



Colorado Department
of Public Health
and Environment

WILDLAND FIRE IN COLORADO

ANNUAL SUMMARY REPORT for Calendar Year 2008



Heil Valley Ranch, Boulder County Parks and Open Space, October 2008

Air Pollution Control Division
Technical Services Program
(303) 692-3224
June 24, 2009

I. INTRODUCTION

Colorado's wildland fire smoke management program is implemented under the requirements of Colorado Air Quality Commission Regulation 9, Open Burning, Prescribed Fire, and Permitting (Regulation 9). Requirements for significant users of prescribed fire permitting, reporting of activity, and collection of fees to cover the cost of the smoke management program are included in the regulation. This report summarizes wildland fire (prescribed fire) activities of a number of agencies and several private landowners. The governmental agencies are:

- Colorado State Forest Service (CSFS)
- U.S. Forest Service (USFS)
- National Park Service (NPS)
- U.S. Bureau of Land Management (BLM)
- U.S. Fish and Wildlife Service (USF&WS)
- Colorado Division of Wildlife (CDOW)
- US Air Force Academy (USAFA)
- US Army Fort Carson (USAFC)
- Rocky Mountain Fire (RMFD)
previously Cherryvale Fire Protection District
- City of Boulder Wildland Fire Program (BWFP)
- Larimer County Open Space Program (LCOS)
- Jefferson County Open Space (JCOS)
- Boulder County Open Space (BCOS)
- City of Fort Collins Wildland Fire Program (FCWFP)
- West Metro Fire Department (WMFD)
- Colorado State Parks (CSP)
- Colorado State Land Board (SLB)

This report summarizes information for the projects proposed and emissions inventory information for completed projects by all permittees in 2008. Since 1990 the land management agencies have annually reported all planned ignition projects and wildland fire use fires to the Division. Since January of 2002 landowners and managers of public lands using fire to manage grasslands or wildlands are legally subject to the reporting requirements of Regulation 9.

The Division updates the emission inventory and this report annually. For additional information concerning the prescribed burning emission inventory, contact Coleen Campbell at (303) 692-3224. For information regarding Colorado's prescribed fire program, visit our [website](#) or contact us.

II. PRESCRIBED FIRE ACTIVITY

A permit application is submitted to the Division for all proposed wildland fire projects. For each day burning is planned a notification form is submitted to the Division. Once the burning is completed, a daily activity form is submitted. Each year the daily activity data is quality assured by submittal of an annual summary report. Daily and annual activity reports are submitted for all wildland fire projects. This report summarizes only annual activity; contact the Division for daily information about a specific date or project.

Land managers are required to obtain a permit from the Division prior to ignition. The permit application includes the proposed dates of the burn, the burn purpose(s), smoke sensitive areas that have the potential to be impacted by the burn, the proposed size of the burn and the smoke mitigation measure to be taken. **Table I** is a summary of the proposed planned ignition burns and wildland fire use areas by permittee. **Figure I** indicates the percentage of the total projects proposed by each of the entities in 2008.

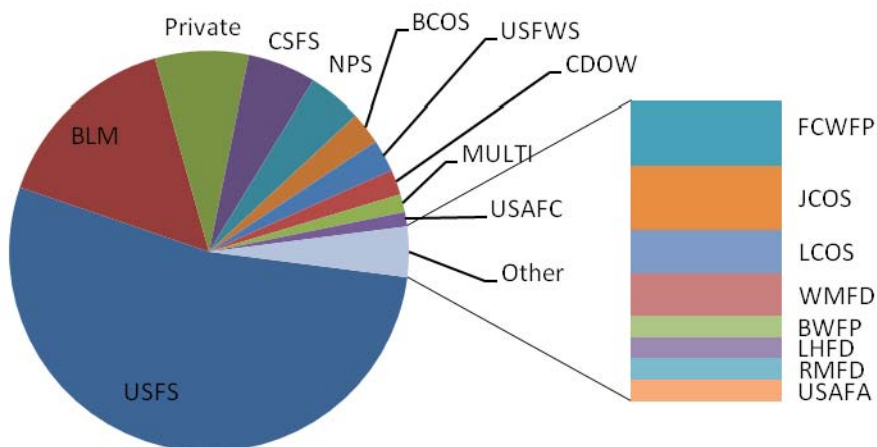
Unplanned ignition prescribed fire, also known as [wildland fire use](#), is the management of naturally ignited fires to achieve resource benefits where fire is a major component of the ecosystem. Allowing fire to play its natural role, when protection of private property and social values is possible, can enhance many natural resource values. Most of the federal land management units have completed fire management plans that include wildland fire use as one of the tools available to meet resource objectives on the lands they manage.

Activity information concerning individual prescribed fire projects is listed in **Appendix A**. The appendix provides information on the total number of acres or piles burned during 2008 on individual projects. The appendix also lists those projects for which no activity occurred. To obtain air pollutant emissions information on a specific project, contact the Division.

TABLE I
Proposed Prescribed Burning Activity
By Permittee 2008

Agency	Broadcast Projects Proposed	Acres Proposed for Broadcast	Pile Projects Proposed	Total Proposed Volume	Wildland Fire Use Areas Proposed	Permittee's Percentage Of All Proposed Burns
BCOS	1	130	8	422,794		2.62%
BLM	33	22,478	20	6,561,754	6	15.41%
CDOW	4	199	3	117,060		2.03%
City of Boulder	1	60	0			0.29%
City of Ft Collins	2	180	1	3,350		0.87%
CSFS	11	3,533	8	275,402		5.52%
Fort Carson Army	4	51,000	0			1.16%
Jeffco OS	0		3	111,760		0.87%
Larimer County	1	90	1	19,000		0.58%
Left Hand FD	0		1	1,414		0.29%
MULTI	4	3,221	1	21,250		1.45%
NPS	5	1,890	10	3,271,580	4	4.36%
Private	7	5,712	19	22,493,274		7.56%
Rocky Mtn FD	0		1	100,000		0.29%
USAFA	0		1	26,818		0.29%
USFS	72	100,598	111	17,763,182	5	53.20%
USFWS	7	4,468	2	128,800	2	2.62%
WMFD	2	225	0			0.58%
All Permittees	154	193,784	190	51,317,438		100.00%

Agency's Percentage of Proposed Projects in 2008



BLM= Bureau of Land Management
 BCOS= Boulder County Open Space
 BWFP= City of Boulder Wildland Fire Program
 CDOW= Colorado Division of Wildlife
 CSFS= Colorado State Forest Service
 FCWFP=City of Ft Collins Wildland Fire Program
 JCOS= Jefferson County Open Space
 LCOS= Larimer County Open Space
 Multi= Multiple Agencies
 LHFD=Left Hand Fire Department
 NPS= National Park Service
 RMFD=Rocky Mountain Fire Dept.
 USAFA= US Air Force Academy
 USAFC= US Army Fort Carson
 USFS= US Forest Service
 USF&WS= US Fish & Wildlife Service
 WMFD= West Metro Fire Department

III. EMISSIONS INVENTORY

The Division's permit application and reporting forms provide the information necessary to generate an emissions inventory for prescribed burning in the State. Smoke from prescribed fire contains a complex mixture of carbon, tars, liquids, various gases and particles. The fuel loading, fuel consumption, fuel moisture, burning method, and fuel type influence the air pollutant emissions.

