

COLORADO DEPARTMENT OF HEALTH  
PERMIT APPLICATION AND REPORTING OF OPEN BURNING FOR---  
PLANNED IGNITION HABITAT, FOREST, AND RANGE MANAGEMENT PROJECTS  
(Form APC-90A) Revised 12/93

PERMITTEE: BLM\_\_\_ CDOW\_\_\_ CSFSX\_\_\_ NPS\_\_\_ USFS\_\_\_ USF&WS\_\_\_ Other\_\_\_

ADMINISTRATIVE UNIT: Fort Collins District COUNTY: Larimer

CONTACT: Michael Hughes PHONE: (970) 491-8660

ADDRESS: Bldg 1052, Foothills Campus, CSU, Fort Collins CO 80523

BURN NAME: Trail Creek #3 LOCATION: NW 1/4, S36, T12N, R74W, 6th PM  
(T, R, &S or Long/Lat)

MANAGEMENT USE/TYPE OF PROJECT (Check appropriate use/uses):

NATURAL FUEL REDUCTION	<u>XX</u>	SPECIES CONVERSION	___	SITE PREP	___
ACTIVITY FUEL REDUCTION	___	RANGE IMPROVEMENT	___	WILDLIFE	___
HAZARDOUS FUEL REDUCTION	___	PEST CONTROL	___	OTHER	___
(around development)					

PROPOSED BURN DATES: October 1, 1996 -- December 31, 1996  
(Month or season is sufficient, but dates must be in the same calendar year):

BROADCAST BURNS  
TOTAL ACREAGE \_\_\_\_\_

OR

PILE BURNS  
NUMBER OF PILES 11 AND AVERAGE VOLUME PER PILE (Ft<sup>3</sup>) 9,450

SMOKE SENSITIVE AREAS*	DISTANCE FROM BURN(miles)	DIRECTION FROM BURN(degrees)
<u>U.S. Highway 287</u>	<u>6.0</u>	<u>80°</u>

\*Smoke sensitive areas include: Class I areas as well as other scenic and important views especially during times of significant visitor use, urban and rural population centers, hospitals, nursing homes, schools, transportation facilities such as roads, highways, and airports, recreational areas, and other locations that may be sensitive to smoke impacts for health, safety, and/or aesthetic reasons.

Applicant Signature: Michael M. Hughes Date: Sept 23, 1996

Submit Application To: Colorado Dept. of Health, APCD-SS-B1,  
4300 Cherry Creek Drive South  
Denver, CO 80222-1530

Note: 1) Approval of permit required before commencement of burning. 2) Permit conditions include adherence to Colorado Smoke Management Memorandum of Understanding and Smoke Management Plan. 3) Additional conditions to permit may be attached. 4) Permit decision within 20 days of receipt of complete application by the APCD. 5) When estimating average volume per pile of slash it is understood that the best available information may be estimates and or expert judgement.

Approved for NW-SW winds only C. Campbell 10/24/96  
Approved by Colorado APCD: [Signature] Date: 11/6/96 Permit number (APCD assigned): 596290  
rwd 10-7-96

PERMIT NUMBER: \_\_\_\_\_

**ACTUAL FIRE ACTIVITY**  
(Form APC-90A) Revised 12/93

NO FIRE ACTIVITY AT THIS LOCATION DURING PERMIT PERIOD  
(CHECK IF APPLICABLE, SIGN BELOW AND RETURN FORM BY MARCH 1<sup>st</sup>): \_\_\_\_\_

ACTUAL BURN BEGAN: DATE 12/6/96 TIME 9:30am  
ACTUAL BURN ENDED: DATE 12/7/96 TIME 3:30pm

FOR BROADCAST BURNS

ACTUAL ACREAGE: \_\_\_\_\_ FUEL LOADING DETERMINATION METHOD:  
INVENTORY \_\_\_\_\_ TABLE 1\* (which model) \_\_\_\_\_  
PROFESSIONAL JUDGEMENT \_\_\_\_\_

FUEL TYPES	PERCENT OF ACTUAL ACREAGE (must total 100%)	FUEL LOADING (tons/acre)	PERCENT CONSUMPTION
GRASS			
SAGEBRUSH			
OAKBRUSH			
ASPEN			
PINE/CONIFER			
OTHER			
OTHER			

\* Aid to Determining Fuel Models for Estimating Fire Behavior, GTR INT-122.

FOR PILE BURNS

FUEL TYPES  
(check all that are applicable)

SAGEBRUSH	
OAKBRUSH	
ASPEN	<input checked="" type="checkbox"/>
PINE/CONIFER	<input checked="" type="checkbox"/>
OTHER	
OTHER	

NUMBER OF PILES: 11  
AVERAGE VOLUME PER PILE (FT<sup>3</sup>): 9450 ft<sup>3</sup>  
AVERAGE % CONSUMED: 90%  
ACREAGE (from which pile  
was collected- OPTIONAL): \_\_\_\_\_

SIGNATURE: [Signature] DATE: 12-17-96

Submit To: Colorado Department of Health, APCD-SS-B1  
4300 Cherry Creek Drive South  
Denver, CO 80222-1530

Note: 1) Reporting of fire activity for previous calendar year's permitted planned ignitions due by March 1st. 2) If no actual fire activity occurred on a permitted proposed burn, check appropriate space and sign and date form. 3) If permitted burn became a wildfire, report it as a wildfire. 4) When reporting, for example fuel loading, it is understood that the best available information may be estimates and/or expert judgement.

