

*ORIGINAL REPORT SENT TO J. Zymaniak
WD-Boise via web
@ 6/25/07 ~200*

Wildland Fire Situation Analysis

WFSA Information

WFSA Number: 1 **Jurisdiction(s):** USFS LTBMU
Fire Name: Angora **Geographic Area:** Angora Ridge
Incident Number: **Unit:** LTBMU
Date/Time Prepared: 6/24/2007 1600 **Accounting or Management Code:** P5DKN9

Fire Situation

Start Date/Time: 6/24/2007 1300

Current Fire Size: 2400 acres

Fuel Conditions

Heavy surface fuels on the south face of Angora Ridge. Fuel model throughout the area is FM 10.

Energy Release Component is at or near 98th percentile. 1 and 10 hour fuels have been dried to critical levels by current winds over the weekend.

Topography

Steep, south and north facing slopes along Angora Ridge

Jurisdiction and Land Ownership in the Fire Area

National Forest near point of origin, private land with residences along Fallen Leaf lake, Angora highlands, North Upper Truckee, and west side of Tahoe Valley.

Fire Behavior - Current and Forecast

The potential for extreme fire behavior exists given the present ERC indices coupled with low live fuel moisture. Probability of ignition for spotting is 90%. Dead fuels and live fuels are receptive to high intensity slope or wind driven runs.

Forecast Weather (3 and 10 day) and Current Seasonal Conditions

Red flag warning in effect until 9 pm. SUNDAY Monday night. Monday night temps 31-41, max humidity 50-60% 20 foot winds 15 to 20 mph with gusts up to 35 mph becoming southwest 6-12 after midnight

MONDAY Max temps 69-79, Min humidity 10-20%, winds east 10-15 shifting to northwest in the afternoon.

MONDAY night temps 35-45, Min humidity 35-45, winds northwest 6-12, shifting to the northeast after midnight

TUESDAY Max temps 79-84, Min humidity 11-21%, winds upslope 3-7 mph becoming southwest 10-15 mph in the afternoon.

Extended forecast Tuesday night clear, lows 40-50, west winds 10-15 mph. Wednesday clear. Highs 76-80, lows 41-51. Southwest winds 10 to 20 mph.

Thursday through Friday, partly cloudy, highs 74-79, lows 39-49, west winds 10-20

Saturday, partly cloudy highs 72-77, lows 36-46,

National and Regional Fire Preparedness, and Suppression Resource Availability

Regional Preparedness 2 and a national preparedness level of 2. There is no apparent shortage of critical resources such as Type 1 Crews, aircraft, and Type 3 engines.

Decision Summary

Selected Alternative

A. Best Case

Most Cost Effective Alternative: A. Best Case

Selected Alternative Description

Keep fire west of majority of North Upper Truckee subdivision and west of Lake Tahoe Blvd from Sawmill road to Y, south of Hwy 89 from Y to Fallen Leaf Lake Rd, east of Fallen Lake Road from Hwy 89 to Glen Alpine Road, south of Glen Alpine Rd, North of Wilderness Boundary to Echo Peak, North of Echo and Flagpole Pk ridge, west of Hwy 50 from Echo Pass to North Upper Truckee Road.

Direct/indirect tactics.

Aggressive tactics can be used to protect residential and commercial areas.

Keep fire west of majority of North Upper Truckee subdivision and west of Lake Tahoe Blvd from Sawmill road to Y, south of Hwy 89 from Y to Fallen Leaf Lake Rd, east of Fallen Lake Road from Hwy 89 to Glen Alpine Road, south of Glen Alpine Rd, North of Wilderness Boundary to Echo Peak, North of Echo and Flagpole Pk ridge, west of Hwy 50 from Echo Pass to North Upper Truckee Road.

Rationale for selecting this alternative


Best case scenario minimizes risk to high value residential and commercial structures, as well as USFS developed recreation sites and valuable heritage resource facilities. Estimate potential for 400 residential structures lost in this alternative vs. 800 in worst case. This alternative is also most cost/effective. (\$30 Mill. vs. \$57 Mill)

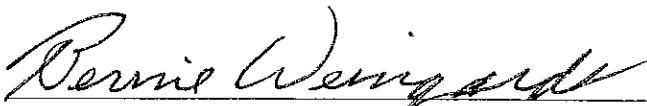
WFSA revision or amendment thresholds and protocol

Critical fire management resources

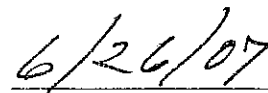
Special considerations

Analysis prepared by:





Agency Administrator Approval



Date/Time

Daily Review

\$30,000,000 7,400

Estimated target suppression cost and size

National Preparedness Level	Regional Preparedness Level	Suppression cost to date	Size to date	Selected alternative remains valid (Y or N)	By	Date	Time
2	2	*	2,500	Y	<i>[Signature]</i>	6/25	
2	2	2.5M	3100	Y	<i>[Signature]</i>	6/26	

Final Review

The elements of the selected alternative were met on:

Date: _____ Time: _____

By: _____
Agency Administrator

** Due to Initial Attack and systems failures with ROSS accurate costs are currently being worked on.
 6/25/07*

Values at Risk

Item	Value at Risk (\$)
Residences Residences: Best Case = 400 Worst Case = 2000	1,300,000,000
Electronic Sites	100,000
Commerical Sites Commercial estimated at twice residential value.	2,600,000,000
Total value at risk (rounded)	<hr/> 3,900,000,000

Resource Management Objectives

Fallen Leaf

In the WUI defense zone, management activities (fire suppression) are focused on protecting life and property (SNFP ROD).

In the Wildland Urban Interface FMU, the Appropriate Management Response is full suppression (LTBMU Fire Management Plan).

