and trail closures in effect.

Quartz, Glacier NP, NPS. Previously reported incident. Twenty-five miles north of West Glacier, MT. Timber. Moderate fire behavior with backing and spotting. Structure threatened. Area and trail closures in effect. Last narrative report unless significant activity occurs.

Incident Name	Unit	Si	ze	%	Ctn/ Comp	Est -	Personnel		Resources			Strc	\$\$	Origin
		Acres	Chge	/0			Total	Chge	Crw	Eng	Heli	Lost	CTD	Own
Garceau	MT-FHA	6,712	0	41	Ctn	8/31	170	0	3	8	7	0	3.5M	BIA

Incident Name	Unit	Si	ze	%	Ctn/	Est	Perso	onnel	Re	esourc	es	Strc	\$\$	Origin
modent Name	Offic	Acres	Chge	70	Comp	LSI	Total	Chge	Crw	Eng	Heli	Lost	CTD	Own
Sutton	MT-KNF	108	0	75	Ctn	10/15	104	0	3	0	0	0	2.1M	FS
Elmo	MT-FHA	21,349	0	100	Ctn		30	0	0	5	0	8	15.5M	BIA
Deep Draw	MT-CRA	794	0	100	Ctn		10	-9	0	2	0	0	900K	BIA
Long Butte	MT-LG09	1,500	0	100	Ctn		50	0	0	13	0	0	10K	PRI
Bay	MT-LG09	797	97	100	Ctn		34	-4	0	6	0	0	5K	PRI
Larg	Large Fires Being Managed with a Strategy Other Than Full Suppression Withou								out a T	ype 1	or 2 IM	IT Assi	gned	
Quartz	MT-GNP	1,678	390	0	Comp	10/31	18	0	0	0	0	0	30K	NPS
Redhorn	MT-FHA	511	0	5	Comp	10/1	10	0	0	0	1	0	3M	BIA
Hog Trough	MT-BRF	1,688	68	77	Comp	10/15	151	-13	2	2	3	0	9.7M	FS
Castle	ID-NCF	400		0	Comp	12/31	0		0	0	0	0	50K	FS
Clover	MT-BDF	1,103		51	Comp	10/30	13		0	0	0	0	2.1M	FS
Weasel	MT-KNF	1,683		20	Comp	9/30	9		0	1	0	0	1.3M	FS
Diamond Watch	ID-IPF	597		0	Comp	9/30	25		1	1	0	0	425K	FS
Indian Ridge	MT-BRF	4,425		0	Comp	10/31	8		0	0	0	0	18K	FS
Eneas Peak	ID-IPF	150		0	Comp	9/30	4		0	0	0	0	17K	FS
Cannon	MT-FNF	995		0	Comp	10/31	1		0	0	0	0	17K	FS

CRA – Crow Agency, BIA LG09 – Powder River County BRF – Bitterroot NF, USFS NCF – Nez Perce-Clearwater NF, USFS BDF – Beaverhead-Deerlodge NF, USFS IPF – Idaho Panhandle NF, USFS FNF – Flathead NF, USFS

Southern California Area (PL 2)

New fires: 17
New large incidents: 0
Uncontained large fires: 1

Wishon, Sequoia NF, USFS. Six miles northeast of Springville, CA. Timber, brush and chaparral. Minimal fire behavior.

Incident Name	Unit	Size %		Ctn/ Est		Personnel		Resources			Strc		Origin	
incident Name	Offic	Acres	Chge	70	Comp	LSI	Total	Chge	Crw	Eng	Heli	Lost	CTD	Own
Wishon	CA-SQF	325	0	95	Ctn	8/28	87	0	2	5	0	0	2.9M	FS
Large Fires Being Managed with a Strategy Other Than Full Suppression Without a Type 1 or 2 IMT Assigned														
Red	CA-YNP	500		0	Comp	9/28	24		2	0	1	0	20K	NPS

YNP - Yosemite NP, NPS

Southern Area (PL 2)

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

Juniper Road Two, North Carolina Forest Service. Seven miles northwest of Holly Ridge, NC. Southern rough. Minimal fire behavior with smoldering. Precipitation occurred over the fire area yesterday.