Date received by APCD: \_\_\_\_\_ Date entered into database: \_\_\_\_\_



COLORADO DEPARTMENT OF HEALTH  
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PLANNED IGNITION HABITAT, FOREST, AND RANGE MANAGEMENT PROJECTS  
(Form APC-90A) Revised 12/93

PERMITTEE: BLM\_\_\_ CDOW\_\_\_ CSFS X NPS\_\_\_ USFS\_\_\_ USF&WS\_\_\_ Other\_\_\_

ADMINISTRATIVE UNIT: Fort Collins District COUNTY: Larimer

CONTACT: Michael Hughes PHONE: (970) 491-8660

ADDRESS: Bldg 1052, Foothills Campus, CSU, Fort Collins CO 80523

BURN NAME: Trail Creek #3 LOCATION: NW 1/4, S36, T12N, R74W, 6th PM  
(T, R, &S or Long/Lat)

MANAGEMENT USE/TYPE OF PROJECT (Check appropriate use/uses):

NATURAL FUEL REDUCTION	<u>XX</u>	SPECIES CONVERSION	___	SITE PREP	___
ACTIVITY FUEL REDUCTION	___	RANGE IMPROVEMENT	___	WILDLIFE	___
HAZARDOUS FUEL REDUCTION	___	PEST CONTROL	___	OTHER	___
(around development)					

PROPOSED BURN DATES: October 1, 1996 -- December 31, 1996  
(Month or season is sufficient, but dates must be in the same calendar year):

BROADCAST BURNS  
TOTAL ACREAGE                     

OR

PILE BURNS  
NUMBER OF PILES 11 AND AVERAGE VOLUME PER PILE (FT<sup>3</sup>) 9,450

SMOKE SENSITIVE AREAS*	DISTANCE FROM BURN(miles)	DIRECTION FROM BURN(degrees)
<u>U.S. Highway 287</u>	<u>6.0</u>	<u>80°</u>

\*Smoke sensitive areas include: Class I areas as well as other scenic and important views especially during times of significant visitor use, urban and rural population centers, hospitals, nursing homes, schools, transportation facilities such as roads, highways, and airports, recreational areas, and other locations that may be sensitive to smoke impacts for health, safety, and/or aesthetic reasons.

Applicant Signature: Michael M. Hughes Date: Sept 23, 1996

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Approved by Colorado APCD: \_\_\_\_\_ Date: \_\_\_\_\_ Permit number (APCD assigned): \_\_\_\_\_

**ACTUAL FIRE ACTIVITY**  
(Form APC-90A) Revised 12/93

NO FIRE ACTIVITY AT THIS LOCATION DURING PERMIT PERIOD  
(CHECK IF APPLICABLE, SIGN BELOW AND RETURN FORM BY MARCH 1<sup>st</sup>): \_\_\_\_\_

ACTUAL BURN BEGAN: DATE \_\_\_\_\_ TIME \_\_\_\_\_  
ACTUAL BURN ENDED: DATE \_\_\_\_\_ TIME \_\_\_\_\_

FOR BROADCAST BURNS

ACTUAL ACREAGE: \_\_\_\_\_ FUEL LOADING DETERMINATION METHOD:  
INVENTORY \_\_\_\_\_ TABLE 1\* (which model) \_\_\_\_\_  
PROFESSIONAL JUDGEMENT \_\_\_\_\_

FUEL TYPES	PERCENT OF ACTUAL ACREAGE (must total 100%)	FUEL LOADING (tons/acre)	PERCENT CONSUMPTION
GRASS			
SAGEBRUSH			
OAKBRUSH			
ASPEN			
PINE/CONIFER			
OTHER			
OTHER			

\* Aid to Determining Fuel Models for Estimating Fire Behavior, GTR INT-122.

FOR PILE BURNS

FUEL TYPES  
(check all that are applicable)

SAGEBRUSH	
OAKBRUSH	
ASPEN	
PINE/CONIFER	
OTHER	
OTHER	

NUMBER OF PILES: \_\_\_\_\_  
AVERAGE VOLUME PER PILE (FT<sup>3</sup>): \_\_\_\_\_  
AVERAGE % CONSUMED: \_\_\_\_\_  
ACREAGE (from which pile  
was collected- OPTIONAL): \_\_\_\_\_

SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_

Submit To: Colorado Department of Health, APCD-SS-B1  
4300 Cherry Creek Drive South  
Denver, CO 80222-1530

*Note: 1) Reporting of fire activity for previous calendar year's permitted planned ignitions due by March 1st. 2) If no actual fire activity occurred on a permitted proposed burn, check appropriate space and sign and date form. 3) If permitted burn became a wildfire, report it as a wildfire. 4) When reporting, for example fuel loading, it is understood that the best available information may be estimates and/or expert judgement.*

Date received by APCD: \_\_\_\_\_ Date entered into database: \_\_\_\_\_

Your input values from SASSEM are:

1. Fire/site name .....	Trail Creek #3
2. Date of the burn .....	Fall 1996
3. Burn type of the fire .....	PILED
4. Fuel type of the fire .....	WOOD
5. Size of the fire .....	11 piles
6. Fuel loading of the fire site .....	9450. cu ft
7. Fireline intensity .....	1450.0 Btu/ft/sec
8. Burn duration .....	4.00 hours
9. Meteorology type .....	SASSEM

