

**Ruth Incident**  
**Incident Action Plan**  
**September 25<sup>th</sup> – 26<sup>th</sup>, 2011 1800 - 0900**  
**Night Shift**



- **Make sure your trigger points make sense and allow for the effective use of your escape routes to safety zones**
- **Be aware of hazard trees and snags.**
- **Be aware of driving hazards. Narrow and Muddy roads.**
- **PPE – Have it and use it.**

**CA - SRF - 001848**  
**Six Rivers National Forest**  
**Northern California Team 1**

<b>INCIDENT OBJECTIVES</b>	1. Incident Name		2. Date Prepared	3. Time Prepared
ICS 202	<b>Ruth Incident</b>		<b>09/25/2011</b>	<b>1400</b>
4. Operational Period				
<b>09/25-26/11 Night Shift 1800 – 0900</b>				
5. General Control Objectives for the Incident (include alternatives)				
<ol style="list-style-type: none"> <li>1. Provide for firefighter and public safety through application of the risk management process.</li> <li>2. Protect private property and infrastructure. Secure structures within the fire's perimeter and mitigate hazards (fire weakened trees).</li> <li>3. Contain all slopovers and spots east of the South Fork Mountain Road. Hold established fireline. Keep the fire south of Road 2S48, north of a line following Blair Creek and east of containment lines of Division A.</li> <li>4. Minimize loss to spotted owl nesting and roosting habitat. Protect riparian values, especially in the Johnson Glade area. Minimize dozer use in Late Successional Reserves (LSR), east of South Fork Mountain Road.</li> </ol>				
6. Weather Forecast for Period				
See attached spot weather forecast				
7. General Safety Message				
8. Attachments				
x	Organization List-ICS 203		Air Ops Plan ICS-220	x Fire Weather Forecast
x	Division Assignment List-ICS 204	x	Incident Map	x Fire Behavior Forecast
x	Communications Plan-ICS 205		Traffic Plan	Unit Log ICS-214
x	Medical Plan-ICS 206	x	Safety Message	Vicinity Map
9. Prepared by			10. Approved by (Incident Commander)	
Dave Sinclear			Paul Whitcome	

ORGANIZATION ASSIGNMENT LIST		9. Operations Section	
1. Incident Name <b>Ruth Incident</b>		Operations Day Night	Alec Lane Robin Wills
2. Date <b>September 24, 2011</b>		Planning OPS	Bob Patton
3. Time <b>2000</b>		a. Branch 1 - Division/Groups	
4. Operational Period <b>September 25-26, 2011 1800 - 0900</b>		Branch Director	
Position	Name	<b>DAY</b>	9/25
5. Incident Commander and Staff		Division/Group A	Mark Vardanega / Kirkman (T)
Incident Commander	Paul Whitcome	Division/Group B	Dustin Mueller
Deputy	Mike Minton	Division/Group M	Chris Stevens / Tim Memmer (T)
Safety Officer	Jeff Barnhart / Michele Tanzi / Jim Mackensen / Steve Femmel	Division/Group Z	Paul Johnson / John Martinez (T)
Information Officer	Yvonne Jones / Phyllis Swanson	Division/Group	
Liaison Officer	Kent Swartzlander	Structure Group	
6. Agency Representative		b. Branch 2 - Division/Groups	
Agency Admin	Tom Hudson	Branch Director	
Resource Advisor	Dan Dill	<b>NIGHT</b>	9/25 - 9/26
Cal Fire Rep	Fred Flores	Division/Group A	TBA
Trinity County	Bruce Haney, Sheriff	Division/Group B	Unstaffed
Trinity County	Wendy Otto, Board of Supervisors	Division/Group M	Dave Hight
Shasta-Trinity NF Rep	Larry Hayes	Division/Group Z	Jason Jones
7. Planning Section		Division/Group	
Chief	Valery Lambeth	Division/Group	
Deputy	Dave Sinclear	c. Branch III - Division/Groups	
Resources Unit	Gary Deboi / Lou Ann Charbonnier	Branch Director	
Situation Unit	Chris Wikeen / Walter Herzog (T)	Deputy	
Documentation Unit	Kandee Kirkman	Division/Group	
Demobilization Unit	Gary Deboi / Lou Ann Charbonnier	Division/Group	
Technical Specialists		Division/Group	
Human Resources		Division/Group	
Training		d. Air Operations Branch	
CTSP	George Steel	Air Operations Branch Director	Curtis Coots
GIS	Kyle Felker / Matt Dickinson / Scott Powell	Air Attack Supervisor	Dan White
FBAN	John Wood (T)	Air Support Supervisor	
IMET	Jeff Tonkin	Helicopter Coordinator	
8. Logistics Section		Air Tanker Coordinator	
Chief	Paul Montgomery	10. Finance Section	
Deputy	Mike Jellison	Chief	Lois Charlton
Supply Unit / Ordering	Tom Charlton	Deputy	
Facilities Unit	Jeff Huhtala / Frank DelCarlo	Time Unit	
Ground Support Unit	Harry Zabel / Ken Kumpe (T)	Procurement Unit	
Communications Unit	Rick Cartoscelli / Phil Shafer	Compensation/Claims Unit	Debbie McIntosh
Medical Unit	Josh Ramey	Cost Unit	Rachel Corkill (T)
Receiving & Distribution	Fred Johnson	Prepared by (Resource Unit Leader) Gary R. Deboi	
Security Unit	Rhett Imperiale		
Food Unit	Jay Westlake		

