

FIRE ANALYSIS

INCIDENT NO. R90093	DATE YY - MM - DD 10/08/01	TIME (24 hrs) 20:00	CURRENT ESTIMATED SIZE 7000 ha.	ESTIMATED SIZE AT CONTROL 100000 ha.
LATITUDE 59 ° 48.000 ' N	LONGITUDE 129 ° 8.000 ' W	FIRE LOCATION (GEOGRAPHIC) 2 km North of Blue River/Hwy 37 crossing		

FUEL TYPE / DESCRIPTION

Continuous C-2 and C-3 in all directions. No fuel breaks visible for 20+ kms.

WEATHER FORECAST FOR CURRENT OR NEXT OPERATIONAL PERIOD (precipitation forecasted, drying trend, wind event, etc.)

Ridge of high pressure builds in from the North. Remains in place for 4-5 days. Temperatures mid to upper 20's, R/H's 20-25. Winds light Northwesterly 5-10 km/h. Possible breakdown of ridge on Friday.

MAP ATTACHED <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	FIRE BEHAVIOR FORECAST ATTACHED <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
LONG TERM FIRE GROWTH ANALYSIS REQ'D <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	LONG TERM FIRE GROWTH ATTACHED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
VALUES AT RISK:	
<input type="checkbox"/> Public Safety	<input checked="" type="checkbox"/> Timber Resources
<input checked="" type="checkbox"/> Recreational Values	<input checked="" type="checkbox"/> Private Property - Improvements
<input checked="" type="checkbox"/> Tourism	<input type="checkbox"/> Improvements - Other
<input checked="" type="checkbox"/> Environmental	<input type="checkbox"/> Visual
<input checked="" type="checkbox"/> Other	Highway 37 (7 km of road)

GENERAL CONTROL OBJECTIVES & STRATEGIES (include alternatives & organization required)

No attempt to control the fire at this time due to fire behaviour (Rank 4-6), access (multiple swamp/wet areas) and fire size (7000 ha.).

Objective #1 is to maintain traffic flow at least once a day in both directions.

Strategy: Utilize MOTH (Highways) for moving traffic with pilot cars.

Use prescribed fire as/when able to try and burn out C-2 areas along highway to minimize fire behaviour adjacent to highway.

Remove danger trees along highway.

Objective #2 is to identify and provide structure protection on any cabins within the area of concern.

Strategy: Rely on local knowledge and already mapped values(cabins) to locate all

Set up sprinkler protection systems as required utilizing Yukon IA crews

Objective #3 is to have community protection plans drawn up for Lower Post, Upper Liard, Watson lake and Junction 37.

Strategy: FNESS and PEP to look after Lower Post. (completed-see attached) Yukon will look after Watson lake and Junction 37.

TACTICS FOR THE INCIDENT

Objective #1: Plan for daily moves of traffic. Northbound to move at 08:00 daily if possible. 09:30 for Southbound traffic. Pilot cars at front and rear of traffic. Monitor south and north edges of fire from the ground as required. Aerial observer at all times in helicopter to monitor fire behaviour. Aerial observer responsible to maintain direct communications with all staff (including MOTH-Lakes District Maintenance) involved in traffic control. All staff involved have radio comms. Have used this process for three days now. It is working well. +/- 6 persons required. NW Hotel IA crew currently doing danger tree assesment and removal as/when fire behaviour allows. Estimate 2-3 days to complete based on fires current location.