The SASEM calculated emission statistics are:

Pollutant of interest .....	Particulates (TSP and PM10)
Emission factor .....	17.92 g/kg
Emission rate .....	44.81 g/s/pile
Total particulates emitted .....	7.8 tons
Proportion of fuel consumed .....	80. %
Heat content of fuel specified .....	7000. Btu/lb
Residence time of fire front .....	960. s
Heat release rate for a plume .....	9723899. cal/s
Persistence factor for concentration .....	0.17
Proportion of smoke which rises .....	90. %
Proportion of total particulates in PM10 ....	80. %



Disp Day	Wind Speed (MPH)	Maximum Concen (ug/m**3)	Distance to Maximum Concen (mi)	Exceedences of Standards				Plume Rise (m)
				TSP*		PM10*		
				Distance Downwind				
				From (mi)	To (mi)	From (mi)	To (mi)	
EXC	2.0	11.8	4.74	NO VIOLATION		NO VIOLATION		1476.
EXC	3.0	16.6	3.30	NO VIOLATION		NO VIOLATION		984.
EXC	4.0	21.0	2.55	NO VIOLATION		NO VIOLATION		738.
EXC	5.0	25.3	2.08	NO VIOLATION		NO VIOLATION		591.
EXC	6.0	29.4	1.77	NO VIOLATION		NO VIOLATION		492.
EXC	7.0	33.4	1.54	NO VIOLATION		NO VIOLATION		422.
EXC	8.0	37.2	1.37	NO VIOLATION		NO VIOLATION		369.
EXC	9.0	41.0	1.23	NO VIOLATION		NO VIOLATION		328.
EXC	10.0	44.7	1.12	NO VIOLATION		NO VIOLATION		295.
GOOD	5.0	16.9	5.01	NO VIOLATION		NO VIOLATION		591.
GOOD	6.0	20.3	4.10	NO VIOLATION		NO VIOLATION		492.
GOOD	7.0	23.7	3.46	NO VIOLATION		NO VIOLATION		422.
GOOD	8.0	27.0	2.99	NO VIOLATION		NO VIOLATION		369.
GOOD	9.0	30.4	2.63	NO VIOLATION		NO VIOLATION		328.
GOOD	10.0	33.7	2.34	NO VIOLATION		NO VIOLATION		295.
FAIR	7.0	8.3	7.60	NO VIOLATION		NO VIOLATION		422.
FAIR	8.0	10.3	6.00	NO VIOLATION		NO VIOLATION		369.
FAIR	9.0	12.4	4.87	NO VIOLATION		NO VIOLATION		328.
FAIR	10.0	14.7	4.04	NO VIOLATION		NO VIOLATION		295.
POOR	2.0	112.5	5.38	NO VIOLATION		NO VIOLATION		203.
POOR	3.0	110.7	4.06	NO VIOLATION		NO VIOLATION		177.
POOR	4.0	109.4	3.33	NO VIOLATION		NO VIOLATION		161.
POOR	5.0	105.9	2.85	NO VIOLATION		NO VIOLATION		150.
POOR	6.0	101.7	2.51	NO VIOLATION		NO VIOLATION		141.
POOR	7.0	98.2	2.26	NO VIOLATION		NO VIOLATION		134.
POOR	8.0	95.2	2.06	NO VIOLATION		NO VIOLATION		128.
POOR	9.0	92.6	1.90	NO VIOLATION		NO VIOLATION		123.
POOR	10.0	90.3	1.76	NO VIOLATION		NO VIOLATION		119.

\* The primary TSP standard is 150. micrograms per cubic meter.  
The primary PM10 standard is 150. micrograms per cubic meter.

Roy: JAN 10 1995

Here is a Copy  
of Burn Plan

also Don't Forget to  
send in a Burn Permit  
to the State.

Thanks

Bare



NOV 7 1994

COLORADO DEPARTMENT OF HEALTH  
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PERMITTEE: BLM \_\_\_ CDOW \_\_\_ CSFS XX NPS \_\_\_ USFS \_\_\_ USF&WS \_\_\_ Other \_\_\_\_\_ADMINISTRATIVE UNIT: Fort Collins District COUNTY: LarimerCONTACT: Ray Mehaffey PHONE: (303) 491-8660ADDRESS: Bldg. 1052 Foothills Campus - CSU Fort Collins, CO 80523BURN NAME: Trail Creek #3 LOCATION: NW 1/4, S36, T12N, R74W, 6th PM  
(T, R, &S or Long/Lat)

## MANAGEMENT USE/TYPE OF PROJECT (Check appropriate use/uses):

NATURAL FUEL REDUCTION	<u>XX</u>	SPECIES CONVERSION	___	SITE PREP	___
ACTIVITY FUEL REDUCTION	___	RANGE IMPROVEMENT	___	WILDLIFE	___
HAZARDOUS FUEL REDUCTION (around development)	___	PEST CONTROL	___	OTHER	___

PROPOSED BURN DATES: November 29, 1994 - December 31, 1994  
(Month or season is sufficient, but dates must be in the same calendar year):

OCT 12 1994

BROADCAST BURNS  
TOTAL ACREAGE \_\_\_\_\_

OR

PILE BURNS  
NUMBER OF PILES 11 AND AVERAGE VOLUME PER PILE (FT<sup>3</sup>) 9,450

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Applicant Signature: Ray Mehaffey Date: October 7, 1994Submit Application To: Colorado Dept. of Health, APCD-SS-B1,  
4300 Cherry Creek Drive South  
Denver, CO 80222-1530

Note: 1) Approval of permit required before commencement of burning. 2) Permit conditions include adherence to Colorado Smoke Management Memorandum of Understanding and Smoke Management Plan. 3) Additional conditions to permit may be attached. 4) Permit decision within 20 days of receipt of complete application by the APCD. 5) When estimating average volume per pile of slash it is understood that the best available information may be estimates and or expert judgement.

