

BURN SEVERITY - COMPOSITE BURN INDEX (BI)

PD - Abridged	Examiners:		Fire	Name:	- Auto-
Registration Code		Project Code		Plot Number	
Field Date mmddyyyy	1 /	Fire Date mmyyyy	1		
Plot Aspect		Plot % Slope		UTM Zone	
Plot Diameter Overstory		UTM E plot center		GPS Datum	
Plot Diameter Understory		UTM N plot center		GPS Error (m)	
Number of Plot Photos	Plot	Photo IDs		<u> </u>	

A. SUBSTRATES % Pre-Fire Cover: Litter = Litter/Light Fuel Consumed Duff Medium Fuel, 3-8 in. Heavy Fuel, > 8 in. Soil & Rock Cover/Color B. HERBS, LOW SHI Pre-Fire Cover = % Foliage Altered (blk-bm) Frequency % Living Colonizers	Unchanged Unchanged Unchanged Unchanged Unchanged Unchanged RUBS AND	- - - -	Low 1.0 Soil/Rock = 50% litter Light char 20% consumed 10% loss 10% change	1.5	Moderate 2.0 re Depth (inches): Lit 100% litter 50% loss deep char	2.5	High 3.0 T= Fuel Bed	FACTOR SCORES
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Litter/Light Fuel Consumed Duff Medium Fuel, 3-8 in. Heavy Fuel, > 8 in. Soil & Rock Cover/Color B. HERBS, LOW SHI Pre-Fire Cover = % Foliage Altered (blk-bm) Frequency % Living Colonizers	Unchanged Unchanged Unchanged Unchanged Unchanged Unchanged	- - - -	50% litter Light char 20% consumed 10% loss		100% litter		T = Fuel Bed	
Duff Medium Fuel, 3-8 in. Heavy Fuel, > 8 in. Soil & Rock Cover/Color B. HERBS, LOW SHI Pre-Fire Cover = % Foliage Altered (blk-bm) Frequency % Living Colonizers	Unchanged Unchanged Unchanged Unchanged Unchanged Unchanged	- - -	Light char 20% consumed 10% loss			000 11		=
Medium Fuel, 3-8 in. Heavy Fuel, > 8 in. Soil & Rock Cover/Color B. HERBS, LOW SHI Pre-Fire Cover = % Foliage Altered (blk-bm) Frequency % Living Colonizers	Unchanged Unchanged Unchanged RUBS AND		Light char 20% consumed 10% loss		500:1 5 1	>80% light fuel	98% Light Fuel	1
Heavy Fuel, > 8 in. Soil & Rock Cover/Color B. HERBS, LOW SHI Pre-Fire Cover = % Foliage Altered (blk-bm) Frequency % Living Colonizers	Unchanged Unchanged RUBS AND		10% loss		1 30% loss deep char	-	Consumed	
Soil & Rock Cover/Color B. HERBS, LOW SHI Pre-Fire Cover = % Foliage Altered (blk-bm) Frequency % Living Colonizers	Unchanged RUBS AND				40% consumed		>60% loss, deep ch	
B. HERBS, LOW SHI Pre-Fire Cover = % Folinge Altered (blk-bm) Frequency % Living Colonizers	RUBS AND		10% change		25% loss, deep char	••	>40% loss, deep ch	
Pre-Fire Cover = % Folinge Altered (blk-bm) Frequency % Living Colonizers	C.	TREE		_	40% change	-	>80% change	
% Folinge Altered (blk-bm) Frequency % Living Colonizers			S LESS THA	N 3 FEI	ET (1 METER):			<u>IL</u>
Frequency % Living Colonizers	Unchanged	% Enhai	iced Growth =	******				
Colonizers			30%		80%	95%	100% + branch loss	
	100%		90%	-	50%	< 20%	None	
Spp. Comp Rel. Abund.	Unchanged	-	Low		Moderate	High-Low	Low to None	
	Unchanged		Little change		Moderate change		High change	
C. TALL SHRUBS AT	ND TREES	3 to 16	FEET (1 TO	5 MET	ERS):	· · · · · · · · · · · · · · · · · · ·		
Pre-Fire Cover =	(% Enha	nced Growth =					
% Foliage Altered (blk-bm)	0%	_	20%		60-90%	> 95%	Signifent branch loss	l
Frequency % Living	100%		90%	_	30%	< 15%	< 1%	
% Change in Cover	Unchanged	_	15%		70%	90%	100%	
Spp. Comp Rel. Abund.	Unchanged	-	Little change		Moderate change	_	High Change	
D. INTERMEDIATE	TREES (SU	UBCAN	OPY, POLE-	SIZED	TREES)		-	
Pre-Fire % Cover =	Pre-Fii	re Numb	er Living=		Pre-Fire Number	r Dead =		•••
% Green (Unaltered) %	100%	-	80%		40%	< 10%	None	
% Black (Torch)	None	_	5-20%		60%	> 85%	100% + branch loss	
% Brown (Scorch/Girdle)	None		5-20%		40-80%	< 40 or > \$0%	None due to torch	
% Canopy Mortality	None	_	15%		60%	80%	%100	
Char Height	None	l –	1.5 m	<u> </u>	2.8 m		> 5 m	
Post Fire: %Girdled =		6Felled	- 77 - 9		ortality =			
E. BIG TREES (UPP)	ER CANOP	Y, DO	MINANT, CO	DOMN	NANT TREES)			
Pre-Fire % Cover =		re Numb	er Living =		Pre-Fire Number	r Dead =		
% Green (Unaltered)	100%		95%		50%	< 10%	None	
% Black (Torch)	None		5-10°%		50%	> 80%	100% + branch loss	
% Brown (Scorch/Girdle)	None		5-10%		30-70%	< 30 or > 70%	None due to torch	
% Canopy Mortality	None		10° c	-	50%	70%	%100	
Char Height	None	L -	1.8 m		4 m		> 7 m	1
Post Fire: %Girdled =	9,	6Felled	= %	Tree M	ortality =			
Community Notes/Con	nments:		CBI =		Scores / N Rated:		ores N Rated	CBI
				Un	derstory (A+B+C			
					Overstory (D+E)		
				Total P	iot (A+B+C+D+E)		

After, Key and Benson 1999, USGS NRMSC, Glacier Field Station, Version 4.0 8 37, 2004