Firefighter and public safety are the highest priority (LTBMU Fire Management Plan).

Protect Forest investments and campgrounds, from threat of damage from wildland fire (LTBMU Fire Management Plan).

Maximize protection of interface areas and private lands (LTBMU Fire Management Plan).

Implement suppression strategies to provide the least possible adverse impact to cultural resources (LTBMU Fire Management Plan).

Use MIST tactics in all LRMP defined recreation areas (LTBMU Fire Management Plan).

Implement suppression strategies to provide the least possible adverse impact to cultural resources (LTBMU Fire Management Plan).

Objectives

Objective	Priority (high=10)	Weight
Environmental		
Goshawk PACs Minimize loss to habitat at 30%. North PAC highest priority.	5	0.12
Spotted owl PAC Minimize loss to 40%	5	0.12
Riparian areas Minimize sediment impacts and loss of riparian habitat.	3	0.07
Sensitive plant Meesia triquitra m. uliginosa located on View Circle	3	0.07
willow flycatcher Minimize damage to 5 acres of nesting habitat located in Washoe Mdw. State Park, near east San Bernardino St.	3	0.07
Social		
Developed Recreation Protect Fallen Leaf Lake Campground, Angora Lakes Resort, Camp Richardson, Visitor Center, Valhalla, Baldwin Riding Stables.	5	0.12
Urban Interface Keep loss of structures to a minimum after first 24 hours of fire suppression.	10	0.23
Cultural		
Heritage Sites No impacts to Angora Lookout, protect within reasonable cost/safely. Protect Camp Richardson, Valhalla, the Estates. Save 50% of other known heritage resource features within the area.	9	0.21

Safety Issues

Safety Issues

Public Safety

Evacuate all residences and recreation use areas at risk. Maintain evacuation routes. Implement necessary closures at recreation sites/facilities.

Firefighter Safety

Steep, inaccessible terrain and snag potential. Numerous structures at risk. Entire fire is in WUI.

Aircraft Safety

High winds, steep terrain, powerlines, above ground obstacles.

Alternatives

Alternative A. Best Case

Keep fire west of majority of North Upper Truckee subdivision and west of Lake Tahoe Blvd from Sawmill road to Y, south of Hwy 89 from Y to Fallen Leaf Lake Rd, east of Fallen Lake Road from Hwy 89 to Glen Alpine Road, south of Glen Alpine Rd, North of Wilderness Boundary to Echo Peak, North of Echo and Flagpole Pk ridge, west of Hwy 50 from Echo Pass to North Upper Truckee Road.

Direct/indirect tactics.

Aggressive tactics can be used to protect residential and commercial areas.

Target Outcome

Keep fire west of majority of North Upper Truckee subdivision and west of Lake Tahoe Blvd from Sawmill road to Y, south of Hwy 89 from Y to Fallen Leaf Lake Rd, east of Fallen Lake Road from Hwy 89 to Glen Alpine Road, south of Glen Alpine Rd, North of Wilderness Boundary to Echo Peak, North of Echo and Flagpole Pk ridge, west of Hwy 50 from Echo Pass to North Upper Truckee Road.

Extreme Outcome

Probability: 90%
Final Fire Size: 7400 acres
Time to Contain: 7 days
Time to Control: 14 days

Probability: 10%
Final Fire Size: 0 acres
Time to Contain: 0 days
Time to Control: 0 days

Alternative B. Worst Case

Keep fire west of of Echo Creek, west of Hwy 50 from Echo creek to Upper Truckee River, west of Upper Truckee River to Lake Tahoe, south of Lake Tahoe to Cascade Creek, east of eastern ridge above Cascade Lake to wilderness boundary, east of wilderness boundary to Glen Alpine Creek, north of wilderness boundary to Echo Peak, north of ridge between Echo Peak/Flagpole Peak to Echo Creek.

Direct/indirect tactics.

Aggressive tactics can be used to protect residential and commercial areas.

Target Outcome

Keep fire west of of Echo Creek, west of Hwy 50 from Echo creek to Upper Truckee River, west of Upper Truckee River to Lake Tahoe, south of Lake Tahoe to Cascade Creek, east of eastern ridge above Cascade Lake to wilderness boundary, east of wilderness boundary to Glen Alpine Creek, north of wilderness boundary to Echo Peak, north of ridge between Echo Peak/Flagpole Peak to Echo Creek.

Extreme Outcome

Probability: 99%
Final Fire Size: 18900 acres
Time to Contain: 14 days
Time to Control: 21 days

Probability: 1%
Final Fire Size: 0 acres
Time to Contain: 0 days
Time to Control: 0 days

Estimated Suppression Costs

Alternative A. Best Case

Target Outcome

Estimated suppression cost: \$29,600,000

Basis for cost estimate:
Historic average cost per acre

Extreme Outcome

Estimated suppression cost: \$7,900,000 ✓

Basis for cost estimate:

Alternative B. Worst Case

Target Outcome

Estimated suppression cost: \$56,700,000

Basis for cost estimate:
Historic average cost per acre

Extreme Outcome

Estimated suppression cost: \$7,900,000 ✓

Basis for cost estimate:

AAC Tables

Fire Management Unit: UB-URBAN-1

From	To	Cost
0	0.25	\$8222
0.26	10.00	\$5274
11.00	100.00	\$5274
101.00	300.00	\$5274
301.00	1,000.00	\$4029
1,001.00	10,000.00	\$4000
10,001.00	9,999,999.00	\$3000

Values Protected

Note: Outcome values are rounded to 3 significant digits counting from the left.
Totals are rounded to 2 significant digits.

