

Oregon Smoke Management Annual Report

2007



"STEWARDSHIP IN FORESTRY"

**OREGON DEPARTMENT OF FORESTRY
FIRE PROTECTION DIVISION
SMOKE MANAGEMENT AND FUELS**

OREGON SMOKE MANAGEMENT
ANNUAL REPORT
2007

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(Annual Report available online at <http://oregon.gov/ODF/FIRE/SMP/SMR2007.pdf>)

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OREGON DEPARTMENT OF FORESTRY

SMOKE MANAGEMENT 2007 ANNUAL REPORT

2007 SUMMARY

- **Acres burned** – In western Oregon 53,702 acres were burned and 87,420 acres were burned in eastern Oregon. Acres treated in western Oregon were just about average for the last 10 years while eastern Oregon burning was 20 percent below average.
- **Intrusions** – There were six smoke intrusions into designated areas and one intrusion into an eastside protected area.
- **Smoke impact** – About 21 hours of smoke impact into designated areas were recorded. Five impacts were light and one was moderate.
- **Emissions** -- Emissions were 17,224 tons of PM 2.5, which is a little less than average for the last 11 year period.
- **Visibility** – Visibility impairment of the Class 1 wilderness areas dropped greatly from last year, contributing about 4 percent of the time during the visibility impairment period.

PROGRAM OVERVIEW

The Oregon Smoke Management Plan was developed as a voluntary program in 1969 and adopted as a regulatory program by the State Forester and the Environmental Quality Commission (EQC) in 1972. The plan has gone through several major revisions since then. A major revision to the plan was just completed and will be implemented in 2008. Some of the important changes include:

- 1) Changing the name of designated areas (DAs) to smoke sensitive receptor areas (SSRAs) and increasing the number of these areas to protect from smoke intrusions from 11 to 23.
- 2) Changing the fee structure for registering and accomplishing units, and including federal payments of all units throughout the state.
- 3) Changing how landings will be interpreted and including these units to pay fees.
- 4) Charging landowners greater responsibility to prevent smoke intrusions into SSRAs.

The plan's overall purpose is to keep the smoke from forestland prescribed burning from being carried to certain "designated areas" and other areas sensitive to smoke. The plan is a framework through which emission reduction goals were achieved. The State Forester administers the plan, in

cooperation with landowners, land management agencies and air quality agencies. The plan applies to state, federal, and private forestland in Oregon. Mandatory smoke management constraints apply to burning in western Oregon, the Deschutes National Forest, and federal forest lands in the Blue Mountains of Northeast Oregon. Voluntary programs are in effect in the Klamath Falls and Lakeview areas, as shown in Figure 1A. The Oregon Smoke Management Plan contains six principle objectives. These objectives are to:

1. Protect public health,
2. Minimize smoke intrusions into designated population areas,
3. Reduce emissions from prescribed burning,
4. Protect visibility in Class 1 wilderness areas during the summer months,
5. Maximize burning opportunities while minimizing emissions, and
6. Coordinate with other state smoke management programs.

PROGRAM SUMMARY

Audits:

The Oregon Smoke Management Plan goal is an annual audit of approximately one-percent of the prescribed burns conducted in the restricted area. Approximately one-half of the audits are conducted on the day of the burn and one-half are conducted prior to the burn. The purpose of these audits is to help maintain consistent data reporting and monitor the effectiveness of the Oregon Smoke Management Program.

Pre-burn audits were conducted on randomly selected, registered units before burning. Fifteen pre-burn audits were desired and five were completed. Burn day audits were conducted on the day the units were burned. The auditors randomly selected units for burn day audits. Fourteen burn day audits were desired and five were completed.

Audited units were burned in a manner consistent with the burn permits, burn plans, and written and verbal instructions in regard to air quality. For the most part, units audited were fairly close in tonnage calculation to what was reported.

Meteorological Services:

Oregon Department of Forestry meteorologists provide weather forecasts and burning instructions and advisories for western Oregon (restricted area), federal

lands in northeast Oregon, and voluntary areas around Klamath Falls, La Grande, and Lakeview. ODF meteorologists provided assistance to the Lakeview wood stove smoke control program. Through a cooperative agreement with DEQ they are making the open burning forecast for the Willamette Valley north of Lane County during the period that field burning is not being conducted.

Other forecast services included weather support for significant weather events (heavy rain, wind, etc.). ODF meteorologists provide warnings for potential debris flow landslides caused by excessively heavy rains in western Oregon. One warning was issued in 2007.

PROGRAM ACCOMPLISHMENT DATA

The following tables and figures provide detailed information of the smoke management program. The data details accomplishments for 2007 and comparative information with previous years.

Figure 1A

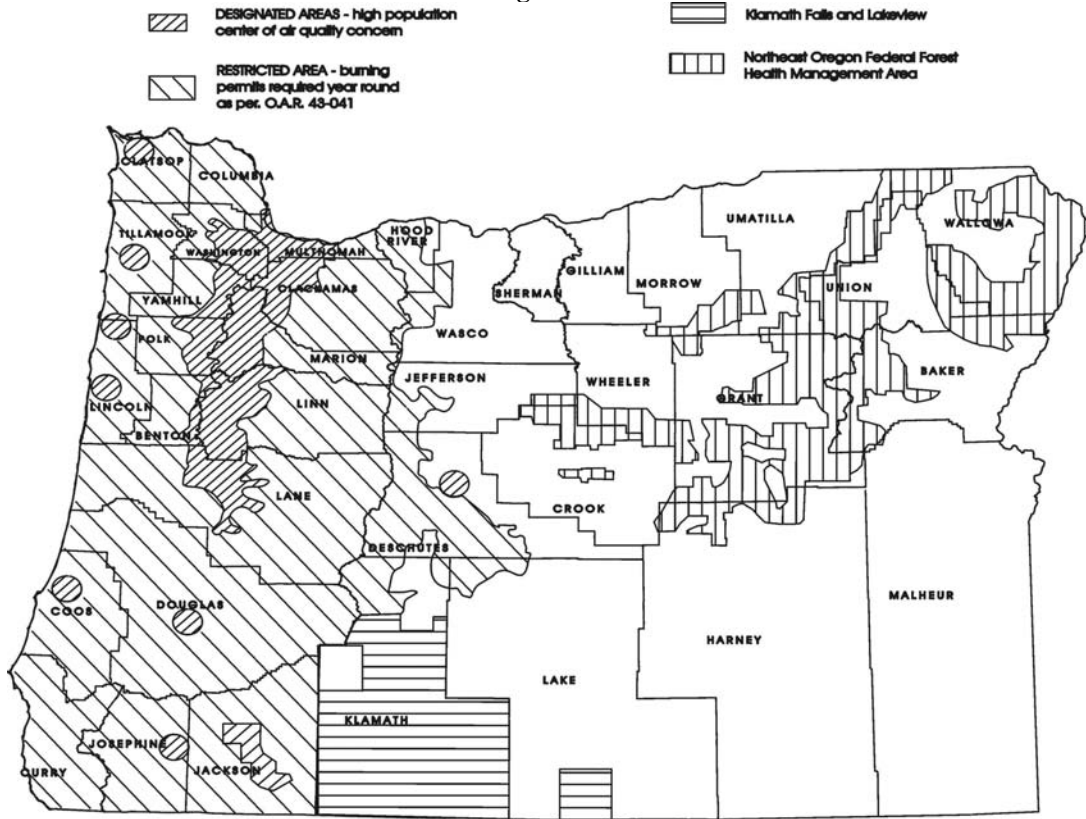


Figure 1B

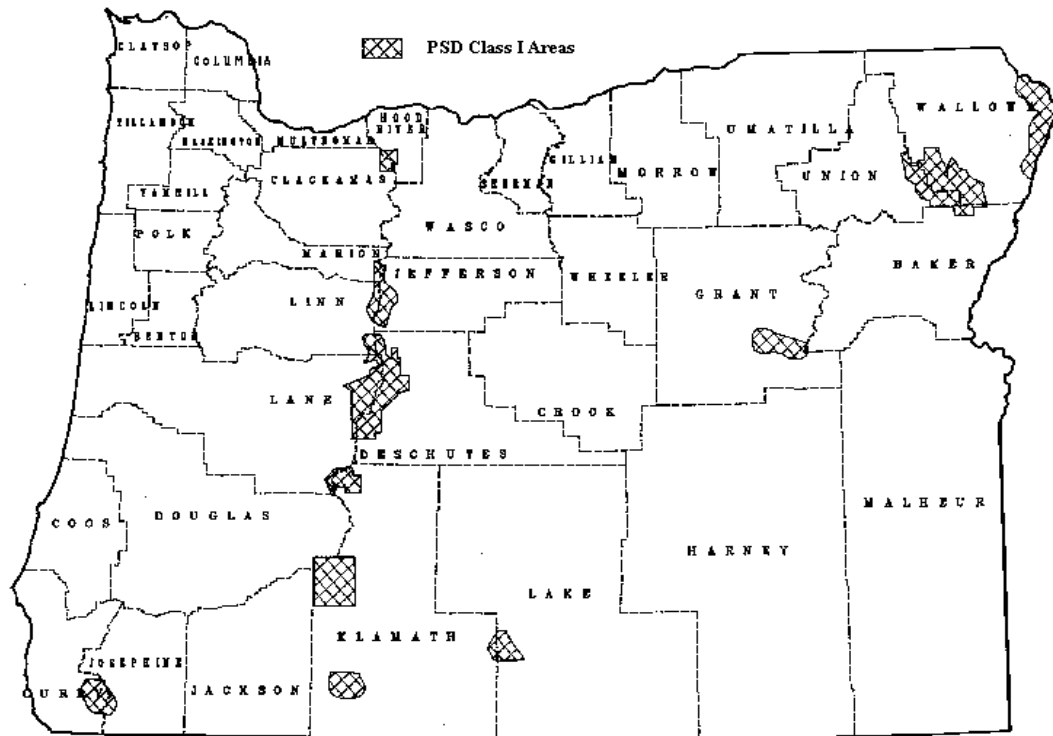


TABLE 1
1998-2007 ACCOMPLISHMENT SUMMARY

Burning totals within the restricted area:

Year	Total No. Units	No. Units Burned	Acres Burned	Tons Burned	No. Intrusions
1998	3,092	2,313	47,494	809,729	3
1999	3,010	2,302	48,292	866,964	8
2000	3,437	2,674	57,035	978,156	4
2001	3,129	2,340	50,319	966,522	4
2002	3,430	2,427	56,713	886,987	1
2003	3,551	2,329	46,017	842,918	2
2004	3,964	2,906	65,520	1,146,628	10
2005	3,872	2,786	63,669	1,106,023	6
2006	3,496	2,995	58,798	1,262,284	6
2007	3,645	2,932	53,702	1,075,037	6
Average	3,463	2,600	54,756	994,125	5

Burning totals outside of the restricted area:

Year	Total No. Units	No. Units Burned	Acres Burned	Tons Burned
1998	1,379	742	128,654	1,730,481
1999	1,418	867	143,876	827,115
2000	938	668	143,387	746,773
2001	1,073	569	61,058	428,133
2002	1,109	698	139,552	678,653
2003	1,288	650	92,679	609,582
2004	1,028	612	89,846	640,542
2005	941	500	80,468	617,312
2006	708	570	86,460	704,918
2007	903	650	87,420	684,741
Average	1,079	653	105,340	766,825

Figure 2A

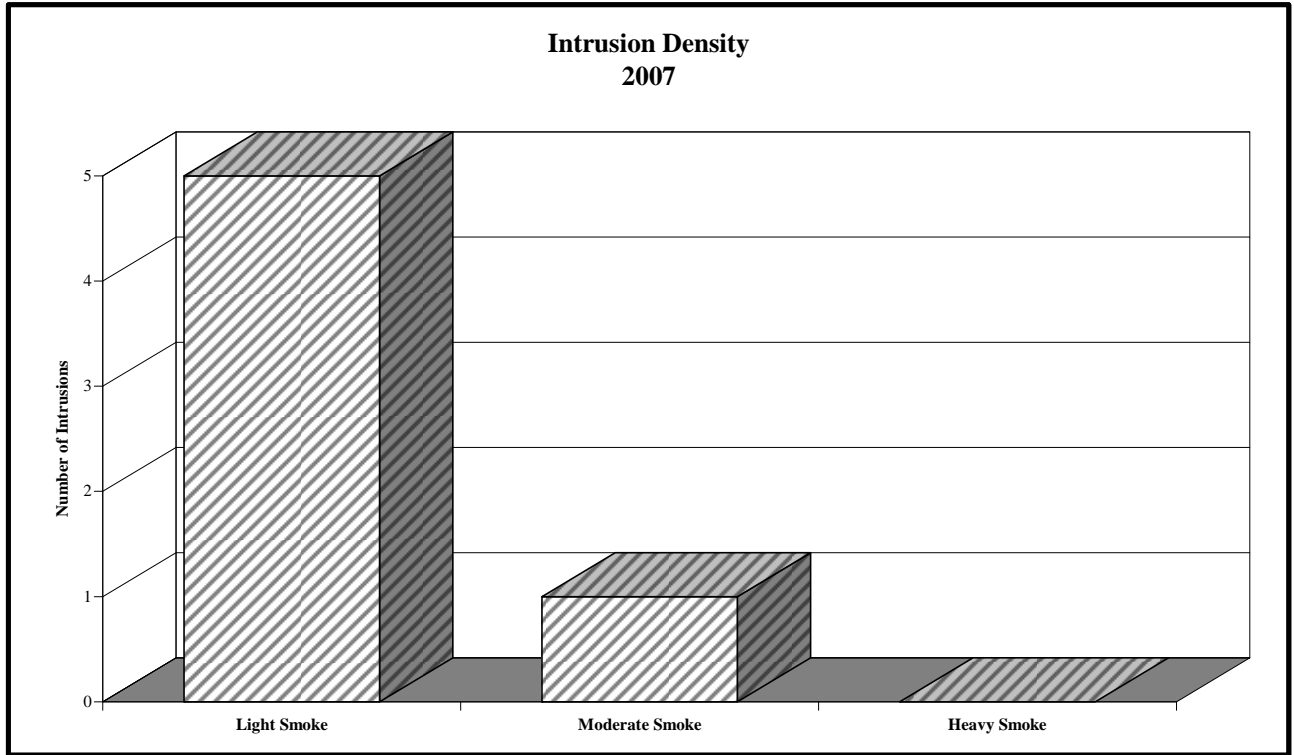


Figure 2B

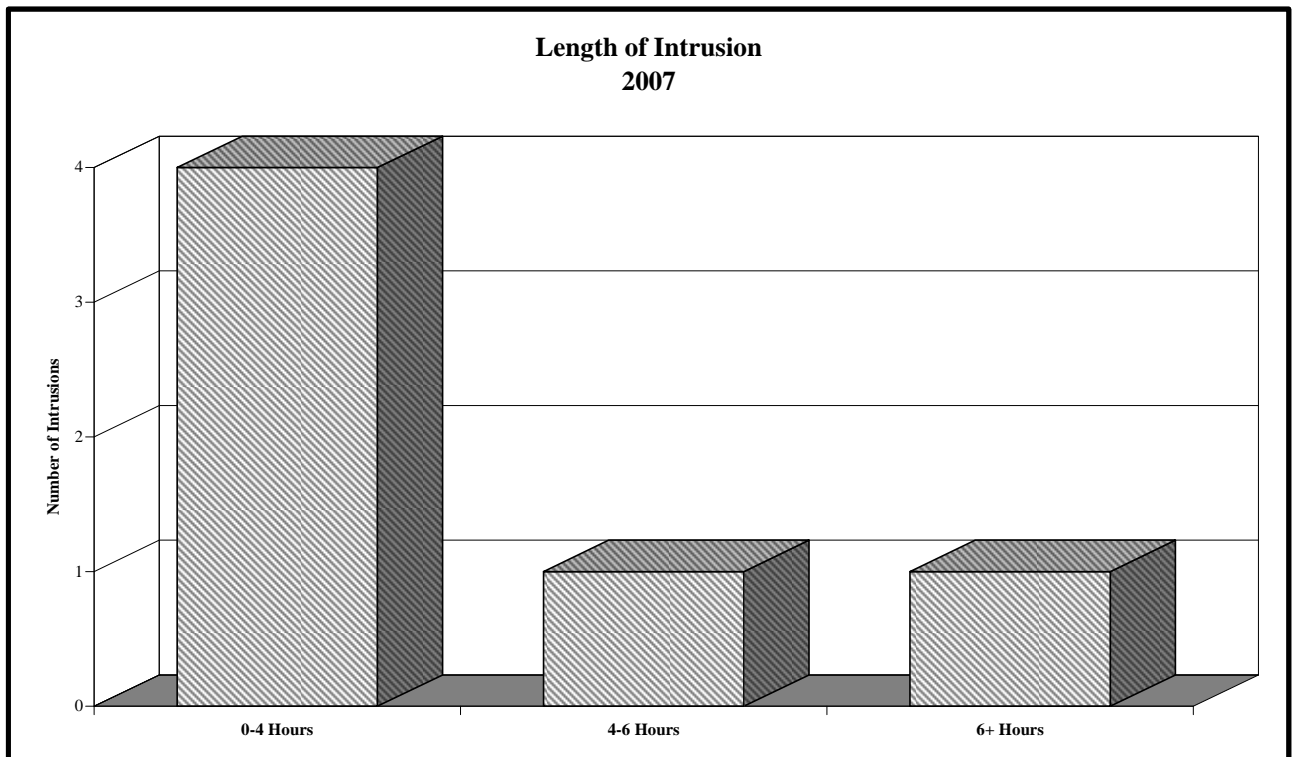


Figure 3A

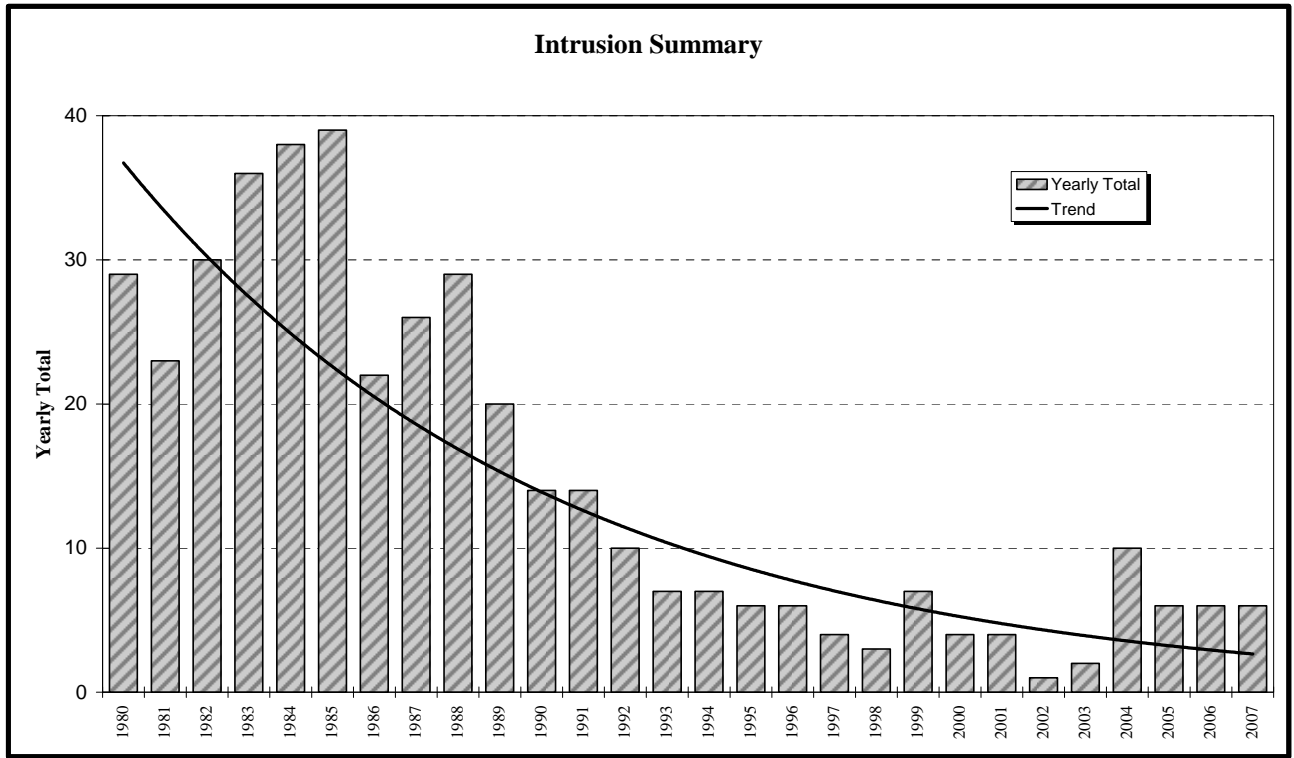
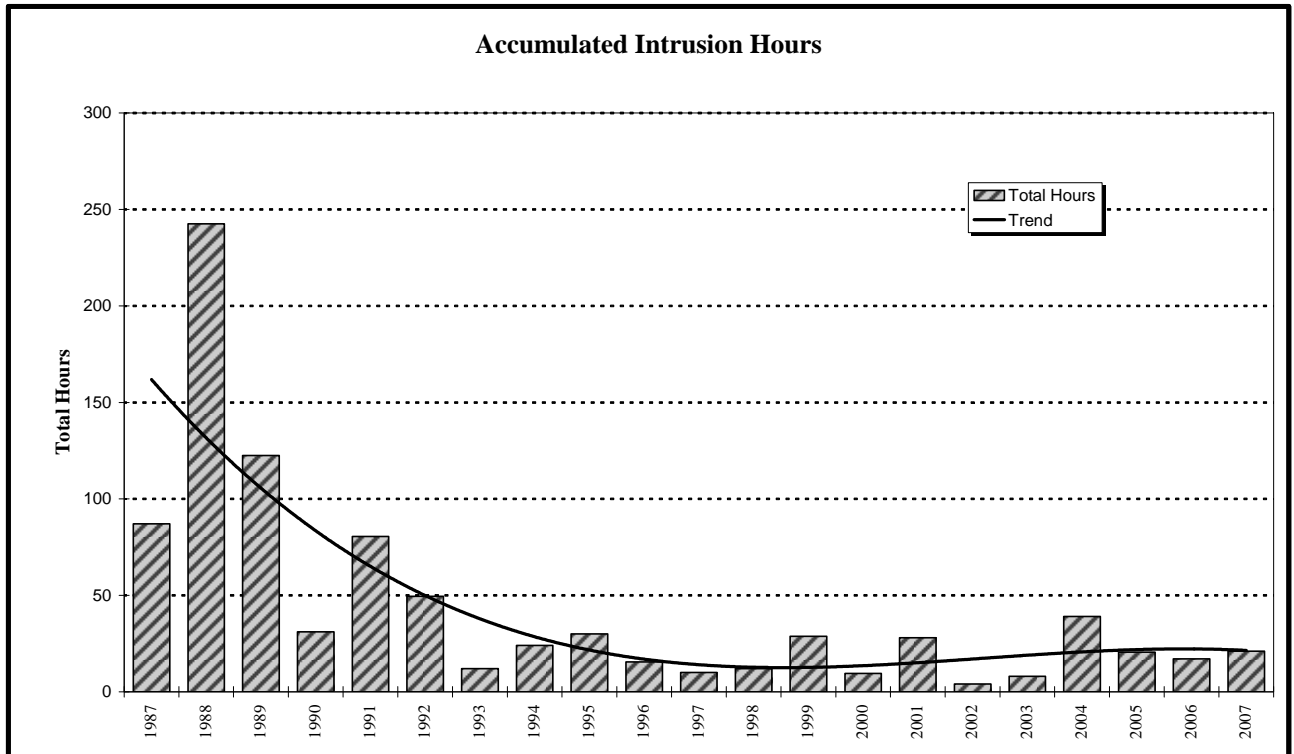


Figure 3B



**TABLE 2A
SMOKE INTRUSION SUMMARY – 2007**

Restricted Area

Date	District/ Forest	Primary Area Affected	Unit No.	Owner Class	Intensity	Length
Jan 30	West Oregon	Newport	05-553-37630-08	Private	Light	2 hours
Mar 14	Deschutes NF	Bend	07-406-10221-03	USFS	Light	3.5 hours
Apr 30	West Lane	Veneta/Eugene	05-740-61257-01	Private	Light	2 hours
Apr 29	West Oregon	Corvallis	06-553-37170-03	Private	Moderate	7 hours
May 15	West Lane	Veneta/Eugene	06-781-50931-00	Private	Light	5 hours
Oct 16	West Lane	Eugene	Multiple	Private	Light	1.5 hours

**TABLE 2B
PROTECTED AREA SMOKE INTRUSION SUMMARY –2007**