Objective #2: All known values have been identified by WMB and Yukon forestry staff. See attached map for locations. One value at Leo Lake has had sprinklers set up. Other values to have sprinklers set up as required based on fire spread direction. IA crew to set up sprinklers as req'd

Objective #3 see attached for Lower post. Yukon to handle Watson, Upper Liard and Junction 37. Junction 37 has a complete sprinkler

~~protection system ready if needed. Research is being completed by Yukon Forestry.~~

PROBABILITY OF MEETING OBJECTIVES 70 %	ESTIMATED TOTAL SUPPRESSION COSTS \$ 500,000.00
	ESTIMATED DAILY COST TO CONTROL (from daily cost estimator) \$ 19,825.00
	ESTIMATED VALUES PROTECTED \$ _____ AS PER LAND MANAGER

LAND MANAGER COMMENTS

Discussions with the land manger (rep Claus Rygaard) regarding timber values at Old Faddy and Blue River FSR's to be discussed Tuesday. He is currently on holidays. Anticipate some timber loss. At this time it does not appear that there has been any harvesting in the area in the past few years.

LAND OR FIRE MANAGEMENT PLAN OBJECTIVES ATTACHED: YES NO

NAME _____
SIGNATURE _____

OTHER AGENCY / INDUSTRY COMMENTS / FIRST NATIONS INPUT

Highways are directly involved. No industry concerns. First Nations have been contacted and receive information bulletins. Drive BC website updated as/when required. BCwildfire site updated daily. Info bulletins sent to all key stakeholders daily. Yukon has been directly involved with the fire from day 1. Mike Sparks - Yukon Wildfire Management has been assigned to the fire as an agency rep and will continue in this capacity. Yukon is also supplying logistical, planning and operational support through their base in Watson Lake.

LAND OR FIRE MANAGEMENT PLAN OBJECTIVES ATTACHED: YES NO

NAME _____
SIGNATURE _____

FIRE CENTRE REPRESENTATIVE COMMENTS

We are mangaging this fire with the intent to keep the highway open at least once a day to allow for traffic flow. We are also protecting any identified values. This fire will not be supressed. Although it is unlikely that it will reach Junction 37, Watson lake, Upper Liard or Lower post planning is underway or complete in the event an evacuation is required. We are working directly with the Yukon in a uniiied command for this incident due to it's proximity to the Yukon border. Significant rains required to finally allow for a complete opening of the highway that will not require pilot cars.

NAME Brad Martin POSITION IC
SIGNATURE _____ CERTIFICATION LEVEL IC 2

INCIDENT COMMANDER SIGNATURE: _____ APPROVED BY (FIRE CENTER MANAGER OR DESIGNATE) SIGNATURE: _____

SPECIFIC CONDITIONS *(Provide specific conditions that would require a fire analysis update)*
If fire threatens any of the three communities mentioned. It will be considered a threat if it gets to within 10 km of any community and has forecasted burning conditions that will allow for a 10 km run of the fire. Burning conditions that would allow for a 10 km run would be strong southerly winds 20-25 km/h with FPMC's of 92 or greater. ISI would be around 15-20.

DETAILS ON ISSUES, DAMAGES & VALUES AT RISK

INCIDENT #: R90093

Health

The fire is producing significant smoke issues for the residents of Lower Post and Watson lake. Junction 37 is also affected but not to the same degree due to wind direction. People with respiratory problems are being affected when community receives smoke. Smoke is currently not affecting any communities and is not forecast to do so for 3-4 days.

Highway 37 corridor-currently 7 km of highway

Significant traffic delays affecting local travel, fuel, mail and grocery deliveries, tourism and other people that use highway 37. Current delays are no longer than 24 hours.

Timber

Although not active, this is a timber improvement area for the Skeena/Stikine Forest districts. PL 831 @ approximately 200-250 cubic meters/ha. Old Faddy and Blue River North timber areas are affected.

Cabins and outbuildings

Private cabins and outbuildings scattered throughout the area. 4-5 values have been identified. The closest value is 10 km away and has had a sprinkler system set up. No cabins have been lost at this time.

Lower Post, Watson lake, Upper Liard and Jnct

Lower Post population is 170 persons, Watson Lake has approximately 900 persons, Upper Liard has approximately 150 persons, Junction 37 has approximately 30 persons. The Yukon is looking after the communities of Junction 37, Upper Liard and Watson Lake.

