

Table 2. Number of USG or worse days from Wildfire Smoke Impacts

	Bend					Klamath Falls					Medford					Portland				
	USG	Unhealthy	Very Unhealthy	Sum	% Data Completeness	USG	Unhealthy	Very Unhealthy	Sum	% Data Completeness	USG	Unhealthy	Very Unhealthy	Hazardous	Sum	% Data Completeness	USG	Unhealthy	Sum	% Data Completeness
1985	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	93%	-	-	-	98%
1986	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	99%	-	-	-	50%
1987	-	-	-	-	-	-	-	-	-	-	3	8	7	1	19	99%	-	-	-	100%
1988	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	99%	-	-	-	95%
1989	-	-	-	-	-	-	-	-	-	93%	-	-	-	-	-	100%	-	-	-	98%
1990	-	2	-	2	95%	-	-	-	-	100%	-	-	-	-	-	97%	-	-	-	98%
1991	-	-	-	-	98%	-	-	-	-	-	-	-	-	-	-	97%	-	-	-	100%
1992	-	-	-	-	100%	-	-	-	-	-	1	-	-	-	1	100%	-	-	-	99%
1993	-	-	-	-	90%	-	-	-	-	-	-	-	-	-	-	97%	-	-	-	97%
1994	-	-	-	-	97%	-	-	-	-	-	-	-	-	-	-	97%	-	-	-	100%
1995	-	-	-	-	98%	-	-	-	-	-	-	-	-	-	-	97%	-	-	-	97%
1996	-	1	-	1	84%	-	-	-	-	-	-	-	-	-	-	89%	-	-	-	60%
1997	-	-	-	-	97%	-	-	-	-	-	-	-	-	-	-	93%	-	-	-	70%
1998	-	-	-	-	100%	-	-	-	-	-	-	-	-	-	-	97%	-	-	-	98%
1999	-	-	-	-	97%	-	-	-	-	80%	-	-	-	-	-	88%	-	-	-	100%
2000	-	-	-	-	100%	-	-	-	-	100%	-	-	-	-	-	100%	-	-	-	98%
2001	-	-	-	-	100%	-	-	-	-	100%	-	-	-	-	-	100%	-	-	-	100%
2002	-	-	-	-	94%	9	13	2	24	100%	8	4	-	-	12	100%	-	-	-	100%
2003	-	-	-	-	100%	-	-	-	-	100%	1	-	-	-	-	100%	-	-	-	100%
2004	-	-	-	-	100%	-	-	-	-	100%	-	-	-	-	-	98%	-	-	-	100%
2005	-	-	-	-	100%	-	-	-	-	100%	-	-	-	-	-	100%	-	-	-	97%
2006	-	-	-	-	98%	-	-	-	-	98%	-	-	-	-	-	100%	-	-	-	98%
2007	-	-	-	-	100%	-	-	-	-	99%	-	-	-	-	-	100%	-	-	-	99%
2008	-	-	-	-	100%	1	-	-	1	100%	7	-	-	-	7	100%	-	-	-	98%
2009	1	-	-	1	91%	1	2	-	3	98%	1	1	-	-	2	96%	-	-	-	100%
2010	-	-	-	-	99%	-	-	-	-	97%	-	-	-	-	-	100%	-	-	-	100%
2011	-	-	-	-	99%	-	-	-	-	100%	-	-	-	-	-	98%	-	-	-	100%
2012	2	2	-	4	99%	1	3	-	4	100%	-	-	-	-	-	100%	-	-	-	100%
2013	-	-	-	-	100%	1	4	-	5	98%	1	4	2	-	7	98%	-	-	-	99%
2014	1	-	-	1	100%	1	-	-	1	100%	-	-	-	-	-	100%	-	-	-	100%
2015	1	1	-	2	100%	7	2	-	9	100%	6	7	-	-	13	100%	2	2	-	100%
2016	-	-	-	-	99%	-	-	-	-	100%	-	-	-	-	-	100%	-	-	-	100%
2017	4	8	3	15	94%	7	8	1	16	100%	6	9	4	1	20	100%	4	2	6	98%
2018	4	4	-	8	100%	10	25	3	38	99%	8	22	3	-	33	100%	5	1	6	100%

- a. *Errata: Earlier data released for Portland showed one unhealthy for sensitive groups day in 1985 and one in 1990 but these were subsequently changed to zero because they were determined to be from field burning.*
- b. *Data does not include July 4 Fireworks.*
- c. *“-“ = no data collected*

