

LAVA FIRE



CA-SHF-000949

P5N3XW (0514)

INCIDENT
ACTION PLAN



IAP



MAPS




JUNE 29, 2021

DAY SHIFT 0600 – 1800

INCIDENT OBJECTIVES (ICS 202)

1. Incident Name:	2. Operational Period: DAY	
LAVA	Date/Time From: 06/29/2021 0600 TUE	Date/Time To: 06/29/2021 1800 TUE
3. Objective(s):		
<p>Management Objectives</p> <ol style="list-style-type: none"> 1. Ensure firefighter and public safety by using strategies and tactics that mitigate known and anticipated hazards while providing for highest probability of success. 2. Maintain and enhance relationships with represented agencies, local landowners, and the general public. 3. Provide timely and accurate fire information to cooperators and affected communities. 4. Protect the natural resources in the fire area to create risk-based decisions while utilizing M.I.S.T. in the Mt. Shasta wilderness area. 5. Effectively manage cost by implementing strategies and tactics that have a high probability of success. <p>Control Objectives</p> <p>Keep fire:</p> <ul style="list-style-type: none"> · East of Union Pacific Railroad tracks · North of Diller Canyon · South of Deer Mt Road · West of the North Gate Trailhead 		
4. Operational Period Command Emphasis:		
General Situational Awareness:		
5. Site Safety Plan Required? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		
Approved Site Safety Plan(s) Located		
6. Incident Action Plan (the items checked below are included in this Incident Action Plan):		
<input checked="" type="checkbox"/> ICS 202 <input checked="" type="checkbox"/> ICS 203 <input checked="" type="checkbox"/> ICS 204 <input checked="" type="checkbox"/> ICS 205 <input type="checkbox"/> ICS 205A <input checked="" type="checkbox"/> ICS 206	<input type="checkbox"/> ICS 207 <input type="checkbox"/> ICS 208 <input checked="" type="checkbox"/> ICS 220 <input type="checkbox"/> Map/Chart <input checked="" type="checkbox"/> Weather Forecast/Tides/Currents	Other Attachments: <input checked="" type="checkbox"/> SAFETY MESSAGE <input checked="" type="checkbox"/> 215A <input checked="" type="checkbox"/> HR MESSAGE <input checked="" type="checkbox"/> MIST
7. Prepared by: ARTIE COLSON	Position/Title: PSC2	Signature: 
8. Approved by Incident Commander: Name: STEVE WATKINS		Signature: 
ICS 202	IAP Page	Date/Time: 06/28/2021 2300

ORGANIZATION ASSIGNMENT LIST (ICS 203)

1. Incident Name:		2. Operational Period: DAY	
LAVA		Date/Time From: 06/29/2021 0600	Date/Time To: 06/29/2021 1800
		TUE	TUE
3. Incident Commander(s) and Command Staff:		7. Operations Section:	
IC/UC	STEVE WATKINS; DARRYL LAWS CLINTON GOULD (T)	DAY OPS SECTION CHIEF	JEFF HINSON CHANCE TRAUB (T)
DEPUTY	MICHAEL STRAWHUN	NIGHT OPS SECTION CHIEF	JACK FROGGATT
SAFETY OFFICER	GREG MARFIL	PLANNING OPS	ALEC LANE GORDON MEYER (T)
INFORMATION OFFICER	RAJ SINGH MICHELLE CARONARO	DEPUTY OPS SECTION CHIEF	STEVE WALKER
LIAISON OFFICER	DAVID COOPER; DENNIS REIN		
4. Agency/Organization Representative(s):		Branch I	
Agency/Organization	Name	BRANCH DIRECTOR	
SHF AGENCY ADMINISTRATOR	CAROLYN NAPPER	DIVISION/GROUP A	DANIEL GUSE
CHP	ROBERT LYNAM	DIVISION/GROUP D	UNSTAFFED
TIMBER INDUSTRY LIAISON	DARIN QUIGLEY	Branch III	
ROSEBURG FOREST PRODUCTS	RYAN DUCHI	BRANCH DIRECTOR	
UNION PACIFIC RAILROAD	GENE WOMACK	DIVISION/GROUP H	ANDY ZINK
LAKE SHASTINA FIRE	STEVEN PAPPAS	DIVISION/GROUP M	CHRIS VERO
WEED FIRE	BRIAN CARTER	DIVISION/GROUP R	KELSEY LOFDAHL NOLAN ROTH (T)
SISKIYOU COUNTY SHERIFF	LT. BEN WHETSTINE	Branch V	
5. Planning Section:		BRANCH DIRECTOR	LUKE KENDALL
CHIEF	ARTIE COLSON	DIVISION/GROUP T	LARRY TURMAN
READ	NICK MEYERS	DIVISION/GROUP Z	SHAWN RALEY
RESOURCES UNIT	S. SOLIS; A. SINGER; N.PHILLIPE	7b. Air Operations Branch:	
SITUATION UNIT	MARK LEMON; ROBERT HERRERA	AIR OPS BRANCH DIRECTOR	STACI DICKSON
DEMOB	MARIAN KADOTA	AIR ATTACK SUPERVISOR	
TRAINING SPECIALIST	JOHN LEBLANC	AIR SUPPORT SUPERVISOR	COLE WALLACE
GIS SPECIALIST	STEVE ROGNESS DAVID GABALDON	HELICOPTER COORDINATOR	
ITSS	RON WATSON; ALEX HENNEN	AIR TANKER COORDINATOR	
IMET	ERIC KURTH	8. Finance/Administration Section:	
FBAN	TARO PUSINA	CHIEF	JOAN DISNEY LISA DOW (T)
6. Logistics Section:		DEPUTY	
CHIEF	MARK RATEKIN	TIME UNIT	TIFFANIE SACHSE-SANTI PAULLA STEPHENS
DEPUTY	RANDY JACKSON	PROCUREMENT UNIT	
SUPPLY UNIT	DAVID GERSTUNG JIM MIDDLETON	COMPENSATION UNIT	
FACILITIES UNIT	MATTHEW WIGGINS	COST UNIT	SANDRA TARVIN (T)
GROUND SUPPORT UNIT	LARRY AMERJAN VERNON SMITH		
COMMUNICATIONS UNIT	JOE MEHCIZ		
MEDICAL UNIT	MICKEY BRUNELLI		
FOOD UNIT	MICHAEL CHAPMAN		
9. Prepared By:	Name: ANSLEY SINGER	Position/Title: RESL	Signature:
ICS 203	IAP Page	Date/Time: 06/28/2021 1851	



INCIDENT Weather Forecast



FORECAST NO: 1
PREDICTION FOR: 6/29/2021
SHIFT DATE: Day
FORECAST ISSUED: 2200 6/28/2021

NAME OF FIRE: Lava Fire
UNIT: CA-SHF
SIGNED: Eric C. Kurth,
Incident Meteorologist
eric.kurth@noaa.gov

...Hot and dry weather continues...

