

Spring 2025 Burning Overview

June 26, 2025





Spring 2025 Burning Overview

Spring-Burning Comparison				
Jan – Jun	Total Tons Burned	Acres Burned	Units Burned	Ignitions
2019*	168,377	26,207	187	628
2020	77,029	15,275	143	425
2021	172,683	31,700	236	583
2022	61,648	11,227	90	321
2023	106,904	18,021	231	581
2024	194,071	27,460	227	608
2025	145,627	24,918	173	501
7-Year Avg	132,334	22,115	184	521

Based on Smoke Data System database

* Rule change 3-1-19



Spring 2025 Burning Overview

Annual-Burning Comparison				
Jan – Dec	Total Tons Burned	Acres Burned	Units Burned	Ignitions
2022	902,275	125,784	1,400	2,919
2023	1,079,329	155,972	1,594	3,538
2024	1,033,277	147,407	1,376	3,218
2025 (so far)	145,627	24,918	173	501
3-Year Avg	1,004,960	143,054	1,457	3,225

Based on Smoke Data System database

≈ 7 times more tonnage is burned in the fall vs the spring!

Spring 2025 Burning Overview



1 “Smoke Intrusion (Bend)”

Caused by 1 Burn (West Bend Project)

23 “Smoke Incidents”

Caused by 19 Different Burns

Additional investigations without “Smoke Incidents”

Thresholds for Smoke Intrusions (SSRAs) & Smoke Incidents

1-hr PM_{2.5}*

70 µg/m³

24-hr PM_{2.5}

26 µg/m³

24-hr NAAQS Exceedance

35 µg/m³

(*SSRAs may obtain 1-hr exemption)



Spring 2025 Burning Overview

1 “Smoke Intrusion (Bend)”

Caused by 1 Burn (West Bend Project)

Date(s)	SSRA	Hrs	1-hr Peak PM 2.5 (µg/m3)	24-hr PM 2.5 (µg/m3)	Owner
6/3	Bend	24*	229.7	28.1	USFS
(ending 0400 PST) (*24-hr intrusion)					

