

Updated Oakridge-Westfir PM_{2.5} Attainment Plan

Progress report on the Plan as approved by the:

- Lane Regional Air Protection Agency,
 - Oregon Environmental Quality Commission, and
 - U.S. Environmental Protection Agency
- during November 2016 to February 2018.

Mayor Jim Coey, City of Oakridge
Merlyn Hough, LRAPA Director

EPA-WESTAR Residential Wood Smoke Workshop, March 6-8, 2018, Nashville TN

Oakridge is located in a small valley on the Middle Fork Willamette River in the foothills of the Cascades:



Oakridge-Westfir is located in Lane County about 45 miles southeast of Eugene-Springfield:





Westfir

58

Willamette Hwy

58

Oakridge

Oakridge City Hall

Greenwaters
Park

Willamette Hwy

Woodsmoke can be a problem in Oakridge on worst winter days during air stagnation episodes:



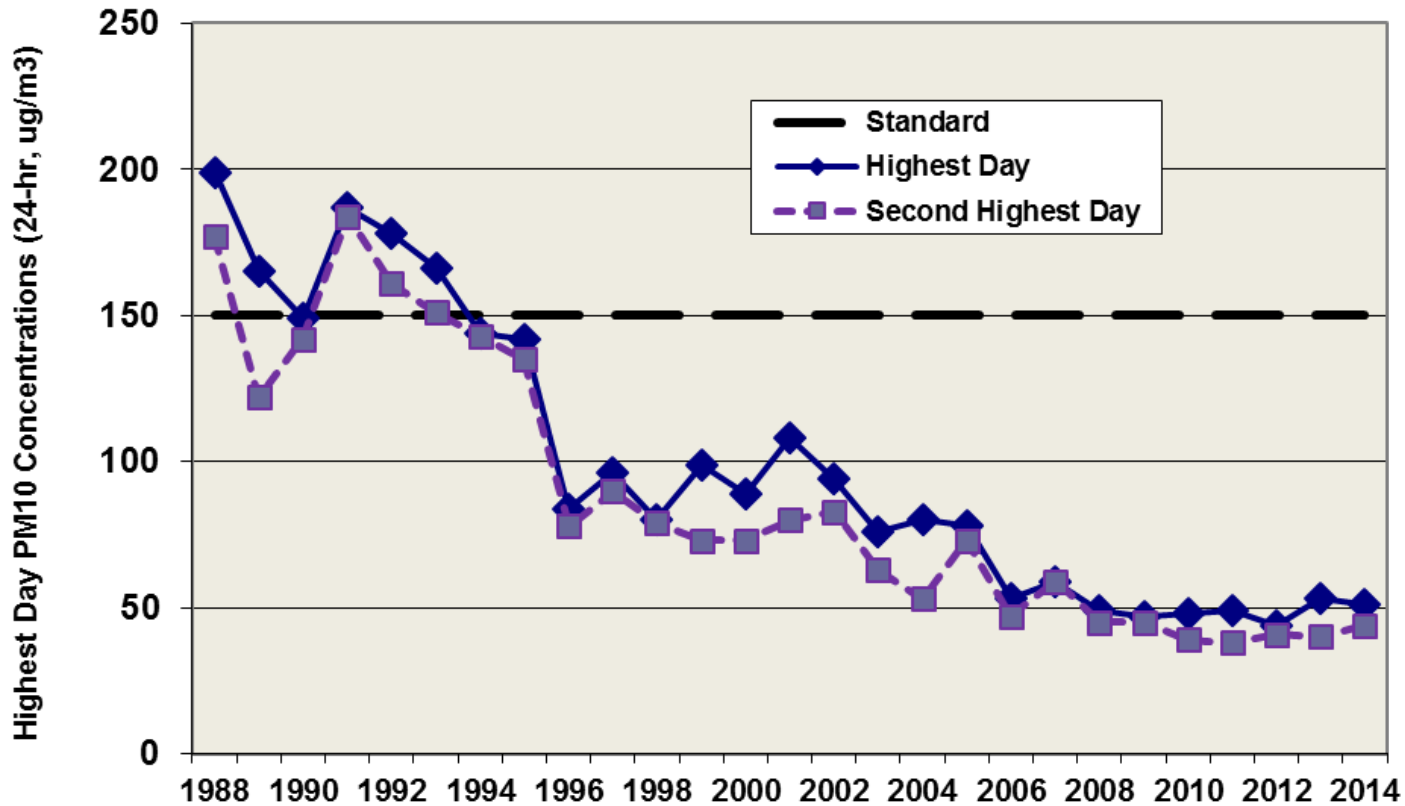
Updated Oakridge-Westfir PM_{2.5} Attainment Plan