This emissions inventory is only an estimate of the emissions from prescribed fires in Colorado during 2008. To allow for an emissions inventory of wildland prescribed fire to be developed, the land managers reported the most accurate burn specific information that was available. For most of the burns this included an expert estimate of fuel loading and consumption.

The inventory developed consists of the emissions in Colorado from wildland prescribed burning completed only by the entities listed on page 1. The Division does not receive any emissions information from open burning performed by other parties, such as construction companies and the agricultural industry. This inventory does not include the emissions from wildfires. Wildfire emissions vary greatly from year to year but typically are greater than the emissions from prescribed fires.

The permittees report the acreage burned, fuel loading and fuel type composite for this emissions inventory. If it is necessary to estimate fuel loading for a burn, loadings are estimated by averaging the reported fuel loading of other burns with the same fuel type. For information concerning a specific burn, contact the Division. **Table II** is a summary of typical fuel loadings for various fuels.

EMISSION FACTORS

The major pollutants from prescribed burning are particulate matter, carbon monoxide, and volatile organic compounds. For the purpose of this report, an inventory of particulate matter, volatile organic compounds (methane and non-methane hydrocarbons) and oxides of nitrogen was developed. Emission factors that experts have indicated should be accurate for Colorado are available for these pollutants for most of the reported fuel types. The emission factors are reported as pounds of the specific pollutant produced for each ton of fuel that is consumed. **Table III** is a summary of the emission factors used to develop the emissions inventory.

TABLE II AVERAGE FUEL LOADING FOR SELECTED FUEL TYPES FOR COLORADO		
FUEL TYPE	TOTAL FUEL LOADING (tons/acre)	REFERENCES
Grass	2	<u>Prescribed Fire Smoke Management Guide</u> <u>Aids to Determining Fuel Models for Estimating</u> <u>Fire Behavior</u> (Range of 0.74 to 4.0 T/A is indicated in reference- 2 T/A is the most common loading for Colorado projects)
Sagebrush	5	Average of reported loading from other burns
Oakbrush	4	Average of reported loading from other burns
Pine / Conifer	8	Average of reported loading from other burns
FUEL TYPE	FUEL LOADING (lbs/ft ³)	REFERENCE
Piled Douglas-fir	38	<u>Estimating the Volume of Wood in Large Piles of</u> <u>Logging Residue</u>

* AP-42 value = fuel loading x fuel consumption during wildfire. A value for the fuel loading separately is not given. If less than 100% consumption was used in calculating this value, the fuel loading would be less.

TABLE III EMISSION FACTORS FOR COLORADO								
FUEL TYPE	EMISSION FACTORS lbs/ton							REFERENCES
	Particulates *			CO	Volatile Organics		NO _x **	
	PM _{2.5}	PM ₁₀	Total PM		Methane	Non Methane		
Grass	18 †	20	20	150	0	0	2.5	AP-42- Rocky Mtn Grasslands & Chaparral Grassland
Sagebrush	27	30	45	206	12.4	13.8	2.5	USDA Forest Service, Fire and Air Research Station & AP-42, Sagebrush Range Fire
Oakbrush	16	18	30	124	9	25	2.5	AP-42- Pacific SW Chaparral & Chaparral Shrub
Aspen	16	18	30	124	9	25	2.5	AP-42- Pacific SW Chaparral & Chaparral Shrub
Pine/Conifer	60*	60	70	326	11.2	7	2.5	AP-42- Rocky Mtn Underburning Pine & Short-Needle Conifer
Piled Slash	8★	8	12	74	3.6	0	2.5	AP-42- Rocky Mtn Logging Slash & Logging Slash Debris
Pinon / Juniper	9	24	27	167	12	10.4	2.5	AP-42- Pacific SW Pinon/Juniper & Juniper Range Fire
Other	23▼	26	34	350	9.4	9.2	2.5	AP-42, Rocky Mtn Region Avg

* Each particulate size category includes all particulates in the smaller size classes

** AP-42, Average of Emission Factor Range for All Fuel Types (NO_x)

† Calculated using the average ratio of PM₁₀ emissions to PM_{2.5} emissions from the sagebrush, oakbrush, aspen and pine/conifer emission factors

* AP-42, Pacific NW Underburning Pine (PM_{2.5} only)

★ AP-42, Pacific NW Piled Logging Slash (PM_{2.5} only)

▼ AP-42, Pacific NW Region Avg (PM_{2.5} only)

EMISSIONS

The estimate of the emissions from prescribed fire performed by land managers for 2008 is summarized in **Table IV**. The summary includes the PM₁₀, VOC, NO_x and non-methane hydrocarbon (NMHC) emissions from pile and broadcast burns and wildland fire use fires by permittees. For information regarding other pollutants, contact the Division. Most of the permittees completed at least some of their proposed prescribed burns during 2008. The **Total Acres** column in **Table IV** reflects the acres burned by broadcast burning. The amount of fuel consumed during pile burning is summarized in the **Volume Consumed** column.