Approved by Colorado APCD: Durdon Date: 10/19/94 Permit number (APCD assigned): 594314

PERMIT NUMBER: \_\_\_\_\_

**ACTUAL FIRE ACTIVITY**  
(Form APC-90A) Revised 12/93

NO FIRE ACTIVITY AT THIS LOCATION DURING PERMIT PERIOD  
(CHECK IF APPLICABLE, SIGN BELOW AND RETURN FORM BY MARCH 1<sup>st</sup>): X

ACTUAL BURN BEGAN: DATE \_\_\_\_\_ TIME \_\_\_\_\_  
ACTUAL BURN ENDED: DATE \_\_\_\_\_ TIME \_\_\_\_\_

**FOR BROADCAST BURNS**

ACTUAL ACREAGE: \_\_\_\_\_ FUEL LOADING DETERMINATION METHOD:  
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**FOR PILE BURNS**

**FUEL TYPES**  
(check all that are applicable)

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OAKBRUSH	
ASPEN	
PINE/CONIFER	
OTHER	
OTHER	

NUMBER OF PILES: \_\_\_\_\_  
AVERAGE VOLUME PER PILE (FT<sup>3</sup>): \_\_\_\_\_  
AVERAGE % CONSUMED: \_\_\_\_\_  
ACREAGE (from which pile  
was collected- OPTIONAL): \_\_\_\_\_

SIGNATURE: Ray Murphy DATE: 3/7/95

Submit To: Colorado Department of Health, APCD-SS-B1  
4300 Cherry Creek Drive South  
Denver, CO 80222-1530

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ADMINISTRATIVE UNIT: Fort Collins District COUNTY: Larimer

CONTACT: Ray Mehaffey PHONE: (303) 491-8660

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(T, R, &S or Long/Lat)

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HAZARDOUS FUEL REDUCTION	___	PEST CONTROL	___	OTHER	___
(around development)					

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Approved by Colorado APCD: \_\_\_\_\_ Date: \_\_\_\_\_ Permit number (APCD assigned): \_\_\_\_\_



10/94

## Slash Piles

Trail Creek # 2-4 Sales

Trail Creek #2 - All piles burned to date

Trail Creek #3

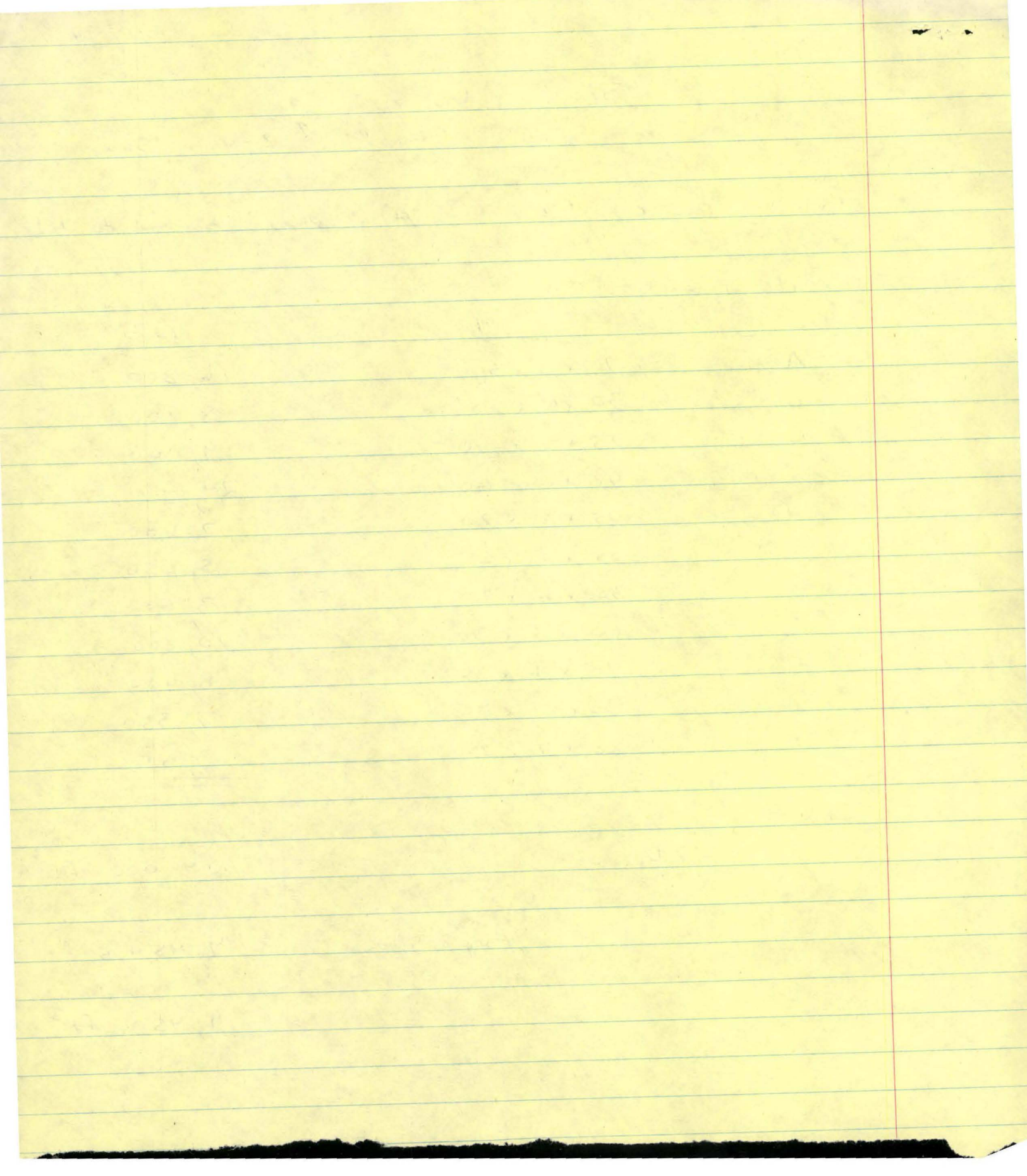
<u>Unit</u>	<u>Piles</u>	<u>ft<sup>3</sup></u>
A	70' x 8' x 30'	16,800
B	30 x 6' x 45'	8,100
C	25 x 9 x 40	9,000
	40 x 10 x 60	24,000
D	45 x 8 x 20	7,200
	35 x 6 x 25	5,250
	30 x 6 x 20	3,600
E	60 x 6 x 30	10,800
F	40 x 6 x 35	8,400
G	30 x 7 x 35	7,350
	20 x 7 x 25	3,500
		<u>104,000</u>

