

# Oregon Smoke Management Annual Report

2011



*"STEWARDSHIP IN FORESTRY"*

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

**OREGON SMOKE MANAGEMENT**  
**ANNUAL REPORT**  
**2011**

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(Annual Report available online at <http://oregon.gov/ODF/FIRE/SMP/SMR2011.doc>)

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# OREGON DEPARTMENT OF FORESTRY

## SMOKE MANAGEMENT 2011 ANNUAL REPORT

### 2011 SUMMARY

- ***Acres burned*** – Statewide 161,154 acres were ignited. The 10 year average is 154,163 acres.
- ***Intrusions*** – There were six smoke intrusions into smoke sensitive receptor areas with no intrusions into the newly created SSRAs from the 2008 Plan revision. The 10 year average is also six intrusions.\*
- ***Smoke impacts*** – All but two intrusions lasted three hours or less. Two impacts were greater than 6 hours. There were two light intrusions, three moderate intrusions, and one heavy intrusion.
- ***Emissions*** -- Emissions were 12,474 tons of PM 2.5, which was below the average of the previous 11 year period. The 11 year average is 13,887 tons.

\* Number of smoke sensitive receptor areas increased from 11 to 23.

### 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. The last major revision to the plan was completed in 2007. The next review will occur in 2012.

The plan's overall purpose is to keep smoke from forestland prescribed burning from being carried to Smoke Sensitive Receptor Areas (SSRAs) and other areas sensitive to smoke, and to provide maximum opportunity for essential forestland burning while minimizing emissions. The plan is a framework through which emission reduction goals are achieved. The State Forester administers the plan, in cooperation with landowners, land management agencies and air quality agencies. The plan applies to all lands classified as forestland and all federally managed forestland, whether or not classified, within a forest protection district. In general all federal forestland and Class 1 forestland in western Oregon is regulated at a higher level but all forestland owners and managers must comply with aspects of the program.

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 Regulated 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 but only seven 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.

With the exception of one missing burn plan, 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 mostly close in tonnage calculation to what was reported.

**Meteorological Services:**

Oregon Department of Forestry meteorologists originate three daily smoke management forecasts and burning instructions for western Oregon, northeast Oregon, and south central Oregon. ODF meteorologists provided limited assistance to the Lakeview and Klamath Falls 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 throughout the year. In addition, ODF provides the Department of Agriculture field burning forecasts for the north Willamette Valley, Jefferson, and Union Counties during the summer field burning season (July 1- October 15).

Other forecast services included weather support for significant weather events (heavy rain, wind, etc.) and for weather events that may increase the chances for wildfire and its spread. In addition, the meteorologists provide daily quality control, data, and charts for the National Fire Danger Rating System.

**PROGRAM ACCOMPLISHMENT**  
**DATA**

The following tables and figures provide detailed information of the smoke management program. The data details accomplishments for 2011 and comparative information with previous years.



Figure 2A

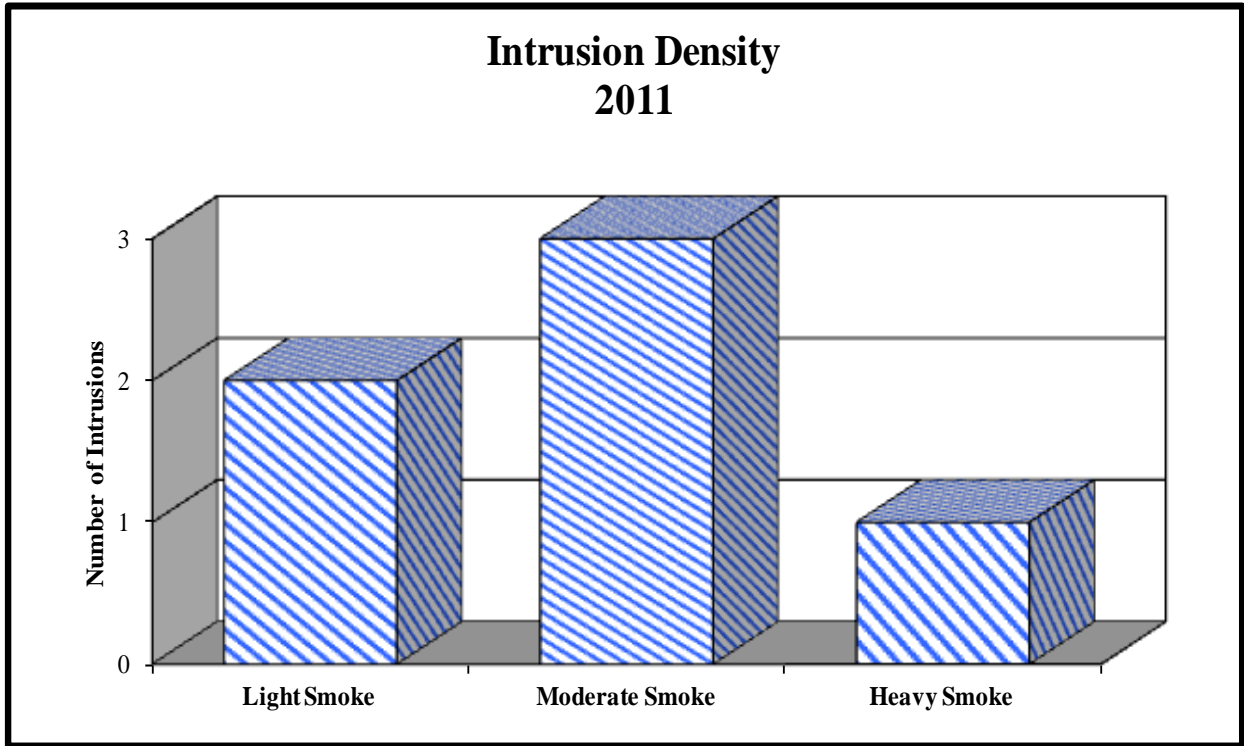
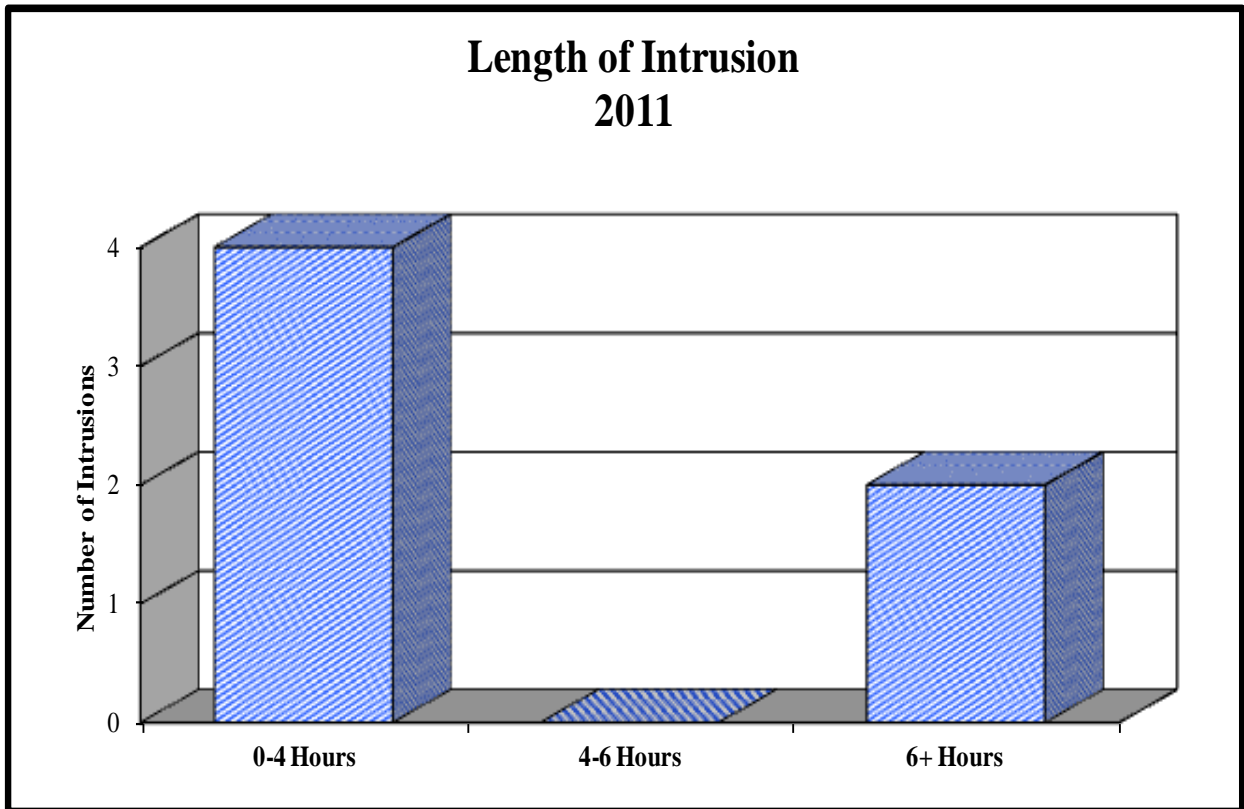