TABLE IV SUMMARY OF AIR POLLUTANT EMISSIONS BY PERMITTEE FOR 2007 for Reported Projects with Burning Activity									
AGENCY	NUMBER OF BROADCAST BURNS	TOTAL ACRES	NUMBER OF PILE BURNS	VOLUME CONSUMED (ft ³)	TOTAL PM10 (tons)	TOTAL VOC (tons)	TOTAL NOX (tons)	TOTAL NMHC (tons)	AGENCY'S % OF TOTAL PM10
BCOS	1	117	3	90,338	6.87	3.09	2.15	0.00	0.36%
BLM	17	4,478	15	2,710,577	353.31	151.84	79.41	65.55	18.27%
CDOW	2	61	1	3,325	1.16	0.18	0.19	0.08	0.06%
City of Boulder	1	50	0		0.00	0.00	0.00	0.00	0.00%
City of Ft Coll	0		1	301	0.02	0.01	0.01	0.00	0.00%
CSFS	6	834	4	25,387	11.92	3.87	1.69	3.20	0.62%
Fort Carson Army	3	11,632	0		69.59	0.52	8.70	0.46	3.60%
Jeffco OS	0		2	22,768	1.73	0.78	0.54	0.00	0.09%
Larimer County	1	90	0		0.63	0.00	0.08	0.00	0.03%
MULTI	6	2,667	1	15,631	101.45	53.01	13.75	111.11	5.25%
NPS	2	658	7	244,339	26.95	10.49	6.74	2.63	1.39%
Private	2	78	13	2,189,524	167.61	74.96	52.15	0.08	8.67%
Rocky Mtn Fire D	0		1	15,508	1.18	0.53	0.37	0.00	0.06%
USAFA	0		1	5,984	0.45	0.20	0.14	0.00	0.02%
USFS	49	36,882	76	4,529,740	1,174.44	473.92	198.98	437.31	60.73%
USFWS	4	838	1	10,674	15.39	1.58	1.95	1.35	0.80%
WMFD	2	78	0		1.18	0.00	0.15	0.00	0.06%
Prescribed Fire Subtotal	96	58,463	126	9,864,097	1,933.88	774.99	366.98	621.78	100.00%
BLM Fire Use	0		--	--	0	0	0	0	
MULTI Fire Use	2	1404	--	--	162	34	8	60	
NPS Fire Use	0	--	--	--	0	0	0	0	
USFS Fire Use	0	--	--	--	0	0	0	0	
Wildland Fire Use Subtotal	2	1404	--	--	162	34	8	0	
All Permittees		59,867	126	9,864,097	2,596	809	375	682	

PM10= Particulate Matter under 10 microns

NOX= Nitrogen Oxide(s)

VOC= Volatile Organic Compounds

NMHC= Non Methane Hydrocarbons

During 2008 the air pollutant emissions emitted during wildland fire use fires were insignificant. The number of wildland fire use ignitions within a planning area varies substantially year-to-year and the acres burned vary much more. Changes in national fire policy concerning wildland fire use probably contributed to the decline in reported emissions more than any other factor. The Division will be meeting with various stakeholders to ensure air quality impacts are part of the decision process when land managers are determining whether immediate suppression is the most appropriate response for an unplanned wildland fire.

Land managers and owners that use wildland prescribed fire to manage wildland areas are charged fees to cover the cost of the Division's wildland fire program. These fees are based in part on the amount of PM10 emitted by an agency's completed projects during the year. **Figure II** provides each entity's percentage of the total PM10 emissions during 2008 for prescribed fire projects. Wildland fire use areas are charged a flat fee each year. They may or may not have any emissions from wildland fire use in a given year. Contact the Division for more information about the fee program and how data from the emission inventory is used to determine fees.

Figure III is a comparison of the particulate matter emissions from prescribed fire to other types of emission sources. Although a project may cause significant, short-term impacts to an area, the total emissions from prescribed fire are orders of magnitude less than emissions from stationary and mobile sources. Prior to 2002, only a couple of areas had wildland fire use plans in place and most years the emissions from the burns were negligible. **Table V** provides the values used to create **Figure III**.

Figure II
PM₁₀ Emissions from Permitted Wildland Fire Projects with Activity during 2007
Excludes Wildland Fire Use Emissions