WEATHER DISCUSSION: Morning inversion will break shortly after sunrise. Sunny with smoke. Afternoon high temperatures will again be hot, but a little cooler than Monday with slightly increased humidity levels. Winds are expect to be southwesterly in the morning, increasing and gusting to 20 mph early afternoon. Prevailing winds are expected to shift to the northwest by late afternoon to early evening. Plume growth is expected to develop by afternoon, but not quite as strong as Monday.

WEATHER FORECAST:

WEATHER: Sunny. Areas of smoke.

TEMPERATURES: 96-101 valleys and 85-90 ridges.

HUMIDITY: 10-15 percent valleys and 15-20 percent ridges.

20 FT WINDS:

UPPER SLOPE/RIDGETOP - South winds 5 to 10 mph gusting up to 20 mph around noon. Winds shift to northwest 5 to 10 mph in the late afternoon.

LOWER SLOPE/VALLEY - Light variable winds becoming southwest 8 to 12 mph with gusts to 20 mph in the early afternoon. Winds shift to northwest 4 to 8 mph in the late afternoon to early evening.

HAINES INDEX: 5

LAL: 1

STABILITY/INVERSION: Morning inversion with smoke laying down, breaking shortly after dawn.

FIRE BEHAVIOR FORECAST

FORECAST NUMBER: 2	TYPE OF FIRE: Wildfire
FIRE NAME: Lava, CA-SHF-000949	OPERATIONAL PERIOD: Day 0600-1800, 6/29/21
DATE ISSUED: June 28, 2021	TIME ISSUED: 2300
UNIT: Shasta Trinity NF, Shasta RD	SIGNED: /s/ <i>Taro Pusina</i> Taro Pusina, FBAN

INPUTS

WEATHER SUMMARY

See Incident IMET Weather Forecast

Discussion: Hot and sunny with smoke and slightly cooler on Tuesday. Prevailing winds are expected to shift to northwest by late afternoon or early evening.

Weather: Clear, hot and dry conditions with instability, Haines index of 5

Max Temps: 96-101° valley, 85-90° ridges

Min RH: 10-15% valley 15-20% ridges

20' Winds: Ridge south 5-10 mph, Gusts to 20, becoming northwest 5-10 mph late afternoon or evening

FIRE BEHAVIOR

GENERAL:

*****Mt. Shasta ERC is 72*****

- **Fuels:** Below average winter snowpack and very hot, dry windy conditions have created conditions one to two months ahead of average. Surface fuels consist of manzanita and shrubs with second growth ponderosa pine and mixed conifer in the overstory best represented by Scott and Burgan's SH5 and TL8 fuel models. ERC's and 1000-hour fuel moistures are *at the 90th percentile and setting records for dryness for this time of year*. 1000-hour dead fuel moistures are below 10% and live brush fuel moistures are below 100%.
- **Topography:** Aspect is mostly west on the rugged, lava flow flanks of Mt. Shasta. The elevation range is 3000' - 6000' and slopes range from 20 to 70%. The lava rock creates difficult access and a high resistance to control.

SPECIFIC FIRE BEHAVIOR:

The fire is burning very actively during the day with moderate duration crown fire runs in brush and timber with spotting distances ½ to 1 mile out and a probability of ignition over 75%.

Potential *daytime maximum headfire behavior*:

- Shrub: 14 - 24' flame lengths, 64-200 chains/hr. rate of spread. Mixed conifer understory: 4 - 7' flame lengths, 9 - 30 chains/hr. rate of spread.
- Torching and short duration timber crown fire: 100 - 150' flame lengths, over 90 chains/hr rate of spread

Northern Portion of Fire: Until dark expect isolated crown fire runs moving laterally across and upslope. Fire has crossed Hwy. 97 and will continue to spread to the north. After dark expect downslope winds to push fire toward the community of Lk. Shastina

DIV's R/M: Continued flanking and head fire runs in brush and timber north across Hwy. 67 and the community of Lake Shastina. Watch for afternoon northerly wind shift to impact these Divisions.

DIV's T/Z: Expect brush and timber crown fire runs with rapid rates of spread towards Big Springs Rd. and County Highway A12.

DIV's A/D: Flanking and heading around Mount Shasta toward Klamath NF Goosenest Ranger District.

AIR OPERATIONS

- Smoky conditions likely in the fire area until the inversion lifts around 1100 hours

SAFETY

- Watch for rapid transition from surface fire to crown fire in brush and timber

Division/Group Assignment List (ICS 204 WF)