11 Piles

104,000 ft<sup>3</sup>

Avg. Size

9,454.5 ft<sup>3</sup>9,450 ft<sup>3</sup>





Prescribed Burn Plan

For

TRAIL CREEK Sale #3

District FORT COLLINS

Prepared by \_\_\_\_\_

Date \_\_\_\_\_

District Forester Ray Mehafeey

Date 10/7/94

Approved by Ken Gonsell

Date 10/14/94 with condition below

Area Forester

Approved by Bernard G. Gort

Date 10/31/94

Fire Division

Responsible Individuals:

Plan Execution: MEHAFFEY  
Prescribed Burn Boss

Prescribed Fire Manager:

Primary: MEHAFFEY

Alternate: HUGHES/FARMER

Burn plan returned  
after permitted dates.  
no burning done as of 3/95.  
RM

Date Fire Out: \_\_\_\_\_

Certified By: \_\_\_\_\_

Title: \_\_\_\_\_

Note: Fires are not to be left unmonitored and without periodic check until Fires are declared out and appropriate authorities notified, after which time all fire is unwanted. P.G.



MANAGERIAL INPUTS

(\* Indicates minimum which must be completed for pile burning.)

\*Project Location:

\*T 12N R 73W Sec 36 1/4 \_\_\_\_\_

\*County LARIMER

I. Resource Management Objectives:

TO ELIMINATE PILED SLASH THAT HAS RESULTED FROM PRODUCTS SALES ON STATE  
LAND.

\*II. Burn Objectives (Specify in quantitative terms)

A. Hazard Reduction ELIMINATE 95% OF PILED MATERIAL

B. Silviculture TIES TO MANAGEMENT PLAN OF ELIMINATING DWARF  
MISTLETOE

C. Site Preparation \_\_\_\_\_

D. Wildlife Habitat \_\_\_\_\_  
(Attach DOW Evaluation as Appendix I)

E. Insect/Disease Control REDUCE POTENTIAL BUILDUP OF IPS BEETLE

F. Range Management \_\_\_\_\_  
(Attache DOW Evaluation as Appendix I)

G. Special Manipulation \_\_\_\_\_

H. Other (specify) \_\_\_\_\_

III. Type of Prescribed Burn: Broadcast \_\_\_\_\_ Pile X

IV. Pre- and Post-Evaluation Techniques (give description)

\* V. Burning Permit Filed With: (to be sent with burn plan)

- A. Colorado State Health Department  
Dates Approved for Burning

NOVEMBER 1, 1994 - MARCH 31, 1995

APPROVAL PENDING)

- B. County (if applicable)

NOT APPLICABLE

VI. Logistical Information

- A. Pre-ignition (Equipment, Support, etc.) DIESEL TORCH

4-WHEEL DRIVE PICK UPS, HAND TOOLS

- B. Chain of Line to Construct

Hand 0

Other (specify) 0

- C. Equipment Needs

1. Preparation PRE-PILED - NO NEW NEEDS; PILES ARE INSIDE  
CLEARCUT AREAS

2. Burning DISTRICT DIESEL TORCH

3. Holding HAND TOOLS; SHOVELS AND PULASKIS

4. Mop-up HAND TOOLS

5. Distance to Water Source and Type 50 YARDS TO 1/2 MILE TO  
PERENNIAL STREAM - TRAIL CREEK

6. Water Handling (i.e. Porta-tanks, PM Pumps, etc.)  
NONE NEEDED

D. Manpower Needs

1. Preparation NONE

2. Burning 3 PEOPLE

LARIMER COUNTY EMERGENCY SERVICES HAS VOLUNTEERED TO HELP  
WITH BURN (NUMBER UNKNOWN).