<b>DIVISION ASSIGNMENT LIST</b>			1. Branch		2. Division/Group <b>A</b>			
3. Incident Name Ruth Incident			4. Operational Period Date: 9/25-26/11 Time: Night Shift 1800-0900					
5. Operations Personnel								
Operations Chief		Robin Wills		Division/Group Supervisor				
Planning Ops		Bob Patton Curtis Coots (T)		Air Attack Supervisor No.				
6. Resources Assigned this Period								
Strike Team/Task Force/ Resource Designator	Leader		Number Persons	Trans. Needed	Drop Off PT./Time		Pick Up PT./Time	
T2IA Happy Camp 2	Damon McCarthy		20	N	Per DIVS		Per DIVS	
7. Control Operations - Patrol structures in Division A and Z. Mop up around Division perimeters and structures								
Special Instructions: Be sensitive to private property, and report any private citizens within closures								
Function	Frequency RX	Frequency TX	Channel	Function	Frequency RX	Frequency TX	Channel	
Command Direct	168.1000 N	168.1000 N	1	Command Repeat	168.1000 N	170.4500 N	2 Tone 2 123.0	
Tactical Div/Group	167.1125 N	167.1125 N	4	Air to Ground	168.5750	168.5750	12	
Prepared by (Resource Unit Leader) L. Charbonnier			Approved by (Planning Section Chief) Valery Lambeth			Date 9/25/11		Time 1530



<b>DIVISION ASSIGNMENT LIST</b>			1. Branch		2. Division/Group <b>M</b>			
3. Incident Name Ruth Incident			4. Operational Period Date: 9/25-26/11 Time: Night Shift 1800-0900					
5. Operations Personnel								
Operations Chief		Robin Wills		Division/Group Supervisor		Ross Miller		
Planning Ops		Bob Patton Curtis Coots (T)		Air Attack Supervisor No.				
6. Resources Assigned this Period								
Strike Team/Task Force/ Resource Designator	Leader		Number Persons	Trans. Needed	Drop Off PT./Time		Pick Up PT./Time	
ST 9120C	Tom Nix		16	N	Per DIVS		Per DIVS	
High Rock 1	Danial Collins		17	N	Per DIVS		Per DIVS	
High Rock 3	David Tikkanen		15	N	Per DIVS		Per DIVS	
SOFR (Share w/Z)	Durin Quigley		1	N	Per DIVS		Per DIVS	
SOFR (Share w/Z)	Tim Irwin		1	N	Per DIVS		Per DIVS	
EMT - P	Bronson Mills		1	N	Per DIVS		Per DIVS	
EMT - P	Scott Smith		1	N	Per DIVS		Per DIVS	
7. Control Operations Continue line construction where safe to do so. Patrol for spots.								
Special Instructions: Be sensitive to private property, and report any private citizens within closures								
Function	Frequency RX	Frequency TX	Channel	Function	Frequency RX	Frequency TX	Channel	
Command Direct	168.1000 N	168.1000 N	1	Command Repeat	168.1000 N	170.4500 N	2 Tone 2 123.0	
Tactical Div/Group	166.5500 N	166.5500 N	5	Air to Ground	168.5750	168.5750	12	
Prepared by (Resource Unit Leader) L. Charbonnier			Approved by (Planning Section Chief) Valery Lambeth			Date 9/25/11		Time 1530