Figure 2B



\* Number of smoke sensitive receptor areas increased from 11 to 23 in 2008.

Figure 3A

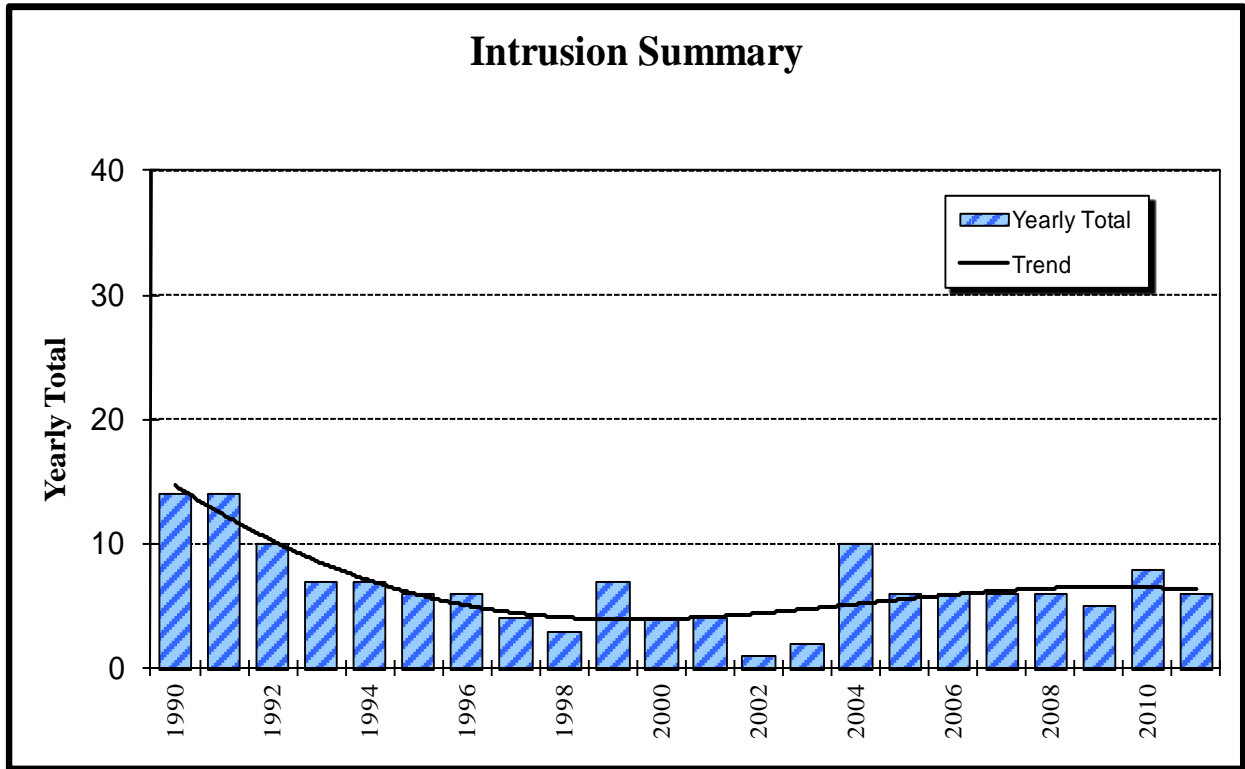
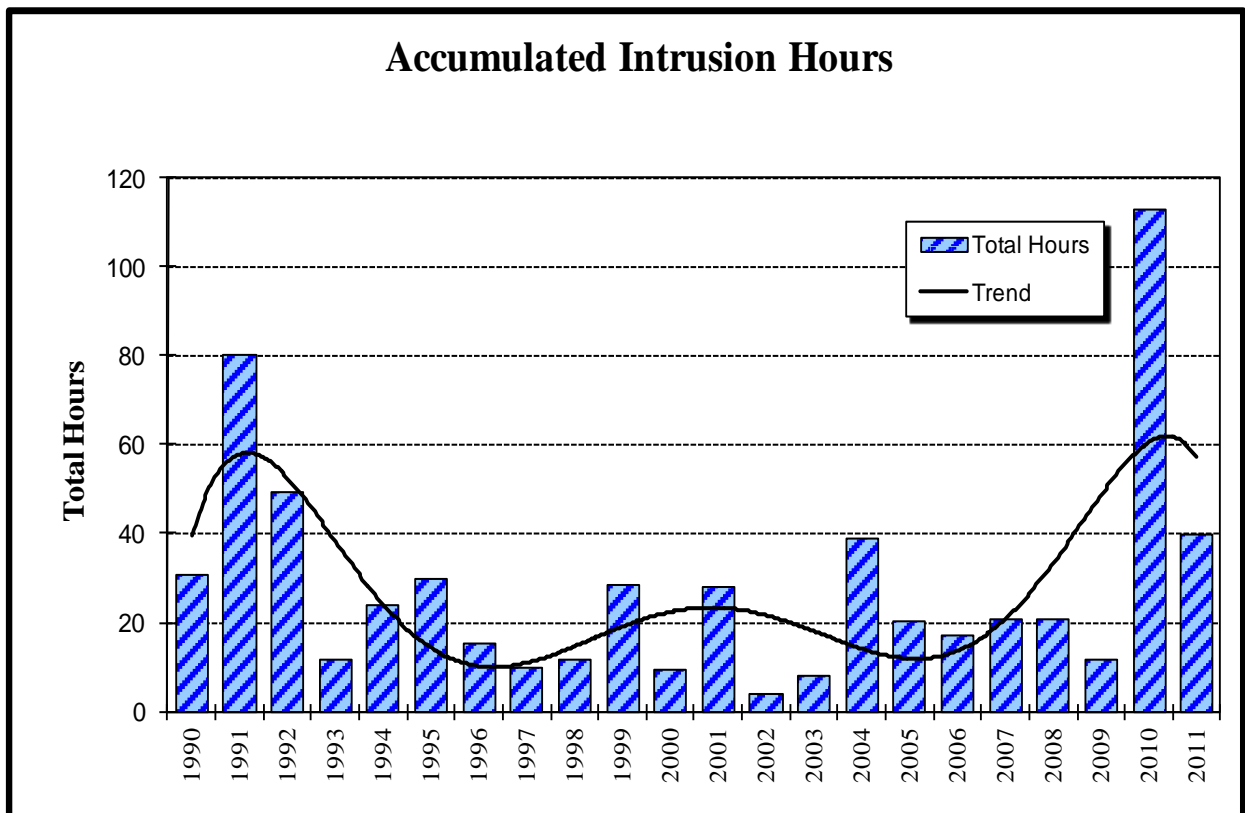