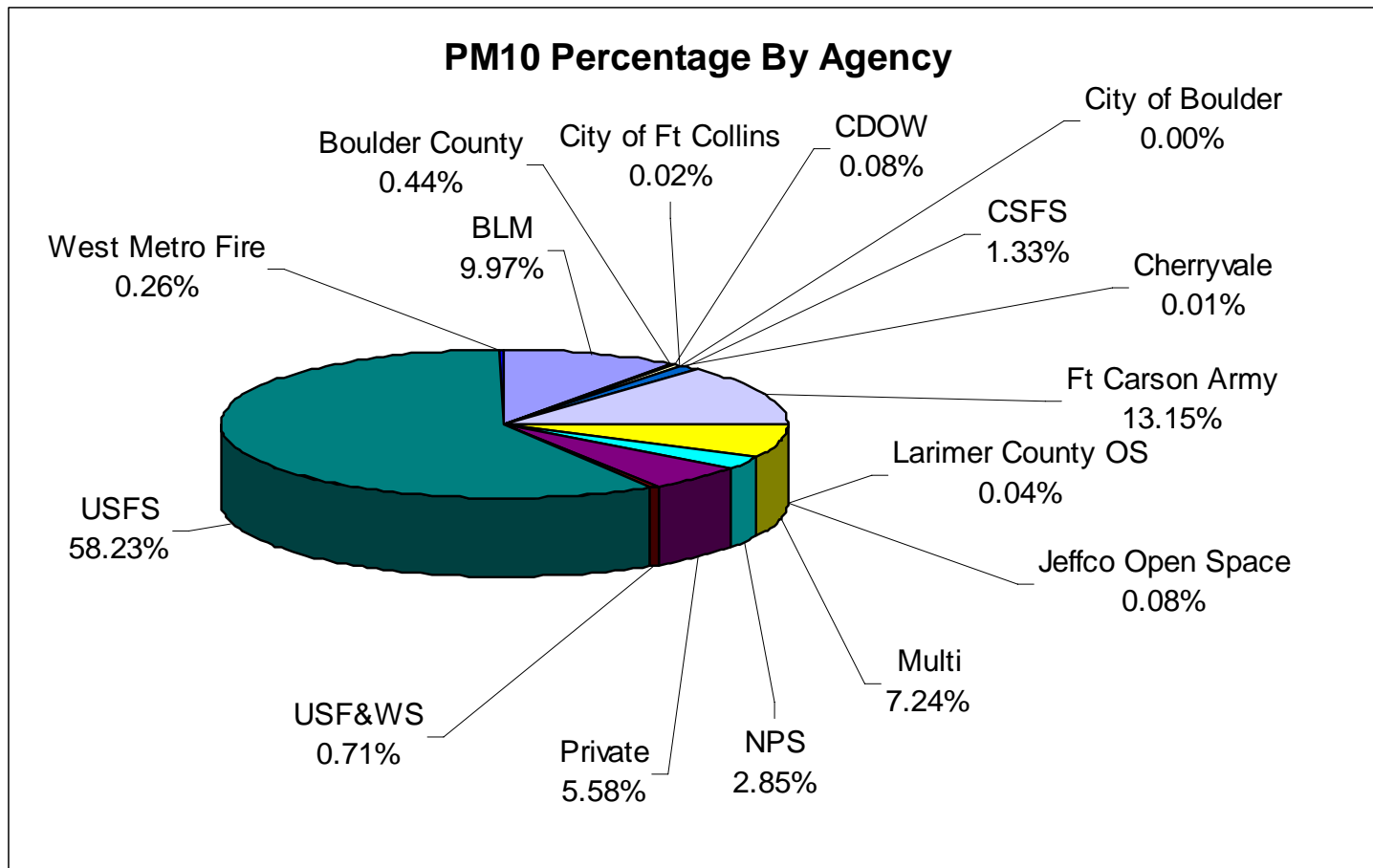
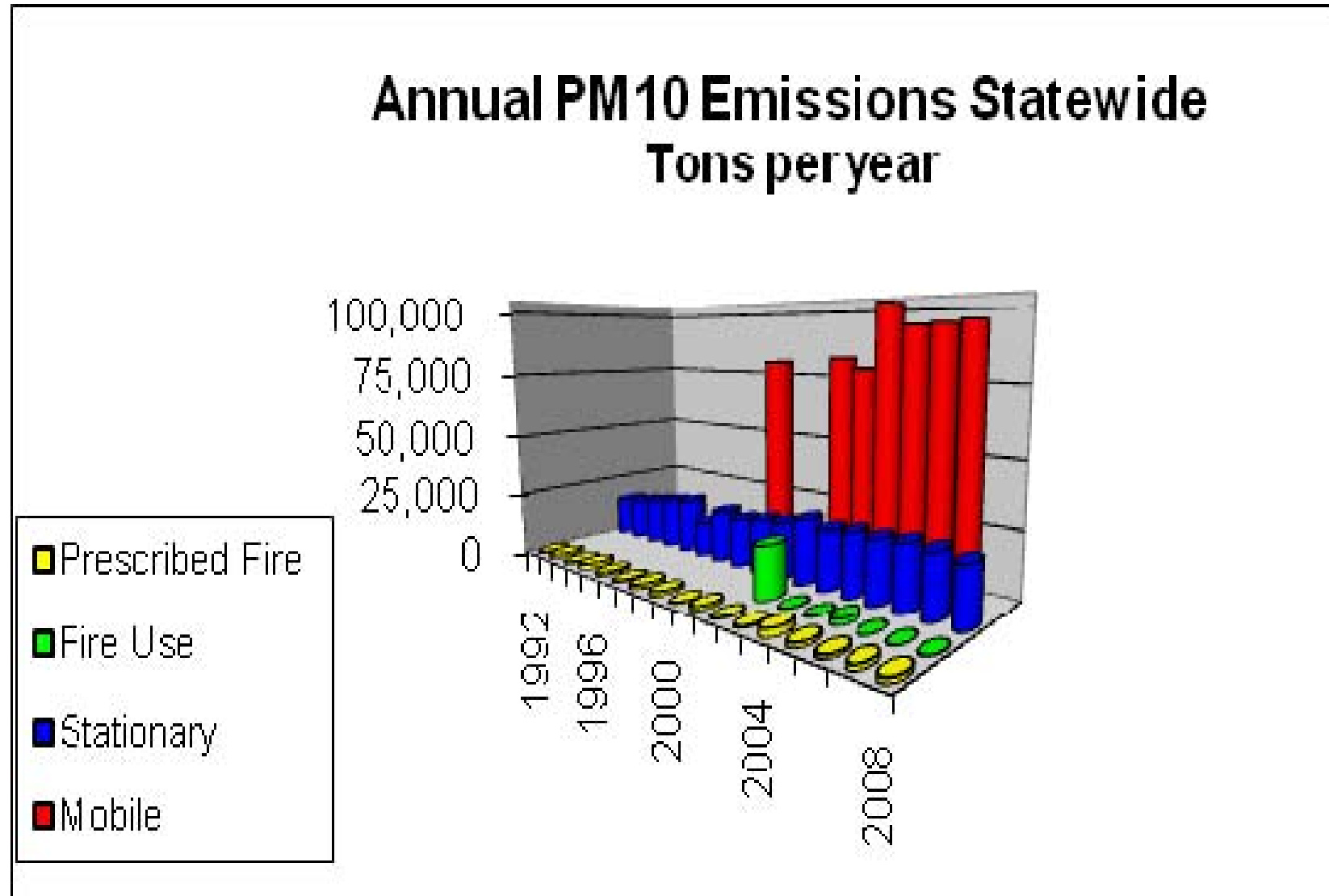


TABLE V Annual PM₁₀ Emission Inventory for Various Colorado Sources from 1992 to 2008 <i>(Tons per Year)</i>				
Year	Prescribed Fire	Wildland Fire Use*	Stationary Sources (includes portable and fugitive dust)	Mobile-Statewide (includes tailpipe and road dust emissions)**
1992	627		15,364	unknown
1993	1,646		16,452	unknown
1994	895		18,185	unknown
1995	2,267		19,783	unknown
1996	1,298		21,215	unknown
1997	709		13,897	unknown
1998	1,684		20,115	unknown
1999	1,633		18,916	80,229
2000	390		20,491	unknown
2001	1,747		21,384	unknown
2002	666	19,723	24,518	82,376
2003	910	782	22,715	78,671
2004	3,093	247	23,852	98,600
2005	1,726	2,458	23,509	94,565
2006	1,447	1	24,385	95,173
2007	1,988	9	23,802	96,106
2008	1,934	162	22,206	not available

* Before 2002 only a couple of areas had wildland fire use plans in place and most years the emissions from the burns were negligible.

** Prior to 2002 mobile emission inventories are available only from special studies and were not calculated for each year. Currently there is an 18-month delay to estimate the mobile source emission inventory.

Figure III
Annual PM₁₀ Emission Inventory
Various Colorado Sources 1992 to 2008



Appendix A

List of 2008 Projects

A notation of 'No Activity' in the last column means the project was not burned in 2007.