<b>DIVISION ASSIGNMENT LIST</b>			1. Branch		2. Division/Group <b>Z</b>			
3. Incident Name Ruth Incident			4. Operational Period Date: 9/25-26/11 Time: Night Shift 1800-0900					
5. Operations Personnel								
Operations Chief		Robin Wills		Division/Group Supervisor		Jason Jones		
Planning Ops		Bob Patton Curtis Coots (T)		Air Attack Supervisor No.				
6. Resources Assigned this Period								
Strike Team/Task Force/ Resource Designator	Leader		Number Persons	Trans. Needed	Drop Off PT./Time		Pick Up PT./Time	
Eel River 1	Brian Morrissy		17	N	Per DIVS		Per DIVS	
Eel River 2	Robert Murias		14	N	Per DIVS		Per DIVS	
Alder 3			17	N	Per DIVS		Per DIVS	
High Rock 5	Brian Renner		14	N	Per DIVS		Per DIVS	
STLC	TBA		1	N	Per DIVS		Per DIVS	
STLC	TBA		1	N	Per DIVS		Per DIVS	
SOFR (Share w/M)	Durin Quigley		1	N	Per DIVS		Per DIVS	
SOFR (Share w/M)	Tim Irwin		1	N	Per DIVS		Per DIVS	
7. Control Operations - Hold and improve existing handline. Mop-up 50' in from perimeter.								
Special Instructions:								
Function	Frequency RX	Frequency TX	Channel	Function	Frequency RX	Frequency TX	Channel	
Command Direct	168.1000 N	168.1000 N	1	Command Repeat	168.1000 N	170.4500 N	2 Tone 2 123.0	
Tactical Div/Group	168.0500 N	168.0500 N		Air to Ground	168.5750	168.5750	12	
Prepared by (Resource Unit Leader) L. Charbonnier			Approved by (Planning Section Chief) Valery Lambeth			Date 9/25/11		Time 1530



## Ruth Incident Weather Forecast

FORECAST NO: 1 N  
PREDICTION FOR: Sunday Night Shift

NAME OF FIRE: Ruth Fire  
UNIT: SRF Mad River RD

SHIFT DATE: Sep 25<sup>th</sup>, 2011  
FORECAST ISSUED: 1100 Sep 25<sup>th</sup>, 2011

Incident Meteorologist: Jeff Tonkin

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### WEATHER DISCUSSION:

Pacific trough of low pressure will keep the fire area under a generally cool and moist air mass through Monday. Good rh recovery and very light winds can be expected tonight and Monday night. High pressure returns on Tuesday for a warming and drying trend.

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### WEATHER FORECAST TONIGHT (SUNDAY NIGHT SHIFT):

**WEATHER:** Partly cloudy and cool. Early morning fog along the Mad River valley bottom possible.

**MIN TEMPERATURES:** 42 - 46.

**MIN HUMIDITY:** Near 100%

**WINDS (EYE LEVEL):**

**RIDGETOP -** West 4 to 6 mph early evening...becoming East or Northeast 1 to 2 mph after midnight.

**VALLEY -** Southwest or upslope 4 to 8 mph...gusts to 12 mph until 2000 PDT...then downslope or northeast 1 to 2 mph.

**STABILITY / INVERSION:** Stable. Morning valley inversion near 3500 ft.

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### WEATHER FORECAST MONDAY NIGHT:

**WEATHER:** Clear.

**MIN TEMPERATURES:** 45-50.

**MAX HUMIDITY:** 70-80%.

**WINDS (EYE LEVEL):**

**RIDGETOP -** East or Northeast 1 to 2 mph.

**VALLEY -** Northeast or Downslope 1 to 3 mph.

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**OUTLOOK FOR TUESDAY NIGHT:** Clear and slightly drier. Temps: 46 to 51 . RH: 60-70% Wind: Mainly east 1 to 2 mph ridges.

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**EXTENDED FORECAST FOR WEDNESDAY THROUGH FRIDAY:** Clear..warmer and drier. Stronger offshore wind. East or downslope winds 3 to 5 mph...gusts to 10 mph after midnight. Temps...50 to 60. Max RH 50-60%.