Incident Name	Incident Name	Unit	Si	Size %		Ctn/ Comp	Est	Personnel		Resources		es	Strc	\$\$	Origin
	Offic	Acres	Chge	/0	Total			Chge	Crw	Eng	Heli	Lost	CTD	Own	
	Juniper Road Two	NC-NCS	1,226	0	90	Ctn	9/15	37	-1	0	0	0	0	860K	ST

Rocky Mountain Area (PL 2)

New fires:8New large incidents:1Uncontained large fires2

TW, Johnson County. Forty miles west of Gillette, WY. Tall grass and brush. Minimal fire behavior with smoldering. Residences threatened. Reduction in acreage due to more accurate mapping.

* Hwy 31 & 101st West, Standing Rock Agency, BIA. Three miles northeast of McIntosh, SD. Grass. Active fire behavior. Structures threatened.

Incident Name	Unit	Size %		0/_	% Ctn/	Est	Personnel		Resources			Strc	\$\$	Origin
	Offic	Acres	Chge	70	Comp	LSt	Total	Chge	Crw	Eng	Heli	Lost	CTD	Own
TW	WY-JOX	2,925	-75	50	Ctn	8/24	115	77	3	10	3	0	200K	CNTY
* Hwy 31 & 101 ^s West	ND-SRA	4,000		90	Ctn	8/31	71		0	28	0	1	25K	BIA

Southwest Area (PL 2)

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

Incident Name	Unit	Size		% Ctn/	Est -	Personnel		Resources			Strc	\$\$	Origin	
incluent Name		Acres	Chge	,0	Comp	اد	Total	Chge	Crw	Eng	Heli	Lost	CTD	Own
Hermits Peak	NM-SNF	341,735	0	100	Ctn		498	55	2	5	1	913	301M	FS
Larg	e Fires Bein	g Managed	d with a St	rategy	Other T	han Full	Suppress	sion With	out a T	ype 1	or 2 IM	T Assi	gned	
Dragon	AZ-GCP	1,362		0	Comp	9/1	7		0	1	0	0	900K	NPS
Keystone	AZ-FTA	471		60	Comp	10/1	2		0	1	0	0	50K	BIA

SNF - Santa Fe NF, USFS GCP - Grand Canyon NP, NPS FTA - Fort Apache Agency, BIA

Alaska Area (PL 1)

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

Incident Name	Unit	Size		%	Ctn/	Est	Personnel		Resources			Strc	\$\$	Origin
moident Name	Offic	Acres	Chge	/0	Comp	LSI	Total	Chge	Crw	Eng	Heli	Lost	CTD	Own
Large	Fires Being	Managed	with a Stra	ategy	Other Th	an Full S	Suppres	sion With	out a T	ype 1	or 2 IM	IT Assi	gned	
Christian	AK-UYD	8,769		0	Comp	9/30	0		0	0	0	0	10K	TRI
Minnkohwin	AK-TAD	4,718		0	Comp	10/1	0		0	0	0	0	30K	FWS
Clear	AK-FAS	73,284		91	Comp	8/31	18		0	1	0	33	27.1M	ST
Hardscrabble Creek	AK-SWS	2,514		0	Comp	10/31	0		0	0	0	0	3K	ST

Incident Name	Unit	Si	Size %		Ctn/	Est -	Personnel		Resources			Strc	\$\$ OTD	Origin
		Acres	Chge	70	Comp	LSt	Total	Chge	Crw	Eng	Heli	Lost	CTD	Own
Middle Tanana Complex	AK-DAS	62,861		0	Comp	10/31	1		0	0	0	0	3.4M	ST