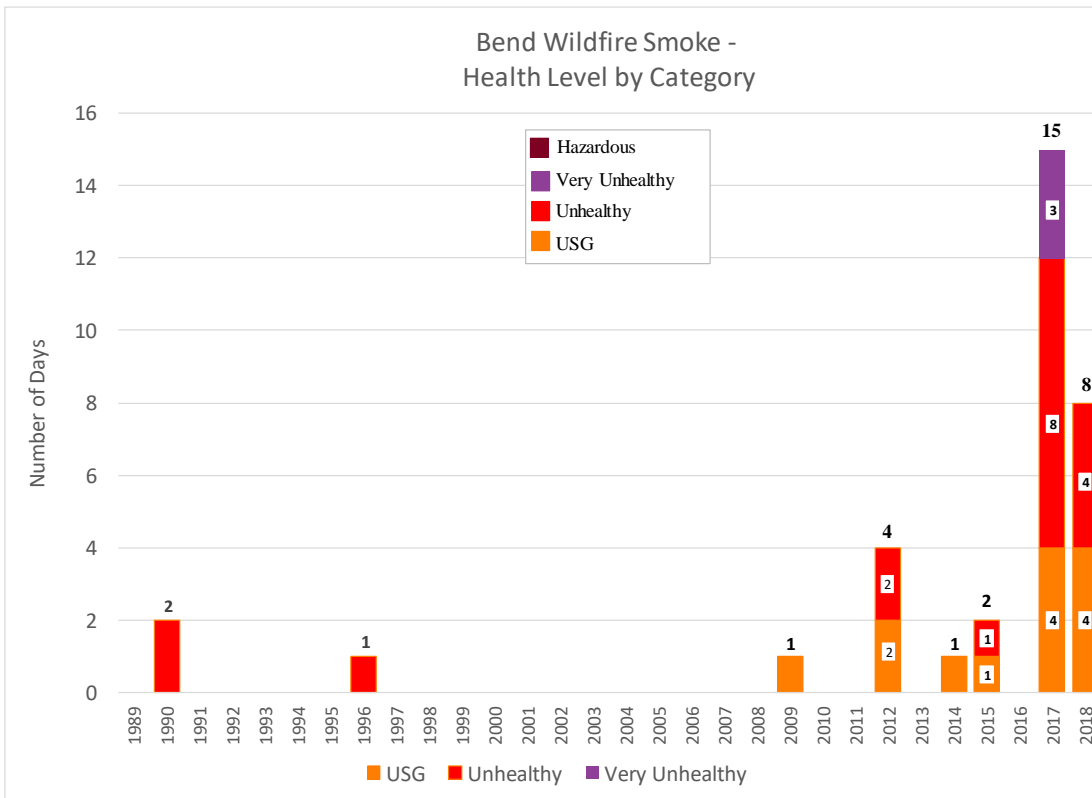


Figure 1. Bend AQI unhealthy for sensitive groups or worse wildfire smoke trends 1989 to 2018.