Why needed?

- Recent court cases vs. EPA regarding Clean Air Act implementation guidance;
- Updated EPA implementation guidance during July-August 2016;
- Partial disapproval of 2012 Oakridge Attainment Plan by EPA in July-October 2016; and
- Failure to attain 24-hour standard by the Clean Air Act deadline of December 2015, but CAA deadline extension to December 2016 approved by EPA Administrator.

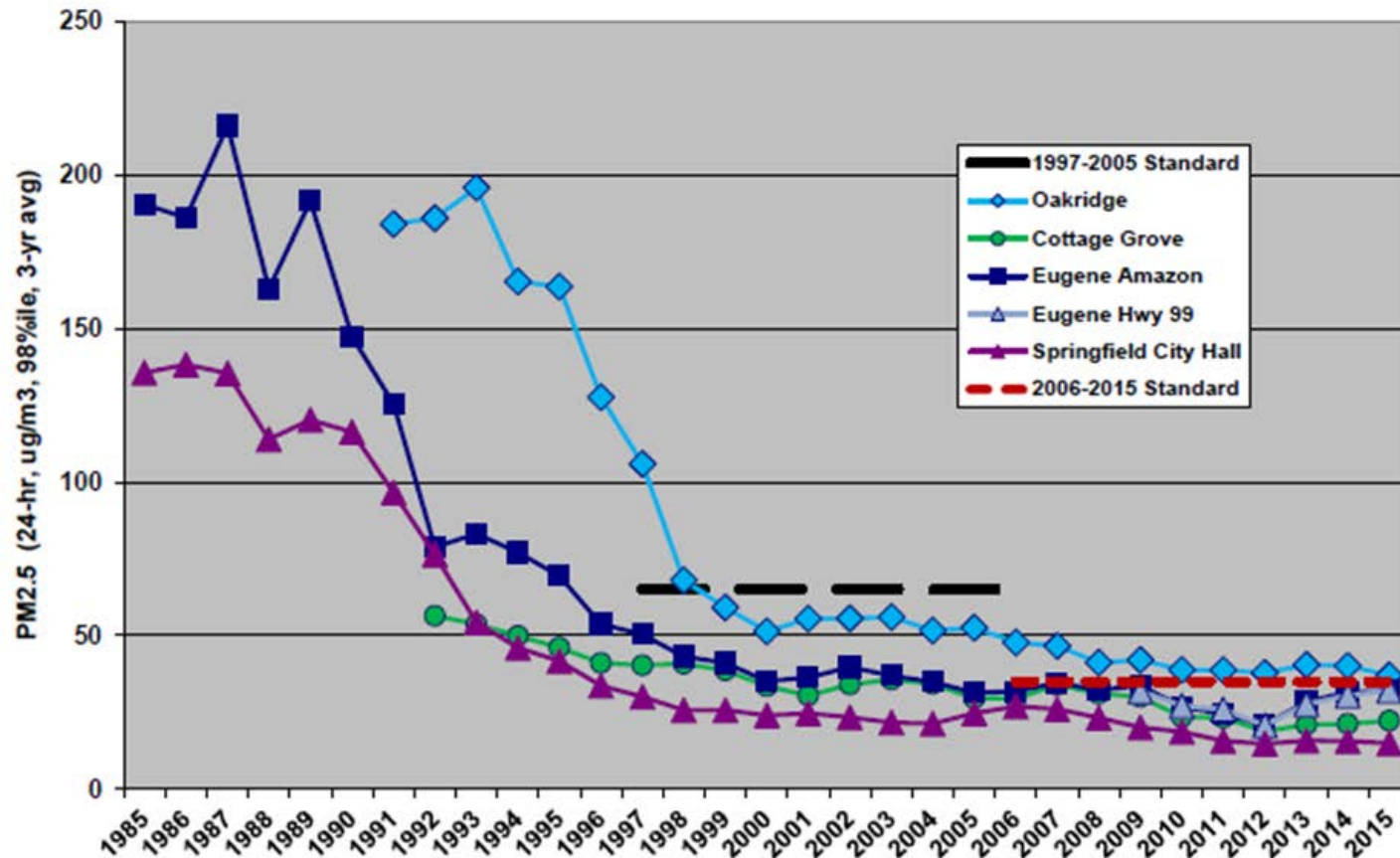
Oakridge history – PM₁₀ standards attained on schedule in mid-1990s:

Inhalable Particulate Matter (PM₁₀) Trend in Oakridge



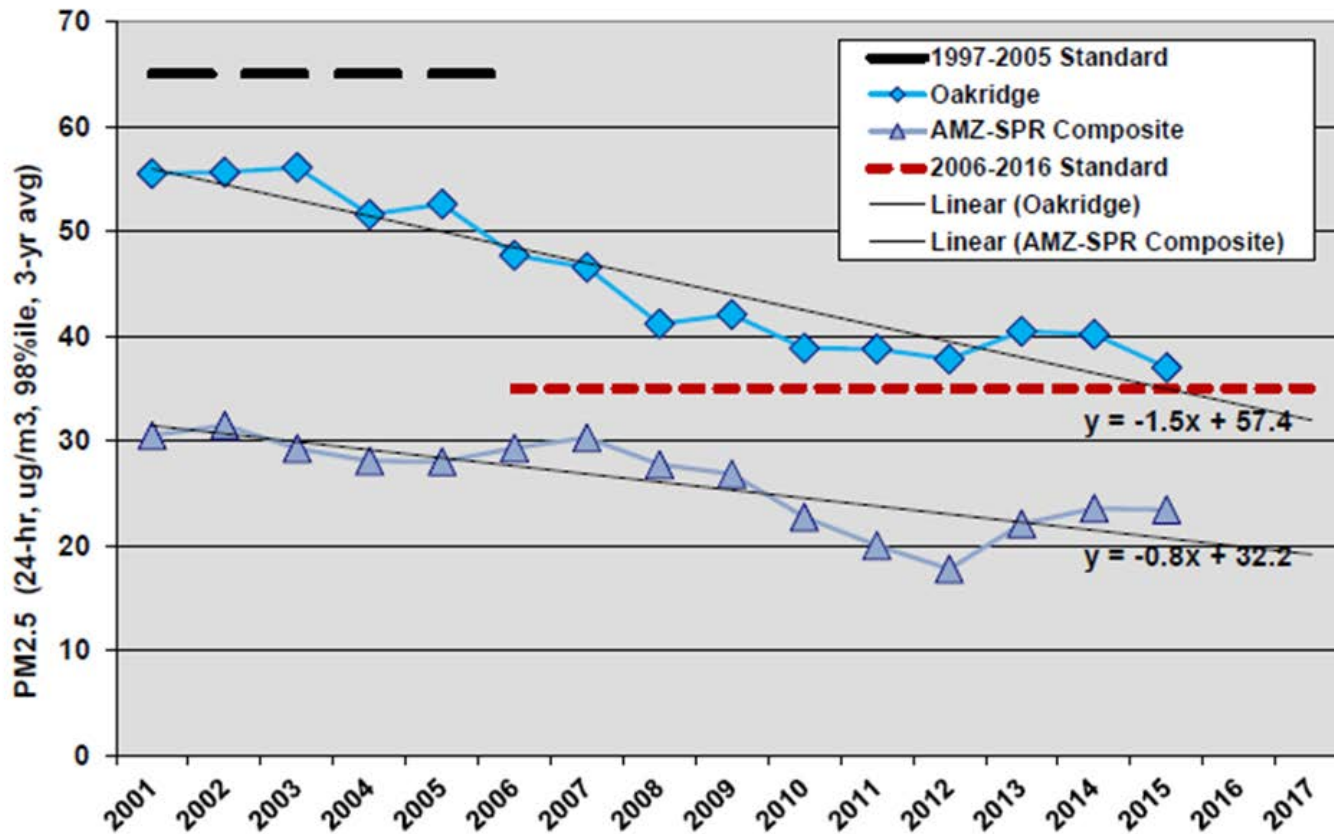
Initial PM_{2.5} standards attained by 1999, but continued improvement needed to meet 2006 PM_{2.5} standards :