3. Holding 3 PEOPLE

4. Mop-up 3 PEOPLE

E. Radio Frequencies CSFS AND LARIMER COUNTY EMERGENCY SERVICE



\*VII. Public Notification LARIMER COUNTY EMERGENCY SERVICE WILL BE NOTIFIED

THE DAY PRIOR AND DAY OF BURN. AREA IS REMOTE BUT SEEN FROM USHY 287.

USFS WILL BE NOTIFIED. NO YEARLONG RESIDENTS IN AREA OF BURN.

\*A. Individuals:

Contacts	Contact Responsibility	Contact Date	Completed (Initials)
<u>NEIGHBORS - HOA</u>	<u>MEHAFFEY</u>	<u>          </u>	<u>          </u>
<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>

\*B. Media:

1. Radio

<u>N/A</u>	<u>          </u>	<u>          </u>	<u>          </u>
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A

2. T.V.

<u>N/A</u>	<u>          </u>	<u>          </u>	<u>          </u>
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3. Newspapers

<u>N/A</u>	<u>          </u>	<u>          </u>	<u>          </u>
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\*C. Agencies:

1. Sheriff

<u>BILL NELSON</u>	<u>MEHAFFEY</u>	<u>          </u>	<u>          </u>
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2. Fire Department

<u>LIVERMORE</u>	<u>DAVID KORTH</u>	<u>221-0638</u>	<u>          </u>
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<u>CSFS</u>	<u>MEHAFFEY</u>	<u>491-8660</u>	<u>          </u>
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Contacts	Contact Responsibility	Contact Date	Completed (Initials)
3. BLM			
<u>N/A</u>			
4. NPS			
<u>N/A</u>			
5. U.S. Forest Service			
<u>NORTHERN DISPATCH</u>	<u>MEHAFFEY</u>		
<u>PH# 498-1348</u>			
6. CSFS State Office - Fire Duty Officer			
<u>MEHAFFEY</u>			
7. Air Quality			
8. Others			

#### VIII. Holding Plan Narrative

FIRES WILL BE IGNITED BETWEEN 9 a.m. - 2 p.m. WITH AT LEAST 5" OF SNOW  
ON THE GROUND. FIRES WILL BE ALLOWED TO BURN DOWN, THEN CHINKED IN.  
THEY WILL SMOLDER OR GO OUT OVERNIGHT AND WILL BE CHECKED THE NEXT DAY.

IX. Mop-up Plan Narrative

FIRE WILL BE ALLOWED TO BURN THEMSELVES OUT.

MOP UP WITH HAND TOOLS, IF NEEDED, WILL BE DONE THE DAF FOLLOWING IGNITION.

\* X. Escaped Fire Contingency Plan

Assessment TO BE MADE BY DISTRICT AT SCENE

Threat of Life and Property NEAREST IMPROVEMENT IS OVER 1 MILE AWAY

Escaped Fire Trigger Mechanisms and Confirmations IF GROUND FIRE BEGINS  
TO SPREAD TOWARD THE EDGE OF CLEARCUT, HAND TOOLS WILL BE USED AS  
NECESSARY.

Additional Suppression Resources with Location to be Called for Fire  
Escape

1. LARIMER COUNTY EMERGENCY SERVICES
2. STATE OFFICE -- FORT COLLINS
3. RED FEATHER RANGER DISTRICT -- USFS
4. LIVERMORE FIRE DEPT



A. Fuel Model (FBPS) LP

B. Burn Area (acres) 26.1 Burn Perimeter (chains) 13.3

C. Fuels:

- #### D. Topographic Considerations

- 7

## II. Descriptive Elements

- \*A. Treatment Date(s) NOVEMBER 1, 1994 - MARCH 31, 1995
- \*B. Time of Day 9:00 A.M. to 4:00 P.M.
- C. Ignition Method TORCH
- D. Preferred Weather Description W NDS UNDER 20 MPH, RH > 30%  
SNOW DEPTH 5"+, NO FRONTS MOVING IN

### E. Smoke Management (SASEM)

	Preferred	Acceptable
*1. Wind Direction	<u>SW</u>	<u>WESTERLY</u>
*2. Wind Speed	<u>5-15 MPH</u>	<u>10-20 MPH</u>
*3. Stability		
*4. Identified Smoke Sensitive Areas	<u>FORT COLLINS &amp; USHWY 287, 35 MILES AWAY</u>	
*4. Actions to be taken to limit impact on sensitive areas	<u>NONE NEEDED DUE TO DISTANCE</u>	

### F. Environmental

	Item	Min.	Max.	Test Burn	Actual
1.	1 HRTL				
2.	10 HRTL				
3.	100 HRTL				
4.	Live FM Content				
5.	Herbaceous FM				

6. Wind Speed \_\_\_\_\_

CSFS #170  
(Rev. 12/90)

G. Prescription -- BEHAVE or NCMOGRAMS used to determine min./max.  
BEHAVE worksheets attached.

*Not authentic  
copy. RG*

3. FLI \_\_\_\_\_

4. H/A \_\_\_\_\_

5. RI \_\_\_\_\_

6. Scorch Height \_\_\_\_\_

Mike's Copy

Prescribed Burn Plan

For

TRAIL CREEK

District FORT COLLINS

Prepared by Ray Mehafeey

Date November 23, 1981

District Forester Ray Mehafeey

Date November 23, 1981

Approved by \_\_\_\_\_  
Area Forester

Date \_\_\_\_\_

Approved by \_\_\_\_\_  
Asst. Staff Forester-Fire Mgmt.