Non-Restricted Area

Date	Forest	Area Affected	Owner Class	Intensity	Length
May 15	Wallowa-Whitman NF	Baker City	USFS	Moderate	9 hours

Figure 4

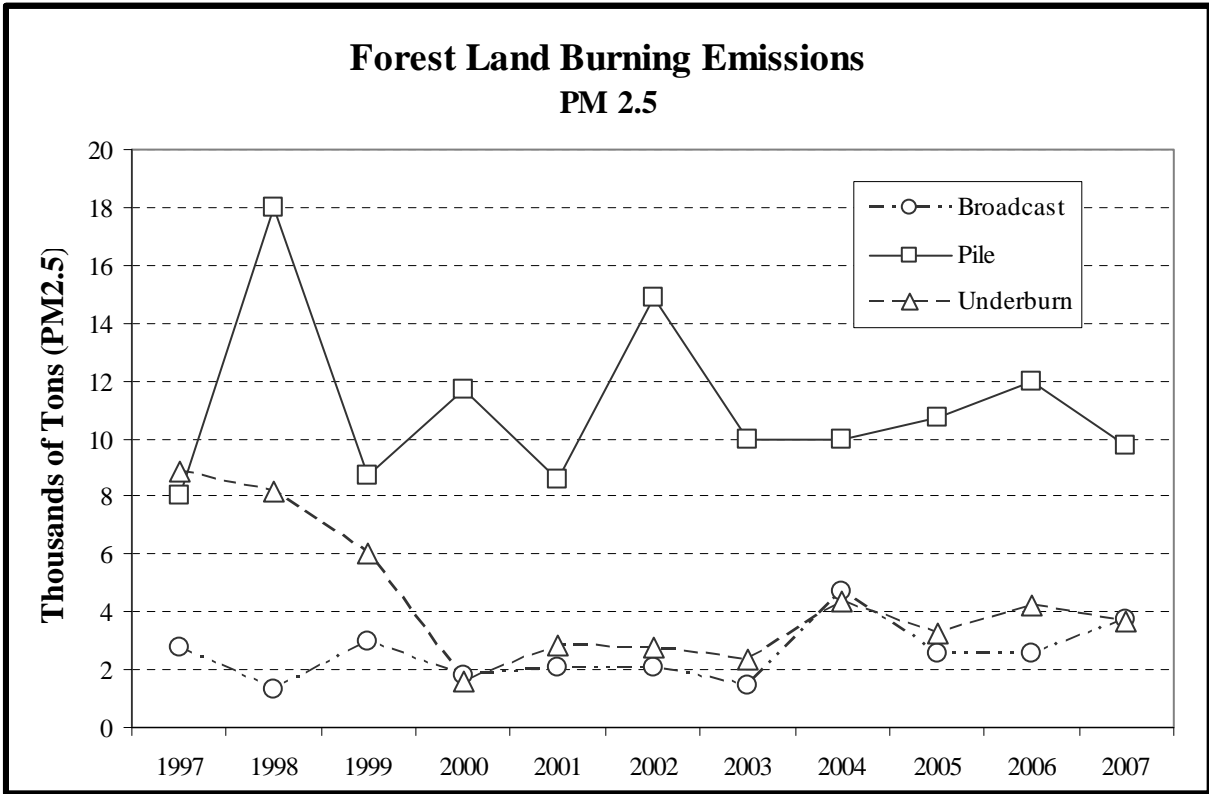


Table 3A

	PM 2.5 Emissions (Tons) Broadcast										
	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Astoria	15	9	6	1	0	0	0	0	0	0	9
Central Oregon	0	0	0	296	0	508	235	2246	301	585	339
Clackamas-Marion	43	77	19	98	19	0	0	0	0	0	0
Coos FPA	633	464	758	748	764	583	369	1066	666	704	1092
Crater Lake NP	0	0	0	0	0	0	0	0	0	0	0
Deschutes NF	5	0	1	1	1	1	0	34	93	26	0
Douglas FPA	249	55	86	137	140	88	58	131	96	50	22
Eastern Lane	26	0	0	32	3	0	0	0	0	0	0
Forest Grove	35	51	31	33	22	14	24	25	3	14	11
Fremont NF	0	0	0	0	54	11	0	0	0	290	1342
Klamath NF	18	0	0	0	0	0	0	0	0	0	0
Klamath-Lake	410	0	1549	0	502	0	102	0	1065	0	175
Linn	46	27	9	4	4	0	0	0	0	0	0
Malheur NF	118	61	149	0	69	11	188	94	0	117	188
Mt. Hood NF	13	0	0	0	0	0	39	147	29	0	0
North Cascade						4	169	4	0	0	52
Northeast Oregon	0	0	0	0	0	11	51	0	0	0	62
Ochoco NF	101	3	9	12	24	82	6	17	0	0	0
Rogue/Siskiyou NF	0	0	18	0	9	0	0	0	0	0	73
Siskiyou NF	108	37	21	32	0	0	0	138	9	28	0
Siuslaw NF	4	59	6	0	0	18	3	2	0	1	3
South Cascade						22	0	26	0	460	0
Southwest Oregon	59	41	85	17	87	3	2	25	103	16	34
Tillamook	0	0	4	0	0	0	0	1	0	0	0
Umatilla NF	129	23	52	2	51	83	0	258	0	47	0
Umpqua NF	60	1	0	1	12	36	4	7	0	0	1
Walker Range	0	0	0	0	0	0	0	0	0	0	0
Wallowa-Whitman NF	169	3	10	29	43	165	11	15	52	0	27
West Oregon	259	236	97	254	165	265	190	242	55	123	179
Western Lane	133	70	75	106	72	143	105	200	98	99	92
Willamette NF	109	65	17	3	0	4	0	8	1	34	50
Winema NF	0	0	0	0	7	0	0	0	7	0	0
	2742	1282	3002	1806	2048	2052	1556	4686	2578	2594	3751