Controlled Unclassified Information//Basic

1. Incident Name:			3.			
LAVA			Branch:		Division/Group	
2. Operational Period: DAY			I		A	
Date/Time From: 06/29/2021 0600 TUE		Date/Time To: 06/29/2021 1800 TUE				
4. Operations Personnel						
OPERATIONS CHIEF		JEFF HINSON CHANCE TRAUB (T)		DIVISION/GROUP SUPERVISOR		
				DANIEL GUSE		
FIELD SAFETY		PEDRO MARTINEZ				
5. Resources Assigned this Period						
Strike Team / Task Force / Resource Designator		LWD	Leader	Number Persons	Drop Off PT./Time	Pick Up PT./Time
HC1 TRINITY IHC C-1		07/09	TRISTAN DIAS	20	LAVA ICP/0600	LAVA ICP/1800
HC1 SALMON RIVER IHC C-6		07/09	GEORGE CORREA	20	LAVA ICP/0600	LAVA ICP/1800
HC1 ELK MT IHC C-4		07/10	REYMUNDO REYES	21	LAVA ICP/0600	LAVA ICP/1800
ENG1 DUNSMUR E-810 E-32		07/10	JOHN DELGADO	3	LAVA ICP/0600	LAVA ICP/1800
E3 FIRESTORM 9901					LAVA ICP/0600	LAVA ICP/1800
ENG3 SHF E 323 E-46		07/10	KENNETH VAUGHN	5	LAVA ICP/0600	LAVA ICP/1800
ENG3 SHF E 321 E-51		07/10	BOB TONEY	8	LAVA ICP/0600	LAVA ICP/1800
DOZ2 NORTHSTATE E-58		07/12	CARSON METZ	2	LAVA ICP/0600	LAVA ICP/1800
DOZ2 ENF 3 E-57		07/12	DANIEL L STARK	4	LAVA ICP/0600	LAVA ICP/1800
WTT1 MSH 4 E-1			ANDY KLEIN	1	LAVA ICP/0600	LAVA ICP/1800
TFLD(T) DAVE FOSTER O-27		07/06		1	LAVA ICP/0600	LAVA ICP/1800
6. Control Operations/Work Assignments:						
Scout for direct and/or indirect opportunities for line construction.						
7. Special Instructions:						
8. Division/Group Communication Summary						
Function	Channel	RX Frequency N/W	RX Tone/NAC	TX Frequency N/W	TX Tone/NAC	Mode
COMMAND	1 (SHFR)	171.5750	15 (162.2)	165.0125	15 (162.2)	
TACTICAL	6 (NIFC TAC1)	168.0500		168.0500		
AIR TO GROUND	13 (A/G TAC)	169.1500		169.1500		
9. Prepared By (Resource Unit Leader)			Approved By (Planning Section Chief)		Date	Time
NANCY PHILLIPE			ARTIE COLSON		06/28/2021	2300

Division/Group Assignment List (ICS 204 WF)

Controlled Unclassified Information//Basic

1. Incident Name:		3.	
LAVA		Branch:	Division/Group
2. Operational Period: DAY		I	D
Date/Time From: 06/29/2021 0600 TUE	Date/Time To: 06/29/2021 1800 TUE		

4. Operations Personnel			
DIVISION/GROUP SUPERVISOR	UNSTAFFED	AIR ATTACK SUPERVISOR	
OPERATIONS CHIEF		BRANCH DIRECTOR	

5. Resources Assigned this Period					
Strike Team / Task Force / Resource Designator	LWD	Leader	Number Persons	Drop Off PT./Time	Pick Up PT./Time
UNSTAFFED					

6. Control Operations/Work Assignments:

7. Special Instructions:

8. Division/Group Communication Summary						
Function	Channel	RX Frequency N/W	RX Tone/NAC	TX Frequency N/W	TX Tone/NAC	Mode
COMMAND	1 (SHFR)	171.5750	15 (162.2)	165.0125	15 (162.2)	
TACTICAL	7 (NIFC TAC3)	168.6000		168.6000		
AIR TO GROUND	13 (A/G TAC)	169.1500		169.1500		

9. Prepared By (Resource Unit Leader)		Approved By (Planning Section Chief)		Date	Time
ANSLEY SINGER		ARTIE COLSON		06/28/2021	2300

Division/Group Assignment List (ICS 204 WF)

Controlled Unclassified Information//Basic

1. Incident Name:		3.	
LAVA		Branch:	Division/Group
2. Operational Period:		III	H
Date/Time From: 06/29/2021 0600 TUE	Date/Time To: 06/29/2021 1800 TUE		

4. Operations Personnel			
OPERATIONS CHIEF	JEFF HINSON CHANCE TRAUB (T)	DIVISION/GROUP SUPERVISOR	ANDY ZINK
FIELD SAFETY	NICK BIANCHINI		

5. Resources Assigned this Period					
Strike Team / Task Force / Resource Designator	LWD	Leader	Number Persons	Drop Off PT./Time	Pick Up PT./Time
HC1 KLAMATH IHC C-12	07/06	ANDREW ZINK	19	LAVA ICP /0600	LAVA ICP/1800
WFM2 WFM SIX RIVERS O-117	07/12	TRISTON KIEHL	12		
DOZ 79				LAVA ICP /0600	LAVA ICP/1800
DOZ 29				LAVA ICP /0600	LAVA ICP/1800

6. Control Operations/Work Assignments:
 Continue with direct line construction to the Wilderness boundary.
 Ensure adequate mop up of completed line to keep fire from progressing south/southwest toward the community of Weed.

7. Special Instructions:
 Utilize M.I.S.T in the Wilderness.

8. Division/Group Communication Summary						
Function	Channel	RX Frequency N/W	RX Tone/NAC	TX Frequency N/W	TX Tone/NAC	Mode
COMMAND	1 (SHFR)	171.5750	15 (162.2)	165.0125	15 (162.2)	
TACTICAL	9 (NIFC TAC6)	166.7750		166.7750		
AIR TO GROUND	13 (A/G TAC)	169.1500		169.1500		

9. Prepared By (Resource Unit Leader)	Approved By (Planning Section Chief)	Date	Time
NANCY PHILLIPE <i>Nancy Phillipe</i>	ARTIE COLSON <i>Artie Colson</i>	06/28/2021	1658

Division/Group Assignment List (ICS 204 WF)

Controlled Unclassified Information//Basic

1. Incident Name:		3.	
LAVA		Branch:	Division/Group
2. Operational Period:		III	M
DAY			
Date/Time From: 06/29/2021 0600	TUE	Date/Time To: 06/29/2021 1800	TUE

4. Operations Personnel			
OPERATIONS CHIEF	JEFF HINSON CHANCE TRAUB (T)	DIVISION/GROUP SUPERVISOR	CHRIS VERO
FIELD SAFETY	NICK BIANCHINI		