Date \_\_\_\_\_

Responsible Individuals:

Plan Execution RAY MEHAFFEY  
Prescribed Burn Boss

Prescribed Fire Manager:

Primary: MIKE HUGHES

Alternate: NEW FORESTER

Date Fire Out \_\_\_\_\_

Certified By \_\_\_\_\_

Title \_\_\_\_\_



MANAGERIAL INPUTS

(\* Indicates minimum which must be completed for pile burning.)

\*Project Location:

\*T 12N R 73W Sec 36 1/4 NE

\*County LARIMER

I. Resource Management Objectives:

ELIMINATE PILED SLASH THAT HAS RESULTED FROM PRODUCTS SALES ON STATE  
LAND.

\* II. Burn Objectives (Specify in quantitative terms)

A. Hazard Reduction ELIMINATE 95% OF PILED MATERIAL

B. Silviculture TIES TO MANAGEMENT PLAN OF ELIMINATING DWARF-MISTLETOE

C. Site Preparation \_\_\_\_\_

D. Wildlife Habitat \_\_\_\_\_

(Attach DOW Evaluation as Appendix I)

E. Insect/Disease Control ELMINATE POTENTIAL BUILDUP OF IPS.

F. Range Management \_\_\_\_\_

(Attach SCS Evaluation as Appendix I)

G. Special Manipulation \_\_\_\_\_

H. Other (specify) \_\_\_\_\_

III. Type of Prescribed Burn: Broadcast \_\_\_\_\_ Pile X

IV. Evaluation Techniques (give description)

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

\* V. Burning Permit Filed with:

A. Colorado State Health Department  
Dates Approved for Burning

DECEMBER 1, 1991 --

B. County (if applicable)  
Dates Approved for Burning

VI. Logistical Information

A. Pre-Ignition (Equipment, Support, etc.)

B. Chain of Line to Construct

Hand 0

Other (specify) 0 PILES ARE OVER 150' INTO CLEAR CUT AREA

C. Equipment Needs

1. Preparation TIMBER SALE OPERATOR HAS AVAILABLE ON SITE:

1 D-6 CAT TRACTOR

1 JD440 RT SKIDDER

2. Burning 3 CHAINSAWS

1 FIRE TOOL CACHE (5-PERSON)

3. Holding

4. Mop-up

5. Distance to Water Source and Type

6. Water Handling (i.e. Porta-tanks, PM Pumps, etc.)

D. Manpower Needs DISTRICT HAS 3 PEOPLE, OPERATOR HAS 3 PEOPLE.

1. Preparation

2. Burning \_\_\_\_\_

\_\_\_\_\_

3. Holding \_\_\_\_\_

\_\_\_\_\_

4. Mop-up \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

E. Radio Frequencies \_\_\_\_\_

\_\_\_\_\_

\*VII. Public Notification Plan Larimer County Emergency Service will be notified  
the day prior and day of burn. Neighboring landowners will be notified of  
the planned burn by letter prior to burn. Area is remote but seen from  
US Hwy 287.

\*A. Individuals:

Contacts	Contact Responsibility	Contact Date	Completed (Initials)
<u>Neighbors</u>	<u>Mehaffey</u>	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

\*B. Media:

1. Radio

<u>NA</u>	_____	_____	_____
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2. TV

<u>NA</u>	_____	_____	_____
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3. Newspapers

<u>NA</u>	_____	_____	_____
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\_\_\_\_\_



Contacts	Contact Responsibility	Contact Date	Completed (Initials)
*C. Agencies:			
1. Sheriff- Larimer County (498-5141)			
<u>Bill Nelson</u>	<u>Mehaffey</u>	<u>                    </u>	<u>                    </u>
2. Fire Department			
<u>NA</u>	<u>                    </u>	<u>                    </u>	<u>                    </u>
<u>                    </u>	<u>                    </u>	<u>                    </u>	<u>                    </u>
3. BLM			
<u>NA</u>	<u>                    </u>	<u>                    </u>	<u>                    </u>
4. NPS			
<u>NA</u>	<u>                    </u>	<u>                    </u>	<u>                    </u>
5. U.S. Forest Service			
<u>Northern Dispatch</u>	<u>Mehaffey (498-1348)</u>	<u>                    </u>	<u>                    </u>
<u>                    </u>	<u>                    </u>	<u>                    </u>	<u>                    </u>
6. CSFS State Office-Fire Duty Officer			
<u>Post</u>	<u>Mehaffey</u>	<u>                    </u>	<u>                    </u>
7. Air Quality			
<u>                    </u>	<u>                    </u>	<u>                    </u>	<u>                    </u>
8. Others			
<u>                    </u>	<u>                    </u>	<u>                    </u>	<u>                    </u>
<u>                    </u>	<u>                    </u>	<u>                    </u>	<u>                    </u>

VIII. Holding Plan Narrative

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IX. Mop-up Plan Narrative

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\*X. Escaped Fire Contingency Plan

Assessment to be made by District at scene.

Threat of Life and Property Nearest improvement is over 1 mile away.