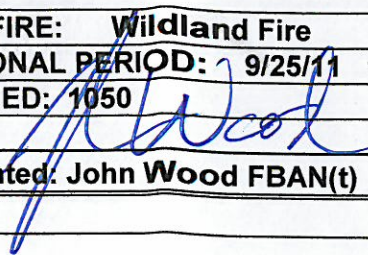
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**Observations from Yesterday (Thursday):**

	<u>Min T</u>	<u>Max RH</u>	<u>Wind Dir.</u>	<u>Wind Speed / Gust</u>
Ruth RAWS (2700 ft) :	52	100%	NE	1-2 mph / none



# FIRE BEHAVIOR FORECAST

FORECAST NUMBER:	TYPE OF FIRE: <b>Wildland Fire</b>
FIRE NAME: <b>Ruth</b>	OPERATIONAL PERIOD: <b>9/25/11 1800 - 0900</b>
DATE ISSUED: <b>9/25/11</b>	TIME ISSUED: <b>1050</b>
UNIT: <b>Six Rivers N.F.</b>	SIGNED: 
	Typed/printed: <b>John Wood FBAN(t)</b>

## INPUTS

WEATHER SUMMARY: See attached fire wx forecast.

## OUTPUTS

### FIRE BEHAVIOR

#### GENERAL:

The most significant influence to fire behavior is the rain that occurred over the fire area. Precipitation amounts were approaching a quarter of an inch. Rain in those amounts will effectively stop fire spread in the fine fuels until they dry enough to carry fire again. Because of their fast reaction time we should start to see an increase in fire behavior as the drier air mass moves in over the next 12 to 24 hours. Heavy fuels will continue to burn even after being wet by this rain. Precipitation was not significant enough to put the fire out.

Live fuel moistures are near 120%. The fine fuel moistures calculated to a range of 10-13%, where they were not directly made wet by the rain. Probability of ignition is predicted at just under 20% today where fuels were sheltered from the rain. Potential spotting distances were modeled up to .1 mile where fuels are receptive.

Remember that fine fuels (grasses, pine needles and small twigs) can change rapidly with as conditions change. Even with rain, cured grass can become available to burn in a short time period; this can be sped up by wind and/or a dry air mass.

**SPECIFIC: Div. A-** The fire made its run through this area under good conditions for burning. Look for duff and fuels below the duff burning. Spots outside the line and smokes in the interior may be difficult to see until the relative humidity gets low enough to encourage burning.

**Div B-** A large piece of this Division burned yesterday. Watch for jackpots still holding heat and dense stands of firs where fuels were sheltered from the rain. Fire activity will start to show in those locations before more exposed areas.

**Div Z-** Crews were still working active fire edge on this Division during day shift and conditions will be similar to Div B, where jackpots and dense fir stands will be areas to keep an eye on.

**Div M-** The fire crossed the ridge later in the evening last night and with significant energy (burning well). This set the stage for spotting and lack of a clean black edge. Precipitation and higher relative humidity will make spots difficult to see, expect spots to show more readily as fuels dry.