5. Resources Assigned this Period					
Strike Team / Task Force / Resource Designator	LWD	Leader	Number Persons	Drop Off PT./Time	Pick Up PT./Time
HC1 TAHOE IHC C-5		DANIEL GUERRERO	21	LAVA ICP/0600	LAVA ICP/1800
HC1 VALYERMO IHC C-19	07/12	MATTHEW RAMSTEAD	20	LAVA ICP/0600	LAVA ICP/1800
HC2I HAPPY CAMP 2 C-8	07/10	JESSE PARRY	21	LAVA ICP/0600	LAVA ICP/1800
ES3 S/T SRF 2600C E-3	07/07	BRYAN LANNING	25	LAVA ICP/0600	LAVA ICP/1800
ES3 S/T SKU 9260C [24 HR] E-39		LARRY TURMAN		LAVA ICP/0600	LAVA ICP/1800
WTT1 SHF 4		ANDY KLEIN		LAVA ICP/0600	LAVA ICP/1800
WTS3 ALAN'S E-28	07/10	ALAN WHARFF	1	LAVA ICP/0600	LAVA ICP/1800
WTS3 COTTONWOOD E-29	07/10	RICHIE VARGAS	1	LAVA ICP/0600	LAVA ICP/1800
KEITH SMYTH				LAVA ICP/0600	LAVA ICP/1800

6. Control Operations/Work Assignments:
 Continue with direct line construction to the Wilderness boundary.
 Ensure adequate mop up of completed line to keep fire from progressing southwest toward the community of Weed.

7. Special Instructions:

8. Division/Group Communication Summary						
Function	Channel	RX Frequency N/W	RX Tone/NAC	TX Frequency N/W	TX Tone/NAC	Mode
COMMAND	1 (SHFR)	171.5750	15 (162.2)	165.0125	15 (162.2)	
TACTICAL	10 (NIFC TAC7)	168.2500		168.2500		
AIR TO GROUND	13 (A/G TAC)	169.1500		169.1500		

9. Prepared By (Resource Unit Leader) SHANNON SOLIS	Approved By (Planning Section Chief) ARTIE COLSON	Date 06/28/2021	Time 2300
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Division/Group Assignment List (ICS 204 WF)

Controlled Unclassified Information//Basic

1. Incident Name:		3.	
LAVA		Branch:	Division/Group
2. Operational Period:		III	R
Date/Time From: 06/29/2021 0600	TUE	Date/Time To: 06/29/2021 1800	TUE

4. Operations Personnel			
OPERATIONS CHIEF	JEFF HINSON CHANCE TRAUB (T)	DIVISION/GROUP SUPERVISOR	KELSEY LOFDAHL NOLAN ROTH (T)
FIELD SAFETY	PEDRO MARTINEZ		

5. Resources Assigned this Period					
Strike Team / Task Force / Resource Designator	LWD	Leader	Number Persons	Drop Off PT./Time	Pick Up PT./Time
HC2I FOLSOM LAKE C-3	07/06	JASON SCHROEDER	17	LAVA ICP/0600	LAVA ICP/1800
HC2I BRECKENRIDGE C-25	07/12	COREY CORREA	18	LAVA ICP/0600	LAVA ICP/1800
HC2I GFP ENTERPRISES 15D C-15	07/01	TORI MASON	20	LAVA ICP/0600	LAVA ICP/1800
WFM2 GRASS LAKE KNF O-2	07/09	WILLIAM JOHNSON	7	LAVA ICP/0600	LAVA ICP/1800
ES3 S/T LNF 3615C E-33	07/10	BRIAN MARTIN	27	LAVA ICP/0600	LAVA ICP/1800
WTT2 LNF 3 E-7	07/10	HENRY CASE	2	LAVA ICP/0600	LAVA ICP/1800

6. Control Operations/Work Assignments:
 Look for opportunities to go direct to minimize fire spread to the west.

7. Special Instructions:

8. Division/Group Communication Summary						
Function	Channel	RX Frequency N/W	RX Tone/NAC	TX Frequency N/W	TX Tone/NAC	Mode
COMMAND	1 (SHFR)	171.5750	15 (162.2)	165.0125	15 (162.2)	
TACTICAL	8 (NIFC TAC5)	166.7250		166.7250		
AIR TO GROUND	13 (A/G TAC)	169.1500		169.1500		

9. Prepared By (Resource Unit Leader)	Approved By (Planning Section Chief)	Date	Time
NANCY PHILLIPS <i>Nancy Phillips</i>	ARTIE COLSON <i>Artie Colson</i>	06/28/2021	1658

Division/Group Assignment List (ICS 204 WF)

Controlled Unclassified Information//Basic

1. Incident Name:		3.	
LAVA		Branch: V	Division/Group Z
2. Operational Period: DAY			
Date/Time From: 06/29/2021 0600 TUE	Date/Time To: 06/29/2021 1800 TUE		

4. Operations Personnel			
DIVISION/GROUP SUPERVISOR	SHAWN RALEY	AIR ATTACK SUPERVISOR	
OPERATIONS CHIEF	JEFF HINSON	BRANCH DIRECTOR	

5. Resources Assigned this Period					
Strike Team / Task Force / Resource Designator	LWD	Leader	Number Persons	Drop Off PT./Time	Pick Up PT./Time

6. Control Operations/Work Assignments:

7. Special Instructions:

8. Division/Group Communication Summary						
Function	Channel	RX Frequency N/W	RX Tone/NAC	TX Frequency N/W	TX Tone/NAC	Mode
COMMAND	1 (SHFR)	171.5750	15 (162.2)	165.0125	15 (162.2)	
TACTICAL	12 (CDF TAC25)	159.2775	16 (192.8)	159.2775	16 (192.8)	
AIR TO GROUND	13 (A/G TAC)	169.1500		169.1500		

9. Prepared By (Resource Unit Leader) <i>Murray Kelly</i>	Approved By (Planning Section Chief) <i>Arturo Colon</i>	Date	Time
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AIR OPERATIONS SUMMARY (ICS 220)

1. Incident Name: Lava (Siskiyou Helibase)	2. Operational Period: Date From: 6/29/21 Time From: 07:00	3. Sunrise: 05:39	Sunset: 20:46
4. Remarks (safety notes, hazards, air operations special equipment, etc.): TFR Frequency 120.025 Air Attack Over Fire @ 08:30 FireWatch 51 Intelligenc/IR Mapping Available @ 09:00 FireWatch 509 HLCO/IR Mapping Available @ 0830		5. Ready Alert Aircraft: Medicvac: CHF New Incident:	