Escaped Fire Trigger Mechanisms and Confirmations

If ground fire (no fuel in clearcut) gets to edge of clearcut (highly  
improbable), dozer will be used to keep fire in clearcut.

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Additional Suppression Resources With Location to be Called for Fire Escape

1. Larimer County Emergency Services in Fort Collins
2. State Office - Fort Collins
3.
4.

## ENVIRONMENTAL INPUTS

I. Block # 1 Description (add extra sheets if needed).

A. Fuel Model (FBPS) LP (8)

B. Burn Area (acres) less than 1 Burn Perimeter (chains) \_\_\_\_\_

C. Fuels:

1. Continuity none

2. Arrangement piles

3. Distribution:

0 - 1/4" T/A                      3+"S T/A

1/4 - 1" T/A                      3+"R T/A

1 - 3" T/A                      Total Fuel Loading T/A

Depth of Duff "                      Average Fuel Depth "

4. Percent Cover: Brush 0      Grass 0      Timber 0

D. Topographic Considerations:

1. Elevation

Top 9000                      Bottom 8880

Slope % 10-15                      Aspect SE

2. Position on Slope close to top

3. Special Considerations \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

## II. Descriptive Elements

\*A. Treatment Date(s) 12/1/91 -- 4/30/92

when conditions are met.

\*B. Time of Day 9 am to 4 pm

C. Ignition Method diesel & sawdust by hand

D. Preferred Weather Description Winds under 20 mph, RH 30%+, snow  
depth 6"+, no fronts moving in.



# E. Smoke Management

	Preferred	Acceptable	Test Burn	Actual
*1. Wind Direction	SW	Westerly		
*2. Wind Speed	10-15	10-20		
*3. Stability	-	-		
*4. Identified Smoke Sensitive Areas	Ft. Collins - 35 miles to Southeast			
*5. Actions to be taken to limit impact on Sensitive Areas	None needed due to distances involved.			

# F. Environmental

Item	Min.	Max.	Test Burn	Actual
1. 1 HRTL				
2. 10 HRTL				
3. 100 HRTL				
4. Live FM Content				
5. Herbaceous FM				
6. Wind Speed				

- G. Prescription—BEHAVE or NOMOGRAMS used to determine min. and max.  
BEHAVE worksheets attached.

Item	Min.	Max.	Test Burn	Actual
1. Flame Length				
2. ROS				
3. FLI				
4. H/A				
5. RI				
6. Scorch Height				

# ATTACHMENT A

Project Trail Creek

## \*Project Budget Estimates

### \*A. Equipment Expenses

1. Preparation: (Equipment Numbers x Hours = Total Hours  
x Hourly Rate = Total Cost)

Done by Contractor under terms of contract.

Total = \$ 0

2. Burning: (Use above formula if applicable)

CSFS Mileage

Total = \$ 31

3. Holding: (Use above formula if applicable)

Total = \$ na

4. Mop-up: (Use above formula if applicable)

Fire will be allowed to burn out.

Total = \$ na

### \*B. Personnel Expenses

1. Preparation: (Personnel x Hours x Hourly Rate = Total  
Cost for Each Cost/Rate Category)

Total = \$ 0

2. Burning: (Use above formula if applicable)

CSFS - \$480  
(3x8x\$20)

Contractor - 0

Total = \$ 480

3. Holding: (Use above formula if applicable)

Total = \$ na

4. Mop-up: (Use above formula if applicable)

Total = \$ na

### \*C. Other Expenses (Itemize)

Total = \$ 0

### \*D. Total Project Expenses

Total = \$ 480

### \*E. Funding Sources:

1. Contract: \$ 0

CSFS Fund (# 1-93450) \$ 480

(# -) \$ -

Net Project Cost = \$ 0

ATTACHMENT B

Project Trail Creek

\*Project Expenses (Actual): Complete after Burn—to be attached to Burn Plan following completion.

\*A. Equipment Expenses

1. Preparation: (Equipment Numbers x Hours = Total Hours  
x Hourly Rate = Total Cost)

Total = \$ \_\_\_\_\_

2. Burning: (Use above formula if applicable)

Total = \$ \_\_\_\_\_

3. Holding: (Use above formula if applicable)

Total = \$ \_\_\_\_\_

4. Mop-up: (Use above formula if applicable)

Total = \$ \_\_\_\_\_

\*B. Personnel Expenses

1. Preparation: (Personnel x Hours x Hourly Rate = Total  
Cost for Each Cost/Rate Category)

Total = \$ \_\_\_\_\_

2. Burning: (Use above formula if applicable)

Total = \$ \_\_\_\_\_

3. Holding: (Use above formula if applicable)

Total = \$ \_\_\_\_\_

4. Mop-up: (Use above formula if applicable)

Total = \$ \_\_\_\_\_

\*C. Other Expenses (Itemize)

Total = \$ \_\_\_\_\_

\*D. Total Project Expenses

Total = \$ \_\_\_\_\_

\*E. Funding Sources:

1. Contract: \$ \_\_\_\_\_

CSFS Fund (# \_\_\_\_\_) \$ \_\_\_\_\_

(# \_\_\_\_\_) \$ \_\_\_\_\_

Net Project Cost = \$ \_\_\_\_\_



DOCUMENTED CHANGES

Trail Creek

(Burn Name)

ACTION

REASON

COMMENTS

BURN BOSS  
& DATE

PFM  
& DATE