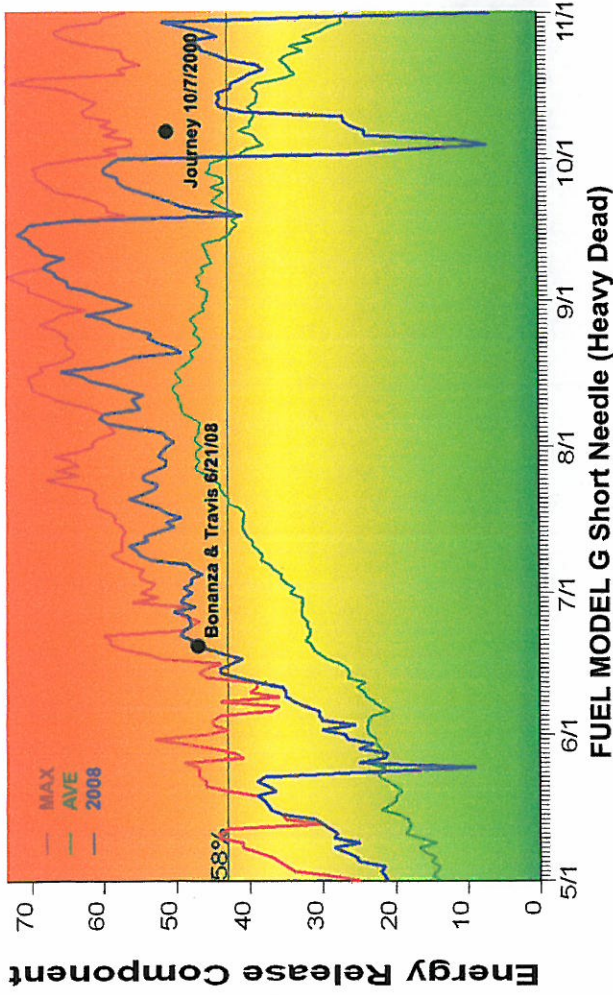
AIR OPERATIONS: N/A

## SAFETY

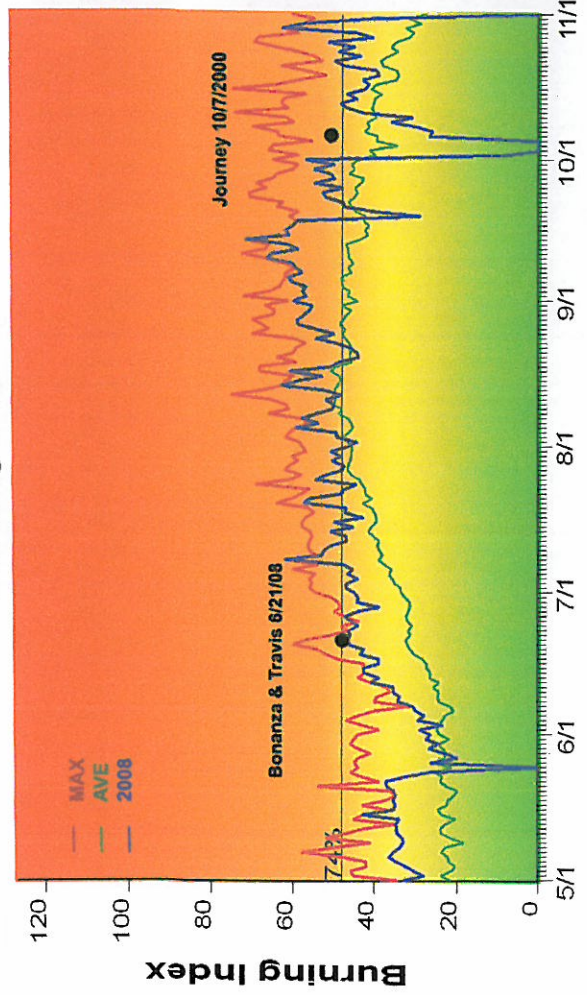
Wet soil may increase the probability of fire weakened trees and snags coming down.



## Fire Danger Rating Area 130 Energy Release Component



## Fire Danger Rating 130 Burning Index

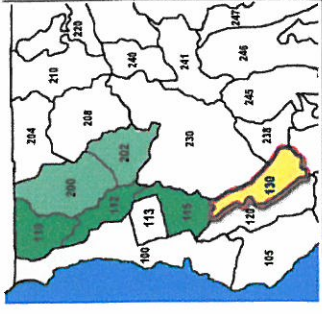


### Fire Danger Area 130:

- \* Mad River Ranger District
- \* Six Rivers National Forest
- \* NW CA - Region 5

### Weather Stations Used:

- \* 040507 Mad River (NFDRS)
- \* 040508 Ruth (NFDRS)



## Local Thresholds - WATCHOUT:

Combinations of any of these factors can greatly increase fire behavior: 20' Windspeed over 6 mph; RH less than 19%; Temperature over 90; 1000-hour Fuel Moisture less than 14. Large fires become more frequent when BI exceeds 48 and when ERC exceeds 43.

### Graph Interpretation, Energy Release Component:

Maximum = Highest ERC by day for 1979-2009  
Average = Shows Peak Fire Season  
58% = 58th Percentile means 58% of all days observed had an ERC below 43.

## PAST EXPERIENCE / LOCAL KNOWLEDGE:

Wildfires become a problem @ 50 acres on the Six Rivers NF due to topography, fuels, and accessibility ('Large fires' = 50 acres).