Full Permit Number	Burn Name	Agency Group	Actual Acres	Volume Consumed	Completed
BOX-08-008	GOLD HILL AREA	BCOS			No Activity
BOX-08-009	HEIL VALLEY RANCH YC MEADOW	BCOS			No Activity
BOX-08-011	WALKER AREA 7 STANDS J/L SLASH	BCOS			No Activity
BOX-08-012	REYNOLDS RANCH 2B	BCOS			No Activity
BOX-08-013	MUD LAKE	BCOS			No Activity
BOX-08-007	GIGGEY ASPEN UNIT 5	BCOS		9,634	
BOX-08-010	REYNOLDS RANCH 2A	BCOS		65,468	No Report
BOX-08-150	HEIL PA7 UNIT 3 MACHINE PILES	BCOS		15,237	
BOX-08-298	HEIL VALLEY RANCH 2008	BCOS	117		
WRD-08-005	WRFO RUSSIAN OLIVE PILE	BLM			No Activity
RGD-08-023	LAKEMOOR WEST PILES	BLM			No Activity
RGD-08-024	POVERTY MOUNTAIN PILES	BLM			No Activity
RGD-08-025	SPRUCE BASIN PILES	BLM			No Activity
RGD-08-121	SAND GULCH PILES	BLM			No Activity
WRD-08-132	CARL'S HOLE UNIT 1	BLM			No Activity
MRD-08-155	ROUBIDEAU	BLM			No Activity
CRD-08-174	ELK MT.	BLM	0		No Activity
WRD-08-178	BOIES	BLM	0		No Activity
MRD-08-193	LONG GULCH	BLM			No Activity
MRD-08-208	W. ANTELOPE/STEERS GULCH UNIT	BLM			No Activity
MRD-08-209	GOOSE CREEK	BLM			No Activity
WRD-08-210	EAST JORDAN	BLM	0		No Activity
MRD-08-212	POWDERHORN	BLM			No Activity
KRD-08-257	INSPIRATION POINT	BLM			No Report
KRD-08-259	SHEEP MOUNTAIN	BLM			No Report
WRD-08-274	BADGER FLATS	BLM	0		No Activity
RGD-08-279	ROYAL GORGE FIELD OFFICE WFU	BLM			No Report
WRD-08-284	WOLF CREEK RX	BLM			No Report
RGD-08-304	ARKANSAS MT BROADCAST	BLM	0		No Activity
CRD-08-305	RATHOLE RX	BLM	0		No Activity
LJD-08-325	BLANCA WETLANDS RX	BLM	0		No Activity
CRD-08-052	CEDAR MT. TOWERS SLASH PILES	BLM		9,000	
CRD-08-144	CURTIS DIVIDE	BLM	390		
CRD-08-170	MAGGIE	BLM	35		
CRD-08-175	DEER VALLEY	BLM	310		
CRD-08-215	LITTLE JOE	BLM	129		
CRD-08-288	COLD SPRING ASPEN RX	BLM	32		
FAD-08-238	OLD FORT LEWIS	BLM	745		
GJD-08-028	CANYON CREEK PILES	BLM		2,594	
GJD-08-106	GIBBLER PILES	BLM		338	
GJD-08-107	BLACK RIDGE PILES	BLM		29,381	
GJD-08-195	DEVIL'S CANYON PILES	BLM		238	
GJD-08-293	DEER PEN	BLM	250		

Full Permit Number	Burn Name	Agency Group	Actual Acres	Volume Consumed	Completed
GJD-08-309	MEE CANYON PILES	BLM		38	
GWD-08-090	PRINCE CREEK PILES	BLM		31,320	
GWD-08-194	PRINCE CREEK RX	BLM	32		
KRD-08-118	GORE LAKE FUEL REDUCTION PROJECT PILES	BLM		92,340	
KRD-08-119	OURAY PILES	BLM		96,336	
KRD-08-120	TEN MILE	BLM		480,641	
KRD-08-241	JUNCTION BUTTE	BLM	20		
KRD-08-258	YARMONY MOUNTAIN	BLM	790		
MRD-08-146	DALLAS SUBSTATION	BLM		21,385	
MRD-08-154	PAXTON	BLM	270		
MRD-08-320	GOLD BASIN PILES	BLM		219,298	
RGD-08-022	TURKEY GULCH PILES	BLM		1,125,209	
RGD-08-074	LAKEMOOR WEST BROADCAST	BLM	55		
RGD-08-110	ARKANSAS MOUNTAIN FUELBREAK PILES	BLM		589,623	
RGD-08-111	RICE GULCH	BLM	100		
SJD-08-227	DOLORES RIM	BLM	360		
WRD-08-063	TRI-STATE PILES	BLM		12,838	
WRD-08-130	WASSON DRAW	BLM	360		
WRD-08-285	OAK RIDGE	BLM	300		
WRD-08-297	LOWER FLETCHER	BLM	300		
DEW-08-135	TARRYALL SWA	CDOW	0		No Activity
DEW-08-136	WOODHOUSE SWA	CDOW	0		No Activity
MOW-08-162	LOWER ROUBIDEAU TAMARISK PILES	CDOW			No Activity
MOW-08-163	HAMILTON TAMARISK PILES	CDOW			No Activity
LAW-08-169	TERN ISLAND AT BLUE LAKE	CDOW	27		
MOW-08-161	ESCALANATE FOOD PLOTS/FIELD BURN	CDOW	34		
MVW-08-085	SEGO SPRINGS PILES	CDOW		3,325	
BCX-08-179	BURKE 1	City of Boulder	50		No Report
FCX-08-242	COYOTE RIDGE NATURAL AREA	City of Ft Coll	0		
FCX-08-339	BOBCAT RIDGE NATURAL AREA	City of Ft Coll	0		No Activity
FCX-08-159	BOBCAT RIDGE PILES	City of Ft Coll		301	
WPS-08-002	SALT CREEK PILES	CSFS			No Activity
FMS-08-027	TAMARACK RANCH SWA (ACADEMY)	CSFS	0		No Activity
BRS-08-044	GOOSE CREEK PILES	CSFS			No Activity
FMS-08-112	RED LION SWA	CSFS	0		No Activity
GOS-08-248	ELK MEADOWS	CSFS	0		No Activity
SSS-08-255	SAND CREEK BURN	CSFS	0		No Activity
SSS-08-256	DELANEY BUTTES	CSFS	0		No Activity
BOS-08-342	UPPER SUNSHINE/LICKSKILLET	CSFS			working on
BOS-08-348	MOUNTAIN KING	CSFS			No Activity
BOS-08-088	BUNCE SCHOOL ROAD	CSFS		8,163	
BOS-08-089	GROSS RESERVOIR	CSFS		3,218	
BOS-08-158	CRESCENT MEADOW	CSFS	17		
GOS-08-207	STAUNTON STATE PARK	CSFS	120		
GOS-08-249	WHITE RANCH PARK SHRUB	CSFS	33		