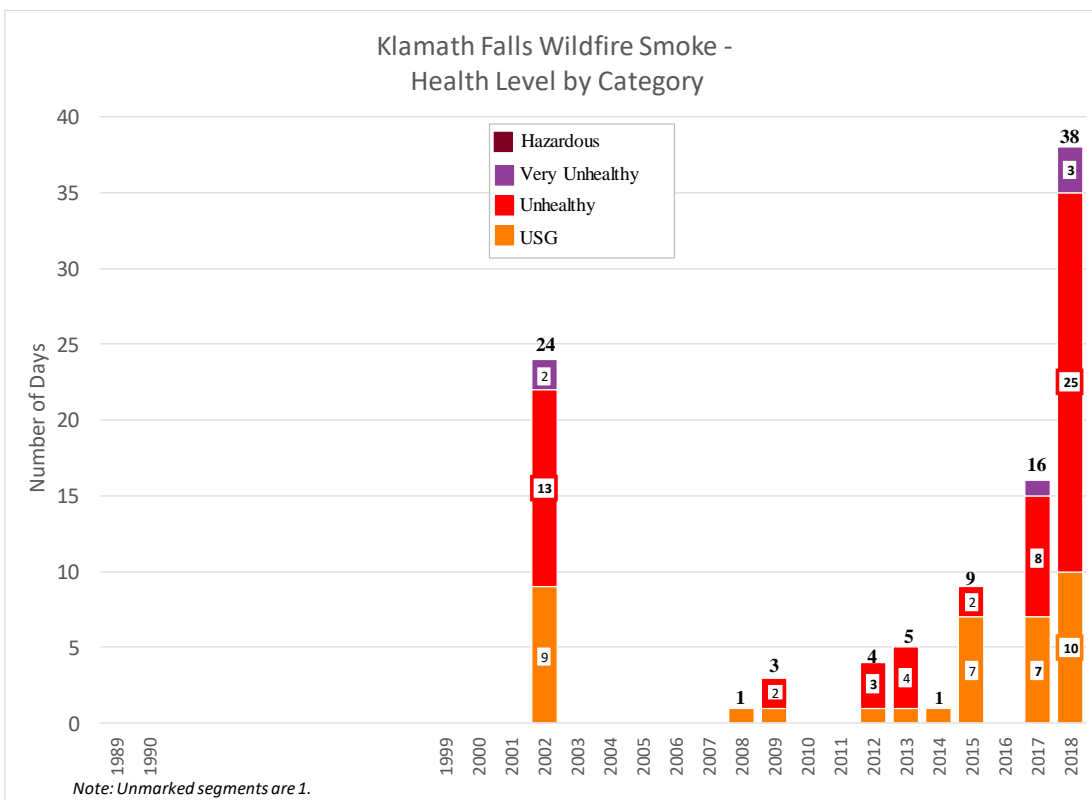


Figure 2. Klamath Falls AQI unhealthy for sensitive groups or worse wildfire smoke trends 1989 to 2018.

Notes: No data was collected during the summer from 1991 through 1995, 1997, and 1998.

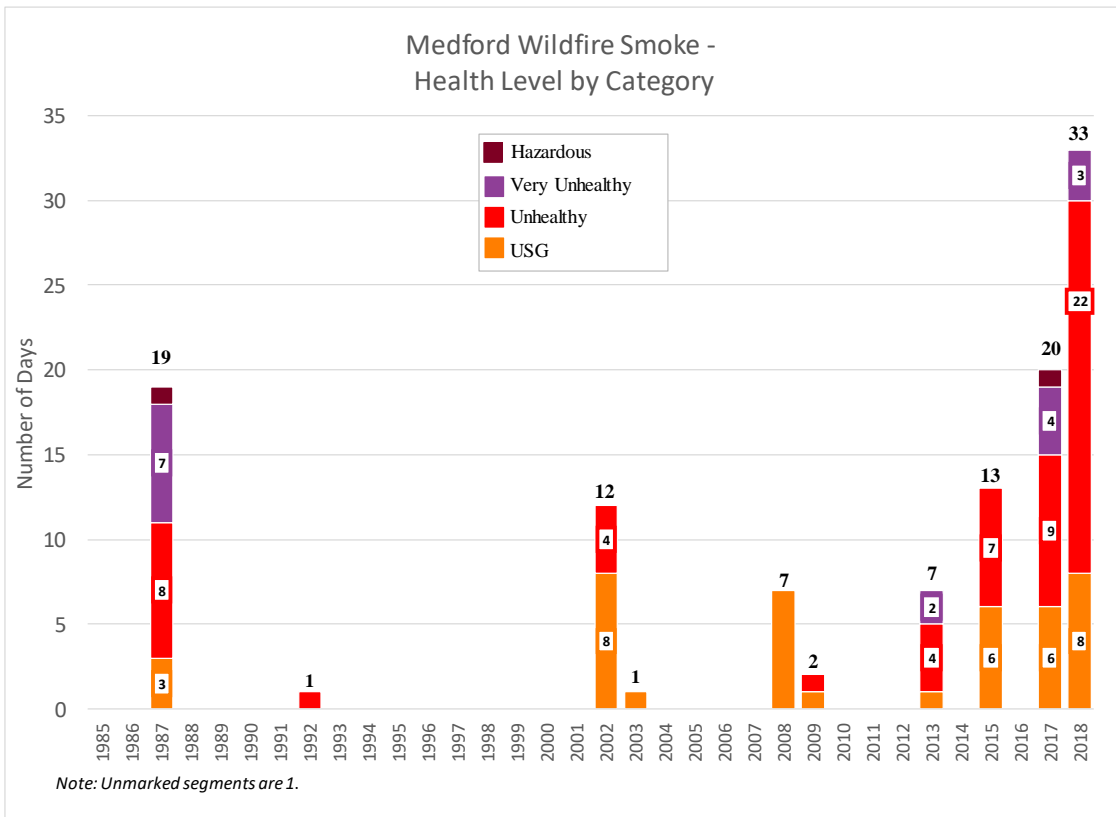


Figure 3. Medford AQI unhealthy for sensitive groups or worse wildfire smoke trends 1985 to 2018.