FIRE CONTROL OBJECTIVES & STRATEGY OPTIONS

OPTION 'A'

OBJECTIVES/ STRATEGIES:

Full Response. Utilizing existing logging roads and natural features conduct burnout where possible and direct attack as/when fire behaviour allows. This would require a fully staffed Type 1 incident command team and a minimum of 10 unit crews along with support staff and a camp. Anticipate 3 weeks of work. Given the current fire behaviour, location and size the probability of success is less than 20%. It is likely that the weather will have changed by then.

PROBABILITY OF MEETING OBJECTIVES **20** %

TOTAL VALUES AT RISK 'A' \$ _____ ESTIMATED TOTAL SUPPRESSION COSTS 'A' \$ 4,000,000.00

OPTION 'B'

OBJECTIVES/ STRATEGIES:

See page 1-No other options exist at this time. It is difficult to determine the total values at risk as we don't know the value of keeping the highway open.

PROBABILITY OF MEETING OBJECTIVES %

TOTAL VALUES AT RISK 'B' \$ _____ ESTIMATED TOTAL SUPPRESSION COSTS 'B' \$ 500,000.00

OPTION 'C'

OBJECTIVES/ STRATEGIES:

RECOMMEND OPTION C

-Prevent fire spread to the north and south by constructing fire guard with heavy equipment, using existing road networks and aerial support where practical. If conditions are right conduct burning out of fuels between the fire guard and the edge of the fire. This will cover a distance of 12 kms along the north flank and 12 kms along the south flank of the fire. Followed by mop-up along the fire guards 500m either side of the highway.

-Fire guard construction through Ecological Reserve to be avoided if possible. pre approval must be obtained from BC Provincial Parks for any suppression activities within the Ecological Reserve. Preapproval also required for any vehicle travel through the Ecological Reserve on the 1 Ace FS Rd.

-Burn Off Operations if required:

Burn off plan developed and approved by North West Fire Centre prior to ignition.

If fire gets to within 5 Kms of First Nations values at the confluence of the Dease and Blue rivers structure protection should be activated.

-Use heavy equipment and crews to remove danger trees threatening traffic along Highway 37 in the fire.

-Reveiw FAS in seven days

PROBABILITY OF MEETING OBJECTIVES **45** %

TOTAL VALUES AT RISK 'C' \$ _____ ESTIMATED TOTAL SUPPRESSION COSTS 'C' \$ 2,288,860.00

FIRE ANALYSIS VALUES AT RISK AND TRIGGER POINTS FOR FURTHER ACTION REQUIRED

- STEP 1: IDENTIFY POTENTIAL VALUES AT RISK ON MAP
- STEP 2: IDENTIFY TRIGGER POINTS ON MAP WHERE A REVIEW OF THE FIRE ANALYSIS OR ACTION TO SAFEGUARD IDENTIFIED VALUES IS REQUIRED
- STEP 3: IDENTIFY ACTIONS REQUIRED WHEN FIRE REACHES EACH TRIGGER POINT

TRIGGERPOINT	CONDITIONS WITH LOW POTENTIAL FOR GROWTH	CONDITIONS WITH HIGH POTENTIAL FOR GROWTH
1	Monitor for a change in the weather.	Notify residents of possible need for evacuation
2	Monitor for a change in the weather	Evacuate residents that will be affected as per community evac plans.