7. Personnel:	Name:	Phone Number:	Air/Air Rotary-Wing - Flight Following	124.0250	168.3375	169.1500	167.9500	163.100	168.250	TxT1	AA-50
Air Operations Branch Director	Staci Dickson	(530)277-5153	Air/Ground								
Air Support Group Supervisor	Cole Wallace	(907)204-1444	Command								Other Fixed-Wing Aircraft:
Air Tactical Group Supervisor	Jim Gonzalez	(619)607-8642	Deck Coordinator								Misc. Tankers
Helicopter Coordinator	Brian Rogers	(530)310-3506	Take-Off & Landing Coordinator								
Helibase Manager	Ray Wilson	(707)472-8088	Air Guard								

10. Helicopters (use additional sheets as necessary):

FAA N#	Category/Kind/Type	Make/Model	Base	Available	Start	Remarks
1VR	TII	212	Siskiyou		08:00	Bucket
3CH	T1	BV-234	Siskiyou		08:00	Bucket
7CH	TI		enroute		08:00	Bucket
25M	TI	Sky Crane	enroute		08:00	Tank
3JR	TI		enroute		08:00	
3AC	TI	Sky Crane	Siskiyou		08:00	Tank

11. Prepared by: Name: Cole Wallace Position/Title: ASGS(T) Signature: ADAM WALLACE

ICS 220, Page 1 Date/Time: 6/28/21 20:30

Digitally signed by ADAM WALLACE
Date: 2021.06.28 21:56:17 -0700

AIR OPERATIONS SUMMARY (ICS 220)

1. Incident Name: Lava Helibase		2. Operational Period: Date From: 6/29/21 Time From: 07:00		Date To: 06/29/21 Time To: 21:00		
4. Remarks (safety notes, hazards, air operations special equipment, etc.): TFR Frequency 120.025 Air Attack Over Fire @ 08:30 FireWatch 51 Intelligenc/IR Mapping Available @ 09:00 FireWatch 509 HLCO/IR Mapping Available @ 0830		5. Ready Alert Aircraft: Medivac: CHF New Incident:		6. Temporary Flight Restriction Number: Altitude: 10'000', 5 NM Center Point: 41°27'33"N, 122°19'43"W		
7. Personnel:		8. Frequencies:		9. Fixed-Wing (category/kind/type, make/model, N#, base):		
Air Operations Branch Director	Name: Staci Dickson	Phone Number: (530)277-5153	Air/Air Rotary-Wing - Flight Following	AM	FM	
Air Support Group Supervisor	Name: Cole Wallace	Phone Number: (907)204-1444	Air/Ground			
Air Tactical Group Supervisor	Name: Jim Gonzalez	Phone Number: (619)607-8642	Command			
Helicopter Coordinator	Name: Brian Rogers	Phone Number: (530)310-3506	Deck Coordinator			
Helibase Manager	Name: Tyler Detrek	Phone Number: (530)925-9668	Take-Off & Landing Coordinator			
			Air Guard		168.250 TxIT1	
10. Helicopters (use additional sheets as necessary):						
FAA N#	Category/Kind/Type	Make/Model	Base	Available	Start	Remarks
82D	T11	UH-1F	Lava		08:00	Bucket
H506	T11	205++	Lava		08:00	Bucket
2PJ	TI	UH-60	Lava		08:00	Bucket
8AC	TI	S-64	Lava		08:00	Tank
73U	TI	S-61	Lava		08:00	Tank
3TW	TI	UH-60	Lava		08:00	Bucket
509	T11	FireWatch	Lava		08:00	FLIR
11. Prepared by: Name: Cole Wallace		Position/Title: ASGS(T)		Signature: ADAM WALLACE		
ICS 220, Page 1		Date/Time: 6/28/21 20:30		<small>Digitally signed by ADAM WALLACE Date: 2021.06.28 21:45:32 -0700</small>		

HEALTH AND SAFETY MESSAGE

SAFETY starts with **YOU**

We are **ALL** accountable for **SAFE** behaviors

June 29, 2021

INCIDENT: Lava

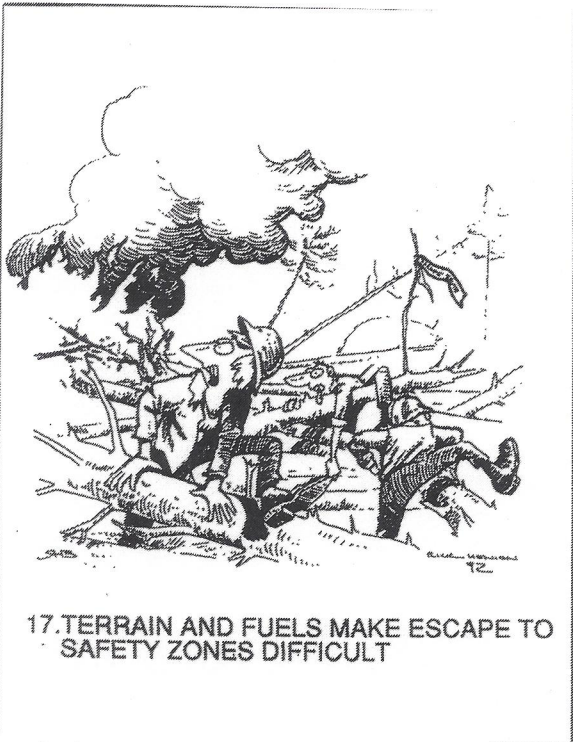
Day Operations:

Major Hazards and Risks:

- **Lava Beds:** Work slowly and ALWAYS wear your gloves. If you trip and fall your hands will have some protection from the lava rock.
- **Hazard Trees:** Assess ALL Trees in Work Areas....In addition to suppression and mop-up operations, assess hazard trees when you take breaks and park vehicles. Check out your IRPG pgs. 22-23.
- **Heat Related Injuries:** Stay Hydrated, drink plenty of fluids, take frequent breaks, and listen to your body.
- **Infectious Disease:** Last year we were very affective at reducing the spread of pathogens, and had virtually no cases of camp crud: aka norovirus. Keep washing your hands often, and avoid community ice chests.
- **Driving:** Practice “defensive driving” and always use headlights and observe posted speed limits.

SAFETY ZONES

Make sure everyone is aware of their locations.