Table 3B

PM 2.5 Emissions (Tons) Pile											
	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Astoria	427	355	486	261	539	325	435	407	525	279	255
Central Oregon	523	11264	651	503	312	522	164	303	216	120	175
Clackamas-Marion	154	53	208	387	446	0	0	0	0	0	0
Coos FPA	880	1023	945	1146	1152	1078	1290	1294	1338	1488	1786
Crater Lake NP	0	0	0	0	0	0	0	0	0	0	0
Deschutes NF	126	132	140	268	106	92	42	71	39	1140	170
Douglas FPA	262	322	381	353	537	443	606	841	520	936	579
Eastern Lane	694	734	920	727	528	0	0	0	0	0	0
Forest Grove	326	415	336	535	640	612	590	742	520	474	555
Fremont NF	8	0	0	1	0	1	0	6	8	0	2
Klamath NF	0	0	0	0	0	0	0	0	0	0	5
Klamath-Lake	50	322	150	478	34	542	1939	641	652	484	467
Linn	677	597	829	1233	1169	0	0	0	0	0	0
Malheur NF	116	184	103	76	24	189	43	174	63	268	273
Mt. Hood NF	21	97	42	196	3	210	1	22	27	15	37
North Cascade						233	67	497	248	408	439
Northeast Oregon	1488	144	397	581	368	471	230	124	518	518	352
Ochoco NF	98	170	286	130	7	10	3	0	0	0	0
Rogue/Siskiyou NF	95	49	53	39	2	150	123	194	141	100	362
Siskiyou NF	138	8	29	23	32	25	43	309	478	173	0
Siuslaw NF	0	1	9	8	0	3	2	1	4	9	22
South Cascade						1847	1368	1647	2367	1533	1568
South west Oregon	271	302	333	461	268	399	480	683	812	1012	596
Tillamook	66	20	122	115	84	73	137	184	248	225	263
Umatilla NF	0	0	9	11	10	50	4	16	2	0	8
Umpqua NF	47	78	68	27	93	19	8	56	39	46	44
Walker Range	42	43	340	1559	107	448	504	13	25	743	17
Wallow a-Whitman NF	14	71	164	159	83	171	35	69	3	18	45
West Oregon	679	834	1127	1128	1053	1038	1106	1023	1160	1260	1203
Western Lane	510	517	464	757	625	316	513	412	499	559	469
Willamette NF	148	214	120	121	26	61	63	60	144	96	59
Winema NF	169	35	15	388	323	145	165	156	99	76	22
Total	8029	17984	8727	11671	8571	9470	9961	9945	10695	11980	9773

Table 3C

PM 2.5 Emissions (Tons) Underburn											
	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Astoria	0	0	0	0	0	0	0	0	0	0	0
Central Oregon	3	46	74	0	30	36	0	0	8	148	243
Clackamas-Marion	0	0	0	0	0	0	0	0	0	0	0
Coos FPA	0	0	0	0	0	0	0	0	0	0	0
Crater Lake NP	0	0	0	0	0	22	0	0	0	0	0
Deschutes NF	389	420	287	104	283	105	178	323	178	233	279
Douglas FPA	0	0	0	0	0	1	0	0	0	0	0
Eastern Lane	0	0	0	0	0	0	0	0	0	0	0
Forest Grove	0	0	0	0	0	0	0	0	0	0	0
Fremont NF	1007	2224	2293	78	501	586	483	1341	171	590	339
Klamath NF	25	27	0	0	0	0	0	0	0	0	0
Klamath-Lake	396	1797	1053	0	129	0	20	0	11	123	50
Linn	0	0	0	0	0	0	0	0	0	0	0
Malheur NF	2522	1071	1021	11	356	251	265	851	405	67	732
Mt. Hood NF	92	10	102	3	4	0	0	31	8	36	26
North Cascade						0	0	0	0	9	0
Northeast Oregon	0	0	0	0	0	0	0	0	35	11	66
Ochoco NF	1314	771	409	330	412	306	0	218	95	46	0
Rogue/Siskiyou NF	52	48	35	11	12	42	117	5	24	18	29
Siskiyou NF	58	6	14	71	8	62	6	20	1	2	0
Siuslaw NF	0	0	0	0	0	0	0	0	0	0	3
South Cascade						0	0	0	0	0	0
South west Oregon	38	54	42	123	103	178	95	97	109	122	32
Tillamook	0	0	0	0	0	0	0	0	0	0	0
Umatilla NF	1504	766	296	394	59	293	144	168	358	850	527
Umpqua NF	130	150	48	83	155	140	17	92	58	489	130
Walker Range	0	0	0	0	0	0	0	0	0	0	0
Wallow a-Whitman NF	1015	553	251	313	561	557	901	1011	1391	996	795
West Oregon	0	0	0	0	0	0	0	0	0	0	0
Western Lane	0	0	0	0	0	0	0	0	0	0	0
Willamette NF	26	38	76	67	91	28	67	40	61	138	267
Winema NF	267	185	29	18	138	130	80	180	355	362	182
Total	8838	8166	6030	1606	2842	2736	2373	4377	3268	4240	3700

Table 4
Class 1 Area Visibility Protection Period Burning

Year	Cascade Range			Coast Range		
	No. of Units	Acres	Tons	No. of Units	Acres	Tons
1985	38	579	12,763	125	4,652	56,953
1986	91	1,494	42,809	62	1,504	17,573
1987	20	840	14,564	75	2,483	78,717
1988	11	178	7,107	71	1,921	53,153
1989	3	19	1,268	40	748	17,917
1990	3	50	1,736	48	1,349	39,975
1991	30	805	24,588	83	2,468	76,908
1992	1	32	1,260	1	1	120
1993	46	1,056	29,824	98	2,594	67,390
1994	0	0	0	10	428	9,921
1995	2	80	1,500	6	193	4,431
1996	0	0	0	9	665	14,568
1997	0	0	0	20	430	10,170
1998	23	372	12,418	17	652	9,158
1999	4	39	1,210	6	38	361
2000	0	0	0	0	0	0
2001	0	0	0	9	115	1572
2002	0	0	0	1	3	100
2003	0	0	0	2	4	59
2004	0	0	0	3	33	830
2005	2	23	636	6	31	542
2006	1	15	570	1	3	56
2007	0	0	0	3	17	101

Notes:

1. The Visibility Protection Period is defined to be from July 1 through September 15. Before 1992 the Visibility Protection Period was from July 4 through Labor Day.
2. The Cascade Range area includes the following districts and forests: North Cascade, South Cascade, Mt. Hood NF, and the Willamette NF.

The Coast Range area includes the following districts and forests: Astoria, Forest Grove, Tillamook, West Oregon, West Lane, and the Siuslaw NF.
3. A change in tonnage consumption reporting was established in 1987. Prior year's data was adjusted to conform to the current procedure.
4. An exemption was granted to allow burning in the Cascade Range through July 16, 1993, due to wet conditions during the spring. During this period 930 acres were burned in the Cascade Range and 1,285 acres were burned in the Coast Range.
5. An exemption was granted to allow burning in the Cascade Range through July 23, 1998 due to extremely wet conditions during the spring. All Cascades burning was conducted during this exemption period.
6. An exemption was granted to allow burning in the Cascade Range Monday through Thursday from July 6 through July 22, 1999 due to a deep snow pack and late snow melt in the spring. All Cascades burning conducted during the visibility protection period occurred during this exemption window.