Alternative A. Best Case

Item	Values At Risk	Protected in Target Outcome (90%)	Protected in Extreme Outcome (10%)	Expected Values Protected
Residences	1,300,000,000	1,040,000,000	1,300,000,000	
Electronic Sites	100,000	0	100,000	
Commerical Sites	2,600,000,000	2,600,000,000	2,600,000,000	
Total (rounded)	\$3,900,000,000	\$3,600,000,000	\$3,900,000,000	\$3,600,000,000

Alternative B. Worst Case

Item	Values At Risk	Protected in Target Outcome (99%)	Protected in Extreme Outcome (1%)	Expected Values Protected
Residences	1,300,000,000	780,000,000	1,300,000,000	
Electronic Sites	100,000	0	100,000	
Commerical Sites	2,600,000,000	2,500,000,000	2,600,000,000	
Total (rounded)	\$3,900,000,000	\$3,300,000,000	\$3,900,000,000	\$3,300,000,000

Resource Value Losses

Note: Outcome values, including totals, are rounded to 3 significant digits counting from the left. Expected Impact is rounded to 2 significant digits.

Alternative A. Best Case

Item	Target Outcome (90%)		Extreme Outcome (10%)	Expected Impact
Mature Timber	1,550,000		0	
Immature Poles	599,000		0	
Seed and Saplings	197,000		0	
Forage	49		0	
Water Storage	36,100		0	
Fisheries - Wm/Cd Wtr	354,000		0	
Recreation - Disp/Dev	31,300,000		0	
Total (rounded)	\$34,000,000		\$0	\$31,000,000

Alternative B. Worst Case

Item	Target Outcome (99%)		Extreme Outcome (1%)	Expected Impact
Mature Timber	3,950,000		0	
Immature Poles	1,530,000		0	
Seed and Saplings	502,000		0	
Forage	125		0	
Water Storage	92,100		0	
Fisheries - Wm/Cd Wtr	904,000		0	
Recreation - Disp/Dev	80,000,000		0	
Total (rounded)	\$87,000,000		\$0	\$86,000,000

Computation of NVC Losses by FMU and FIL

Alternative A. Best Case

FMU	FIL	\$/acre	%	Target Outcome		Extreme Outcome		
				Acres	Impact	%	Acres	Impact
UB-URBAN-1	1	-50	0	0	0	0	0	0
	2	-415	0	0	0	0	0	0
	3	-1420	0	0	0	0	0	0
	4	-3260	33	2442	-7960920	33	0	0
	5	-4480	33	2442	-10940160	33	0	0
	6	-6200	33	2442	-15140400	33	0	0
Total			100	7400	-\$34,000,000	100	0	\$0

Alternative B. Worst Case

FMU	FIL	\$/acre	%	Target Outcome		Extreme Outcome		
				Acres	Impact	%	Acres	Impact
UB-URBAN-1	1	-50	0	0	0	0	0	0
	2	-415	0	0	0	0	0	0
	3	-1420	0	0	0	0	0	0
	4	-3260	33	6237	-20332620	33	0	0
	5	-4480	33	6237	-27941760	33	0	0
	6	-6200	33	6237	-38669400	33	0	0
Total			100	18900	-\$87,000,000	100	0	\$0

NVC Tables

Only negative values are included for this fire.

Fire Management Unit: UB-URBAN-1

	FIL 1	FIL 2	FIL 3	FIL 4	FIL 5	FIL 6
Mature Timber	-1.15	-329.17	-485.09	-623.68	-4.62	-4.62
Immature Poles	-32.7	-59.27	-81.75	-81.75	-81.75	-81.75
Seed and Saplings	-14.77	-24.16	-26.85	-26.85	-26.85	-26.85
Forage	0	0	0	0	-0.01	-0.01
Water Use	0	0	0	0	0	0
Water Storage	-1.14	-2.27	-3.41	-3.41	-5.68	-5.68
Fisheries - Wm/Cd Wtr	0	0	0	0	-64.1	-80.77
Fisheries - Anad Sport	0	0	0	0	0	0
Fisheries - Commercial	0	0	0	0	0	0
Wildlife - Big Game	0	0	0	0	0	0
Wildlife - Other	0	0	0	0	0	0
Recreation - Disp/Dev	0	0	-818.77	-2523.63	-4297.85	-6002.71
Recreation - Wilderness	0	0	0	0	0	0
Improvements	0	0	0	0	0	0
Totals	-\$50	-\$415	-\$1,416	-\$3,259	-\$4,481	-\$6,202

Safety Assessment

Alternative A. Best Case

Target Outcome	Fallback Outcome	Extreme Outcome
Rating: 8 / 10 Based on actions that have occurred high percentage of people have already evacuated. People trying to get back to their homes. Maintaining evacuation routes.	Issue: Public Safety	Rating: 0 / 10
Rating: 7 / 10 Mixed Forest and Residential (WUI). Potential for chemical inhalation.	Issue: Firefighter Safety	Rating: 0 / 10
Rating: 7 / 10	Issue: Aircraft Safety	Rating: 0 / 10

Alternative B. Worst Case

Target Outcome	Fallback Outcome	Extreme Outcome
Rating: 5 / 10 Based on actions that have occurred high percentage of people have already evacuated. More People trying to get back to their homes. Maintaining evacuation routes.	Issue: Public Safety	Rating: 0 / 10
Rating: 5 / 10 Mixed Forest and Residential (WUI). Potential for chemical inhalation. Many more structures.	Issue: Firefighter Safety	Rating: 0 / 10
Rating: 5 / 10	Issue: Aircraft Safety	Rating: 0 / 10