17. TERRAIN AND FUELS MAKE ESCAPE TO SAFETY ZONES DIFFICULT

Establish “Trigger Points” and follow them.

Thanks from your Safety Team!!

Greg Marfil, Nick Bianchini, Pedro Martinez

Risk Management Process

Situation Awareness

Gather Information

- Objective(s) Previous Fire Behavior
- Communication Weather Forecast
- Who's in Charge Local Factors

Hazard Assessment

Estimate Potential Hazards

- Look Up/Down/Around Indicators
- Identify Tactical Hazards

What other safety hazards exist?

Consider severity vs. probability?

Hazard Control

Identify hazard mitigation actions

What other controls are necessary?

Decision Point

Are controls in place for identified hazards?

NO - Reassess situation YES - Next question

Are selected tactics based on expected actions/outcomes?

NO - Reassess situation YES - Next question

Have instructions been given and understood?

NO - Reassess situation YES - Initiate action

Evaluate

Human Factors: Low experience level?


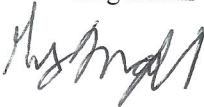

Distracted from primary tasks?

Fatigue or stress reaction?

Hazardous attitude?

OPERATIONAL LEADERSHIP

- **Take Charge** of your resources
- **Motivate** with a “can do it safely” attitude
- **Demonstrate Initiative**...take action
- **Communicate**...give clear, concise instructions
- **Supervise**.....Provide leadership!!

BR/DIV	HAZARDOUS ACTIONS/CONDITIONS	MITIGATIONS/WARNINGS/REMEDIES
All	Lava Beds	<ul style="list-style-type: none"> • Slow down, and be sure of where you are stepping. • Wear gloves at all times to protect your hands from the sharp lava rock. • Flag and identify vertical tubes. • Be cautious when driving through lava beds.
All	Hazard Trees	<ul style="list-style-type: none"> • Follow "Hazard Tree Safety" guidelines, IRPG pages 22-23. • Post lookouts, or use a spotter in mop-up areas with personnel. • Don't park vehicles or take breaks in high concentrations of hazard trees. • Establish trigger points for disengagement during high wind events. • Remember that the hazard zone extends a minimum of 2 1/2 tree heights. • Post road guards when appropriate.
All	Air Operations	<ul style="list-style-type: none"> • Follow "Aviation Watch-Out Situations" on page 46, IRPG. • Don't plan on air resources for medical transport or resupply. • Refer to page 58, IRPG for directing bucket drops. • Ensure positive communication with all air resources. • Ensure Drone Operations are coordinated with air resources
All	Steep Terrain & Rolling Debris	<ul style="list-style-type: none"> • Maintain 8-10' spacing when working and walking. • Don't work above any personnel. • Be on the lookout for rolling rocks, debris, or burning material.
All	Power Utilities	<ul style="list-style-type: none"> • Refer to the IRPG pages 24-25 for Power Line Safety. • Notify all personnel of down electrical lines. • Always treat downed wires as energized. • Identify and avoid high tension transmission lines.
All	Heat Related Injury (HRI)& Dehydration	<ul style="list-style-type: none"> • Drink Fluids throughout operational period (6-8 quarts/shift). • Maintain water/electrolyte ratio of 3 to 1. • Carry extra water on line and cache water at drop points. • Take frequent breaks, minimum of 10 minutes every hour. • Allow out of area resources to acclimate before expecting peak performance. • Recognize symptoms of HEAT RELATED INJURY.
All	Extended Medical Extraction Times	<ul style="list-style-type: none"> • Identify helispots and communicate Lats/Longs to DIVS. • Be familiar with the Medical Plan and communicate 8 line promptly. • Evaluate the necessity to send personnel into areas with limited access. • Be aware of weather conditions (i.e. smoke inversions, high winds etc.), that could affect the ability of helicopters to reach you. • Don't rely on helicopters exclusively.
All	Bees, Ticks, Mosquitoes	<ul style="list-style-type: none"> • Canvas crew members for those with known allergic reactions to stings. • Ensure crew members have medication pens if needed. • Perform daily self-inspection. • Use repellent as necessary. • Advanced Life Support, multi-dose epi and airway protection. • Keep affected area clean and bandaged. • Be extra careful when eating and/or drinking to avoid stings to mouth and throat.
All	COVID-19 Environment	<ul style="list-style-type: none"> • Utilize social distancing (6 feet). Wear a facemask if you can't social distance. • Maintain the "module of one" concept. • Disinfect vehicle interiors, and commonly touched surfaces frequently. • Do not share devices (i.e. cellphones, laptops, radios etc.). • Utilize technology to communicate while maintaining social distance. • Wash your hands frequently.
Incident Name: Lava		Operational Period: Day June 29, 2021
OSC2: Jeff Hinson/Alec lane 	SOF2: Greg Marfil 	Date and Time Prepared: June 28th, 2021 1400 Hours
		

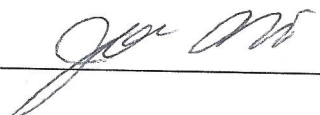
INCIDENT RADIO COMMUNICATIONS PLAN	1. Incident Name LAVA	2. Date/Time Prepared 06/29/2021 2200	3. Operational Period Date/Time 06/29/2021 0600-1800
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4. Basic Radio Channel Utilization

Radio Type/Cache	Channel	Function	Frequency/Tone	Assignment	Remarks
VHF	1	SHFR	RX 171.5750 TX 165.0125 /T15	COMMAND	TONE 15(162.2)
VHF	2	NIFC C1	RX 170.9750 TX 168.7000 /T1	NOT IN USE	TONE 1(110.9)
VHF	3	NIFC C9	RX 170.0125 TX 165.2500 /T1	NOT IN USE	TONE 1(110.9)
VHF	4	NIFC C29	RX 171.5375 TX 164.8625 /T1	NOT IN USE	TONE 1(110.9)
VHF	5	NIFC TAC 2	168.2000 RX/TX	IA ONLY	IA ONLY
VHF	6	NIFC TAC 1	168.0500 RX/TX	DIV A	BRANCH 1
VHF	7	NIFC TAC 3	168.6000 RX/TX	DIV D	BRANCH 1
VHF	8	NIFC TAC 5	166.7250 RX/TX	DIV R	BRANCH 3
VHF	9	NIFC TAC 6	166.7750 RX/TX	DIV H	BRANCH 3
VHF	10	NIFC TAC 7	168.2500 RX/TX	DIV M	BRANCH 3
VHF	11	CDF TAC 24	151.3325 RX/TX TONE 16 (192.8)	DIV T	BRANCH 5
VHF	12	CDF TAC 25	159.2775 RX/TX TONE 16 (192.8)	DIV Z	BRANCH 5
VHF	13	A/G TAC	169.1500 RX/TX	ALL DIVS	AIR/GROUND
VHF	14	A/G CMD	167.9500 RX/TX	ALL DIVS	DIV/BRANCH USE WITH AIR
VHF	15	CALCORD	156.0750 RX/TX TONE 6 (156.7) Both	ALL DIVS	MEDEVAC COORDINATION
VHF	16	AIR GUARD	168.6250 RX/TX TONE 1 (110.9)	ALL DIVS	TONE ON TRANSMIT ONLY