Figure 5

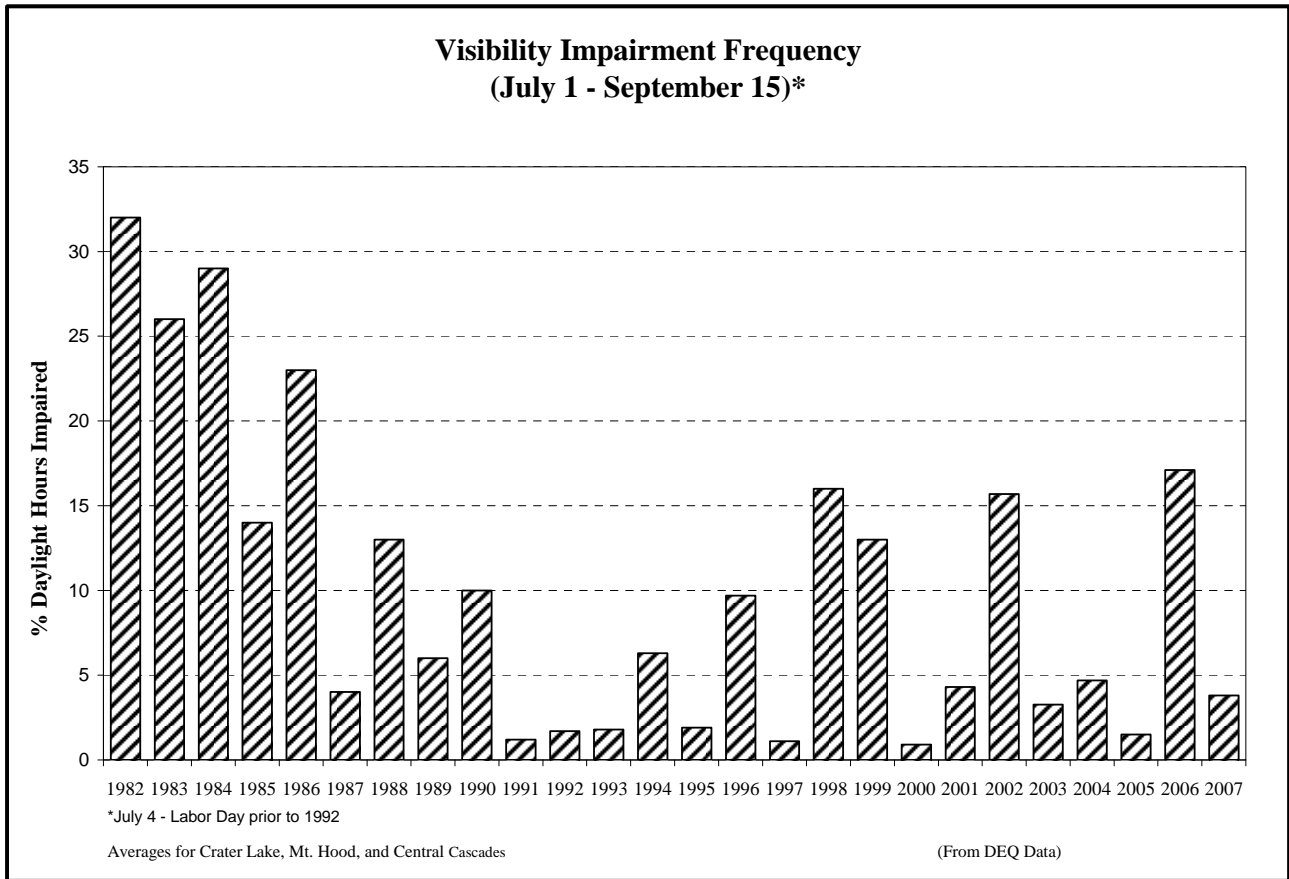


Figure 6

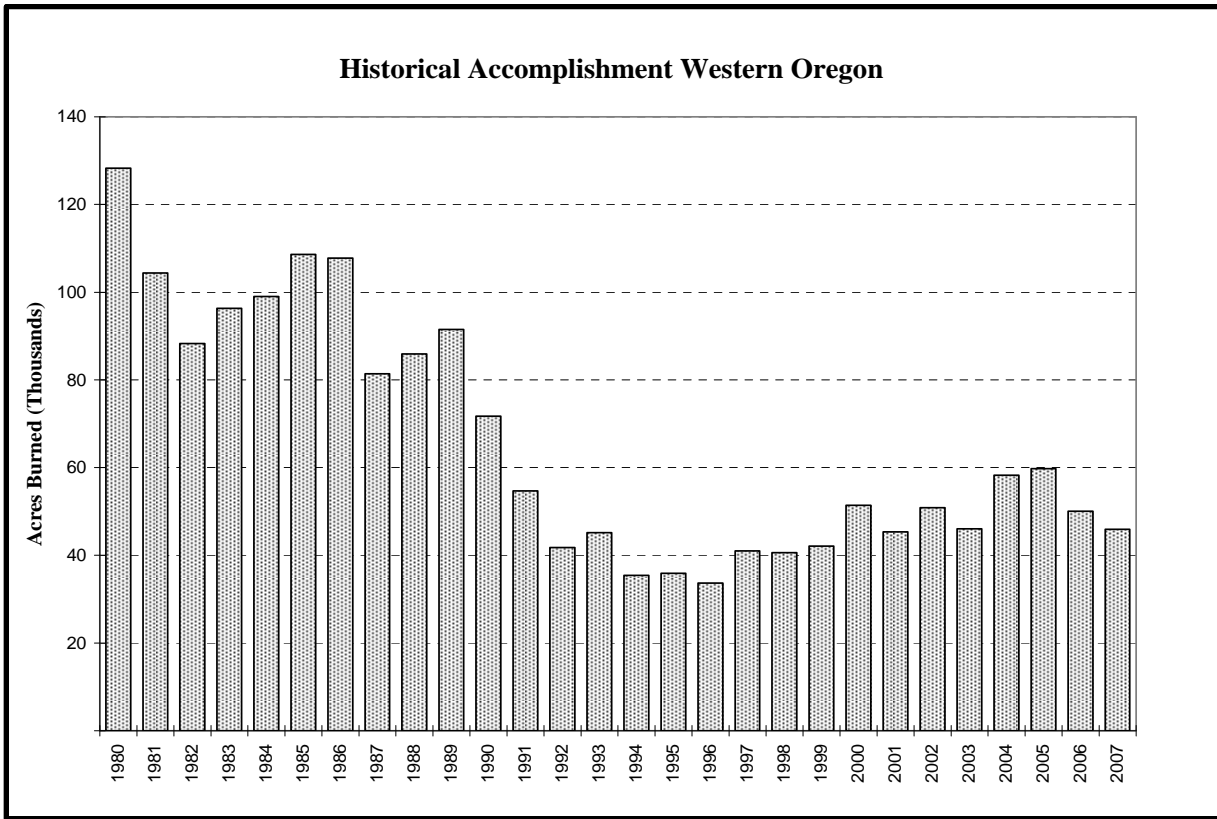


Figure 7

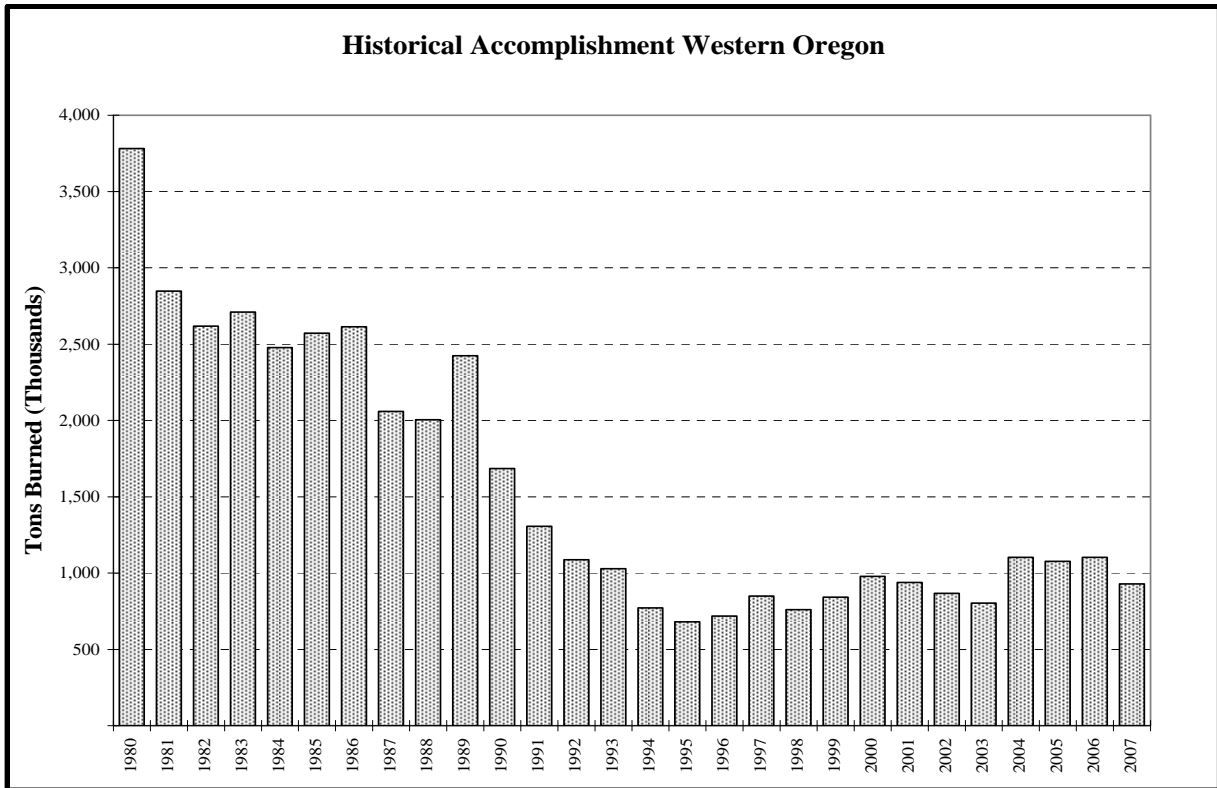


Figure 8

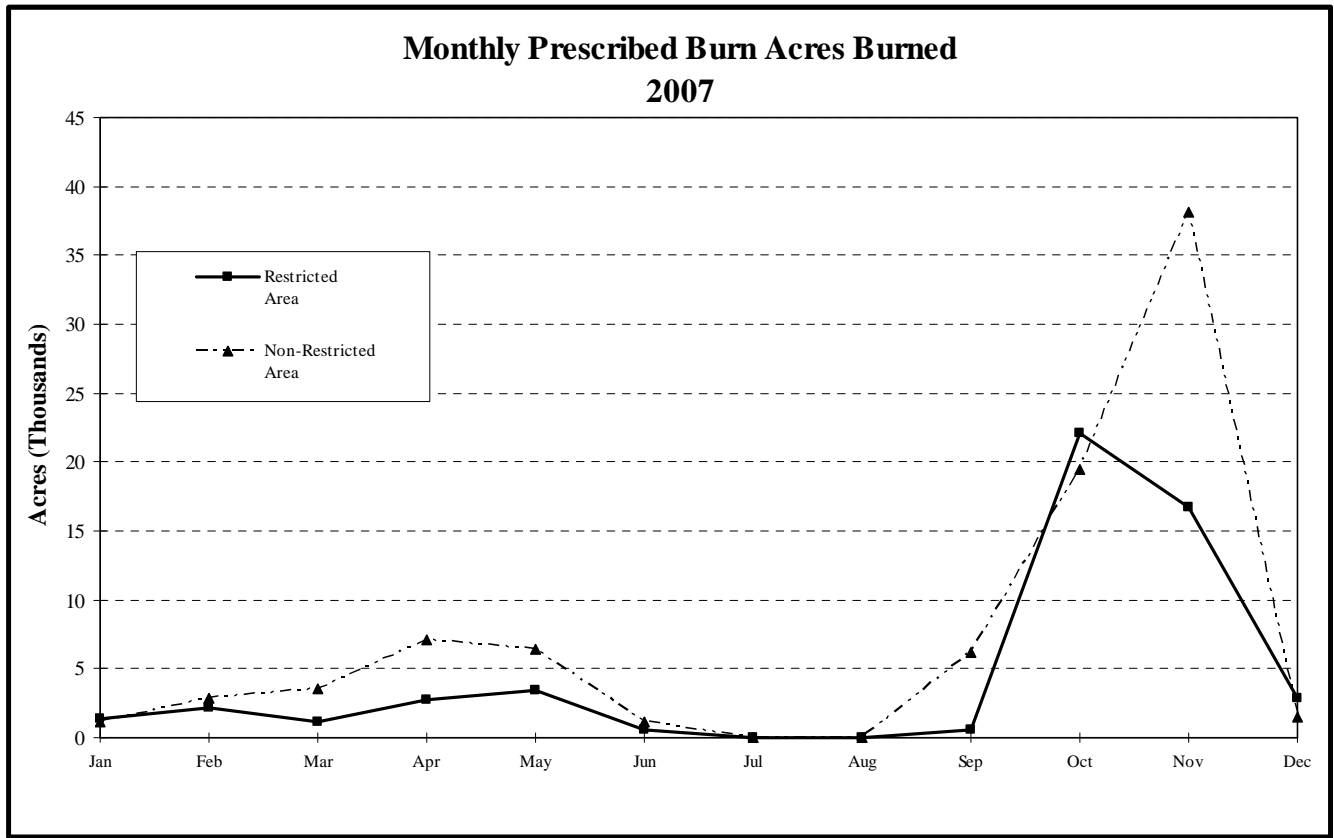


Figure 9

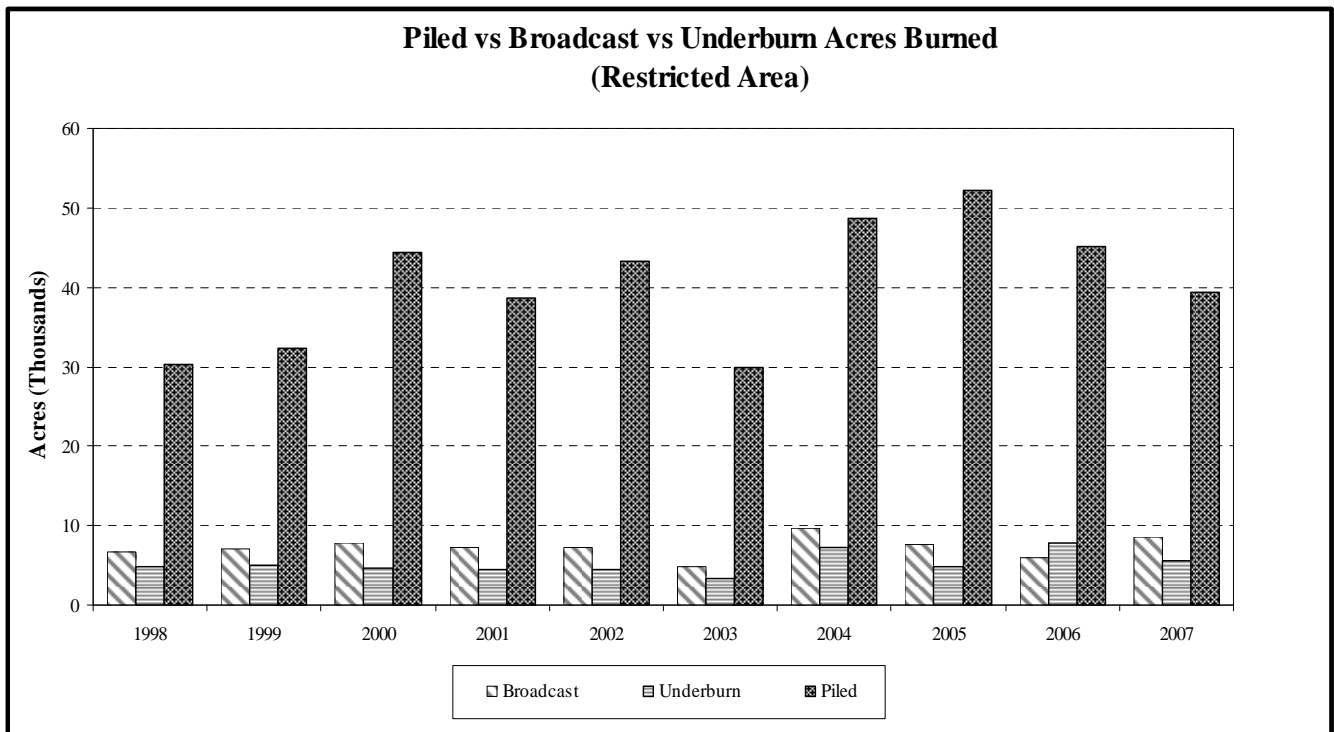


Figure 10

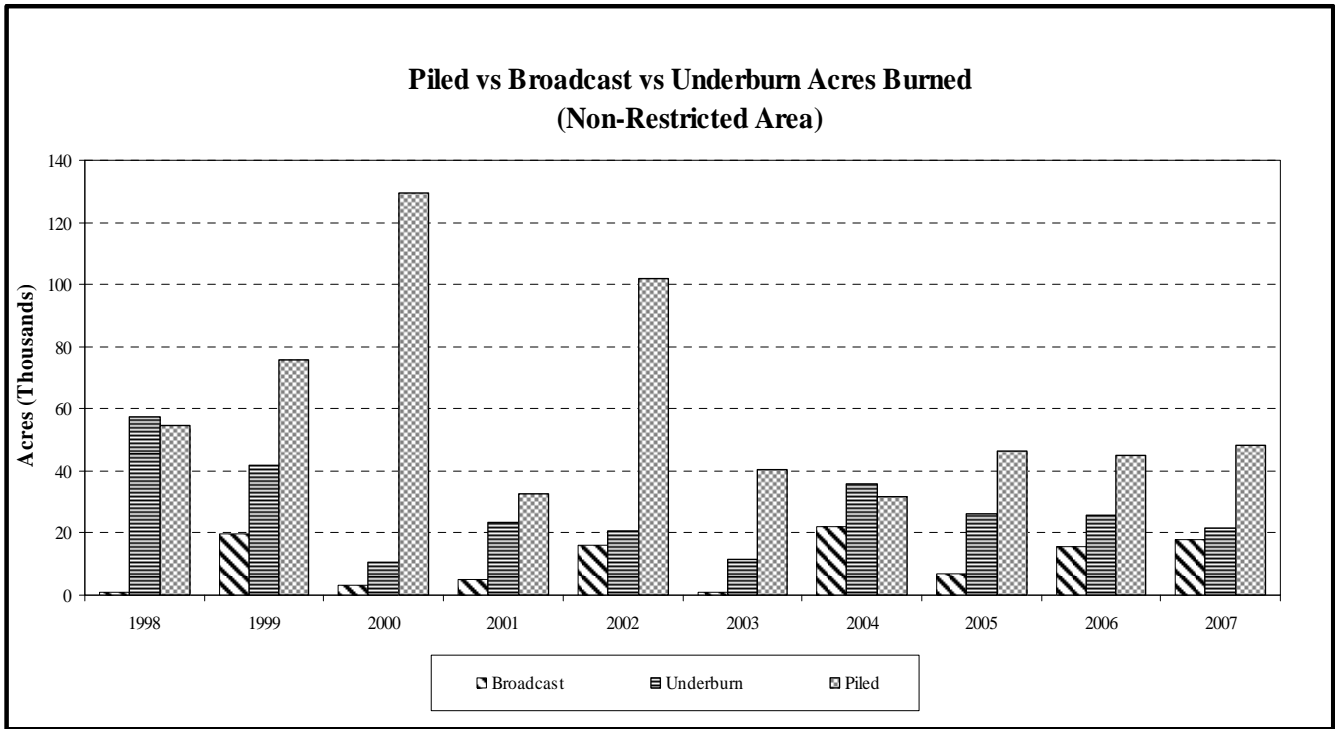


Table 5A
BURN SUMMARY BY DISTRICT -- 2007
 (Restricted Area)

District/Forest	Units Burned	Acres Burned	Tons Burned
Astoria	72	602	26,331
Coos FPA	594	8,583	301,772
Douglas FPA	193	1,919	52,675
Forest Grove	170	2,193	52,101
North Cascade	146	2,864	59,751
South Cascade	218	4,670	135,946
Southwest	267	7,403	77,687
Tillamook	73	645	26,472
Western Lane	197	2,382	54,410
West Oregon	382	6,797	131,603
Deschutes NF	226	7,705	44,505
Klamath NF	8	85	527
Mt Hood NF	43	1,006	6,334
Rogue River\Siskiyou NF	152	3,862	49,314
Siuslaw NF	63	166	3,157
Umpqua NF	50	964	16,800
Willamette NF	78	1,856	35,652
TOTAL	2,932	53,702	1,075,037