Thresholds for Smoke Intrusions (SSRAs) & Smoke Incidents

1-hr PM2.5*

70 µg/m3

24-hr PM2.5

26 µg/m3

24-hr NAAQS Exceedance

35 µg/m3

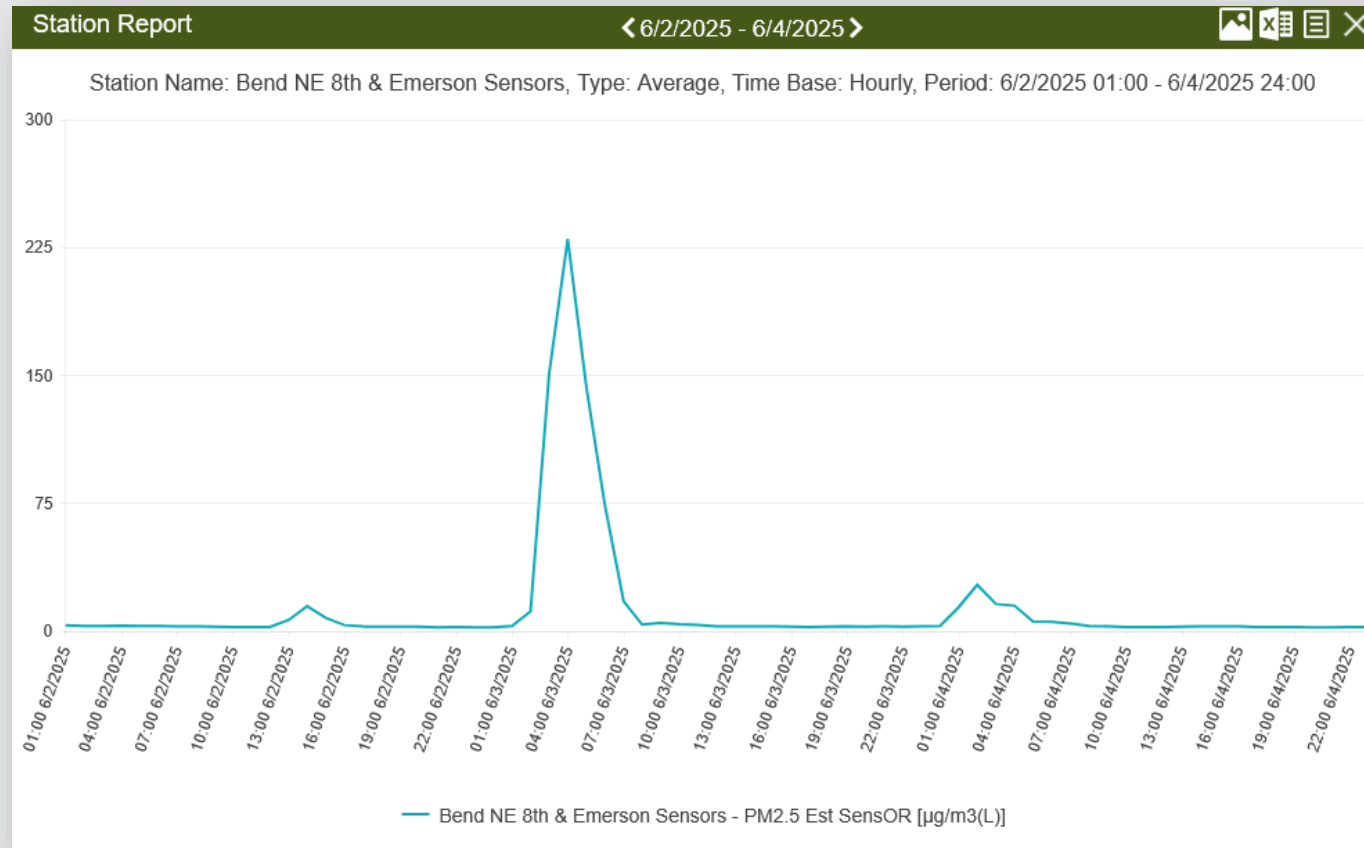
(*SSRAs may obtain 1-hr exemption)

Spring 2025 Burning Overview



1 “Smoke Intrusion (Bend)”

Caused by 1 Burn (West Bend Project)



Spring 2025 Burning Overview



23 “Smoke Incidents”

Caused by 19 Different Burns

Any smoke from prescribed burning
entering an SSRA is at least a “Smoke Incident”

Thresholds for Smoke Intrusions (SSRAs) & Smoke Incidents

1-hr PM_{2.5}*

70 µg/m³

24-hr PM_{2.5}

26 µg/m³

24-hr NAAQS Exceedance

35 µg/m³

(*SSRAs may obtain 1-hr exemption)

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23 “Smoke Incidents”

Caused by 19 Different Burns

Non SSRAs must meet or exceed the
“Smoke Intrusion” threshold for SSRAs
to have a **“Smoke Incident.”**

Thresholds for Smoke Intrusions (SSRAs) & Smoke Incidents

1-hr PM_{2.5}*

70 µg/m³

24-hr PM_{2.5}

26 µg/m³

24-hr NAAQS Exceedance

35 µg/m³

(*SSRAs may obtain 1-hr exemption)



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23 “Smoke Incidents”

Caused by 19 Different Burns

#	Date(s)	Time begin PST (24 hr)	Duration (hrs)	Peak PM _{2.5} (µg/m ³)	Area Affected	Responsible Agency	Burn size (tons); Location (TRS)
1	4-18	0000	9	21.5	La Grande	USFS	4-16: 1673 tons (239 acres at 7 tons per acre) understory burning; 3S 36E S7 (3600' elevation); Ignition 1230 - 1530 PDT 4-17: 960 tons (160 acres at 6 tons per acre) understory burning; 3S 36E S8 (3600' elevation); Ignition 1142 - 1515 PDT; Overnight smoldering
2a	4-21	2200	5	124.6	Chiloquin	USFS	1650 tons (275 acres) understory burning; 35S 7E S13&24 (5000' elevation); Ignition 1100 - 1545 PDT; Overnight smoldering
2b	4-22	0700	3	27.4	Klamath Falls	USFS	Same burn as above
3	4-21 4-22 4-23	1800 0400 0300	1 4 5	23.3 53.1 13.4	Baker City	USFS	1870 tons (187 acres) understory burning; 10S 38E S26 (1245' elevation); Ignition 1100 - 1601 PDT; Overnight smoldering