Decision Tree

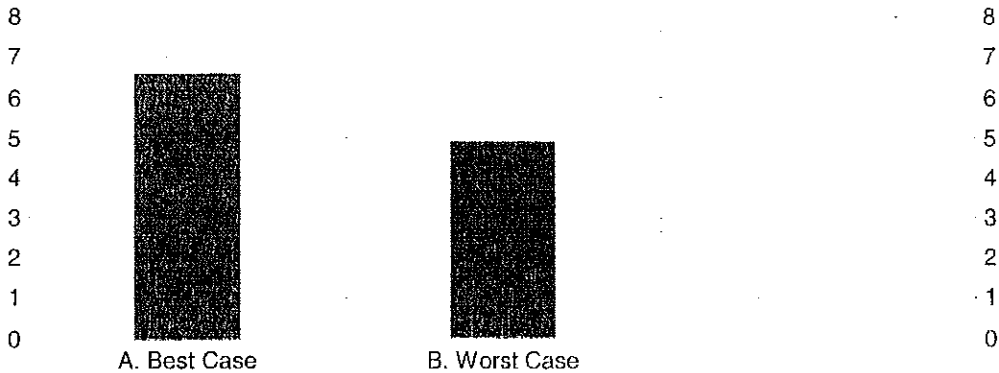
A. Best Case	90%	Target Outcome Size: 7400 acres. Control: 14 days Objectives Score: 6.3 Safety Score: 7.3 Estimated Cost: \$29,600,000 Values Protected: \$3,600,000,000 Estimated NVC Loss: \$34,000,000	Basis for probabilities for strategy Moderating weather, and adequate resource availability. Strong initial attack response.
Expected Objectives Score: 5.7 Expected Safety Score: 6.6 Expected Cost: \$27,000,000 Values Protected: \$3,600,000,000 Expected NVC Loss: \$31,000,000	10%	Extreme Outcome Size: 0 acres. Control: 0 days Objectives Score: 0.0 Safety Score: 0.0 Estimated Cost: \$7,900,000 Values Protected: \$3,900,000,000 Estimated NVC Loss: \$0	
B. Worst Case	99%	Target Outcome Size: 18900 acres. Control: 21 days Objectives Score: 3.8 Safety Score: 5.0 Estimated Cost: \$56,700,000 Values Protected: \$3,300,000,000 Estimated NVC Loss: \$87,000,000	Basis for probabilities for strategy Moderating weather, and adequate resource availability. Strong initial attack response.
Expected Objectives Score: 3.8 Expected Safety Score: 4.9 Expected Cost: \$56,000,000 Values Protected: \$3,300,000,000 Expected NVC Loss: \$86,000,000	1%	Extreme Outcome Size: 0 acres. Control: 0 days Objectives Score: 0.0 Safety Score: 0.0 Estimated Cost: \$7,900,000 Values Protected: \$3,900,000,000 Estimated NVC Loss: \$0	

Comparison of Alternatives

		Alternatives						
		A. Best Case				B. Worst Case		
Estimated Target Suppression Cost		\$30,000,000				\$57,000,000		
Expected Suppression Cost		\$27,000,000				\$56,000,000		
Expected Values Protected		\$3,600,000,000				\$3,300,000,000		
Expected Resource Loss		\$31,000,000				\$86,000,000		
Total Expected Financial Impact		\$3,542,000,000				\$3,158,000,000		
Expected Objectives Score		5.7				3.8		
		Outcomes				Outcomes		
		Alt. A				Alt. B		
		Tg	FB	Ex		Tg	FB	Ex
		90	0	10		99	0	1
Objective	Probability (%)							
	Wgt							
Environmental								
Goshawk PACs	0.12	3	0	2.7	3	0	3.0	
Spotted owl PAC	0.12	3	0	2.7	3	0	3.0	
Riparian areas	0.07	5	0	4.5	2	0	2.0	
Sensitive plant	0.07	7	0	6.3	7	0	6.9	
willow flycatcher	0.07	8	0	7.2	5	0	4.9	
Social								
Developed Recreation	0.12	8	0	7.2	3	0	3.0	
Urban Interface	0.23	8	0	7.2	4	0	4.0	
Cultural								
Heritage Sites	0.21	7	0	6.3	4	0	4.0	
Expected Safety Score		6.6				4.9		
Public Safety	0.33	8	0	7.2	5	0	4.9	
Firefighter Safety	0.33	7	0	6.3	5	0	4.9	
Aircraft Safety	0.33	7	0	6.3	5	0	4.9	