Figure 3B



\* Number of smoke sensitive receptor areas increased from 11 to 23 in 2008.



**TABLE 2  
SMOKE INTRUSION SUMMARY – 2011**

Date	District/ Forest	Primary Area Affected	Unit No.	Owner Class	Intensity	Length
Jan 24-25	CFPA	Roseburg	10-740-00380-03	Private	Moderate	16 hours
May 5	CFPA	Roseburg	09-740-60850-93	Private	Light	2 hours
Jun 9	CFPA	Roseburg	10-740-00045-03	Private	Light	2 hours
June 10	DFPA	Roseburg	09-730-70873-00	Private	Moderate	3 hours
June 22	Western Lane	Cottage Grove	09-781-50434-01	Private	Moderate	3 hours
Oct 18-19	Deschutes NF	Bend	10-406-01100-11 10-406-01100-12	USFS	Heavy	14 hours

Figure 4A

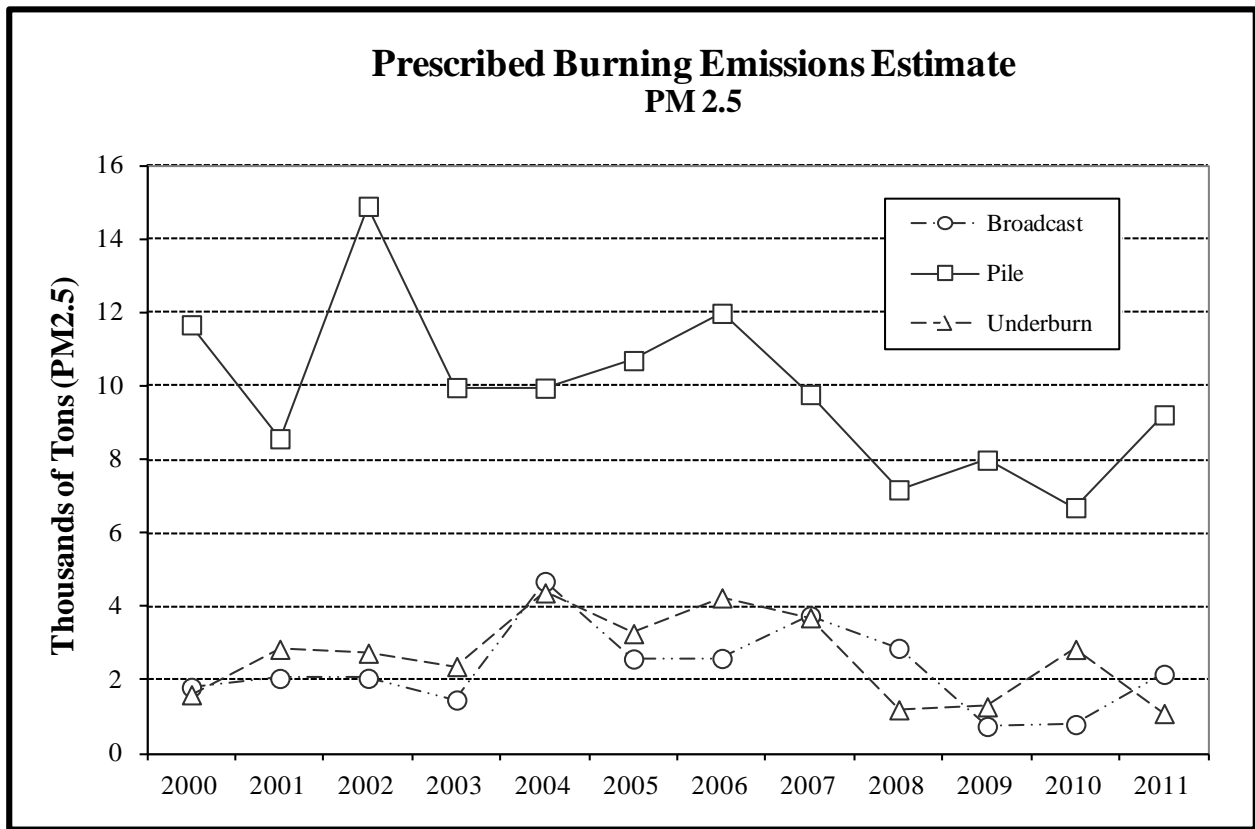


Figure 4B

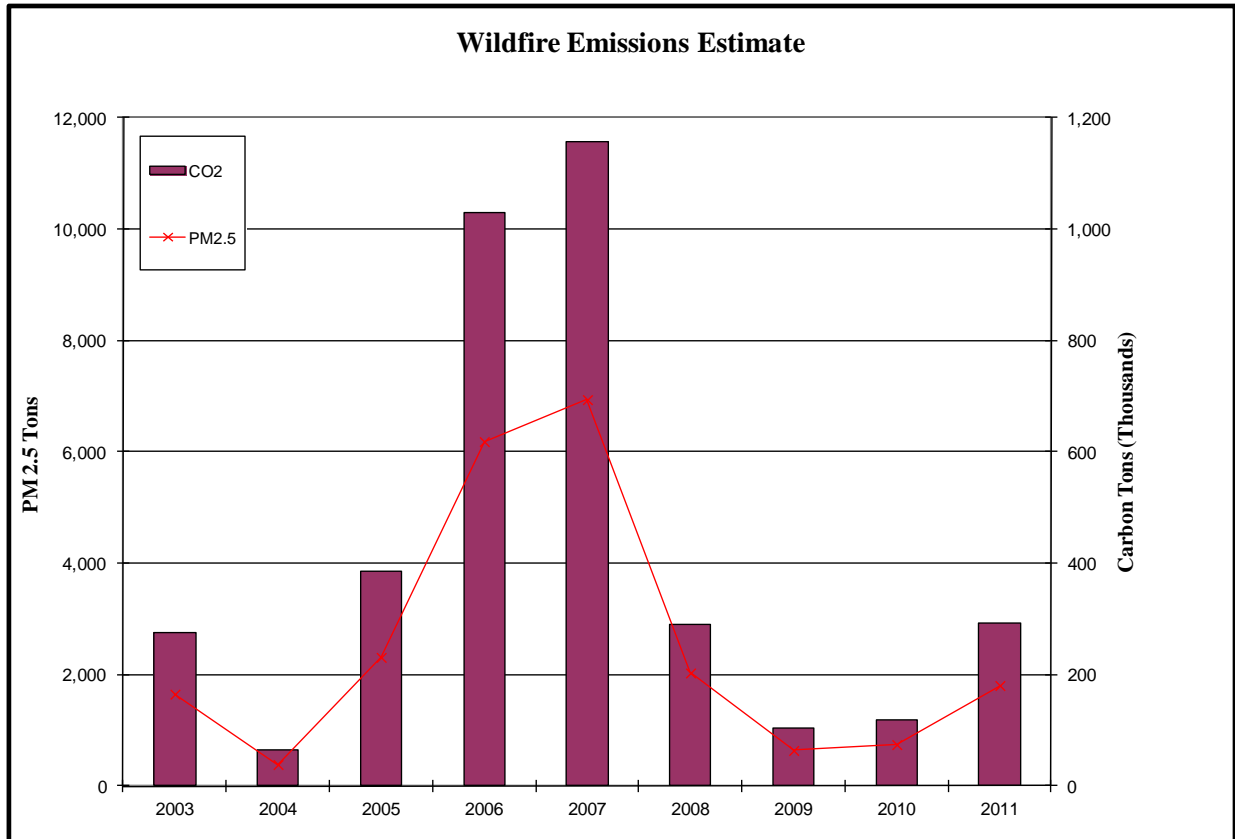
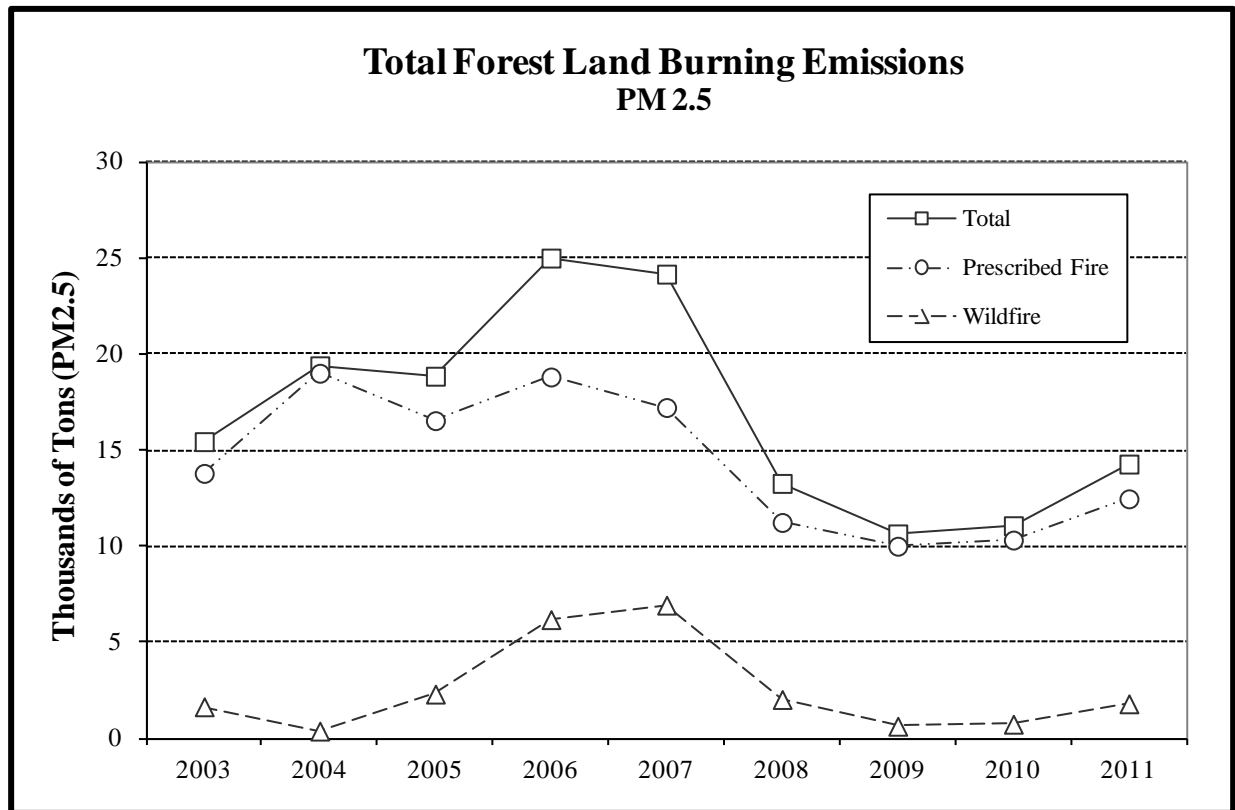


Figure 5



**Table 3A**

PM 2.5 Emissions (Tons) Broadcast											
	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Astoria	0	0	0	0	0	0	9	28	5	0	0
Central Oregon	0	508	235	2246	301	585	339	365	0	0	916
Clackamas-Marion	19	0	0	0	0	0	0	0	0	0	0
Coos FPA	764	583	369	1066	666	704	1092	879	398	340	773
Douglas FPA	140	88	58	131	96	50	22	13	65	21	27
Eastern Lane	3	0	0	0	0	0	0	0	0	0	0
Forest Grove	22	14	24	25	3	14	11	0	28	5	13