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23 “Smoke Incidents”

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#	Date(s)	Time begin PST (24 hr)	Duration (hrs)	Peak PM _{2.5} (µg/m ³)	Area Affected	Responsible Agency	Burn size (tons); Location (TRS)
4	4-24	0200	4	16.3	Baker City	USFS	1288 tons (161 acres) understory burning; 10S 36E S13 (4400' elevation); Ignition 1100 - 1500 PDT 750 tons (150 acres) understory burning; 10S 36E S13 (5000' elevation); Ignition 1100 - 1530 PDT; Overnight smoldering
5	4-24	0700	1	87.4	Sunriver	USFS	1300 tons (173 acres) understory burning; 21S 11E S23 (4700' elevation); Ignition 1030 -1430 PDT; Overnight smoldering
6	4-25	1800	13	20.7	Enterprise	USFS	484 tons (121 acres) understory burning; 2N 44E S29 (4500' elevation); Ignition 1200 - 1600 PDT; Overnight smoldering



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#	Date(s)	Time begin PST (24 hr)	Duration (hrs)	Peak PM _{2.5} (µg/m ³)	Area Affected	Responsible Agency	Burn size (tons); Location (TRS)
7	4-25 4-26	2000 2000	7 12	24.0 29.2	Bend	USFS	1413 tons (471 acres) underburn; 18S 11E S18 (4400-4600' elevation); Ignition 1000 - 1400 PDT; Overnight smoldering
8	5-1	2300	12	43.5	Baker City	USFS	1000 tons (200 acres) understory burning; 10S 38E S25 (4000' elevation); Ignition 1048 - 1520 PDT; Overnight smoldering
9	5-1	2200	9	26.9	Enterprise	USFS	2000 tons (500 acres) understory burning; 3N 45E S18 (4700' elevation); Ignition 1230 - 1825 PDT; Overnight smoldering

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23 “Smoke Incidents”

Caused by 19 Different Burns

#	Date(s)	Time begin PST (24 hr)	Duration (hrs)	Peak PM _{2.5} (µg/m ³)	Area Affected	Responsible Agency	Burn size (tons); Location (TRS)
10	5-6	2000	13	203.5* (1-hr exempt)	Bend (NE 8th & Emerson) Other areas of Bend had smaller impacts	USFS	333 tons (111 acres) understory burning; 18S 11E S32 (4200' elevation); Ignition 1025 - 1440 PDT; Overnight smoldering
11a	5-9	0100	1	95.4	Chiloquin	USFS	512 tons (128 acres) understory burning; 34S 8E S31 (5200' elevation); Ignition 1100 - 1720 PDT; Overnight smoldering
11b	5-9	0400	7	20.3	Klamath Falls	USFS	Same burn as above



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23 “Smoke Incidents”

Caused by 19 Different Burns

#	Date(s)	Time begin PST (24 hr)	Duration (hrs)	Peak PM _{2.5} (µg/m ³)	Area Affected	Responsible Agency	Burn size (tons); Location (TRS)
12	5-9	0100	10	32.1	Bend (NE 8th & Emerson) Other areas of Bend had smaller impacts	USFS	1250 tons (250 acres) understory burning; 21S 11E S26 (4800' elevation); Ignition 1020 - 1600 PDT; Ovenight smoldering
13	5-10	0200	7	61.1	Bend (Ponderosa Elementary) Other areas of Bend had smaller impacts	USFS	580 ton (145 acres) understory burning; 21S 11E S26 (4800' elevation); Ignition 1111 -1621 PDT; Overnight smoldering
14	5-8 & 5-9	1900 0400	3 2	19.7 7.6	Ashland (Fire Department)	USFS	200 tons (23 acres) understory burning; 39S 1E S17 (3000' elevation); Ignition 1000 - 1400 PDT; Initial & smoldering impacts