Comparison of Alternatives

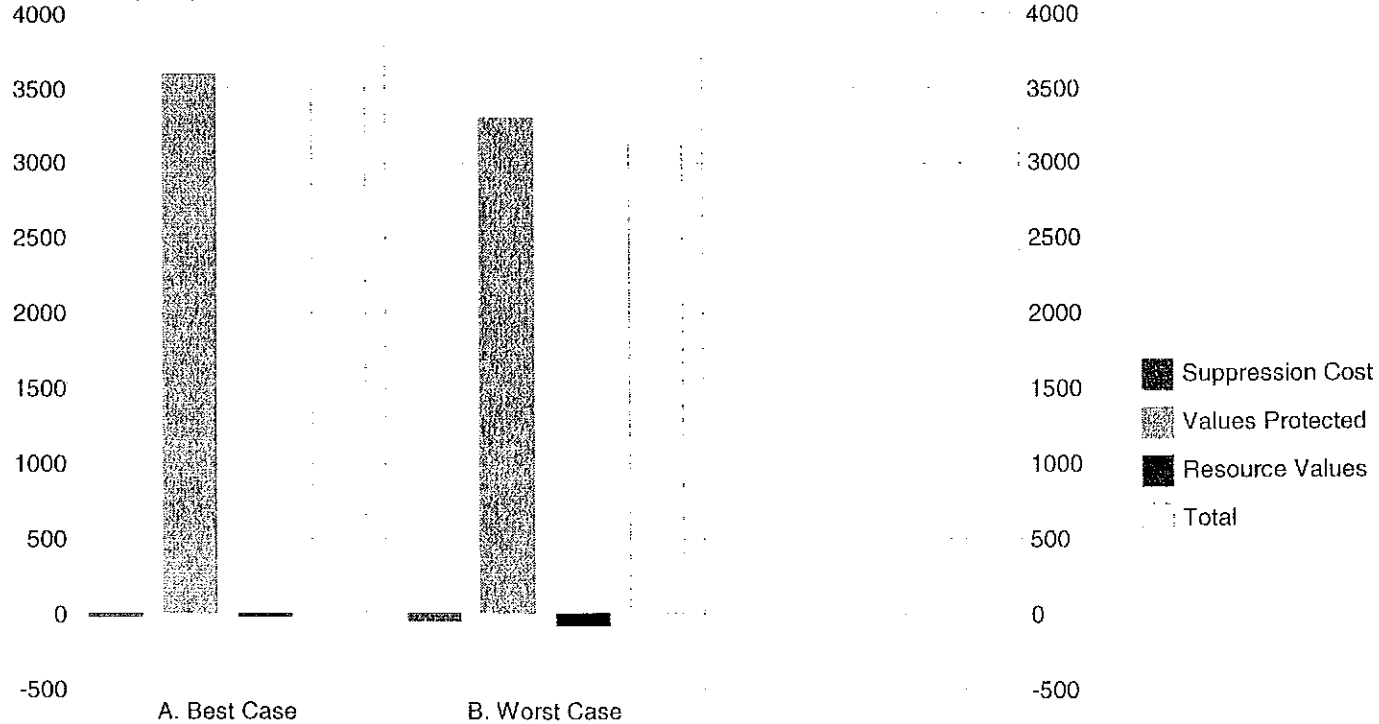
Safety Score (0=worst, 10=best)



Objectives Score (0=worst, 10=best)



Financial impact (in \$000,000)



Incident Complexity Analysis

Incident Complexity Rating: Type 1

Rationale: 200+ structure loss with additional potential, multiple jurisdictions, sensitive political interest, potential for claims, threat to safety of visitors from fire and related operations, cultural sites, developments and facilities, urban interface.

NO YES FACTOR

A. Fire Behavior

- Burning index predicted to be above the 90% level.
- X Potential exists for "blowup" conditions (fuel moisture, winds, etc.).
- X Crowning, profuse or long-range spotting.
- X Weather forecast indicating no significant relief or worsening conditions.

B. Resources Committed

- X 200 or more personnel assigned.
- X Three or more divisions.
- X Wide variety of special support personnel.
- Substantial air operation which is not properly staffed.

- X Majority of initial attack resources committed.

C. Resources Threatened

- X Urban interface.
- X Developments and facilities.
- Restricted, threatened or endangered species habitat.

- X Cultural sites.
- X Unique natural resources, special designated zones or wilderness.
- Other special resources.

D. Safety

- X Unusually hazardous fire line conditions.
- Serious accidents or fatalities.
- X Threat to safety of visitors from fire and related operations.
- X Restrictions and/or closures in effect or being considered.
- No night operations in place for safety reasons.

E. Ownership

- X Fire burning or threatening more than one jurisdiction.

- X Potential for claims (damages).
- Different or conflicting management objectives.
- Disputes over suppression responsibility.
- X Potential for unified command.

F. External Influences

- Controversial wildland fire management policy.
- Pre-existing controversies/relationships.
- X Sensitive media relationships.
- X Smoke management problems.
- X Sensitive political interests.
- Other external influences.

G. Change in Strategy

- Change to a more aggressive suppression strategy.

- X Large amounts of unburned fuel within planned perimeter.
- WFSA invalid or requires updating.

H. Existing Overhead

- Worked two operational periods without achieving initial objectives.
- Existing management organization ineffective.
- Overhead overextended themselves mentally and/or physically.
- Incident action plans, briefings, etc. missing or poorly prepared.



Ed Hollenshead/R5/USDAFS
06/26/2007 11:50 AM

To: Bernhard Bahro/R5/USDAFS@FSNOTES, Mark G Johnson/R5/USDAFS@FSNOTES, Kit Bailey/R5/USDAFS@FSNOTES, Terri Marceron/R5/USDAFS@FSNOTES

cc

bcc

Subject: Re: Fw: LTBMU Angora WFSA []

Please review and amend the document, addressing the following concerns:

*Prop (3
+ every
two
def #*

Forecast Weather (3 and 10 day) and Current Seasonal Conditions is confusing for Monday and Sunday.

Explain difference between RAVAR runs and **Values at Risk** and **Values Protected** sections.

Under **Alternatives** explain the statement, "Aggressive tactics can be used to protect residential and commercial areas."

Explain the following discrepancy in suppression cost estimates:

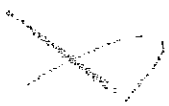
Target Outcome					Extreme Outcome
Estimated suppression cost: \$29,600,000					Estimated suppression cost: \$7,900,000



I would like to have a signed acceptance and recommendation from the Agency Administrator and the Regional Forester's Representative that this WFSA be approved by the Regional Forester as an attachment. Weingardt will be on the fire today. You may be able to pigeon hole him for the approval.