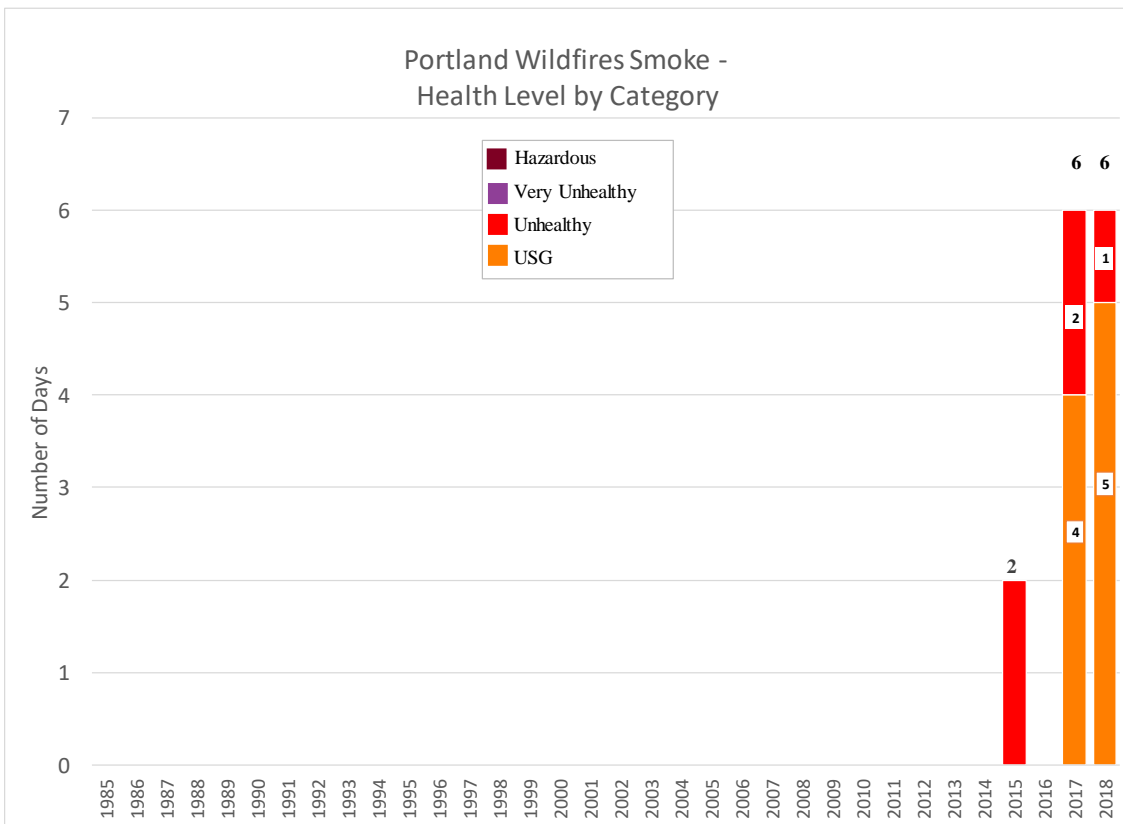


Figure 4. Portland AQI unhealthy for sensitive groups or worse wildfire smoke trends 1985 to 2018.

Note: There were four unhealthy for sensitive groups days in Portland in mid to late September, two in 1985, one in 1987, and one in 1990 but these were likely from field burning and are not shown here.

8. Conclusion

This report is intended to show the AQI trends from wildfires and associated potential health impacts. The data shows that health impacts from wildfire smoke have been increasing starting around 2012 and there has been much more frequent impacts at a more “unhealthy” level. If these trends continue, Oregon should expect to see an increasing number of unhealthy for sensitive groups or worse days during the summer, not just in Southern Oregon but also across the state.

Alternative formats

DEQ can provide documents in an alternate format or in a language other than English upon request. Call DEQ at 800-452-4011 or email deqinfo@deq.state.or.us.

Learn more

[EPA’s Wildland Fire Publications, Fact Sheets and Other Resources](#)

[AQI – A Guide to Air Quality and Your Health](#)