THIS PAGE IS TO BE COMPLETED WHEN ASSESSING, REVIEWING, OR MONITORING A FIRE THAT HAS A COMPLETED FIRE

UPDATE #	DATE YYYY-MM-DD	NAME	COMMENTS
1	2010-08-03	G Munro	Traffic flow was maintained from 0800 till approx 1300 hours. During the afternoon and into the evening the fire made approximate 5 km run to the south, crossing the Blue River and burning on both sides of Hway 37
2	2010-08-03	G Munro	Fire area was obscured in smoke all morning. Traffic was limited to one pass from each direction. Fire growth was approx 1000 ha but was difficult to map due to poor visibility.
3	2010-08-04	G Munro	Fire area obscured in smoke all morning. Traffic limited to one pass each direction. Fire growth as mapped at 2000 hours was in excess of 8500 ha and still burning rank 6 to the SW in spruce. Continuous steady ground fire on the north edge. No real growth to the east. East end appears to have taken some precip. Projected size is now +20,000 ha.
4	2010-10-08	S Quigley	Flew the fire in PWZ with Steve Quigley, Claus Rygaard and Elvis Fellner (from the Dease River First Nation Development). Observed fire damage to the timber supply and plantations. Looked for harvesting opportunities and access. Saw several spots still smoking.

DATE AND TIME OF UPDATE August 9, 2010 1800 hrs	FIRE # R90093	FIRE ZONE Cassiar	FIRE CENTRE Northwest
LOCATION		SIZE 22,000	GPS <input type="checkbox"/> YES <input type="checkbox"/> NO
1) ATTACH MAP SHOWING CURRENT PERIMETER.		<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
2) IDENTIFY ANY AREAS ON THE MAP WHERE THE FIRE IS ACTIVE.		<input type="checkbox"/> YES	<input type="checkbox"/> NO
3) ATTACH PHOTOS.		<input type="checkbox"/> YES	<input type="checkbox"/> NO
4) IS A NEW LONG TERM GROWTH ANALYSIS REQUIRED?		<input type="checkbox"/> YES	<input type="checkbox"/> NO <input type="checkbox"/> ATTACHED
POTENTIAL THREAT (INCLUDING SMOKE ISSUES) TO ANY IDENTIFIED VALUES			
Potential for reduced visibility on Hwy 37, Hwy 37 Jct, Town of Watson Lake, Lower Post and surrounding area from smoke and fire may threaten values identified on map			
IS FIRE CLOSE TO ANY IDENTIFIED TRIGGER POINTS?			
Yes, trigger # 1 for Hwy 37 Jct			
IS THERE A CHANGE TO THE STRATEGY AND/OR TACTICS? (EXPLAIN):			
Recommnd option "C"			
DOCUMENT ANY DISCUSSIONS WITH STAKEHOLDERS			
Yukon Wildfire Management (Mike Sparks, Jct Hwy 37, Town of Watson Lake, Liard First Nation and Yukon Highways) Lower Post Good Hope Lake Highways dept PEP Northwest Tel			
DO ANY OTHER STAKEHOLDERS NEED TO BE CONTACTED?			
Yes BC Parks			
HAS THE ESTIMATED TOTAL COST CHANGED ?			
Yes New estimate 2,288,860.00			



FIRE CENTRE		
NAME	POSITION	SIGNATURE
FIRE CENTRE MANAGER COMMENTS		
RECEIVED AT FIRE CENTRE - DATE (YYYY - MM - DD)	FIRE CENTRE MANAGER SIGNATURE	
LAND MANAGER SIGNATURE REQUIRED IF VALUES AFFECTED HAVE OR WILL CHANGE		
LAND MANAGER COMMENTS		
LANDMANAGER	POSITION	DATE (YYYY - MM - DD)

DAILY COST ESTIMATOR

		DAILY/HOURLY RATE	HOURS	COUNT	DAILY COST
MANPOWER					
DAILY RATE BASED ON 12 HRS.					
FOREST OFFICER	Average daily rate +/- 12hrs (STO4, 5, 6)	\$725.00 day		3	\$2,175.00
UNIT CREW COSTS	\$/day based on a 21 person crew	\$10,000.00 day			
IA CREW COSTS	\$/day based on 3 person crew	\$1,450.00 day		1	\$1,450.00
F. DEPT. COSTS	\$/apparatus hr (Based on O.G. 1.06.01)	\$400.00 hr			
INDUSTRY CREWS	\$/hr including payroll loading	\$700.00 day			
CONTRACT CREWS	\$/day based on S.O. rate, 10 persons	\$6,375.00 day			
DSF/DTA COSTS	\$/day based on S.O. combined DTF/DTA	\$900.00 day			
TEMPORARY HIRE	\$/hr avg over 12 hour day + 4% vacation	\$300.00 day			
D.S. FALLER \$/DAY		\$500.00 day			
OUT OF PROV. CREWS	OVERHEAD STAFF/person (CIFFC rate)	\$725.00 day			
	CREWS/person (CIFFC rate)	\$550.00 day			
					\$3,625.00

