Wood Smoke Curtailment Programs in Other Jurisdictions



Home Wood Heating Curtailment

Many communities around the Pacific Northwest have instituted curtailment programs to ensure concentrations of PM2.5 remain at health levels. Curtailment programs and policies work to reduce burning wood for home heat through voluntary or mandatory no-burn advisories. Advisories are issued when air quality reaches or is projected to reach unhealthy levels. In order for a mandatory curtailment program to be effective it must have the following capabilities:

- Forecast and report air quality conditions throughout the jurisdiction
- A public alert system that notifies the community of poor air quality through a variety of means (web, social media, reverse 911, etc.) and discourages/prohibits wood burning depending on consistent thresholds
- Ongoing community education and outreach that focuses on burning wise
- o An enforcement mechanism to address ongoing issues
- A wood stove change out program to help families who rely solely on wood heat to transition to a newer/cleaner appliance

Most programs exempt low-income households and those who rely solely on wood heat.

Jurisdiction	Advisory Framework	Exemptions
Washington	Residential Indoor: Three stage no-burn advisory	Available based on sole source of
County, OR	-Green: County determines current levels of	heat, income, interruption in
(unincorporated	monitored and/or forecasted PM2.5 are	utility service, or when a
only- City of	acceptable- no restrictions.	household's primary heating
Hillsboro and	-Yellow: County determines current levels of	system is temporarily inoperable
some other	monitored and/or forecasted PM2.5 to reach a	(max 120 days).
jurisdictions	daily (24 hour average) of 30 mg/m3.	
within the	-Red: County determines current levels of	Residential outdoor rules do not
county have	monitored and/or forecasted PM2.5 to reach a	restrict recreational fires or
their own	daily average of 35 mg/m3 or higher.	burning associated with
programs, and	Residential Outdoor: Prohibits "open" burning	agricultural operations.
some	on residential properties, year round, for	Application for "Hardship
jurisdictions do	households within the Metro Service Area for	Permit" exists for outdoor rules
not participate)	yard debris collection.	only.
Oakridge, OR	Residential: Three stage no-burn advisory	Available based on income and
	-Yellow: Burning is allowed so long as opacity	for those who have no other
	does not exceed 40%. Advisory issued if PM2.5	source of heat. Exemptions must
	levels are projected to be between 41-54 mg/m3	be renewed annually.
	-Red I: Burning is allowed so long as there are no	
	visible emissions. Advisory is issued when PM2.5	
	levels are forecasted to be between 55-64	

	mg/m3.	
	-Red II: No burning allowed except zero visible	
	emission pellet stoves. Advisory is issued when	
	PM2.5 levels are forecasted to exceed 65 mg/m3.	
Eugene, OR	Residential: Three stage no-burn advisory	Income-based exemptions for
	-Yellow: Burning is allowed so long as opacity	those who qualify for Lane
	does not exceed 40%. Advisory issued if PM2.5	County's Low Income Energy
	levels are projected to be between 25-29 mg/m3	Assistance Program. Exemption
	-Red I: Burning is allowed so long as there are no	must be renewed annually.
	visible emissions. Advisory is issued when PM2.5	
	levels are forecasted to be between 30-35	
	mg/m3.	
	-Red II: No burning allowed except zero visible	
	emission pellet stoves. Advisory is issued when	
	PM2.5 levels are forecasted to exceed 35 mg/m3.	
Jackson County,	Residential: Two stage no-burn advisory	Available based on income and
OR	-Yellow: No use of uncertified wood stoves and	special need- defined as a
	no visible emissions allowed.	temporary exemption when a
	- Red : No use of uncertified wood stoves and no	furnace or other heating system
	visible emissions allowed.	is inoperable.
	Both advisories are issued when the County or DEQ determine levels of PM2.5 are forecasted to	
	approach unhealthy levels. Actual levels are not	
	defined in policy/ordinance.	
Klamath County,	Residential: Three stage no-burn advisory	Available based on income and
OR	- Green : Burning allowed in all appliances except	must be renewed annually.
	fireplaces without a certified insert, which are	Community-wide exemptions
	banned Nov. 1 st through Feb 28 th , and opacity is	available if utilities are
	not to exceed 20%.	interrupted.
	-Yellow: Only certified wood stoves and inserts	
	are allowed. Advisory issued when PM2.5 levels	
	are forecasted to exceed 16 mg/m3.	
	-Red: No burning except for the use of pellet	
	stoves. Advisory issued when PM2.5 levels are	
	forecasted to exceed 30 mg/m3.	
Clark County,	Residential: Two stage no-burn advisory	
WA	-Stage 1: No use of fireplaces or uncertified wood	
	stoves or inserts. Advisory issued when PM2.5	
	levels are forecasted to exceed 35 mg/m3.	
	-Stage 2: No wood heating allowed. Advisory	
	issued when (i) a Stage 1 Advisory has not	
	reduced or shows an upward trend, (ii) levels of	
	PM2.5 are exceeding 25 mg/m3, or (iii) levels of	
	PM2.5 are forecasted to remain at or above 25	
	mg/m3 for more than 24 hours.	
	At no time may smoke from a flue or chimney	
	exceed 20% opacity.	