Ed Hollenshead, Director
Fire and Aviation Management
Pacific Southwest Region - R5
Office: (707) 562-8925
Cell: (707) 980-8078
Fax: (707) 562-9048

Bernhard Bahro/R5/USDAFS



Bernhard Bahro/R5/USDAFS
06/26/2007 10:02 AM

To: Ed Hollenshead/R5/USDAFS@FSNOTES, Michael Dietrich/R5/USDAFS@FSNOTES

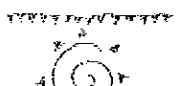
cc

Subject: Fw: LTBMU Angora WFSA

I believe that this needs to be signed by the RF. Berni

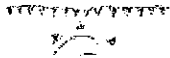
Berni Bahro
Regional Fuels Manager - Planning
Pacific Southwest Region - FAMSAC
3237 Peacekeeper Way
McClellan, CA 95652
desk (916) 640-1066 cell (916) 662-1207
email: bbahro@fs.fed.us

----- Forwarded by Bernhard Bahro/R5/USDAFS on 06/26/2007 09:54 AM -----



John Szymoniak
06/25/2007 05:21 AM

To: Karyn L Wood/WO/USDAFS@FSNOTES, Neal Hitchcock/WO/USDAFS@FSNOTES



cc: Bernhard Bahro/R5/USDAFS@FSNOTES
Subject: Fw: LTBMU Angora WFSA

Angora WFSA attached.

1. One alternative - estimated Suppression Cost for it = \$29MM. \$4K per acre. Well within SCI for this type of fire.

The sun keeps shinin' and the North Wind keeps picking up speed.

Gonna forget about myself for a while, gonna go out and see what others need

Thunder on the Mountain - Bob Dylan

John Szymoniak
Wildland Fire RD&A
NIFC Boise Idaho
208 387 5748
208 340-0945 cell
3833 S. Development Ave
Boise Idaho 83705

----- Forwarded by John Szymoniak/WO/USDAFS on 06/25/2007 06:17 AM -----

Mark G
Johnson/R5/USDAFS
06/24/2007 11:51 PM

To John Szymoniak/WO/USDAFS@FSNOTES
cc
Subject LTBMU Angora WFSA

As requested.



Angora.tif Angora.pdf



File Code: 1230

Date: June 26, 2007

Route To:

Subject: Delegation of Authority for the Angora Incident

To: Rich Hawkins, Incident Commander, Steve Eubanks

Steve Eubanks was relieved as the Agency Administrator for the Angora Incident on the LTBMU effective June 26, 2007 at 0600 hours.

Effective June 26, 2007 at 0600 hours, I have assumed the role of Agency Administrator. Eli Ilano will assume the role of Agency Administrator Representative. Kit Bailey will continue as Fire Management Officer and Richard Vacirca as Resource Advisor.

Agency personnel can be contacted at the following numbers:

Name	Title	Office	Cell Phone	Pager	Home
Terri Marceron	Agency Administrator	530-543-2641	530-545-0637		530-544-5827
Eli Ilano	Agency Administrator Representative	530-543-2640	530-318-3596		
Kit Bailey	FMO	530-543-2631	530-307-1307		530-577-2139
Richard Vacirca	Resource Advisor	530-543-2768	775-230-5893		775-267-9812

TERRI MARCERON
Forest Supervisor





United States
Department of
Agriculture

Forest
Service

Lake Tahoe Basin Management
Unit

35 College Drive
South Lake Tahoe, CA 96150
(530) 543-2600
(530) 543-0956 TTY

File Code: 1230
Route To:

Date: June 26, 2007

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To: Rich Hawkins, Incident Commander, Steve Eubanks

Steve Eubanks was relieved as the Agency Administrator for the Angora Incident on the LTBMU effective June 26, 2007 at 0600 hours.

Effective June 26, 2007 at 0600 hours, I have assumed the role of Agency Administrator. Eli Ilano will assume the role of Agency Administrator Representative. Kit Bailey will continue as Fire Management Officer and Richard Vacirca as Resource Advisor.

Agency personnel can be contacted at the following numbers:

Name	Title	Office	Cell Phone	Pager	Home
Terri Marceron	Agency Administrator	530-543-2641	530-545-0637		530-544-5827
Eli Ilano	Agency Administrator Representative	530-543-2640	530-318-3596		
Kit Bailey	FMO	530-543-2631	530-307-1307		530-577-2139
Richard Vacirca	Resource Advisor	530-543-2768	775-230-5893		775-267-9812

TERRI MARCERON
Forest Supervisor





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Rapid Assessment of Values-at-Risk



Incident Name:	Angora	Analysis Tier Level:	Tier I – Primary Assets Only
State(s):	California	FSPRO Analysis:	25 June 2007
Report Date:	26 June 2007		14-day projection
RAVAR Analyst:	Kevin Hyde (METI) RMRS Missoula – 406.329.2137 kdhyde@fs.fed.us	FSPRO Analyst:	Rob Seli 406.826.4330 rseli@fs.fed.us
Analysis Code:	B_070626-1 kh		

NOTE: This report accompanies a RAVAR analysis map.

All RAVAR products are intended for STRATEGIC use only. It is always advised that values analyzed and displayed on RAVAR maps be verified by local knowledge.

This report reflects an updated FSPRO run. It follows the initial report posted 25 June 2007.

Geographic and Temporal Basis for Analysis:

- ❖ FSPRO Analysis – 14 day – 25 June 2007
- ❖ Projected spread assumes NO suppression
- ❖ FSPRO analyst expressed high confidence in 80% projection. Spread in lower probabilities zones, especially to the west, may be over-stated due to under-representation of rock in vegetation model.
- ❖ NOTE: The < 1% spread probability zone is displayed on the map (pale pink zone) but assets within not summarized. This zone represents “the rare event” – confidence in this prediction is undetermined.