Table 5B
BURN SUMMARY BY DISTRICT -- 2007
 (Non-Restricted Area)

District/Forest	Units Burned	Acres Burned	Tons Burned
Central Oregon	108	13,110	88,044
Klamath-Lake	117	22,700	85,625
Northeast	115	17,988	61,138
Walker Range	1	832	1,482
Crater Lake NP	0	0	0
Fremont NF	5	8,141	174,641
Malheur NF	124	10,502	111,710
Ochoco NF	0	0	0
Umatilla NF	39	3,395	56,207
Wallowa-Whitman NF	86	7,543	86,472
Winema NF	55	3,209	19,422
TOTAL	650	87,420	684,741

Table 6A
Tons Burned by Month by District
2007
(Restricted Area)

District	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total by District
Astoria		207	129	5	982	5				17,703	7,420		26,451
Coos	13,447	9,147	7,654	29,908	19,074				234	89,631	118,628	14,049	301,772
Douglas	1,520	314			1,435	334			60	11,826	42,407	2,633	60,529
Forest Grove	631	1,327	325	1,100	296					20,193	21,239	6,990	52,101
North Cascade			505	1,449	4,314	2				43,937	9,398	146	59,751
South Cascade		1,661		578						89,894	42,469	1,344	135,946
Southwest	1,722	2,426	1,628	1,021	480					15,884	45,480	9,046	77,687
Tillamook	20	330		75	80					16,748	9,219		26,472
West Lane	781	4,109	612	618	3,890					24,806	15,787	3,807	54,410
West Oregon	1,180	4,264	1,155	3,750	4,255		59			63,975	44,917	8,048	131,603
Klamath NF										341	186		527
Mt Hood NF					1,015	1,428				1,827	2,064		6,334
Rogue/Siskiyou NF	844	2,279	84	1,452	2,615	20			10	24,522	15,306	2,182	49,314
Siuslaw NF		3			586				42	2,341	185		3,157
Umpqua NF					3,388					5,292	8,056	64	16,800
Willamette NF		90		315	16,007	12710			982	4,967	581		35,652
Deschutes NF			1,657	8,727	8,350	147			1,566	9,629	12,583	1,846	44,505
District Total	19,301	23,785	12,008	38,504	34,806	341	59	0	294	394,597	356,964	46,063	926,722
Forest Total	844	2,372	1,741	10,494	31,961	14,305	0	0	2,600	48,919	38,961	4,092	156,289
Grand Total	20,145	26,157	13,749	48,998	66,767	14,646	59	0	2,894	443,516	395,925	50,155	1,083,011

Table 6B
Tons Burned by Month by District
2007
(Non-Restricted Area)

District	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total by District
Central Oregon	4,740		1,400	15,970	600				19,614	26,650	15,909	3,161	88,044
Klamath-Lake	2,400	2,692	3,168	7,120						38,961	31,056	228	85,625
Northeast	4,145	2,562	235	6,730	270					2,939	44,103	154	61,138
Walker Range											1,482		1,482
Crater Lake NP													0
Fremont NF	990	54,550	73,650	32,645	6,860					386	5,560		174,641
Malheur NF	2,736	85	139	13,312	27,108	6,400			7,620	18,196	32,735	3,379	111,710
Ochoco NF													0
Umatilla NF				1,404	21,782					8,407	24,614		56,207
Wallowa-Whitman NF		450	758	2,750	29,993					33,272	18,530	719	86,472
Winema NF				3,147	13,414					1,813	1,048		19,422
District Total	11,285	5,254	4,803	29,820	870	0	0	0	19,614	68,550	92,550	3,543	236,289
Forest Total	3,726	55,085	74,547	53,258	99,157	6,400	0	0	7,620	62,074	82,487	4,098	448,452
Grand Total	15,011	60,339	79,350	83,078	100,027	6,400	0	0	27,234	130,624	175,037	7,641	684,741

Table 7A
Acres Burned by Month by District
2007
(Restricted Area)

District	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total by District
Astoria		11	10	5	47	2				361	166		602
Coos	574	320	348	922	665				78	2,428	2,954	294	8,583
Douglas	116	48			33	44			20	505	999	154	1,919
Forest Grove	119	124	12	33	23					829	650	403	2,193
North Cascade			28	81	129	2				2,121	492	11	2,864
South Cascade		39		68						2,912	1,581	70	4,670
Southwest	233	521	406	76	139					962	3,816	1,250	7,403
Tillamook	1	2		10	1					361	270		645
West Lane	51	216	32	43	215					1,192	512	121	2,382
West Oregon	72	268	67	260	254		7			3,669	1,875	325	6,797
Klamath NF										55	30		85
Mt Hood NF					145	204				463	194		1,006
Rogue/Siskiyou NF	177	581	18	77	102	10			5	2,094	657	141	3,862
Siuslaw NF		2			13				10	129	12		166
Umpqua NF					87					423	419	35	964
Willamette NF		3		7	432	297			220	786	111		1,856
Deschutes NF			211	1,171	1,187	21			278	2,755	1,973	109	7,705
District Total	1,166	1,549	903	1,498	1,506	48	7	0	98	15,340	13,315	2,628	38,058
Forest Total	177	586	229	1,255	1,966	532	0	0	513	6,705	3,396	285	15,644
Grand Total	1,343	2,135	1,132	2,753	3,472	580	7	0	611	22,045	16,711	2,913	53,702

Table 7B
Acres Burned by Month by District
2007
(Non-Restricted Area)

District	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total by District
Central Oregon	320		200	1,390	100				5,789	1,797	2,697	817	13,110
Klamath-Lake	300	475	405	1,026						9,363	11,017	114	22,700
Northeast	418	545	230	1,140	30					848	14,667	110	17,988
Walker Range											832		832
Crater Lake NP													0
Fremont NF	30	1,750	2,450	2,505	690					160	556		8,141
Malheur NF	30	71	65	697	2,344	1,150			370	1,158	4,205	412	10,502
Ochoco NF													0
Umatilla NF				54	857					878	1,606		3,395
Wallowa-Whitman NF		15	182	140	1,693					3,558	1,881	74	7,543
Winema NF				163	712					1,671	663		3,209
District Total	1,038	1,020	835	3,556	130	0	0	0	5,789	12,008	29,213	1,041	54,630
Forest Total	60	1,836	2,697	3,559	6,296	1,150	0	0	370	7,425	8,911	486	32,790
Grand Total	1,098	2,856	3,532	7,115	6,426	1,150	0	0	6,159	19,433	38,124	1,527	87,420

TABLE 8A
TONS BURNED BY MONTH WITHIN COUNTY
2007
(Restricted Area)

County	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Benton	50	0	0	0	0	0	0	0	0	17407	8325	6730	32,512
Clackamas	0	0	505	949	62	2	0	0	0	16918	6222	146	24,804
Clatsop	0	207	129	5	982	5	0	0	0	17,703	8148	0	27,179
Columbia	631	122	0	0	0	0	0	0	0	8020	3205	0	11,978
Coos	10707	6589	6525	13784	14406	0	0	0	0	61683	74464	3724	191,882
Curry	1680	309	1129	14171	0	0	0	0	0	18589	38551	9059	83,488
Deschutes	0	0	565	1958	5600	147	0	0	1486	3477	6243	950	20,426
Douglas	2605	3740	0	1953	7365	334	0	0	294	28629	67464	3967	116,351
Hood River	0	0	0	0	0	0	0	0	0	48	0	0	48
Jackson	2431	3043	1702	163	2805	20	0	0	10	31474	26480	5928	74,056
Jefferson	0	0	0	0	0	0	0	0	80	2182	2569	0	4,831
Josephine	135	547	10	2310	290	0	0	0	0	7143	26625	5296	42,356
Klamath	0	0	1092	3507	2750	0	0	0	0	2926	400	174	10,849
Lake	0	0	0	3262	0	0	0	0	0	1404	3371	722	8,759
Lane	756	4140	612	933	15752	12385	0	0	947	43216	23041	3994	105,776
Lincoln	1110	2995	880	3650	60	0	59	0	0	18182	22204	1208	50,348
Linn	0	1661	0	578	5612	325	0	0	77	85012	32975	1157	127,397
Marion	0	0	0	500	5497	0	0	0	0	19952	1666	0	27,615
Multnomah	0	0	0	0	0	0	0	0	0	690	70	0	760
Polk	0	1229	275	100	710	0	0	0	0	26542	12678	110	41,644
Tillamook	20	330	0	75	80	0	0	0	0	17023	12294	1020	30,842
Wasco	0	0	0	0	1015	1428	0	0	0	1052	774	0	4,269
Washington	0	0	150	1100	296	0	0	0	0	2879	8338	5968	18,731
Yamhill	20	1245	175	0	3485	0	0	0	0	11365	7788	2	24,080
TOTAL	20,145	26,157	13,749	48,998	66,767	14,646	59	0	2,894	443,516	393,895	50,155	1,080,981

TABLE 8B

**TONS BURNED BY MONTH WITHIN COUNTY
2007
(Non-Restricted Area)**

County	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Baker	3700	1800	420	150	1320	0	0	0	0	7785	3609	719	19,503
Crook	0	0	0	0	0	0	0	0	0	0	0	1201	1,201
Deschutes	0	0	0	100	0	0	0	0	0	0	0	771	871
Grant	0	85	139	1331 2	28435	6400	0	0	7500	17500	36426	0	109,797
Harney	7476	0	1400	1587 0	8250	0	0	0	1470 2	17754	25556	3379	94,387
Hood River	0	0	0	0	0	0	0	0	0	9242	9385	769	19,396
Jefferson	0	0	0	0	0	0	0	0	5032	0	0	400	5,432
Klamath	2400	2692	3102	1277 7	13414	0	0	0	0	33240	15691	228	83,544
Lake	990	5455 0	7371 6	3013 5	6860	0	0	0	0	7920	23455	0	197,626
Morrow	0	0	0	0	0	0	0	0	0	112	580	0	692
Umatilla	360	0	0	0	4630	0	0	0	0	2667	4124	54	11,835
Union	85	1212	573	1474	25059	0	0	0	0	20285	20789	100	69,577
Wallowa	0	0	0	2600	12059	0	0	0	0	13671	34031	0	62,361
Wasco	0	0	0	0	0	0	0	0	0	350	1262	20	1,632
Wheeler	0	0	0	0	0	0	0	0	0	98	129	0	227
TOTAL	15,011	60,339	79,350	76,418	100,027	6,400	0	0	27,234	130,624	175,037	7,641	678,081