Full Permit Number	Burn Name	Agency Group	Actual Acres	Volume Consumed	Completed
GOS-08-250	WHITE RANCH PARK GRASS	CSFS	61		
GOS-08-264	BEAR CREEK BOWL II/ MT EVANS SWA	CSFS	97		
SSS-08-350	CS FOREST PILES	CSFS		9,530	
WPS-08-269	JAMES MARK JONES SWA	CSFS	506		
WPS-08-275	WAGON CREEK PILES	CSFS		4,477	
FCQ-08-139	FORT CARSON MIDDLE AREA	Ft Carson Army	0		No Activity
FCQ-08-142	FORT CARSON NORTH	Ft Carson Army	153		
FCQ-08-143	FORT CARSON SOUTH	Ft Carson Army	1,543		
FCQ-08-151	Fort Carson - PCMS PERMIT AREA	Ft Carson Army	9,936		
GRX-08-999	Grand County Piles Burning Activity	Grand County Delegation		15,417,264	08-09 Burn Season
JEX-08-340	MOUNT FALCON SLASH PILES	Jeffco OS			No Report
JEX-08-048	WHITE RANCH SLASH PILES	Jeffco OS		5,267	No Report
JEX-08-049	ELK MEADOW SLASH PILE	Jeffco OS		17,501	No Report
LRX-08-020	HORSETOOTH	Larimer County			No Report
LRX-08-216	INDIAN CREEK PHASE II	Larimer County	90		No Report
LFX-08-272	LAKE OF THE PINES PILE BURN	Left Hand FD			No Report
MUL-08-276	UPPER COLORADO RIVER INTERAGENCY FMU	MULTI			working on
MUL-08-277	SAN LUIS VALLEY PUBLIC LANDS WFU	MULTI			No Report
MUL-08-278	SAN JUAN PUBLIC LANDS WFU	MULTI			No Report
MUL-08-045	3-4 ELK #2	MULTI		15,631	
MUL-08-156	MONTROSE AREA FIRE USE	MULTI	1,403		
MUL-08-198	W. ANTELOPE/STATE LANDS UNIT	MULTI	533		
MUL-08-240	EAGLE BURN BLOCKS - SWEETWATER RX	MULTI	500		
MUL-08-251	BATTLEMENTS	MULTI	205		
MUL-08-254	YARDLEY WETLANDS	MULTI	25		
MUL-08-280	NORTHWEST COLORADO INTERAGENCY FMU WFU	MULTI	1		
FFP-08-032	FLORISSANT PILES	NPS			No Activity
RMP-08-035	GRAND LAKE BOUNDARY PILES	NPS			No Activity
CNP-08-036	CNP SAGEBRUSH BURN BLOCKS (UTE MESA)	NPS	0		No Activity
RMP-08-050	ROCKY MTN NAT'L PARK FIRE USE ZONE	NPS			No Report
MVP-08-117	MOREFIELD PILE RX	NPS			No Report
BCP-08-123	GREEN GRIZZLY	NPS	0		No Activity
FFP-08-271	NORTH & EAST INTERFACE RX BURN	NPS			No Activity
MVP-08-116	HOGAN PILE RX	NPS		29,700	No Report
MVP-08-268	MOREFIELD RX	NPS	152		
RMP-08-033	DEER MOUNTAIN PILES	NPS		49,851	
RMP-08-034	EMERALD PILES	NPS		4,180	
RMP-08-094	MORaine PARK TEMP STORAGE LARGE PILE	NPS		86,850	
RMP-08-152	PONTIAC PIT	NPS		20,000	
RMP-08-273	BETTY DICK'S TIMBER CREEK	NPS		36,812	
RMP-08-294	RMNP FALL 08	NPS	506		.
RMP-08-313	GLACIER BASIN AREA PILES	NPS		16,947	
PVT-08-001	GINN SLASH PILES	Private			No Activity

Full Permit Number	Burn Name	Agency Group	Actual Acres	Volume Consumed	Completed
PVT-08-164	RIDGE AT CASTLE PINES NORTH	Private			No Report
PVT-08-171	BANDED PEAK RANCH BROADCAST	Private	0		No Activity
PVT-08-177	BANDED PEAK RANCH PILES	Private			No Activity
PVT-08-192	WWV	Private	0		No Activity
PVT-08-196	WILKENS	Private	0		No Activity
PVT-08-265	GLMRD	Private			No Report
PVT-08-292	BAR NI UNIT 2	Private			No Activity
PVT-08-300	PHANTOM CANYON PRESERVE: EASE SIDE	Private			No Activity
PVT-08-322	REDTAIL RANCH	Private			No Activity
PVT-08-353	WOLF CREEK SKI AREA PILES	Private			No Activity
BGX-08-302	BACA ENTRANCE RX BURN	Private	18		No Report
PVT-08-014	F/T COMPARTMENT #1	Private		186,308	No Report
PVT-08-015	F/T COMPARTMENT #2	Private		141,750	No Report
PVT-08-019	YMCA EMERALD MNT PROJECT	Private		1,453	
PVT-08-084	CRYSTAL LAKES ASSOCIATION	Private		97,020	
PVT-08-109	MAGIC SKY RANCH	Private		42,000	No Report
PVT-08-125	BVR 2008	Private		1,087,090	
PVT-08-160	SHOOTING STAR RANCH	Private		69,633	
PVT-08-197	BUCK MOUNTAIN	Private	60		
PVT-08-217	PEARL CREEK PILES	Private		2,300	
PVT-08-282	ARAPAHOE BASIN SKI AREA	Private		11,475	
PVT-08-283	KEYSTONE MOUNTAIN	Private		35,629	
PVT-08-286	COPPER MTN 4/7 GLADE O8	Private		8,512	
PVT-08-295	WINTER PARK RESORT	Private		6,555	
PVT-08-299	GRAND RIVER PILES	Private		499,800	
RMX-08-137	FLAGSTAFF	Rocky Mtn Fire D		15,508	
AFQ-08-199	FARISH PILES	USAFA		5,984	
PSF-08-006	VOC PILES	USFS			No Activity
SJF-08-030	HIDDEN VALLEY PILES	USFS			No Activity
SJF-08-031	JUNCTION CREEK PILES	USFS			No Activity
ARF-08-043	PINGREE HILL/LONESTREE PILES	USFS			No Activity
ARF-08-062	WEST MAGNOLIA UNIT 11	USFS			No Report
PSF-08-068	KELSEY	USFS	0		No Activity
PSF-08-069	NODDLES	USFS	0		No Activity
PSF-08-070	550 ROAD UNDERBURN	USFS	0		No Activity
PSF-08-071	TUSSOCK MOTH	USFS	0		No Activity
PSF-08-073	FISH CREEK	USFS	0		No Activity
PSF-08-075	RANCH OF THE ROCKIES	USFS			No Activity
PSF-08-076	WELDON	USFS			No Activity
PSF-08-078	SQUAW CREEK	USFS			No Activity
PSF-08-087	RIM ROCK	USFS			No Activity
GMF-08-091	BASIN TIMBER SALE	USFS			No Activity
GMF-08-092	HORSE PASTURE PIT	USFS			No Activity
GMF-08-098	ILLIUM VALLEY PILES	USFS			No Activity
ARF-08-099	SUGARLOAF 24 & 27 ee	USFS			No Report
SJF-08-101	CHIMNEY ROCK	USFS			No Activity