Large fires become more frequent when 1000 hour fuel moistures drop below 14.  
Large fires become more frequent when BI exceeds 48.  
Large fire become more frequent when ERC exceeds 43.  
(large fires can and do occur at lower indices)

Afternoon winds W/NW along Ruth Lake Corridor greatly influence direction of fire spread in the area.

South Fork Mountain affects weather in the area: Funnels the wind and influences thunderstorm development and movement.

Other Watchouts not related to weather and indices; dangers associated with marijuana gardens and arson fires.

### Graph Interpretation, Burning Index:

Maximum = Highest BI by day for 1979-2009  
Average = Shows Peak Fire Season  
74% = 74th Percentile means 74% of all days observed had a BI below 48.



<b>INCIDENT RADIO COMMUNICATIONS PLAN</b>		Incident Name <b>RUTH INCIDENT CA-SRF-001848</b>		Date/Time Prepared 9/25/2011 0900	Operational Period Date/Time Night Shift 9/25/11, 1800-0900
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**Only frequencies listed on this 205 are authorized for use on this incident.**

Ch #	Function	Channel Name	Assignment	RX Freq N/W*	RX Tone	TX Freq N or W	TX Tone	Mode	Remarks
1	COMMAND	NIFC C-2	ALL DIVISIONS	168.1000 N		168.1000 N		A	Car to car direct
2	COMMAND	NIFC C-2 RPT	ALL DIVISIONS	168.1000 N		170.4500 N	123.0	A	MUST USE Tone 2 (123.0)
3	TACTICAL	NIFC TAC-1	DIVISION Z	168.0500 N		168.0500 N		A	
4	TACTICAL	USFS R5 TAC-5	DIVISION A	167.1125 N		167.1125 N		A	
5	TACTICAL	USFS R5 TAC-4	DIVISION M	166.5500 N		166.5500 N		A	
6	TACTICAL	NIFC TAC-5	DIVISION B	166.7250 N		166.7250 N		A	
7	COMMAND	NIFC C-9 RPT	UNASSIGNED	170.0125 N		165.2500 N	100.0	A	MUST USE TONE 9 (100.0)
8	TACTICAL	NIFC TAC-3	STRUCTURE GROUP	168.6000 N		168.6000 N			
9	IA DISPATCH	SRF DIRECT	ALT COMMAND if C-2 FAILS	168.7250 N		168.7250 N		A	FORTUNA
10	IA DISPATCH	SRF REPEAT	ALT COMMAND if C-2 FAILS	168.7250 N		170.1250 N	156.7	A	Use Tone 6 (156.7)
11	TACTICAL	NIFC TAC-2	FS IA TACTICAL	168.2000 N		168.2000 N		A	
12	A/G TACTICAL	AIR TO GROUND	ALL DIVISIONS	168.5750 N		168.5750 N		A	
13	MEDI-VAC	CALCORD	ALL DIVISION	156.0750 W		156.0750 W		A	
14	EMERGENCY	AIR GUARD	ALL DIVISIONS	168.6250 N		168.6250 N	110.9	A	TONE 1 USED FOR EMERGENCY OR INITIAL CONTACT WITH AIRCRAFT
15									
16	EMERGENCY	AIR GUARD	ALL DIVISIONS	168.6250 N		168.6250 N	110.9	A	TONE 1 USED FOR EMERGENCY OR INITIAL CONTACT WITH AIRCRAFT

5. Prepared by *[Signature]* Nor Cal Team 1, COML

Incident Location  
County State: TRINITY, CA, ID      Fire Latitude 40 16.21N      Longitude 123 18.98W