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23 “Smoke Incidents”

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#	Date(s)	Time begin PST (24 hr)	Duration (hrs)	Peak PM _{2.5} (µg/m ³)	Area Affected	Responsible Agency	Burn size (tons); Location (TRS)
15	5-9 & 5-10	1500 0400	6 4	36.1 13.9	Ashland (Fire Department)	USFS	320 tons (40 acres) understory burning; 39S 1E S17 (3000' elevation); Ignition 1000 - 1530 PDT; Initial & smoldering impacts
16	5-23	0600	2	43.7	Bend (Pump Station) Other areas of Bend had smaller impacts	USFS	708 tons (236 acres) understory burning; 21S 11E S20&29 (4300' elevation); Ignition 1100 - 1507; Overnight smoldering
17	5-22	1100	5	13.7	Grants Pass	BLM	348 tons (58 acres) understory burning; 35S 7W S1 (1600' elevation); Ignition 900 - 1500 PDT; Initial smoke



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23 “Smoke Incidents”

Caused by 19 Different Burns

#	Date(s)	Time begin PST (24 hr)	Duration (hrs)	Peak PM _{2.5} (µg/m ³)	Area Affected	Responsible Agency	Burn size (tons); Location (TRS)
18	6-2	1200	4	20.6	Bend (Pump Station) Other areas of Bend had smaller impacts	USFS	632 tons (158 acres) understory burning; 14S 9E S24 (3300' elevation); Ignition 1000 - 1300 PDT; Initial smoke

Burn #18 - near Sisters

Caused “Smoke Incident” in Bend



Spring 2025 Burning Overview

Burn #19 - West Bend Project burn on 6-2-25

Caused "Smoke Incidents" in Redmond and Bend (in addition to "Smoke Intrusion" in Bend on 6-3)

#	Date(s)	Time begin PST (24 hr)	Duration (hrs)	Peak PM _{2.5} (µg/m ³)	Area Affected	Responsible Agency	Burn size (tons); Location (TRS)
19	6-3 6-4	0400 0300	4 4	27.7 8.4	Redmond	USFS	565 tons (113 acres) understory "West Bend" burning; 18S 11E S27 (4000' elevation); Ignition 1000 - 1412; Overnight smoldering
19b	6-4 6-5	0000 0100	7 6	26.9 14.1	Bend (NE 8th & Emerson) Other areas of Bend had smaller impacts	USFS	Same burn as above
19c	6-5	2300	10	9.1	Bend (Pump Station) Other areas of Bend had smaller impacts	USFS	Same burn as above



Spring 2025 Burning Overview

Smoke Incident Notes

- 20 of the 23 were in SSRAs (often the result of overnight smoldering)
- Burning would have resulted in 20 “Smoke Intrusions” before the 2019 rule change
- All 3 West Bend Burns (4/24; 5/6; 6/2) caused “Smoke Incidents” in SSRAs

Smoke Intrusion (1) Notes

- 24-hr intrusion in Bend on 6/3
- Caused by smoldering from West Bend Project Burn on 6/2
 - Impacts to the public were minimized!
- Coordinated effort between multiple agencies and the public
 - Optimal weather pattern utilized for smoke dispersion
 - Short “ignition window” and “active burn mop-up”
 - Community Response Plan developed/utilized



Spring 2025 Burning Overview

Smoke Management Program's Dual Mandate

- Maximize prescribed burning opportunities
- Minimize smoke emissions and smoke impacts to the public

Moving Forward Proactively

- Focus less on what has happened (i.e., reporting on smoke)
- Focus more on Community Response Programs (i.e., preparing for smoke)
- Your Feedback is Welcome!