Klamath-Lake	502	0	102	0	1065	0	175	20	26	40	1
Linn	4	0	0	0	0	0	0	0	0	0	0
North Cascade		4	169	4	0	0	52	2	0	0	0
Northeast Oregon	0	11	51	0	0	0	62	18	29	204	68
South Cascade		22	0	26	0	460	0	0	11	0	1
South est Oregon	87	3	2	25	103	16	34	66	0	18	12
Tillamook	0	0	0	1	0	0	0	10	0	0	0
Walker Range	0	0	0	0	0	0	0	2	0	0	0
West Oregon	165	265	190	242	55	123	179	81	114	81	44
Western Lane	72	143	105	200	98	99	92	83	57	25	50
Columbia Gorge SA									1	0	0
Crater Lake NP	0	0	0	0	0	0	0	0	0	11	0
Deschutes NF	1	1	0	34	93	26	0	82	4	3	0
Fremont NF	54	11	0	0	0	290	1342	6	0	0	0
Klamath NF	0	0	0	0	0	0	0	0	0	0	0
Malheur NF	69	11	4	94	0	117	188	523	4	0	0
Mt. Hood NF	0	0	39	147	29	0	0	0	0	0	0
Ochoco NF	24	82	6	17	0	0	0	12	0	0	0
Rogue/Siskiyou NF	9	0	0	0	0	0	73	17	1	0	1
Siskiyou NF	0	0	0	138	9	28	0	0	0	0	0
Siuslaw NF	0	18	3	2	0	1	3	0	0	0	0
Umatilla NF	51	83	0	258	0	47	0	373	0	31	143
Umpqua NF	12	36	4	7	0	0	1	28	1	4	41
Wallow a-Whitman NF	43	165	11	15	52	0	27	243	0	9	68
Willamette NF	0	4	0	8	1	34	50	15	1	2	2
Winema NF	7	0	0	0	7	0	0	0	0	0	0
<b>Total</b>	<b>2048</b>	<b>2052</b>	<b>1372</b>	<b>4686</b>	<b>2578</b>	<b>2594</b>	<b>3751</b>	<b>2866</b>	<b>745</b>	<b>794</b>	<b>2160</b>