Table 9A
Burn Data by Owner Type
2007
(Restricted Area)

District/Forest	Private			State			Federal (Except USFS)			USFS		
	Units	Acres	Tons	Units	Acres	Tons	Units	Acres	Tons	Units	Acres	Tons
Astoria	53	436	18,204	19	166	8,127	0	0	0			
Coos FPA	535	7,864	280,126	18	142	6,358	41	577	15,288			
Douglas FPA	144	1,632	47,988	2	2	45	47	285	4,642			
Forest Grove	164	2,116	50,617	6	77	1,484	0	0	0			
North Cascade	136	2,490	54,447	8	358	5,288	2	16	16			
South Cascade	213	4,643	135,192	0	0	0	5	27	754			
Southwest	86	629	29,142	5	25	90	176	6,749	48,455			
Tillamook	51	602	17,474	22	43	8,998	0	0	0			
West Lane	182	2,315	52,905	3	22	412	12	45	1,093			
West Oregon	364	6,505	128,066	13	229	3,348	5	63	189			
Klamath NF										8	85	527
Mt Hood NF										43	1,006	6,334
Rogue/Siskiyou NF										152	3,862	49,314
Siuslaw NF										63	166	3,157
Umpqua NF										50	964	16,800
Willamette NF										78	1,856	35,652
Deschutes NF										226	7,705	44,505
Totals	1,928	29,232	814,161	96	1,064	34,150	288	7,762	70,437	620	15,644	156,289

Table 9B
Burn Data by Owner Type
2007
(Non-Restricted Area)

District/Forest	Private			State			Federal (Except USFS)			USFS		
	Units	Acres	Tons	Units	Acres	Tons	Units	Acres	Tons	Units	Acres	Tons
Central Oregon	50	1,797	12,051	15	472	11,449	43	10,841	64,544			
Klamath-Lake	95	16,415	41,211	1	66	3,329	21	6,219	41,085			
Northeast	109	16,199	47,336	0	0	0	6	1,789	13,802			
Walker Range	1	832	1,482	0	0	0	0	0	0			
Crater Lake NP							0	0	0			
Fremont NF										5	8,141	174,641
Malheur NF										124	10,502	111,710
Ochoco NF										0	0	0
Umatilla NF										39	3,395	56,207
Wallowa-Whitman NF										86	7,543	86,472
Winema NF										55	3,209	19,422
TOTALS	255	35,243	102,080	16	538	14,778	70	18,849	119,431	309	32,790	448,452

Figure 11

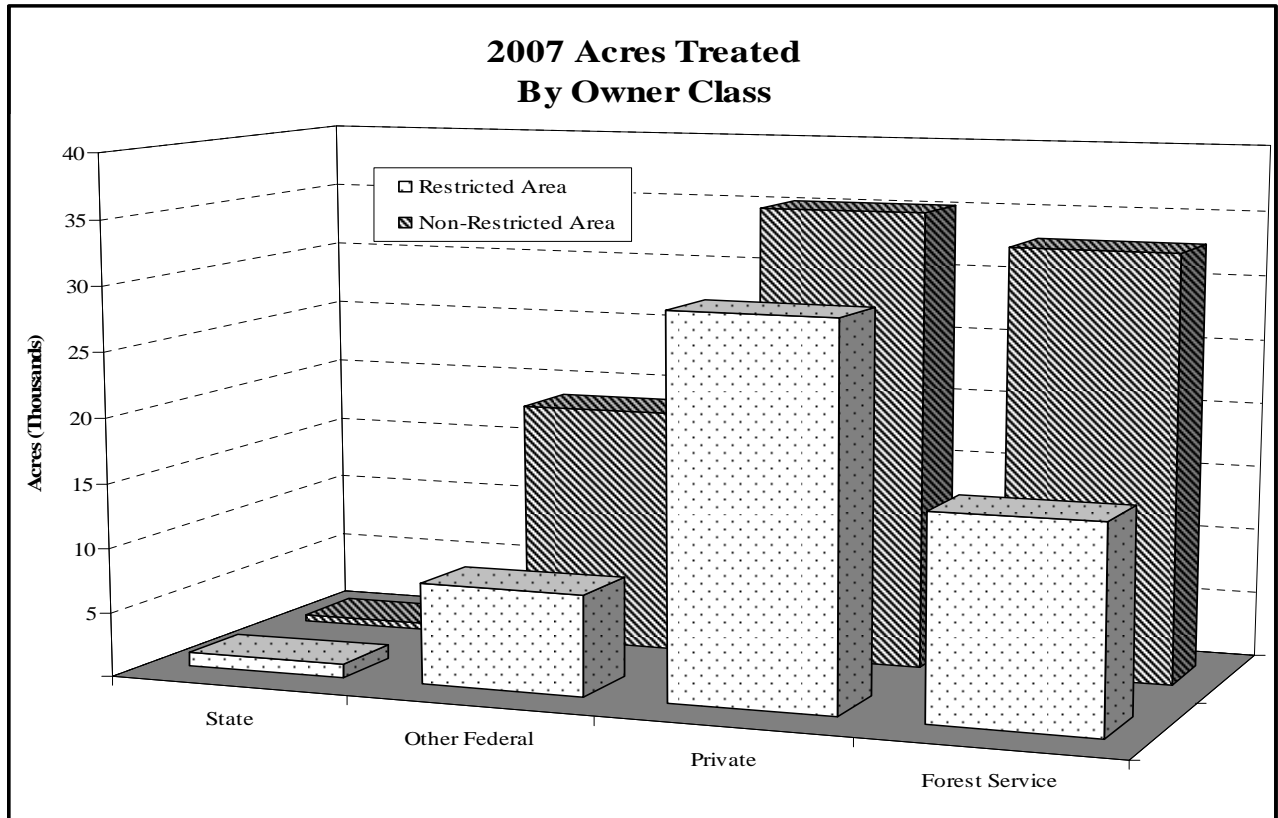


Figure 12A

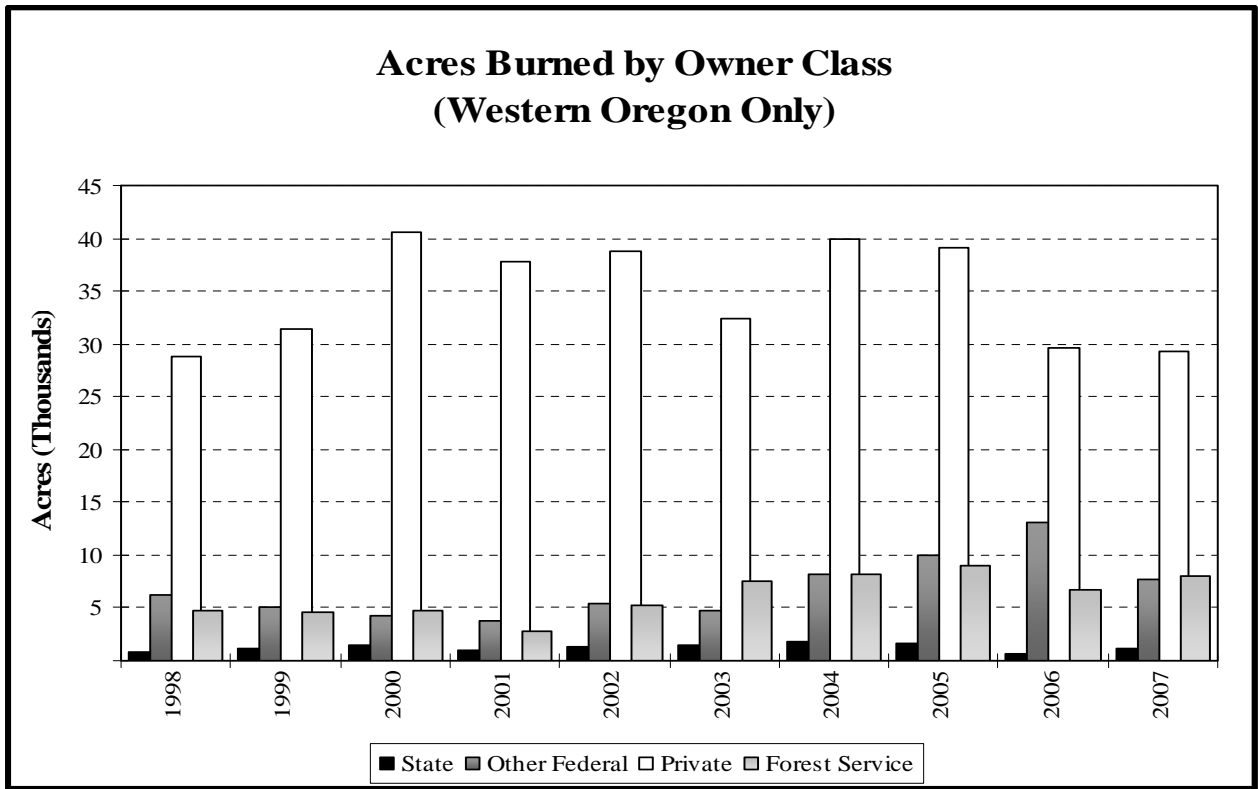


Figure 12B