Tier I Analysis – Primary Assets Only

General Observations:

- ❖ The extent of the updated run covers only 75% of the FSPRO projections of 24 June, with area generally reduced in all zones, especially the lowest probability level, 1-5%. Reduced count and value of threatened structures corresponds to reduced projection area.
- ❖ *Assuming no suppression*, the 14-day fire spread projection indicates generally omni-directional fire spread. The fire is currently located 5 miles south of Lake Tahoe on the Eldorado National Forest and in densely developed private lands of Meyers, CA. Over 250 structures have already been destroyed.
- ❖ High probability projected spread, > 80%, threatens all structures proximate to Upper Truckee Road and Lake Tahoe Blvd.; structures located in the Fallen Leaf Community and east of Fallen Leaf Lake; and some residential development north of and proximate to the Echo Lakes and substantial portions of the Echo Community.
- ❖ Lower probability spread threatens all development north of Fallen Leaf Lake to Lake Tahoe and out-skirts of Tahoe Valley.
- ❖ Lower probability spread to the west could enter the Desolation Wilderness, though confidence in this spread is low as remarked above.
- ❖ South Tahoe High School South Tahoe High School, NE of the current fire perimeter, falls within the > 60% spread probability zone.



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Rapid Assessment of Values-at-Risk



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Values assessed in this Report:

- ❖ NOTE: Analysis of assets within the 80% Spread Probability Zone includes values-at-risk that may be within the active fire perimeter; any assets within the active perimeter are not independently analyzed.
- ❖ Building Cluster count and estimated value per tax assessor records of El Dorado County, CA.
- ❖ Primary land jurisdictions
- ❖ Other landmark locations of record.

Information mapped but not itemized in this report:

- ❖ Lake Tahoe Airport to the east
- ❖ Communication towers, RAWs station, and other infrastructure features

Estimates of Structure Values at Risk: Estimate derived from analysis of El Dorado County GIS and tax assessor records. Count represents "building clusters". Building Clusters represent the center of parcels where county assessor records indicate taxable improvements are present. One or more structures and other improvements may exist proximate to these point locations. Valuation is sum of assessed taxable improvements and may underestimate actual asset value.

Table 1

Fire Spread Probability Zone	Acres by Zone	Cumulative Acres	Count by Zone	Cumulative Count	Value by Zone	Cumulative Value
> 80%	7027	7027	1436	1436	\$247,183,573	\$247,183,573
60 - 80 %	2584	9611	89	1525	\$20,212,480	\$267,396,053
40 - 60 %	3046	12657	103	1628	\$17,030,910	\$284,426,963
20 - 40 %	3575	16232	255	1883	\$36,815,533	\$321,242,496
5 - 20 %	6867	23099	345	2228	\$55,185,965	\$376,428,461
1 - 5 %	8663	31762	371	2599	\$57,110,119	\$433,538,580

South Tahoe High School, NE of the current fire perimeter, falls within the > 60% spread probability zone and is not accounted for in Table 1.

**** Report continues on next page ****



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Rapid Assessment of Values-at-Risk



Jurisdictions within FSPro Spread Zones: Note: State lands designated as Washoe Meadows State Park and Lake Valley State Recreation Area are under-represented in the data available for this analysis.

Table 2

Jurisdiction	USFS		State		Private	
	In Zone	Cumulative	In Zone	Cumulative	In Zone	Cumulative
> 80%	4730	4730		0	2325	2325
60 - 80 %	1889	6619		0	686	3011
40 - 60 %	2387	9006		0	664	3675
20 - 40 %	3119	12125		0	451	4126
5 - 20 %	6352	18477		0	517	4643
1 - 5 %	7765	26242	174	174	717	5360

Other Landmarks of Record within FSPro Spread Zone

Table 3

OTHER LANDMARKS	FSPro Zone
Angora Lookout	> 80 %
Berkeley Municipal Camp	> 80 %
Fallen Leaf Marina	> 80 %
Koa Campground	> 80 %
Stanford Sierra Camp	> 80 %
<i>no features of record in zone</i>	60 - 80 %
Echo Portal	40 - 60 %
Firs Campground	40 - 60 %
Upper Truckee Ranger Station	20 - 40 %
Celio Ranch	5 - 20 %
Fredericks USFS Station	5 - 20 %
Tahoe Mountain Group CG	5 - 20 %
Bay View Guard Station	1 - 5 %
Bayview Campground	1 - 5 %
Bayview Picnic Area	1 - 5 %
Camp Harvey West	1 - 5 %
Camp Richardson X-C Ski Area	1 - 5 %
Camp Shelly	1 - 5 %
Eagle Falls Campground	1 - 5 %
Emerald Bay Overlook	1 - 5 %
Fallen Leaf Campground	1 - 5 %
Vikingsholm	1 - 5 %



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Rapid Assessment of Values-at-Risk



Incident Name:	Angora	Analysis Tier Level:	Tier II – Regional Priority Assets
State(s):	California	FSPRO Analysis:	25 June 2007
Report Date:	26 June 2007		14-day Projection
RAVAR Analyst:	Jeff Kaiden, RMRS Missoula – 406.329.2137 jkaiden@fs.fed.us	FSPRO Analyst:	Rob Seli Missoula – 406-826-4330 rseli@fs.fed.us

NOTE: This report accompanies a RAVAR analysis map.

All RAVAR products are intended for STRATEGIC use only. It is always advised that values analyzed and displayed on RAVAR maps be verified by local knowledge.

Geographic and Temporal Basis for Analysis:

- ❖ FSPRO Analysis – 14 day – 25 June 2007
- ❖ Projected spread assumes NO suppression
- ❖ FSPRO analyst expressed high confidence in 80% projection. Spread in lower probabilities zones, especially to the west, may be over-stated due to under-representation of rock in vegetation model.
- ❖ NOTE: The < 1% spread probability zone is displayed on the map (pale pink zone) but assets within not summarized. This zone represents “the rare event” – confidence in this prediction is undetermined.