**Table 3B**

PM 2.5 Emissions (Tons) Pile											
	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Astoria	539	325	435	407	525	279	255	113	121	142	305
Central Oregon	312	522	164	303	216	120	175	25	121	128	151
Clackamas-Marion	446	0	0	0	0	0	0	0	0	0	0
Coos FPA	1152	1078	1290	1294	1338	1488	1786	1319	801	748	837
Douglas FPA	537	443	606	841	520	936	579	821	1173	720	533
Eastern Lane	528	0	0	0	0	0	0	0	0	0	0
Forest Grove	640	612	590	742	520	474	555	244	282	273	250
Klamath-Lake	34	542	1939	641	652	484	467	115	62	107	139
Linn	1169	0	0	0	0	0	0	0	0	0	0
North Cascade		233	67	497	248	408	439	262	144	164	213
Northeast Oregon	368	471	230	124	518	518	352	603	1075	288	1436
South Cascade		1847	1368	1647	2367	1533	1568	1011	896	994	1130
South est Oregon	268	399	480	683	812	1012	596	295	703	411	453
Tillamook	84	73	137	184	248	225	263	180	278	114	235
Walker Range	107	448	504	13	25	743	17	0	0	1	0
West Oregon	1053	1038	1106	1023	1160	1260	1203	814	788	873	918
Western Lane	625	316	513	412	499	559	469	319	159	195	149
Columbia Gorge SA								0	1	0	0
Crater Lake NP	0	0	0	0	0	0	0	0	0	0	0
Deschutes NF	106	92	42	71	39	1140	170	40	100	312	253
Fremont NF	0	1	0	6	8	0	2	4	1	7	8
Klamath NF	0	0	0	0	0	0	5	3	10	2	4
Malheur NF	24	189	43	174	63	268	273	394	203	127	722
Mt. Hood NF	3	210	1	22	27	15	37	23	6	33	51
Ochoco NF	7	10	3	0	0	0	0	0	0	0	1
Rogue/Siskiyou NF	2	150	123	194	141	100	362	376	527	599	601
Siskiyou NF	32	25	43	309	478	173	0	0	0	0	0
Siuslaw NF	0	3	2	1	4	9	22	21	36	29	34
Umatilla NF	10	50	4	16	2	0	8	26	0	26	18
Umpqua NF	93	19	8	56	39	46	44	17	81	153	46
Wallow a-Whitman NF	83	171	35	69	3	18	45	132	319	200	559
Willamette NF	26	61	63	60	144	96	59	20	20	38	72
Winema NF	323	145	165	156	99	76	22	0	82	12	101
<b>Total</b>	<b>8571</b>	<b>9470</b>	<b>9961</b>	<b>9945</b>	<b>10695</b>	<b>11980</b>	<b>9773</b>	<b>7177</b>	<b>7989</b>	<b>6696</b>	<b>9219</b>

Table 3C

PM 2.5 Emissions (Tons) Underburn											
	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Astoria	0	0	0	0	0	0	0	0	0	0	0
Central Oregon	30	36	0	0	8	148	243	0	6	277	0
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
Douglas FPA	0	1	0	0	0	0	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
Klamath-Lake	129	0	20	0	11	123	50	56	35	1	9
Linn	0	0	0	0	0	0	0	0	0	0	0
North Cascade		0	0	0	0	9	0	0	0	0	0
Northeast Oregon	0	0	0	0	35	11	66	18	7	0	0
South Cascade		0	0	0	0	0	0	0	0	0	0
Southw est Oregon	103	178	95	97	109	122	32	95	21	22	11
Tillamook	0	0	0	0	0	0	0	0	0	0	0
Walker Range	0	0	0	0	0	0	0	0	0	0	0
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
Columbia Gorge SA								0	0	0	0
Crater Lake NP	0	22	0	0	0	0	0	0	0	0	0
Deschutes NF	283	105	178	323	178	233	279	91	159	174	129
Fremont NF	501	586	483	1341	171	590	339	381	430	677	248
Klamath NF	0	0	0	0	0	0	0	0	0	0	0
Malheur NF	356	251	265	851	405	67	732	91	214	541	34
Mt. Hood NF	4	0	0	31	8	36	26	0	2	61	28
Ochoco NF	412	306	0	218	95	46	0	0	14	46	91
Rogue/Siskiyou NF	12	42	117	5	24	18	29	36	30	103	157
Siskiyou NF	8	62	6	20	1	2	0	0	0	0	0
Siuslaw NF	0	0	0	0	0	0	3	0	0	0	0
Umatilla NF	59	293	144	168	358	850	527	103	0	247	170
Umpqua NF	155	140	17	92	58	489	130	40	48	106	0
Wallow a-Whitman NF	561	557	901	1011	1391	996	795	186	207	320	83
Willamette NF	91	28	67	40	61	138	267	100	95	37	59
Winema NF	138	130	80	180	355	362	182	0	10	227	76
<b>Total</b>	<b>2842</b>	<b>2736</b>	<b>2373</b>	<b>4377</b>	<b>3268</b>	<b>4240</b>	<b>3700</b>	<b>1197</b>	<b>1278</b>	<b>2839</b>	<b>1095</b>