<b>MEDICAL PLAN</b>	1. Incident Name	2. Date Prepared	3. Time Prepared	4. Operational Period					
	<b>Ruth Fire</b>	09/25/11	1100	09/25/11 1800-2100					
<b>5. Incident Medical Aid Station</b>									
Medical Aid Stations		Location			Paramedics Yes No				
Medical Unit - Frontline Ph:530-258-9155		Ruth ICP - N 40°12.29 / W 123°17.78			<b>X</b>				
<b>6. Transportation</b>									
<b>AIR Ambulance Services</b>									
Name		Address		Phone		Paramedics Yes No			
REACH *NVG		3775 Flight Ave. Redding, CA. 96003		911		<b>X</b>			
Mercy Air ( PHI ) *NVG		1524 East St. Redding, CA 96001		911		<b>X</b>			
CHP hoist with 165' line		Benton Airfield, Redding, CA		911		<b>X</b>			
H506 – Designated Medivac		Ruth helibase (530-605-7336)		Ruth Communications		<b>X</b>			
<b>Ground Ambulance Services</b>									
Name		Location			Paramedics Yes No				
STAR 304 (Incident Amb.)		Ruth ICP (cell: 707-499-1865)			<b>X</b>				
STAR 305 Ambulance		Mad River, CA			<b>X</b>				
Fortuna Ambulance		Fortuna, CA			<b>X</b>				
Trinity County Ambulance					<b>X</b>				
<b>7. Hospitals</b>									
Name	Address		Travel Time Air Ground		Phone	Helipad Yes No		Burn Center Yes No	
Southern Trinity Clinic	Van Duzen Rd., Mad River, CA		n/a	45 min.	707-574-6421 (emergency) or 707-574-6616		<b>X</b>		<b>X</b>
Mad River Comm. Hospital	3800 Janes Rd. Arcata, CA. 95521 N 40° 53.45 / W 124° 05.25		30 min.	2.5 hrs.	707-826-8264	<b>X</b>			<b>X</b>
St. Joseph Hospital	2700 Dolbeer St. Eureka, CA. N 40° 47.0 / W 124° 08.08		30 min.	2.5 hrs.	707-445-8121	<b>X</b>			<b>X</b>
Mercy Medical Level 2 Trauma	2175 Rosaline Ave, Redding N 40° 34.29 / W 122° 23.67		40 Min.	3.5 hrs.	530- 225-6000 530- 597-9571	<b>X</b>			<b>X</b>
UC Davis Level I Trauma/Burn Cntr.	2315 Stockton Blvd. Sacramento N38 33.17 / W 121 27.05		1.5 hrs.	5.5 hrs.	916- 734-3636 916- 734-3790	<b>X</b>		<b>X</b>	
<b>8. Medical Emergency Procedures</b>									
<input type="checkbox"/> Contact Ruth communications and declare a medical emergency on Command, advising your location and situation <input type="checkbox"/> The closest Division Supervisor will respond to the location to take control and direct necessary actions <input type="checkbox"/> The closest Safety Officer and EMTs will respond to the location to assist with patient care <input type="checkbox"/> Use the attached Injury/Incident Communications Worksheet to coordinate appropriate care and transportation <input type="checkbox"/> Secure the scene area and identify witnesses for later investigation – Keep a log									
Prepared by (Medical Unit Leader) Josh Ramey MEDL 530-277-1213 <i>Joshua Ramey</i>					10. Reviewed by (Safety Officer) Jeff Barnhart SOF2 <i>Jeff Barnhart</i>				

## Injury or Incident Communications Protocol

Location \_\_\_\_\_

Situation \_\_\_\_\_

Any special equipment required \_\_\_\_\_

Number of injured \_\_\_\_\_ Type of injuries \_\_\_\_\_

Immediate transport required: Yes No Best method: Ambulance Helicopter Vehicle

Closest pick up point (DP, Helispot) \_\_\_\_\_

LOC \_\_\_\_\_ Resp. \_\_\_\_\_ Pulse \_\_\_\_\_ BP \_\_\_\_\_ Weight \_\_\_\_\_

Injury \_\_\_\_\_

Medical History/Allergies \_\_\_\_\_

**Air Transportation Triage      Contact EMS Helicopters on CALCORD freq.**

	Air Ambulance	Transport to Med Unit
<b>Mechanism</b>	Struck by tree Fall of 10' or more Snake bite with pain and swelling Insect bite with shortness of breath Signs of heat stroke (hot, dry, disoriented) Burn Injury greater than 1% body area	Minor dehydration Cut or laceration with bleeding controlled Minor bites and Stings Minor burns
<b>Area Injured</b>	Significant Blunt or Penetrating Trauma to Head, Neck, Chest, Abdomen or pelvis Any Arm or Leg fracture	Minor blunt trauma Minor penetrating trauma Extremity sprains and strains
<b>Symptoms</b>	Disoriented Chest Pain or Shortness of Breath Weak or absent radial pulse Pale, cold and sweating	Alert and oriented No shortness of breath Good pulses

### Medivac Sites

Ruth ICP - N 40°12.29 / W 123°17.78

### If air or ground ambulance is DELAYED:

Package and transport patient to rendezvous with Incident Ambulance. Re-route EMS helicopter to rendezvous point as appropriate.