UYD – Upper Yukon Zone, BLM TAD – Tanana Zone, BLM FAS – Fairbanks Area, Alaska DOF SWS – Southwest Area, Alaska DOF DAS – Delta Area, Alaska DOF

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
Alaska Area	ACRES	0	0	0	0	1,938	0	1,938
Northwest Area	FIRES	0	0	0	0	20	33	53
Northwest Area	ACRES	0	0	0	0	13	67	80
North are California Area	FIRES	0	0	0	0	9	0	9
Northern California Area	ACRES	0	0	0	0	6	144	150
Cauth and California Ana	FIRES	0	0	0	0	16	1	17
Southern California Area	ACRES	0	0	0	0	89	127	216
North and Danking Area	FIRES	3	0	0	0	9	16	28
Northern Rockies Area	ACRES	126	0	0	0	3	11	140
Overt Basis Aver	FIRES	1	5	0	0	1	11	18
Great Basin Area	ACRES	0	101	0	0	0	1,992	2,093
On the cost Acces	FIRES	0	0	0	0	0	0	0
Southwest Area	ACRES	0	0	0	0	0	0	0
Deal Mentalis Asse	FIRES	0	2	0	0	4	2	8
Rocky Mountain Area	ACRES	0	3	0	0	0	0	3
	FIRES	0	0	0	0	0	0	0
Eastern Area	ACRES	0	0	0	0	0	0	0
Courtle and Anna	FIRES	3	0	0	0	11	0	14
Southern Area	ACRES	29	0	0	0	42	0	71
TOTAL FIRES:		7	7	0	0	70	63	147
TOTAL ACRES:		155	104	0	0	2,091	2,341	4,690

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

Area		BIA	BLM	FWS	NPS	ST/OT	USFS	TOTAL
Alaaka Araa	FIRES	0	186	0	0	346	30	562
Alaska Area	ACRES	0	1,521,538	0	0	1,575,537	10	3,097,085
Northwest Area	FIRES	145	272	23	28	660	611	1,739
Northwest Area	ACRES	1,240	46,914	257	3	13,326	10,122	71,862
Northern California Area	FIRES	6	23	5	17	2,233	255	2,539
Northern California Area	ACRES	2	286	20	131	14,413	95,034	109,886
Cautham California Araa	FIRES	23	37	8	23	2,864	360	3,315
Southern California Area	ACRES	114	295	103	5,373	18,677	3,141	27,702
Northern Deaking Area	FIRES	365	18	4	3	769	343	1,502
Northern Rockies Area	ACRES	27,084	2,103	527	1,678	11,674	12,184	55,250
Creat Daoin Area	FIRES	29	477	5	32	577	272	1,392
Great Basin Area	ACRES	6,568	26,894	58	37	36,200	153,126	222,882
Courthweat Area	FIRES	383	182	6	26	515	768	1,880
Southwest Area	ACRES	39,403	13,326	15	2,717	159,631	760,791	975,883
Dealer Marintain Area	FIRES	274	310	12	23	1,031	257	1,907
Rocky Mountain Area	ACRES	18,075	6,242	130	597	179,574	10,629	215,247
Factors Area	FIRES	88	0	20	11	5,548	320	5,987
Eastern Area	ACRES	253	0	680	17	39,271	2,894	43,115
Couthorn Arcs	FIRES	799	4	26	65	21,375	628	22,897
Southern Area	ACRES	103,534	88	5,942	3,054	1,027,026	39,584	1,179,228
TOTAL FIRES:		2,112	1,509	109	228	35,918	3,844	43,720
TOTAL ACRES:		196,272	1,617,686	7,732	13,607	3,075,329	1,087,515	5,998,141

Ten Year Average Fires (2012 – 2021 as of today)	38,991
Ten Year Average Acres (2012 – 2021 as of today)	5,125,914

^{***}Changes in some agency YTD acres reflect more accurate mapping or reporting adjustments.