Full Permit Number	Burn Name	Agency Group	Actual Acres	Volume Consumed	Completed
SJF-08-103	UTE CAMPGROUND	USFS			No Activity
ARF-08-104	STUB CREEK	USFS			No Activity
ARF-08-105	TUNNEL CAMPGROUND PILES	USFS			No Activity
GMF-08-133	HUBBARD PILES	USFS			No Activity
ARF-08-138	WEST STRINGTOWN PILES	USFS			No Activity
PSF-08-141	BUFFALO CREEK	USFS	0		No Activity
GMF-08-153	ESCALANTE	USFS			No Activity
RGF-08-184	POWDER HOUSE 1A PILES	USFS			No Activity
RGF-08-185	POWDER HOUSE UNIT 1	USFS			No Activity
RGF-08-186	POWDER HOUSE UNIT 2	USFS			No Activity
SJF-08-188	TRAIL CANYON	USFS			No Activity
SJF-08-189	GUARD STATION	USFS			No Activity
SJF-08-190	SOUTH CARVER PILES	USFS	0		No Activity
GMF-08-211	ALPINE	USFS			No Activity
GMF-08-219	MYERS	USFS			No Activity
WRF-08-220	NORTHWEST BURN BLOCK - SNELL ROCK	USFS	0		No Activity
WRF-08-221	DERBY MESA	USFS			No Report
ARF-08-222	A-BAY TEMP STORAGE	USFS			No Activity
SJF-08-225	BURNS CANYON	USFS			No Report
SJF-08-228	UPPER DOLORES SOUTH	USFS	0		No Activity
ARF-08-233	WILLOW CREEK TEMP STORAGE	USFS			No Activity
GMF-08-244	TAYLOR CANYON	USFS			No Activity
RTF-08-260	BIG CREEK RIDGE	USFS			No Activity
RTF-08-270	STAGECOACH BROADCAST	USFS			No Report
GMF-08-281	MESA LAKES	USFS			No Activity
SJF-08-289	HAYDEN CREEK	USFS	0		No Activity
PSF-08-290	BEAR MOUNTAIN	USFS	0		No Activity
ARF-08-301	SCANLOCK	USFS	0		No Activity
PSF-08-306	BENNETT MOUNTAIN	USFS	0		No Activity
GMF-08-310	WARD LAKE PILES	USFS			No Activity
PSF-08-311	TROUT WEST	USFS			No Report
WRF-08-326	GOLD PARK CAMPGROUND	USFS			No Activity
WRF-08-332	MESA CORTINA	USFS			No Report
WRF-08-334	GOLD HILL	USFS			No Report
WRF-08-335	PEAK 1 CG	USFS			No Report
WRF-08-336	EAGLE NEST	USFS			No Report
WRF-08-337	COUNTY COMMONS	USFS			No Report
ARF-08-341	LOVE PROPERTY	USFS			No Activity
ARF-08-347	ANRA LANDINGS	USFS			No Activity
ARF-08-351	EVERGREEN 6B	USFS			No Report
ARF-08-041	ESTES VALLEY PILES	USFS		961,104	
ARF-08-042	CRYSTAL LAKES PILES	USFS		45,075	
ARF-08-051	SUGARLOAF 129 & 164	USFS		6,684	No Report
ARF-08-053	SUGARLOAF 156 SOUTH	USFS		2,646	No Report
ARF-08-054	SUGARLOAF 90	USFS		4,361	No Report
ARF-08-055	SUGARLOAF UNITS 7N & F9	USFS		30,390	No Report
ARF-08-056	SUGARLOAF UNITS 165 A & B	USFS		864	No Report

Full Permit Number	Burn Name	Agency Group	Actual Acres	Volume Consumed	Completed
ARF-08-057	SUGARLOAF F5 - 167	USFS		24,042	No Report
ARF-08-058	SUGARLOAF 168 / F2.1	USFS		4,144	No Report
ARF-08-059	PORTER RANCH UNITS 11,12,13	USFS		45,416	No Report
ARF-08-060	TUNGSTEN-BEAVER UNIT 2	USFS		8,753	No Report
ARF-08-061	LAKESHORE GOOD NEIGHBOR	USFS		14,688	No Report
ARF-08-127	WINIGER STEWARDSHIP 1, UNIT 16	USFS		1,978	No Report
ARF-08-129	SUGARLOAF UNIT 27W	USFS		24,300	No Report
ARF-08-149	DEADHORSE PILES	USFS		86,626	
ARF-08-166	ELKHORN-MANHATTAN PILES	USFS		44,604	
ARF-08-180	PAWNEE 2008 - EAST	USFS	1,590		
ARF-08-181	PAWNEE 2008 - WEST	USFS	4,299		
ARF-08-223	KAWANEECHE	USFS		9,600	No Report
ARF-08-234	SIMPSON	USFS		254,470	No Report
ARF-08-235	RANGER GULCH	USFS		112,887	No Report
ARF-08-291	SHEEP CREEK 2	USFS	1,297		
ARF-08-312	DENVER CREEK	USFS		10,200	No Report
ARF-08-346	SOUTH FORK	USFS		10,200	No Report
GMF-08-093	COLUMBINE WILDLIFE OAK BURN	USFS	100		
GMF-08-095	CLAY CREEK ROLLERCHOP	USFS	138		
GMF-08-096	MAILBOX	USFS	197		
GMF-08-097	OURAY SPRINGS	USFS		72,900	
GMF-08-102	YELLOW PINE	USFS	42		
GMF-08-115	RIDGESTOCK T.S	USFS		122,400	
GMF-08-134	WAPA PILES	USFS		10,080	
GMF-08-145	DIVIDE CAMP GROUND & RASPBERRY	USFS		4,743	
GMF-08-157	ONE MILE	USFS	980		
GMF-08-168	HIGH TOWER PILES	USFS		55,890	
GMF-08-172	TOMICHI	USFS	300		
GMF-08-173	OHIO CITY-PITKIN	USFS	160		
GMF-08-176	LOS PINOS	USFS	1,864		
GMF-08-213	DAVEWOOD	USFS	393		
GMF-08-218	WEST ELK	USFS	111		
GMF-08-229	BEAR PAW PRESCRIBED FIRE	USFS	165		
GMF-08-239	PATTERSON MOUNTAIN/DRY PARK	USFS	327		
GMF-08-262	GRAND JUNCTION WATERSHED (UNITS 1-9)	USFS	1,944		
GMF-08-331	SAWMILL PARK TS	USFS		371,412	
GMF-08-343	LORRAIN GULCH	USFS		60,420	
GMF-08-344	WHITEPINE	USFS		9,555	
GMF-08-345	OLD MONARCH	USFS		22,031	
MLF-08-243	CARPENTER RIDGE	USFS	169		No Report
PSF-08-016	ROCKY GULCH PILES	USFS		94,452	
PSF-08-017	WAGON TONGUE SOUTH PILES	USFS		149,760	
PSF-08-018	SLEDGEHAMMER 2 PILES	USFS		171,024	
PSF-08-021	BLACK MOUNTAIN	USFS		47,666	
PSF-08-026	JENNY GULCH	USFS		235,806	
PSF-08-029	BROWNS RESERVOIR	USFS	1,280		