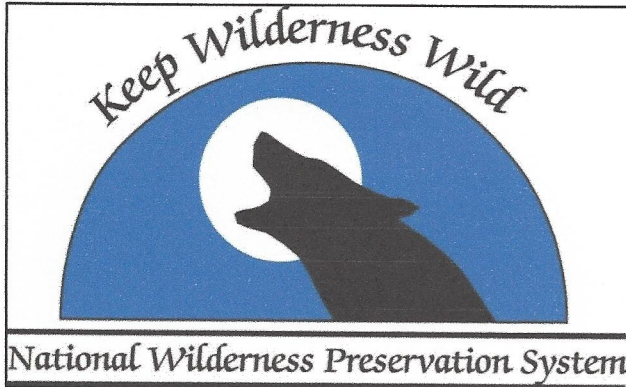
All frequencies are Analog – Narrowband.

5. Prepared by (Communications Unit)



JOE MEHCIZ, COML 661-332-7608

MINIMUM IMPACT SUPPRESSION TECHNIQUES (MIST) – “Do the least damage”



Firefighter and public safety is always the first priority in any suppression action, including operations in wilderness. Use of MIST provides guidelines for preserving wilderness areas for present and future generations.

When evaluating fire management actions, the potential degradation of wilderness character should be considered before, and given significantly more weight than, economic efficiency, and convenience. Unless human life or private property is immediately threatened, only those actions that preserve wilderness character and/or have localized, short-term adverse impacts to wilderness character should be implemented.

MOUNT SHASTA WILDERNESS

FIRELINE CONSTRUCTION

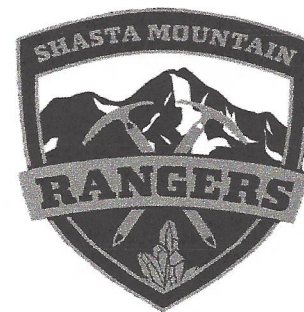
- Take advantage of natural barriers wherever possible.
- Use cold-trail and/or wet line when appropriate.
- If the decision is made to construct line, use only the width and depth necessary for halting the fire spread. Minimize ground disturbance.
- Minimize bucking and cutting of trees to establish fire line; build line around logs when feasible and effective.
- Limb vegetation only to the extent necessary to stop fire spread.
- Avoid cutting live trees whenever possible.
- As an alternative to felling, consider allowing ignited trees and snags to burn themselves out. Ensure adequate safety measures are communicated to those affected by this decision.
- If burning trees or snags pose a serious threat of spreading firebrands, extinguish the fire with water and/or dirt wherever possible.
- Use cross cut saws unless use of chain saws is approved.

AIR OPERATIONS

- Limit retardant or foam use, use water instead. If retardant and foam is appropriate, avoid drops near water.
- Minimize the number of helispots in wilderness. Use alternate sites outside wilderness. Use natural openings as much as possible.
- Size the helispots for the appropriate size helicopter. Consider long line remote hook operations instead of helispots for logistical support.

REHABILITATION

- Remove signs of human activity. Remove signs, flagging, garbage, and equipment.
- Restore disturbed areas.
- Scarify the top 2-4" of soil in heavily compacted areas and scatter needles, twigs, branches, over the area.
- Rehabilitate newly established trails on slopes <6%, water bar trails created on steeper slopes.
- Scatter cut material and camouflage cut surfaces with dirt.
- Do not use non-native materials, avoid introducing invasive species.



Lava Fire Incident Training Program

A TNSP is assigned to this incident and will be performing the majority of duties "virtually".

To receive documented credit for your assignment, scan the QR Code or click on the link below to access and complete the Trainee Registration Form. Once registered you will receive additional instructions via text. For training related questions, call Brad Smith (TNSP) at 209-770-4809 or email bradley_smith@firenet.gov



[Lava Fire - Trainee Registration Form](#)

Human Resource Message

PREVENT SEXUAL HARASSMENT

SEXUAL HARASSMENT at work, including emergency incidents, occurs whenever unwelcome conduct on the basis of gender adversely affects a person's ability to do their job, and contributes to a hostile work environment. Sexual harassment includes, but is not limited to, the following types of conduct:


- Unwelcome sexual advances
- Requests for sexual favors
- Discussing sexual activities
- Telling off-color jokes
- Unnecessary touching
- Displaying sexually suggestive pictures
- Using demeaning or inappropriate terms
- Using indecent gestures
- Using crude and offensive language
- Commenting on physical attributes

“Inappropriate behavior is harassment including sexual and racial harassment and shall not be tolerated” (Fireline Handbook, Chapter 6, Common Responsibilities).