***Additional wildfire information is available through the Geographic Areas at https://gacc.nifc.gov/

Canadian Fires and Hectares

PROVINCES	FIRES YESTERDAY	HECTARES YESTERDAY	FIRES YEAR-TO-DATE	HECTARES YEAR-TO- DATE
BRITISH COLUMBIA	37	917	1,039	38,645
YUKON TERRITORY	0	0	273	175,285
ALBERTA	32	538	866	122,300
NORTHWEST TERRITORY	0	0	234	407,256
SASKATCHEWAN	5	4,270	349	229,490
MANITOBA	3	0	169	136,586
ONTARIO	3	0	210	2,434
QUEBEC	1	0	366	29,574
NEWFOUNDLAND	0	0	72	23,989
NEW BRUNSWICK	0	0	174	137
NOVA SCOTIA	1	1	118	3,364
PRINCE EDWARD ISLAND	0	0	2	0
NATIONAL PARKS	0	0	49	6,526
TOTALS	82	5,726	3,978	1,175,583

^{*1} Hectare = 2.47 Acres

Predictive Services Discussion: Drier air will move into much of inland Oregon, northeast California, and much of the northern Great Basin with relative humidity of 5-18%. West to southwest winds will be lighter at 10-15 mph with gusts to 25 mph, but locally elevated conditions are possible where terrain enhances the wind. Temperatures will continue to be above normal for the Inland Northwest, northern California, and northern Great Basin as well. Isolated mixed wet and dry thunderstorms are likely from north-central Washington through the Idaho Panhandle into northwest Montana. Scattered mainly wet thunderstorms are expected across central and eastern Montana with isolated thunderstorms into the Dakotas and northern Minnesota. Another day of hot, dry, and breezy conditions are expected for portions of the central and northern Plains. Isolated to scattered monsoon thunderstorms are forecast across the Southwest and Colorado Rockies. Showers and thunderstorms will develop across much of central and south Texas into the Lower Mississippi Valley with locally heavy rain. Scattered showers and thunderstorms are likely across much of the Northeast, with scattered wet thunderstorms along the Southeast Coast into Florida and the northern Gulf Coast.

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



Communications (LCES)

Fire Communication Category

Effective communication is a critical component of safe and successful operations.

Discuss the factors that can affect radio communication at the incident.

- Knowledge of the radio issued to the individuals.
- Net control, frequencies.
- Line-of-sight restrictions.
- Antenna polarization effect (direction of the antenna).
- Minimizing noise interference.
- Wide band vs. narrow band.
- Potentially unfamiliar local jargon (e.g., Coulee, candlestick, fence post, etc.).

How can you mitigate potential problems?

- Implement effective communication procedures—be brief, use clear text and to-the-point messages.
- Give a good comprehensive briefing. (Refer to the Briefing Checklist inside the back cover of the Incident Response Pocket Guide (IRPG), PMS 461).
- Confirm that relayed information is received and understood.
- Keep a continuous information flow (e.g., updates on weather, fire behavior, work progress; changes in strategy/tactics; arrival of additional resources; and solicitation of feedback).
- Establish emergency check-in procedures.
- Provide a minimum of four radios per 20-person firefighter crew.

The Five Communication Responsibilities for all firefighters:

- Brief others as needed.
- Debrief your actions.
- Communicate hazards to others.
- Acknowledge messages.
- Ask if you don't know.

Resources:

10 Standard Firefighting Orders, PMS 110, https://www.nwcg.gov/publications/pms110

10 and 18 Poster, PMS 110-18, https://www.nwcg.gov/publications/pms110-18

18 Watchout Situations, PMS 118, https://www.nwcg.gov/publications/pms118

"LCES and Other Thoughts" by Paul Gleason, https://www.nwcg.gov/sites/default/files/wfldp/docs/lces-gleason.pdf

NWCG Incident Response Pocket Guide (IRPG), PMS 461, https://www.nwcg.gov/publications/461

Interagency Standards for Fire & Fire Aviation Operations (Red Book), https://www.nifc.gov/standards/guides/red-book

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