Full Permit Number	Burn Name	Agency Group	Actual Acres	Volume Consumed	Completed
PSF-08-037	PLATTE RIVER PILES	USFS		16,347	
PSF-08-038	FDR SHADED FUEL BREAK (550, 543, 560)	USFS		46,638	
PSF-08-039	DECKERS PILES	USFS		15,675	
PSF-08-040	TRUMBULL PILES	USFS		36,956	
PSF-08-046	COMANCHE - BACA	USFS	2,802		
PSF-08-047	COMANCHE - LAS ANIMAS	USFS	1,046		
PSF-08-064	LONG JOHN EAST PILES	USFS		12,789	No Report
PSF-08-065	RIDGEWOOD PILES	USFS		8,465	No Report
PSF-08-066	WOODLAND PARK PILES	USFS		6,162	No Report
PSF-08-072	ROAD GULCH	USFS	218		
PSF-08-077	LEADVILLE NATIONAL FISH HATCHERY	USFS		271	
PSF-08-079	BROWNS CREEK	USFS		57,630	
PSF-08-080	MAYSVILLE	USFS		30,391	
PSF-08-081	LOGEPOLE FLATS	USFS		18,754	
PSF-08-082	PAN ARK	USFS		5,708	
PSF-08-083	UNIT 121 (Gametrail)	USFS		33,647	
PSF-08-086	TRUMBULL BROADCAST	USFS	29		
PSF-08-113	MONUMENT PILES	USFS		24,849	No Report
PSF-08-114	RYAN QUINLIN PILES	USFS		100,587	No Report
PSF-08-122	BLACK MOUNTAIN FIRE RESTORATION	USFS	450		
PSF-08-140	MILLER GULCH	USFS	259		
PSF-08-165	SLEDGEHAMMER EAST (p13/14/15)	USFS	483		
PSF-08-167	SLEDGEHAMMER EAST (P2/9/11A/16)	USFS	478		
PSF-08-245	BASSAM RIDGE	USFS	960		
PSF-08-246	THREEMILE CREEK	USFS	365		
PSF-08-247	RED DEER	USFS	270		
PSF-08-329	TURQUOISE LAKE CAMPGROUNDS	USFS		5,754	
PSF-08-349	MEADOW DIVIDE TS	USFS		90,250	
PSF-08-352	FRENCHMAN CREEK	USFS		10,396	
RGF-08-126	MILL CREEK UNIT 6	USFS	1,600		
RGF-08-131	EMBARGO PP RX	USFS	255		
RGF-08-182	LIME CREEK WILLOWS	USFS	30		
RGF-08-183	ALDER UNITS 1,2,3 & 4	USFS	420		
RGF-08-230	CONEJOS CANYON WUI PILES	USFS		57,375	
RGF-08-231	RITO HONDO	USFS	376		
RGF-08-232	NOVEMBER	USFS	75		
RTF-08-003	GORE LAKES PILE BURN	USFS		92,331	
RTF-08-004	SEEDHOUSE PILE BURN	USFS		204,309	
RTF-08-253	INDIAN RUN	USFS	80		
RTF-08-261	GOULD	USFS		267,070	
RTF-08-263	BEAR RIVER	USFS	350		
RTF-08-303	GORE PASS ADMINISTRATIVE SITES	USFS		3,188	
SJF-08-108	EAST FORK CAMPGROUND	USFS		15,200	
SJF-08-187	NORTH JACKSON PILES	USFS		2,921	
SJF-08-200	SOUTH CARVER BROADCAST	USFS	430		
SJF-08-201	TRIMBLE POINT	USFS	200		

Full Permit Number	Burn Name	Agency Group	Actual Acres	Volume Consumed	Completed
SJF-08-202	TRAIL CANYON BROADCAST	USFS	431		
SJF-08-203	HOUSE CREEK RIM & HORSECAMP	USFS	431		
SJF-08-204	DOE CANYON	USFS	220		
SJF-08-214	HERMOSA	USFS	4,405		
SJF-08-224	VIGIL ABEYTA MESAS	USFS	110		
SJF-08-226	DEVIL CREEK	USFS	110		
SJF-08-252	LOWER MIDDLE MOUNTAIN	USFS	265		
SJF-08-267	PIEDRA AERIAL PARK BENCH	USFS	2,000		
SJF-08-296	TURKEY SPRINGS CAMPGROUND	USFS		563	
SJF-08-307	EAST FORK SLIDE	USFS		966	
SJF-08-308	MARTINEZ CANYON #8	USFS		3,183	
WRF-08-236	COULTER MESA BURN BLOCK	USFS	1,612		
WRF-08-237	FRENCH CREEK - GRASS	USFS	766		
WRF-08-314	RIPPLE CREEK	USFS		37,620	
WRF-08-315	HIMES PEAK	USFS		9,500	
WRF-08-316	HORSE THIEF	USFS		5,700	
WRF-08-317	REDSTONE CAMPGROUND	USFS		8,781	
WRF-08-318	NAST COLONY	USFS		10,640	
WRF-08-319	CHAPMAN	USFS		8,036	
WRF-08-321	LOST CREEK 08 PILE	USFS		407	
WRF-08-323	FRISCO WUI	USFS		40,339	
WRF-08-324	WEST VAIL	USFS		25,530	
WRF-08-327	EAST FORK CAMPGROUND	USFS		5,695	
WRF-08-328	CAMP HALE CG	USFS		8,550	
WRF-08-333	HEATON BAY CG	USFS		12,362	
WRF-08-338	EAST VAIL	USFS		57,036	
RMR-08-100	ARSENAL PILES 2008	USFWS			No Report
BPR-08-191	SPITZIE	USFWS			No Report
ALR-08-205	UNIT P	USFWS			No Activity
ALR-08-206	UNIT C2	USFWS			No Activity
ALR-08-147	UNIT D	USFWS	88		
ARR-08-266	SPRING CREEK	USFWS	375		
BPR-08-067	BROWNS PARK PILE	USFWS		10,674	
BPR-08-148	BEAVER CREEK	USFWS	93		
RMR-08-124	ARSENAL BROADCAST BURNS 08	USFWS	282		
WEX-08-128	GREEN MTN. UNITS 1-5	WMFD	31		
WEX-08-287	KEN CARYL NORTH HOGBACK SOUTH	WMFD	47		