Figure 6

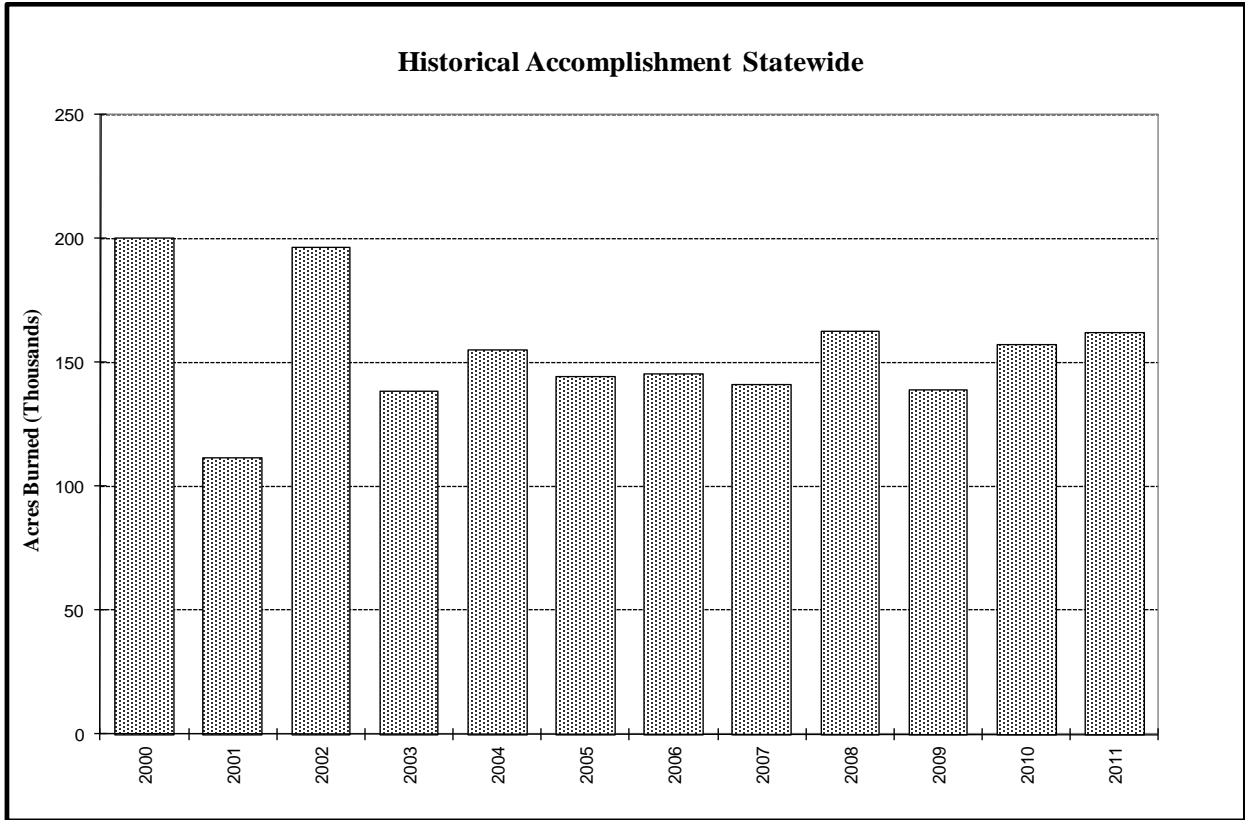


Figure 7

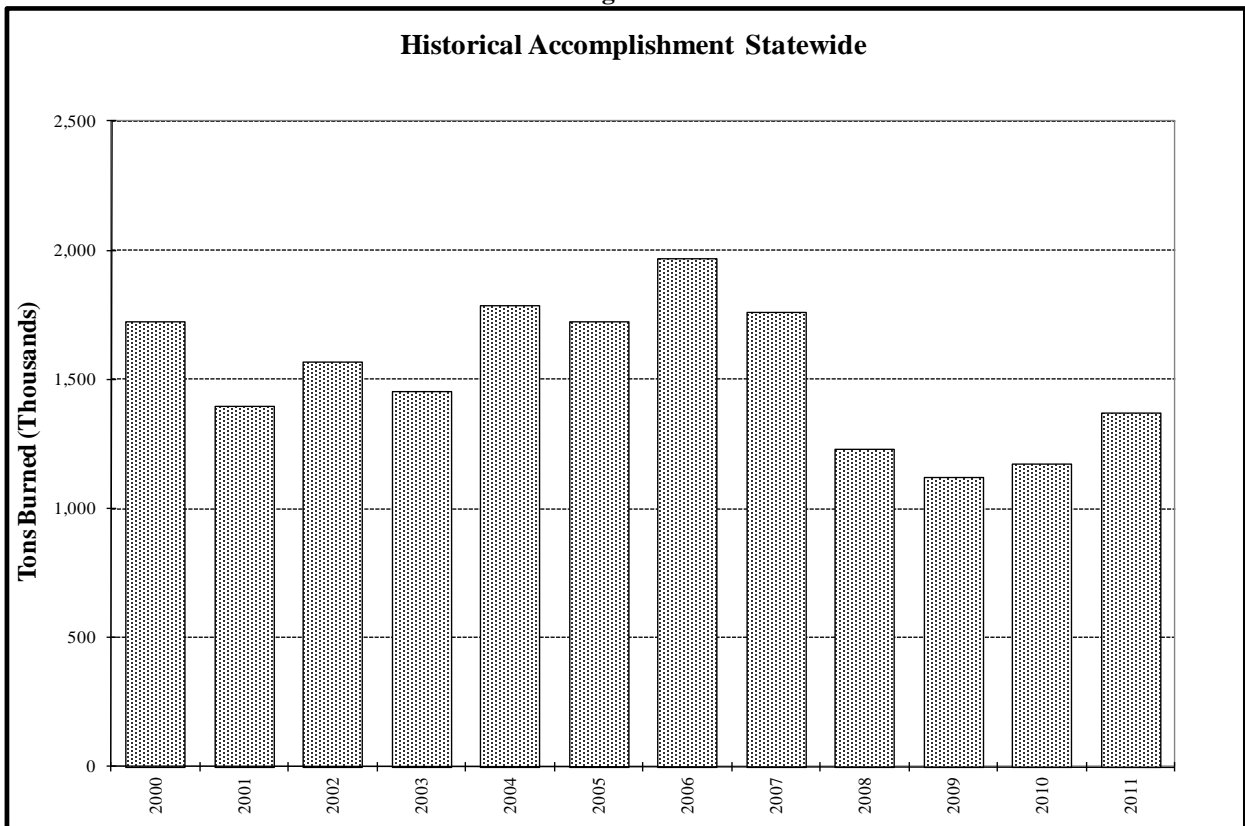


Figure 8

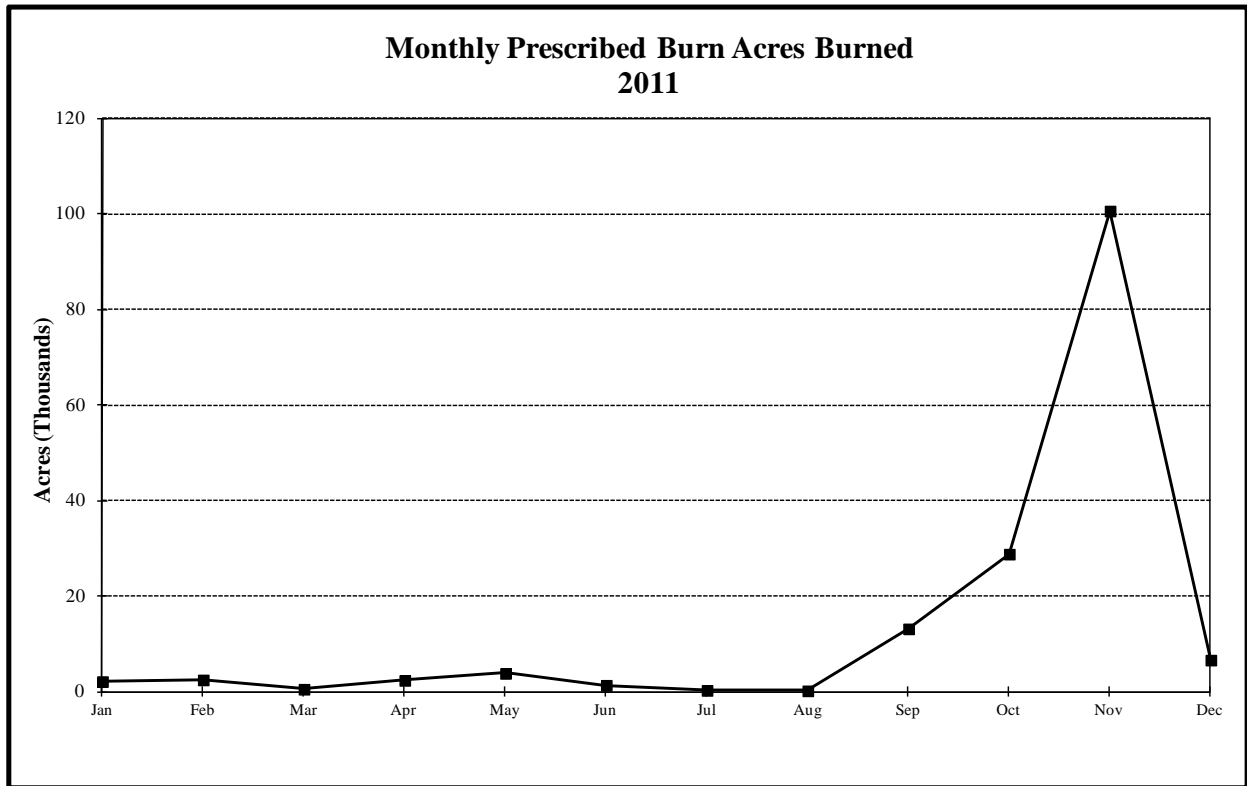
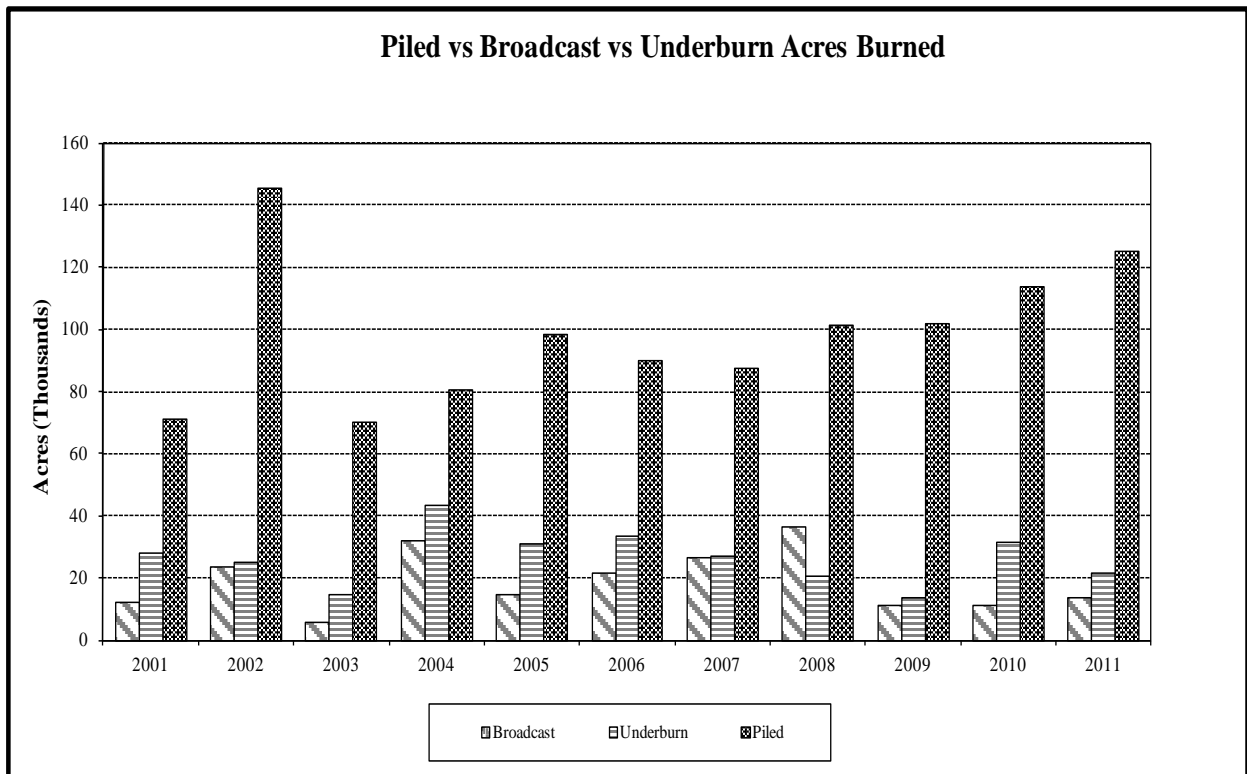


Figure 9



**Table 4**  
**BURN SUMMARY BY DISTRICT -- 2011**

<b>District/Forest</b>	<b>Units Burned</b>	<b>Acres Burned</b>	<b>Tons Burned</b>
Astoria	87	3,390	32,999
Central Oregon	66	14,645	132,541
Coos FPA	401	19,025	189,573
Douglas FPA	201	8,649	55,899
Forest Grove	115	3,664	24,495
Klamath-Lake	41	4,396	23,696
North Cascade	124	3,741	26,318
Northeast	130	16,399	175,218
South Cascade	213	8,374	100,262
Southwest	175	10,487	54,500
Tillamook	56	3,191	22,762
Walker Range	0	0	0
Western Lane	72	1,940	20,222
West Oregon	271	9,681	97,357
Crater Lake NP	0	0	0
Deschutes NF	148	11,079	41,322
Fremont NF	10	3,232	24,716
Klamath NF	4	66	462
Malheur NF	168	10,354	79,898
Mt Hood NF	37	1,235	7,697
Ochoco NF	8	1,466	9,536
Rogue River\Siskiyou NF	217	6,888	98,402
Siuslaw NF	38	2,736	3,916
Umatilla NF	54	3,745	33,754
Umpqua NF	42	867	10,122
Wallowa-Whitman NF	81	7,570	73,222
Willamette NF	65	2,279	12,319
Winema NF	56	3,055	18,905
<b>DISTRICT TOTAL</b>	<b>1,952</b>	<b>107,582</b>	<b>955,842</b>
<b>FOREST TOTAL</b>	<b>928</b>	<b>54,572</b>	<b>414,271</b>
<b>GRAND TOTAL</b>	<b>2,880</b>	<b>162,154</b>	<b>1,370,113</b>