		AVERAGE \$/HR INCLUDING FUEL			
LIGHT	206B, H500	\$1,200.00 hr			
INTERMEDIATE	206L3, A-Star, 407, etc.	\$1,875.00 hr	8	1	\$15,000.00
MEDIUM	Bell 205, 212, etc.	\$3,250.00 hr			
HEAVY'S	Bell 214B	\$4,775.00 hr			
	Sikorsky S-61	\$5,575.00 hr			
	K-MAX	\$4,675.00 hr			
	KAMOV	\$7,000.00 hr			
	Sikorsky S-64	\$13,060.00 hr			
AIRTANKERS	Lg Tanker (Electra, Convaire) incl fuel, BD, retardant	\$9,000.00 hr			
	Sm Tanker (Firecat, Airtractor) incl fuel, BD, retardant	\$3,000.00 hr			
					\$15,000.00

		EQUIPMENT COSTS			
WATER TENDER	3500 gallon self loading	\$80.00 hr			
SKIDDER (c/w tank)	Based on 124-185 fwhp	\$150.00 hr			
EXCAVATOR (w/ lowbed)	Based on 150-175 fwhp	\$200.00 hr			
CRAWLER	Based on D7	\$180.00 hr			
LOWBED	Based on 7-axle	\$125.00			

		SUPPORT COSTS			
COMMAND POST -	\$/week for Rental, overhead operating costs, etc.	\$500.00 week			
BCFS CAMP COSTS -	\$/person/day Incl mob, demob, transport, catering, etc.	\$175.00 day			
TRANSPORT COSTS -	Equipment, personnel, goods, etc.	\$1,250.00 day			
SECURITY SERVICES -	Contract based on 2 persons with vehicle 12 hr day	\$700.00 day			
FIRST AID SERVICES -	Contract based on ETV, attendant, driver, 12 hr day	\$1,000.00 day			
TRAFFIC CONTROL SERVICES -	Contract based on 2 per. w/vehicle 12 hr day	\$600.00 day		2	\$1,200.00
ACCOMMODATION - HOTEL	\$/person/day for room, meals, etc	\$170.00 day			
					\$1,200.00

		ADDED COSTS (LOGISTICS, SUPPORT, MOBILIZATION, DEMOBILIZATION) Demob allowance of 2.5% to be added to total daily costs			
TOTAL DAILY COST					\$19,825.00

VALUES ESTIMATOR

MATURE TIMBER VALUES		HECTARES	
COAST			
INTERIOR			
IMMATURE TIMBER VALUES			
COAST			
INTERIOR			
TOTAL VALUES			

The Fire Analysis (FS 1144) is the document that describes the general control objectives and strategies, and substantiates the expenditure of resources and money required to monitor, control or extinguish a fire, against the values at risk.