### If Declaring an "Incident within the Incident"

The closest DIVS will respond to manage the incident. They are responsible for giving an accurate size up, ensuring scene safety, setting priorities and initiating an appropriate response.

The closest Safety Officer and Line EMS will respond to the scene to assist the Branch Director or DIVS. Secure site and begin initial investigation when situation is stabilized.



## Ruth Incident Risk Analysis (215a)

Div.	LCES Analysis of Tactical Applications (Hazardous Actions or Conditions)	LCES Mitigations/Warnings/Remedies
All	Communications	Use human repeaters <b>when necessary</b> . Inform Communications Unit of "dead zones".
A, B, & Z	Weakened power poles and electrical lines down	Identify and flag areas. Notify PG&E through Division. Treat all down powerlines as live. Review page 22 in the IRPG for powerline safety.
All	Illegal Plantations	Be aware if illicit growing operations. If you find one, vacate the area and notify DIVS of the location. Do not attempt to pass through or skirt the plantation
All	Snag and Hazard Trees	Review page 20 of the IRPG. Flag hazardous trees and direct traffic out of hazardous areas. Only proceed into areas that have had snag hazards mitigated.
All	Narrow, Dusty or Muddy Roads	Keep speeds slow, headlights on, and don't tailgate. Allow dust to settle for better visibility. If the road is muddy use judgment before attempting travel. Be aware that sunrise and sunset hours can reduce visibility.
All	Heat Related Injuries	Drink a minimum of 1 quart per hour during arduous duties. Stay hydrated
All	Escape Routes to Safety Zones	Identify trigger points with your crew and DIVS. Make them known.
All	Snakes and other Critters	Maintain awareness of your work area. Don't explore areas known to inhabit rattle snakes (rock piles, culverts, etc.). Be aware of and on the lookout for bees.
All	Difficult terrain and conditions for providing for emergency medical needs.	<b>Review Med Plan before the need arises.</b> Limit high risk activities. Identify heli-spot/emergency landing zones with Lat & Longs.

Date & Time Prepared: September 25<sup>th</sup> 2011 @ 0800 hrs

Operational Period: September 25<sup>th</sup>, 26<sup>th</sup>, 2011 from 1800 - 0900 hrs

Prepared By: Jeff Barnhart, SOF2

CA-SRF-001848

**Six Rivers National Forest**

Northern California Incident Management Team 1

# Six Minutes For Safety

Today's discussion is from the Miscellaneous Category.

## HAZARD MITIGATION THROUGH RISK MANAGEMENT

—Risk Management doesn't get in the way of doing the mission – *it is the way we do the mission.* The Risk Management Process assists in ensuring that critical factors and risks of the fireline work environment are considered during decision making. Good risk management utilizes a five-step process:

### Step 1—Situational Awareness:

Obtain information.

Scout the fire.

Identify hazards—those likely to result in a negative impact.

Consider all aspects of current and future situations.

Consider known historical problem areas (Apply information from the Fire Danger Pocket Card.).

Recognize the need for action.

Demonstrate ongoing awareness of fire assignment status.

Note deviations.

Attempt to determine why discrepancies exist with information before proceeding.

### Step 2—Hazard Assessment:

Assess hazards to determine risks (e.g., fire behavior, snags, unburned fuels, work/rest).

Use the Look Up, Down, and Around; and the Tactical Watch Outs (both located in the Incident Response Pocket Guide) to identify high-risk tactical hazards.

Assess the impact of each hazard in terms of potential loss, cost, and mission/operational degradation based on probability and severity (probability—how likely an event will occur; severity—consequences if the event occurs). Keep in mind that increased exposure time increases probability.

### Step 3—Hazard Control:

Determine the best approach to mitigate or control the risk from the hazards assessed.

Establish controls (e.g., anchor point, LCES, utilize downhill checklist, limit exposure time).

As control measures are developed, reevaluate each risk until it is reduced to a level where benefits outweigh potential costs.

### Step 4—Decision Point (decision to accept or not accept the risk(s) associated with an action):

Consider whether controls are in place for identified hazards, whether selected tactics are based on expected fire behavior and if instructions have been given and understood.

Make certain the decision is made at the appropriate level; if not, then elevate to a higher level.

Reject the action if the risk is unacceptable.