	Limited exemptions available for
	sole source of heat (must be EPA
	certified device), non functional
Outdoor "recreational" fires are included.	permanently installed alternative
	heating device (30 day max), loss
	of utility service.
with the air district.	
Residential: Restrictions on Outdoor Wood	Char Broilers: Code amended in
Boilers: Must be EPA Certified, burn clean dry	2015, required compliance in
fuels, and not cause a nuisance. (awaiting info on	2016 (unclear of when original
wood stoves) (new wood heating devices must	rule was passed)
meet EPA PM standards, fireplaces cannot be	Wood/Coal Fired: Existing
used as primary source of heat, clean, dry	facilities have grace periods to
firewood requirement- verify) Commercial: Char	comply- 5 years from adoption
broilers (more than 875 lb meat cooked/year	(adopted in 2015, compliance in
requires 75% removal efficiency controls). Any	2020)
coal or wood fired cooking device is also required	(Wood home heating
to have the same efficiency of controls.	exemptions?)
Residential: Program similar to Oregon's Heat	Application process exists to be
Smart regarding installation of wood heating	granted a variance to the rule.
devices in any residence after 2009. Penalties for	
violation are steep- up to \$3 Million in fines and	
18 months in jail. (Lacking information on specific	
curtailment ordinance)	
	Boilers: Must be EPA Certified, burn clean dry fuels, and not cause a nuisance. (awaiting info on wood stoves) (new wood heating devices must meet EPA PM standards, fireplaces cannot be used as primary source of heat, clean, dry firewood requirement- verify) Commercial: Char broilers (more than 875 lb meat cooked/year requires 75% removal efficiency controls). Any coal or wood fired cooking device is also required to have the same efficiency of controls. Residential: Program similar to Oregon's Heat Smart regarding installation of wood heating devices in any residence after 2009. Penalties for violation are steep- up to \$3 Million in fines and 18 months in jail. (Lacking information on specific

These programs are enforced to varying degrees. For example:

- Eugene/Springfield: The Lane Regional Air Protection Agency (LRAPA) performs "smoke patrols" during no-burn advisories. Staff patrol neighborhoods to identify households violating the ban and follow up with a notice of violation and educational materials. Repeat violators may be fined up to \$500.
- **Oakridge:** The enforcement system is complaint-driven, meaning the community can report those violating the ban to the Police Department or LRAPA. Complaints are typically addressed through education.
- **Clark County:** The Southwest Clean Air Agency has a system to accept complaints through phone or email. The Agency follows up by mailing an educational packet.
- San Francisco (BAAQMD): Eliminated warning letters, 1st offence results in either \$100 fine or participation in a wood smoke educational class. Second and subsequent offence results in a \$500 fine.