- What:** a document outlining the strategies, objectives, tactics, values at risk of a fire as agreed to by the Land Manager, and specific Fire Centre Manager
- Where:** for all land that is managed for fire management and post fire rehabilitation
- Why:** to document the actions to be taken, with regards to agreed resources and costs required for completing the action, and the \$\$ value of what is being protected; to assist in the prioritization of resources in the event of multi incidents requiring action; to assist in the communication flow between I/C>RWCO>PWCO and Fire Centre Manager>District Manager
- When:** typically after initial attack failure (after 1st 24 hrs), for expanded attack fires, all monitor only fires, fires with special values, fires which may incur above average costs/expenditures.
- Whom:** filled out by the Incident Commander, MZOC Director or Zone Protection Officer, Fire Centre designate, a representative of the applicable Land Management Agency (Forests, Parks, etc), Fire Behaviour Analyst (if available), Weather Tech/forecasts, Senior Protection personnel, or others as required and approved by the fire centre manager or designate.
- Process:** to be filled out as soon as possible, even if no other Agency representatives are available

Before initiating a Fire Analysis staff must read the BC Wildfire Management Branch's Provincial Standard Operating Procedure titled **Fire Analysis initiation, tracking, monitoring and updating process**. It can be found in BC Wildfire Management Branch's Online Library within the Provincial/Fire Operations/Operations/Standard Operating Guidelines section.

The actual Fire Analysis form (FS 1144) is available as either a SHANA or WORD document fill in form, or PDF file and can be found in the Ministry of Forests and Range forms section using the link below:

<http://icw.for.gov.bc.ca/iscripts/isb/forms/forms.asp>

The following guideline is only for those sections that may need clarification.

Self Explanatory sections have not been included.

Page 1 of FS 1144 includes:

The **WEATHER FORECAST FOR OPERATIONAL PERIOD** section can be filled out by the IC or DESIGNATE but the **FIRE BEHAVIOUR FORECAST** and **LONG TERM FIRE GROWTH ANALYSIS** sections should be filled out by a Fire Behaviour Analyst..

Refer to the guideline "Considerations for Long Range Fire Growth Analysis".

After providing input into the document, it must be signed off by the appropriate Land Manager (Ministry of Forests and Range, Parks, etc..) as once signed changes are limited and/or become amendment.

Must be signed by the Incident Commander, reviewed by the RWCO (or designate) and final signature by the Fire Centre Manager.

An update of the Fire Analysis will occur when specific conditions are met and or crossed, such as specific dates, anticipated/expected fire behaviour, use of geographic boundaries/locations (trigger points), costs exceeding estimated costs etc.

Page 2 of FS 1144, Details on Issues, Damages, and Values at Risk:

This page is to detail the concerns and potential effects of the fire, values at risk, damages to timber/ecosystems, recreational values, wildlife values such as habitat, social values, public safety issues, public concerns, infrastructure improvements, fire fighter safety, etc.

The intent of the Issues, Damages and Values at Risk is to be more specific to what is actually at risk.

There must be consistency between the Land Manager Values and the FS 1144 page two values. It is the Land Manager that determines the values at risk.

Page 3 of FS 1144 FIRE CONTROL OBJECTIVES and STRATEGIES Options:

The information on page 3 of FS 1144 will be required. The only time it would not be required is if, the only option is obviously full response due to adjacent values. The fire control objectives and strategies options details how you are going to accomplish your objectives, and provides decision-making documentation.

Objective: what you are aiming at achieving, what is your goal?

- To prevent the fire from moving from xxxx Cr. into the adjacent reforested cut blocks and timbered areas currently under development with FL/TFL xxx
- To prevent fire from reaching 20 yr old regenerated cut block, or use of a geographic, keep fire south of FSR XXX
- Under the "Objectives/Strategies", a statement must be included on the percent chance of success for each option reviewed.

Strategy: how do you plan to achieve your objective?

- Full response methods, direct attack, indirect, parallel
- Modified response methods may include contingency guard construction, burn off, or suppression action on only one part of the fire. Modified response includes monitor only incidents which may be observe only. If so, describe the observation method (air patrol) and frequency, paying particular attention to both the long and short term commitment and cost.

Tactics: what are you going to do to achieve your strategy, and you may have several options, however:

Full Response (direct or indirect attack)

- Use of two unit crews to anchor base of fire; use two excavators to complete fuel break from A to B on east and west flanks for complete containment.
- R/W support from a mix of heavy/medium/intermediate/light for bucketing, moving of equipment, fill relay tanks, personnel moves.