Deputy Incident Commander



Tuesday, June 29, 2021

1. Incident Name		2. Operational Period						
Lava Incident		Date/Time: 6/29/2021 - 6/29/2021 (0600-1800)						
3. EMS / Ambulance Services/Aid Stations/REMS								
Name	Location	Frequency/Phone	Advanced Life Support (ALS) Yes No					
Mountain Medics 4x4 ALS Ambulance (24 hours)	DP 1	Command	X					
Mountain Medics Rapid Extraction Module Support (REMS)	Reference 204 for REMS Location	Command	X					
Mt. Shasta Ambulance	1020 Oak St. Mt. Shasta, CA 96067	Redding ECC	X					
4. Air Rescue / Air Ambulance Services								
Name	Location	Type of Aircraft & Capability						
PHI Air Medical	Redding, CA (530) 221-0646	Type 3 Air Ambulance, ALS						
Reach 5	Redding, CA (800) 252-5050	Type 3 Air Ambulance, ALS						
CHP H14/H16	Redding, CA (530) 225-2040	Type 3, ALS, Hoist (Day Time Only)						
Coast Guard	Arcadia, CA (707) 839-6100	Type 2, ALS, Hoist (Night)						
5. Hospitals (all times estimated from incident location)								
Name & Level	GPS Datum – WGS 84 Degrees Decimal Minutes		Travel Time		Phone	Helipad		Address
	Lat:	Long:	Air MINS	Ground MINS		Yes	No	
Mercy Mt. Shasta Medical Center (Level 3 Trauma)	N 41° 19.117	W 122° 19.203	5	20	(530) 926-6111	X		914 Pine St. Mt. Shasta, CA
Fairchild Medical Center (Level 4 Trauma)	N 41° 43.164	W 122° 38.741	10	35	(530) 842-4121	X		444 Bruce Street Yreka, CA
Shasta Regional Medical Center (Level 3 Trauma)	N 40° 53.72	W 124° 05.45	20	1.25	(530) 244-5400	X		1100 Butte St. Redding, CA
Mercy Medical Center Redding (Level 2 Trauma)	N 40° 34.33	W 122° 23.80	20	1.25	(530) 225-6000	X		2175 Rosaline Ave. Redding CA
U.C. Davis Medical Center (Level 1 Trauma/Burn)	N 38° 33.293	W 121° 27.317	1.75	3.5	(916) 734-3636	X		2315 Stockton Blvd. Sacramento, CA
6. Division / Crew Emergency Pre-Plan						<i>Update and discuss with assigned resources daily.</i>		
Fireline EMT / Medic's Division / Branch Location								
Air Hoist site location site: Lat: / Long: / Elevation:								
Helispot: Lat: / Long: / Elevation:								
7. Prepared By (Medical Unit Leader)		8. Date/Time		9. Reviewed By (Safety Officer)		10. Date/Time		
Mickey Brunelli, MEDL 		6/28/2021 2100		Greg Marfil, SOF2		6/28/2021 2100		

Medical Incident Report

FOR A **NON-EMERGENCY INCIDENT**: WORK THROUGH CHAIN OF COMMAND TO REPORT AND TRANSPORT INJURED PERSONNEL AS NECESSARY.

FOR A **MEDICAL EMERGENCY**: IDENTIFY ON SCENE INCIDENT COMMANDER BY NAME AND POSITION AND ANNOUNCE **"MEDICAL EMERGENCY"** TO INITIATE RESPONSE FROM COMMUNICATIONS

Use the following items to communicate situation to communications/dispatch.

1. CONTACT COMMUNICATIONS / DISPATCH (Verify correct frequency prior to starting report)

Ex: "Communications, Div. Alpha. Stand-by for Emergency Traffic."

2. INCIDENT STATUS: Provide incident summary (including number of patients) and command structure.

Ex: "Communications, I have a Red priority patient, unconscious, struck by a falling tree.

Requesting air ambulance to Forest Road 1 at (Lat./Long.)

"This will be the Trout Meadow Medical Incident, IC is TFLD Jones. EMT Smith is providing medical care."

Severity of Emergency AND Transport Priority (priority 1, 2, 3)	<input type="checkbox"/> RED / PRIORITY 1 Life or limb threatening injury or illness. Evacuation need is IMMEDIATE <i>Ex: Unconscious, difficulty breathing, bleeding severely, 2^o - 3^o burns more than 4 palm sizes, heat stroke, disoriented.</i>	
	<input type="checkbox"/> YELLOW / PRIORITY 2 Serious Injury or illness. Evacuation may be DELAYED if necessary. <i>Ex: Significant trauma, unable to walk, 2^o - 3^o burns not more than 1-3 palm sizes.</i>	
	<input type="checkbox"/> GREEN / PRIORITY 3 Minor Injury or illness. Non-Emergency transport <i>Ex: Sprains, strains, minor heat-related illness.</i>	
Nature of Injury or Illness & Mechanism of Injury		Brief Summary of Injury or Illness (Ex: Unconscious, Struck by Falling Tree)
Transport Request		Air Ambulance / Short Haul/Hoist Ground Ambulance / Other
Patient Location		Descriptive Location & Lat. / Long. (WGS84)
Incident Name		Geographic Name + "Medical" (Ex: Trout Meadow Medical)
On-Scene Incident Commander		Name of on-scene IC of Incident within an Incident (Ex: TFLD Jones)
Crew Patient Care		Name of Care Provider (Ex: EMT Smith)

3. INITIAL PATIENT ASSESSMENT: Complete this section for each patient as applicable (start with the most severe patient)

Patient Assessment: (IRPG PAGE 106)	Age:	Weight:	Chief Complaint:
Skin Signs: (color/moisture/temp)	Level of Consciousness:	BP:	HR: Respirations:
Treatment:			

4. TRANSPORT PLAN:

Evacuation Location (drop point, intersection, helispot, Lat. / Long, hazards)	Patient's ETA to Location:
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5. ADDITIONAL RESOURCES / EQUIPMENT NEEDS:

Paramedic / EMT - Crews - Immobilization Devices - AED - Oxygen - Trauma Bag - IV/Fluid(s) - Splints - Rope rescue - Wheeled litter - HAZMAT - Extrication

6. COMMUNICATIONS: Identify State Air/Ground EMS Frequencies and Hospital Contacts as applicable

Function	Channel Name/Number	Receive (RX)	Tone/NAC *	Transmit (TX)	Tone/NAC *
COMMAND					
AIR-TO-GRND					
TACTICAL					

7. CONTINGENCY: Considerations: If primary options fail, what actions can be implemented in conjunction with primary evacuation method?
Be thinking ahead.

8. ADDITIONAL INFORMATION: Updates/Changes, etc.

REMEMBER: Confirm ETA's of resources ordered. Act according to your level of training
Be Alert - Keep Calm - Think Clearly - Act Decisively
 *** Follow up with MEDL upon return to ICP ***