General Observations:

- ❖ *Assuming no suppression*, the 14-day fire spread projection indicates omni-directional fire spread.
- ❖ The current fire perimeter is located two miles to the south of Lake Tahoe; adjacent and to the east and southeast of Fallen Leaf Lake. The eastern edge of the fire perimeter closely follows Lake Tahoe Boulevard.
- ❖ The majority of acreage occurs within the Lake Tahoe Basin Management Unit.

Values assessed in this Report:

- ❖ NOTE: Analysis of assets within the 80% Spread Probability Zone includes values-at-risk that may be within the active fire perimeter; any assets within the active perimeter are not independently analyzed.
- ❖ National Forest acreage affected by Ranger District per Region 5 – GIS Clearinghouse
- ❖ Direct Protection Areas – source available upon request
- ❖ Recreation Opportunity Spectrum Zones per Region 5 – GIS Clearinghouse
- ❖ Spotted Owl Protected Activity Centers per Region 5 – GIS Clearinghouse
- ❖ Spotted Owl Habitat per Region 5 – GIS Clearinghouse
- ❖ Willow Flycatcher Habitat per Region 5 – GIS Clearinghouse

Information mapped but not itemized in this report:

- ❖ California Communities at Risk per Region 5 – GIS Clearinghouse
 - The community of South Lake Tahoe lies within and to the northwest of the fire.



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Rapid Assessment of Values-at-Risk



- ❖ Forest Service Facilities per Region 5 – GIS Clearinghouse
 - Four facilities lie just outside the fire spread probability zones to the north, northeast, east, and southwest.
- ❖ Tier I features included for reference; analyzed in separate Tier I report
 - Major Roads
 - Rivers & Streams, including Wild, Scenic, & Recreational status

Tier II Analysis – Regional Priority Assets

National Forest Acreage by Ranger District:

Fire Spread Probability Zone	EL DORADO NATIONAL FOREST					
	PLACERVILLE RANGER DISTRICT		PACIFIC RANGER DISTRICT		LAKE TAHOE BASIN MANAGEMENT UNIT	
	Acres by Zone	Cumulative Acres	Acres by Zone	Cumulative Acres	Acres by Zone	Cumulative Acres
> 80%	0	0	0	0	5,706	5,706
60 - 80 %	59	59	0	0	2,164	7,869
40 - 60 %	61	120	0	0	2,486	10,355
20 - 40 %	64	184	0	0	3,142	13,497
5 - 20 %	1,027	1,211	403	403	5,123	18,620
1 - 5 %	1,650	2,861	505	908	6,193	24,813

Direct Protection Areas Acreage:

Fire Spread Probability Zone	DIRECT PROTECTION AREAS BY GOVERNMENTAL ENTITY			
	Federal		Local	
	Acres by Zone	Cumulative Acres	Acres by Zone	Cumulative Acres
> 80%	7,056	7,056	0	0
60 - 80 %	2,527	9,583	48	48
40 - 60 %	2,960	12,543	92	140
20 - 40 %	3,452	15,995	119	260
5 - 20 %	6,805	22,800	65	324
1 - 5 %	8,652	31,453	50	375

All Federal land is administered by the US Forest Service.



Recreation Opportunity Spectrum Zones:

RECREATIONAL OPPORTUNITY SPECTRUM ZONES						
Fire Spread Probability Zone	Natural/Roaded		Primitive/Non-motorized		Semi-Primitive/Non-motorized	
	Acres by Zone	Cumulative Acres	Acres by Zone	Cumulative Acres	Acres by Zone	Cumulative Acres
> 80%	5,229	5,229	0	0	169	169
60 - 80 %	1,676	6,905	0	0	458	627
40 - 60 %	1,587	8,491	0	0	1,158	1,785
20 - 40 %	911	9,403	0	0	2,184	3,969
5 - 20 %	1,187	10,590	1,221	1,221	3,550	7,518
1 - 5 %	1,952	12,542	1,095	2,316	4,005	11,524

RECREATIONAL OPPORTUNITY SPECTRUM ZONES				
Fire Spread Probability Zone	Rural		Urban	
	Acres by Zone	Cumulative Acres	Acres by Zone	Cumulative Acres
> 80%	1,597	1,597	0	0
60 - 80 %	351	1,948	52	52
40 - 60 %	170	2,118	119	172
20 - 40 %	291	2,410	164	335
5 - 20 %	789	3,198	74	409
1 - 5 %	1,434	4,632	77	487



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Spotted Owl:

SPOTTED OWL PROTECTED ACTIVITY CENTERS		
Fire Spread Probability Zone	Acres by Zone	Cumulative Acres
> 80%	146	146
60 - 80 %	192	338
40 - 60 %	58	396
20 - 40 %	37	433
5 - 20 %	3	435
1 - 5 %	17	453

Fire Spread Probability Zone	SPOTTED OWL HABITAT			
	LAKE TAHOE BASIN MANAGEMENT UNIT		EL DORADO NATIONAL FOREST	
	Acres by Zone	Cumulative Acres	Acres by Zone	Cumulative Acres
> 80%	36	36	0	0
60 - 80 %	116	152	0	0
40 - 60 %	122	274	0	0
20 - 40 %	105	378	0	0
5 - 20 %	24	402	0.25	0.25
1 - 5 %	0	402	295	295



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Willow Flycatcher:

WILLOW FLYCATCHER HABITAT		
Fire Spread Probability Zone	Acres by Zone	Cumulative Acres
> 80%	607	607
60 - 80 %	209	816
40 - 60 %	195	1,011
20 - 40 %	241	1,252
5 - 20 %	485	1,737
1 - 5 %	608	2,345