Modified Response

- Use of two unit crews to anchor base, let fire burn out to natural barriers
- No other action anticipated.
- No action until specific boundaries/trigger point are crossed
- Monitor-No fire management action recommend at this time

Page 4 of FS 1144 Values at Risk and Trigger Points:

As per instruction on the page, trigger points are identified on the map to indicate when another level of action or monitoring will commence.

Examples:

- When the fire reaches trigger point 1 we will commence monitoring 2 x per week with air patrols under low potential for growth burning conditions or daily with Protection staff under conditions with high potential for growth burning conditions.

INSTRUCTIONS

- When the fire reaches trigger point 6 under conditions with high potential for growth we will evacuate XXXXX community.

Page 5 of FS 1144 Fire Analysis Update:

This page is used when updating a fire that currently has a completed Fire Analysis. A Fire Analysis can have multiple updates. Ensure the update # at the top of the page is filled in and is also recorded at the end of page 1 in the UPDATE section.

Page 6 of FS 1144 Daily Cost Estimator:

Please see instructions for use. This page will not print unless there are dollars entered.

The Daily Cost Estimator is also available as a SHANA FILLER form for automatic fill-in, or as a PDF for hand use.

Remember to be as accurate as possible in all areas of the estimator. All costs are on a per unit basis.

If help is required with completing the Fire Analysis, please contact your supervisor first and then if required, your Fire Centre.

Environmental Effects

Airshed

- 0 = No Effect
- 1 = Minor, Short Term Effect < 24 hours, no special events
- 2 = Minor, Short Term Effect < 24 hours, Special Events in Progress
- 3 = Major, Long Term Effect < 24 hours, No Special Events/Concerns
- 4 = Major, Long Term Effect < 24 hours, Special Events in Progress
- 5 = Major, Long Term Effect < 24 hours, Possible Health Risks to Population

Ecosystem

- 0 = No Effect, Natural Fire
- 1 = Minor Effect, Short Term < 1 year, Natural Fire, Rehab Possible
- 2 = Major Effect, Short Term 1 - 5 years, Natural Fire, Rehab Possible
- 3 = Minor Effect, Long Term > 5 years, Unnatural Fire, Rehab Possible
- 4 = Major Effect, Long Term > 5 years, Unnatural Fire, Rehab Possible
- 5 = Major Effect, Long Term > 5 years, Unnatural Fire, Rehab NOT Possible

Fisheries

- 0 = No Effect
- 1 = Minor Short Term Effect < 1 year
- 2 = Minor Effect, Long Term > 1 year
- 3 = Major Effect, Short Term < 1 year, Rehab Possible
- 4 = Major Effect, Long Term > 1 year, Rehab Possible
- 5 = Major Effect, Long Term > 1 year, Rehab NOT Possible

Forage

- 0 = No Effect Or No Usage or Forage on Site
- 1 = Minor Short Term Effect < 1 year
- 2 = Minor Long Term Effect > 1 year
- 3 = Major Short Term Effect < 1 year
- 4 = Major Long Term Effect > 1 year
- 5 = Major Degradation of Forage Values > 5 years to recovery

Forestry

- 0 = No Effect
- 1 = Minor Short Term Effect, Salvageable
- 2 = Minor Long Term Effect, Salvageable
- 3 = Major Short Term Effect, Salvageable
- 4 = Major Long Term Effect, Salvageable
- 5 = Major Long Term Effect, Non-Salvageable

Recreational

- 0 = Minor Short Term Effect, Rehab Possible
- 1 = Minor Long Term Effect, Rehab Possible
- 2 = Major Short Term Effect, Rehab Possible
- 3 = Major Long Term Effect, Rehab Possible
- 4 = Major Short Term Effect, Rehab NOT Possible
- 5 = Major Long Term Effect, Rehab NOT Possible