**Table 5**  
**Tons Burned by Month by District**  
**2011**

<b>District</b>	<b>Jan</b>	<b>Feb</b>	<b>Mar</b>	<b>Apr</b>	<b>May</b>	<b>Jun</b>	<b>Jul</b>	<b>Aug</b>	<b>Sep</b>	<b>Oct</b>	<b>Nov</b>	<b>Dec</b>	<b>Total by District</b>
Astoria	438									9,890	21,174	1,497	32,999
Central Oregon	62	179	68	56	175	25		3,000	95,615	8,477	24,417	467	132,541
Coos	15,278	15,084		972	7,498	13,501	432			7,276	99,676	29,856	189,573
Douglas	280	1,308		170		546				1,335	49,142	3,118	55,899
Forest Grove	309			90	10				475	3,715	17,548	2,348	24,495
Klamath-Lake	840	1,029	670	4,740	5,646	15				2,792	7,759	205	23,696
North Cascade	221	320		138		390				8,968	15,399	882	26,318
Northeast	2,806				7,324	487				6,376	155,484	2,741	175,218
South Cascade						85			266	13,776	85,647	488	100,262
Southwest	724	3,067	195	77	344	200				3,099	45,210	1,584	54,500
Tillamook	330						250			13,618	7,764	800	22,762
Walker Range													0
Western Lane		741		1,363		689				3,794	13,260	375	20,222
West Oregon		273				675	50			18,216	75,487	2,656	97,357
Crater Lake NP													0
Deschutes NF	170	220		475	2,364	780				14,036	17,986	5,291	41,322
Fremont NF					6,500		105			17,205	906		24,716
Klamath NF										462			462
Malheur NF		180			8	20	48			8,299	65,340	6,003	79,898
Mt Hood NF						3,024				1,192	3,437	44	7,697
Ochoco NF			100	100					1,192	8,144			9,536
Rogue/Siskiyou NF	1,177	4,868	4,423	25,412	4,849				8,086	9,481	34,886	5,220	98,402
Siuslaw NF	80								50	3,786			3,916
Umatilla NF	370						84		22,250	9,946	1,104		33,754
Umpqua NF						1,330		201	1,725	1,707	4,882	277	10,122
Wallow-Whitman NF				410	3,849					20,058	48,905		73,222
Willamette NF		6	12			3,715	386	1,566	70	2,954	3,604	6	12,319
Winema NF					1,200					5,968	11,737		18,905
<b>District Total</b>	<b>21,288</b>	<b>22,001</b>	<b>933</b>	<b>7,606</b>	<b>20,997</b>	<b>16,613</b>	<b>732</b>	<b>3,000</b>	<b>96,356</b>	<b>101,332</b>	<b>617,967</b>	<b>47,017</b>	<b>955,842</b>
<b>Forest Total</b>	<b>1,797</b>	<b>5,274</b>	<b>4,535</b>	<b>26,397</b>	<b>18,770</b>	<b>8,869</b>	<b>623</b>	<b>1,767</b>	<b>33,373</b>	<b>103,238</b>	<b>192,787</b>	<b>16,841</b>	<b>414,271</b>
<b>Grand Total</b>	<b>23,085</b>	<b>27,275</b>	<b>5,468</b>	<b>34,003</b>	<b>39,767</b>	<b>25,482</b>	<b>1355</b>	<b>4,767</b>	<b>129,729</b>	<b>204,570</b>	<b>810,754</b>	<b>63,858</b>	<b>1,370,113</b>



**Table 6  
Acres Burned by Month by District  
2011**

District	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total by District
Astoria	107									1,116	1,994	173	3,390
Central Oregon	55	64	27	40	30	5		100	9,815	1,616	2,776	117	14,645
Coos	506	779		42	352	602	144			447	13,787	2,366	19,025
Douglas	22	115		3		39				84	8,007	379	8,649
Forest Grove	42			35	4				25	357	2,980	221	3,664
Klamath-Lake	108	139	147	1,005	696	1				779	1,436	85	4,396
North Cascade	7	82		5		30				1,114	2,468	35	3,741
Northeast	561				308	34				465	14,689	342	16,399
South Cascade						3			133	885	7,318	35	8,374
Southwest	98	538	31	20	98	25				567	8,827	283	10,487
Tillamook	62						55			1,460	1,480	134	3,191
Walker Range													0
Western Lane		57		104		53				421	1,286	19	1,940
West Oregon		18				25	23			2,445	7,018	152	9,681
Crater Lake NP													0
Deschutes NF	85	80		74	593	163				4,374	4,747	963	11,079
Fremont					650		15			1,737	830		3,232
Klamath NF										66			66
Malheur NF		60			2	4	13			891	8,846	538	10,354
Mt Hood NF						112				387	692	44	1,235
Ochoco NF			50	50					174	1,192			1,466
Rogue/Siskiyou NF	238	524	257	873	340				603	699	2,661	693	6,888
Siuslaw NF	25								24	2,687			2,736
Umatilla NF	201						4		2,116	1,055	369		3,745
Umpqua NF						35		48	221	58	478	27	867
Wallowa-Whitman NF				110	547					2,174	4,739		7,570
Willamette NF		1	2			211	12	27	28	827	1,170	1	2,279
Winema NF					200					878	1,977		3,055
<b>District Total</b>	<b>1,568</b>	<b>1,792</b>	<b>205</b>	<b>1,254</b>	<b>1,488</b>	<b>817</b>	<b>222</b>	<b>100</b>	<b>9,973</b>	<b>11,756</b>	<b>74,066</b>	<b>4,341</b>	<b>107,582</b>
<b>Forest Total</b>	<b>549</b>	<b>665</b>	<b>309</b>	<b>1,107</b>	<b>2,332</b>	<b>525</b>	<b>44</b>	<b>75</b>	<b>3,166</b>	<b>17,025</b>	<b>26,509</b>	<b>2,266</b>	<b>54,572</b>
<b>Grand Total</b>	<b>2,117</b>	<b>2,457</b>	<b>514</b>	<b>2,361</b>	<b>3,820</b>	<b>1,342</b>	<b>266</b>	<b>175</b>	<b>13,139</b>	<b>28,781</b>	<b>100,575</b>	<b>6,607</b>	<b>162,154</b>

**Table 7  
Burn Data by Owner Type  
2011**

	Private			State			Federal (Except USFS)			USFS		
District/Forest	Units	Acres	Tons	Units	Acres	Tons	Units	Acres	Tons	Units	Acres	Tons
Astoria	60	2,339	28,656	27	1,051	4,343	0	0	0			
Central Oregon	37	3,210	100,970	8	215	879	21	11,220	30,692			
Coos FPA	319	15,969	173,348	12	409	4,771	70	2,647	11,454			
Douglas FPA	176	8,385	53,377	4	162	1,615	21	102	907			
Forest Grove	105	2,925	21,634	10	739	2,861	0	0	0			
Klamath-Lake	21	699	1,870	0	0	0	20	3,653	21,826			
North Cascade	113	3,416	23,652	6	117	1,811	5	208	855			
Northeast	117	14,535	158,731	2	1,413	8,550	11	451	7,937			
South Cascade	194	5,957	96,531	0	0	0	19	2,417	3,731			
Southwest	84	6,515	30,835	6	277	981	85	3,695	22,684			
Tillamook	50	2,787	20,984	4	379	1,740	2	25	38			
Walker Range	0	0	0	0	0	0	0	0	0			
West Lane	68	1,810	19,570	4	130	652	0	0	0			
West Oregon	254	8,699	93,737	8	239	2,190	9	743	1,430			
Crater Lake NP	0	0	0	0	0	0	0	0	0			
Deschutes NF										148	11,079	41,322
Fremont NF										10	3,232	24,716
Klamath NF										4	66	462
Malheur NF										168	10,354	79,898
Mt Hood NF										37	1,235	7,697
Ochoco NF										8	1,466	9,536
Rogue/Siskiyou NF										217	6,888	98,402
Siuslaw NF										38	2,736	3,916
Umatilla NF										54	3,745	33,754
Umpqua NF										42	867	10,122
Wallowa-Whitman NF										81	7,570	73,222
Willamette NF										65	2,279	12,319
Winema NF										56	3,055	18,905
<b>Totals</b>	<b>1,598</b>	<b>77,246</b>	<b>823,895</b>	<b>91</b>	<b>5,131</b>	<b>30,393</b>	<b>263</b>	<b>25,161</b>	<b>101,554</b>	<b>928</b>	<b>54,572</b>	<b>414,271</b>