Visual Aesthetics

- 0 = No Effect
- 1 = Minor Short Term Effect < 5 years
- 2 = Minor Long Term Effect > 5 years
- 3 = Major Short Term Effect < 5 years
- 4 = Major Long Term Effect > 5 years

Watershed

- 0 = No Effect
- 1 = Minor Effect, Short Term < 1 year
- 2 = Minor Long Term Effect 1 - 3 years
- 3 = Major Short Term Effect < 1 year, Rehab Possible
- 4 = Major Long Term Effect 1 - 3 years, Rehab Possible
- 5 = NO REHAB POSSIBLE on any effects

Wilderness

- 0 = No Effect
- 1 = Minor Short Term Effect, Light Hand Tactics Required
- 2 = Minor Long Term Effect, Light Hand Tactics Required
- 3 = Major Short Term Effect, Light Hand Tactics PLUS Rehab Required
- 4 = Major Long Term Effect, Light Hand Tactics PLUS Rehab Required
- 5 = Major Effects, Light Hand Tactics Required, NO REHAB POSSIBLE

Wildlife

- 0 = No Adverse Effects on Threatened/Endangered Species
- 1 = Minor Short Term Effects Threatened/Endangered Species, Rehab Possible
- 2 = Minor Long Term Effects Threatened/Endangered Species, Rehab Possible
- 3 = Major Short Term Effects Threatened/Endangered Species, Rehab Possible
- 4 = Major Long Term Effects Threatened/Endangered Species, Rehab Possible
- 5 = Effects to Threatened/Endangered Species, Rehab NOT Possible

Social Effects

Cultural Resources

- 0 = No Effect
- 1 = Minor Effect, Replaceable, Not Unique
- 2 = Minor Effect, Not Replaceable, Not Unique
- 3 = Minor Effect, Not Replaceable, Unique
- 4 = Major Effect, Replaceable, Not Unique
- 5 = Major Effect, Not Replaceable, Unique

Fire Fighter Safety

- 0 = Minor Risk of Minor Injury, Normal Precautions Required
- 1 = Minor Risk of Minor Injury, Above Normal Precautions Required
- 2 = Minor Risk of Major Injury/Time Loss, Normal Precautions Required
- 3 = Major Risk of Minor Injury, Above Normal Precautions Required
- 4 = Minor Risk of Major Injury/Time Loss, Above Normal Precautions Required
- 5 = Major Risk of Major Injury/Time Loss, Fire Should not be worked by crews under Normal Circumstances

Improvement Protection

- 0 = No Improvements/Pipelines/Well Sites/Powerlines/Telephone/Pipelines/Well Sites
- 1 = Few Improvements Easily Protected Under Normal Conditions (Powerlines/Telephone)
- 2 = Many Improvements Easily Protected Under Normal Conditions
- 3 = Few Improvements Protected with extra effort, May compromise Fire Control Effort on areas without Improvements
- 4 = Many Improvements Protected with extra effort, May compromise Fire Control Effort on areas without Improvements
- 5 = Improvements at risk regardless of Control Effort

Public Concern

- 0 = No Public Concerns other than curiosity
- 1 = Minor Public Concern, Normal P.R. Required
- 2 = Minor Public Concern, Extra P.R. Effort Required
- 3 = Major Public Concern, Normal P.R. Required
- 4 = Major Public Concern, Extra P.R. Effort Required
- 5 = Major Public Concern, Multi-Media Involvement Likely (Major Urban/Interface type fire)

Public Safety

- 0 = No Public Safety Concern, Isolated Fire Area
- 1 = Minor Public Safety Concern, Normal Signing/Security Precautions
- 2 = Minor Public Safety Concern, Extra Effort in Security Required
- 3 = Major Public Safety Concern, Access Management/Security Measures a must
- 4 = Major Public Safety Concern, Above Measures Required, Evacuations Possible for small number of People
- 5 = Major Public Safety Concern, Evacuations Likely and or large numbers of people involved