Respirable Particulate Matter (PM_{2.5}) in Lane County



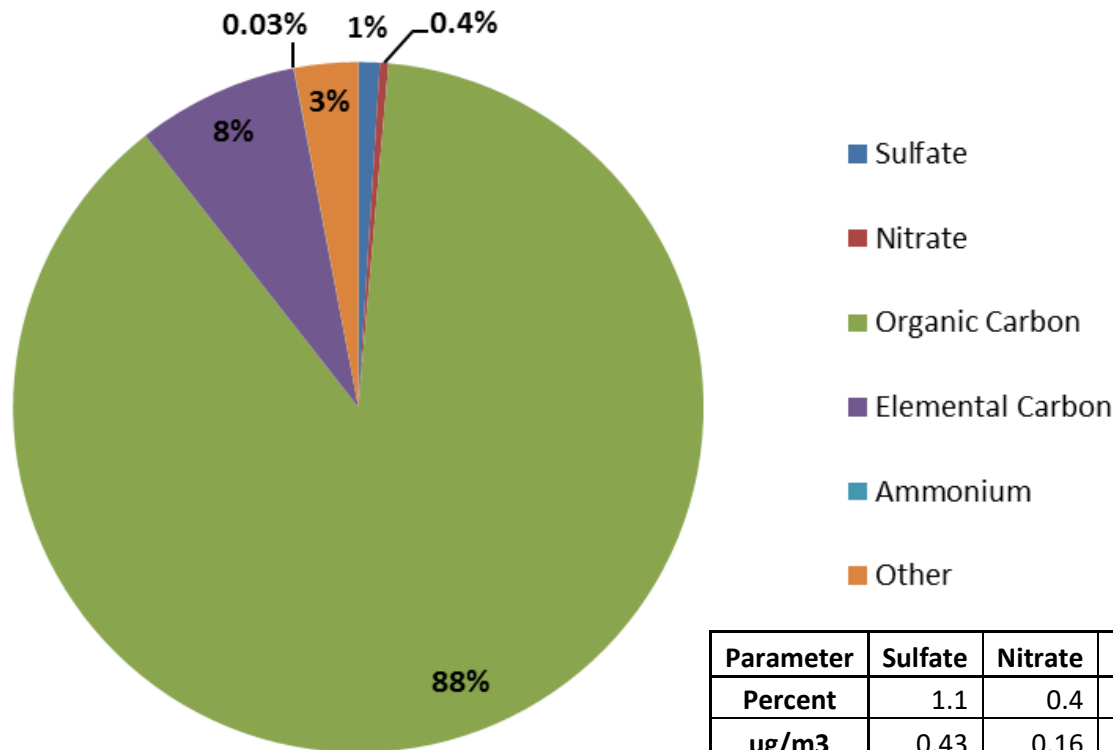
Oakridge air quality has improved but has fluctuated (along with other nearby sites) with weather:

Respirable Particulate Matter (PM2.5) on Worst Days



The chemistry indicates most of the particulate is organic carbon, consistent with woodsmoke:

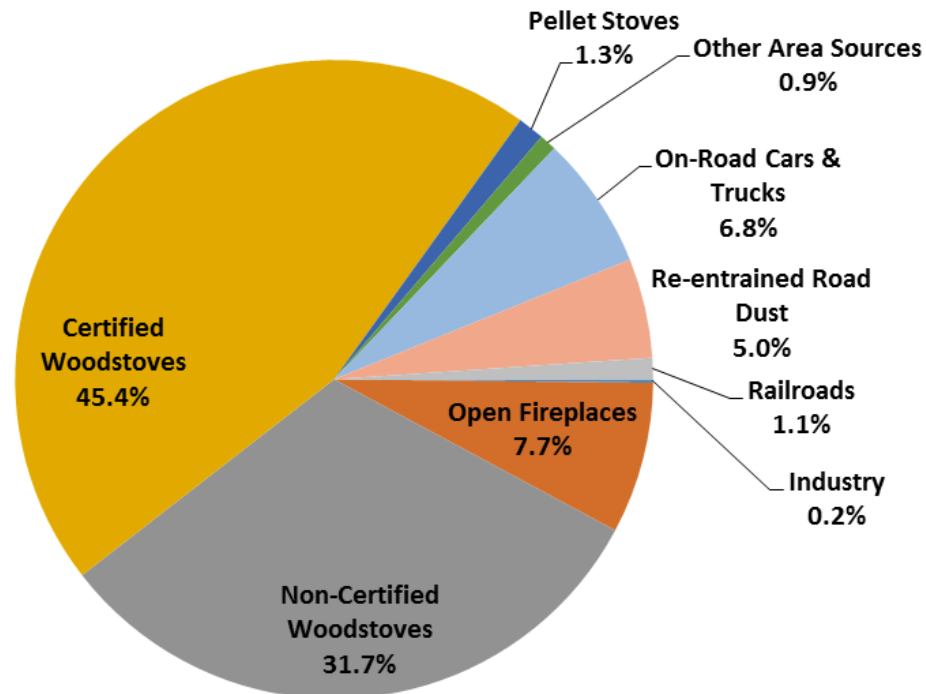
Oakridge PM_{2.5} Composition



Parameter	Sulfate	Nitrate	OC	EC	Water	NH3	OPP
Percent	1.1	0.4	88.4	7.6	1.4	0.03	1.1
ug/m3	0.43	0.16	34.46	2.95	0.54	0.01	0.44

The emission inventory indicates most of the particulate emissions are from home wood heating:

Oakridge PM2.5 Emission Inventory for 2008 Worst Winter Days



Effective implementation of Oakridge ordinances has been key to the air quality success.



RWC Strategy Category	Reductions on Worst Winter Days		Time	Emission	Oakridge	Ordinance
	lb/day	ug/m3	Period	Inventory	Ordinance	Date
Long-Term RWC Strategies	38	2.6	2009-2014	2015	#903	Oct-2012
Short-Term Curtailment	107	7.1	2009-2014	2015	#903	Oct-2012
Supplemental Underway	25	1.7	2015	2016	#914	Oct-2015
Conditional Contingency	42	2.8	Future	Future	#920	Oct-2016

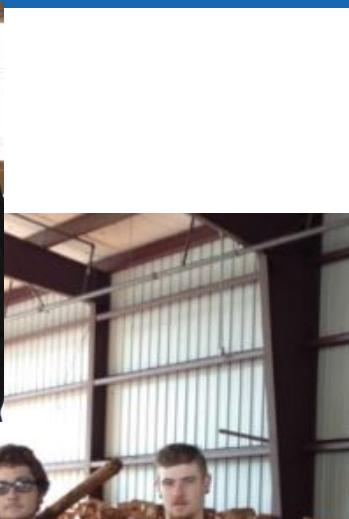


Updated Oakridge-Westfir PM_{2.5} Attainment Plan

Key components of 2016 updated plan:

- Code enforcement officer hired by City of Oakridge with LRAPA field compliance officer support;
- Continued HeatSmart woodstove replacements upon home sale, and continued ductless heat pump installations by Lane Electric;
- Tightened City ordinances, including 20% opacity limits and lower curtailment cutpoints; and
- Extended daily red-yellow-green woodburning advisory season (from Nov-Feb to Oct-May).

Many community partners were involved in outreach programs to improve cooperation and burning practices.

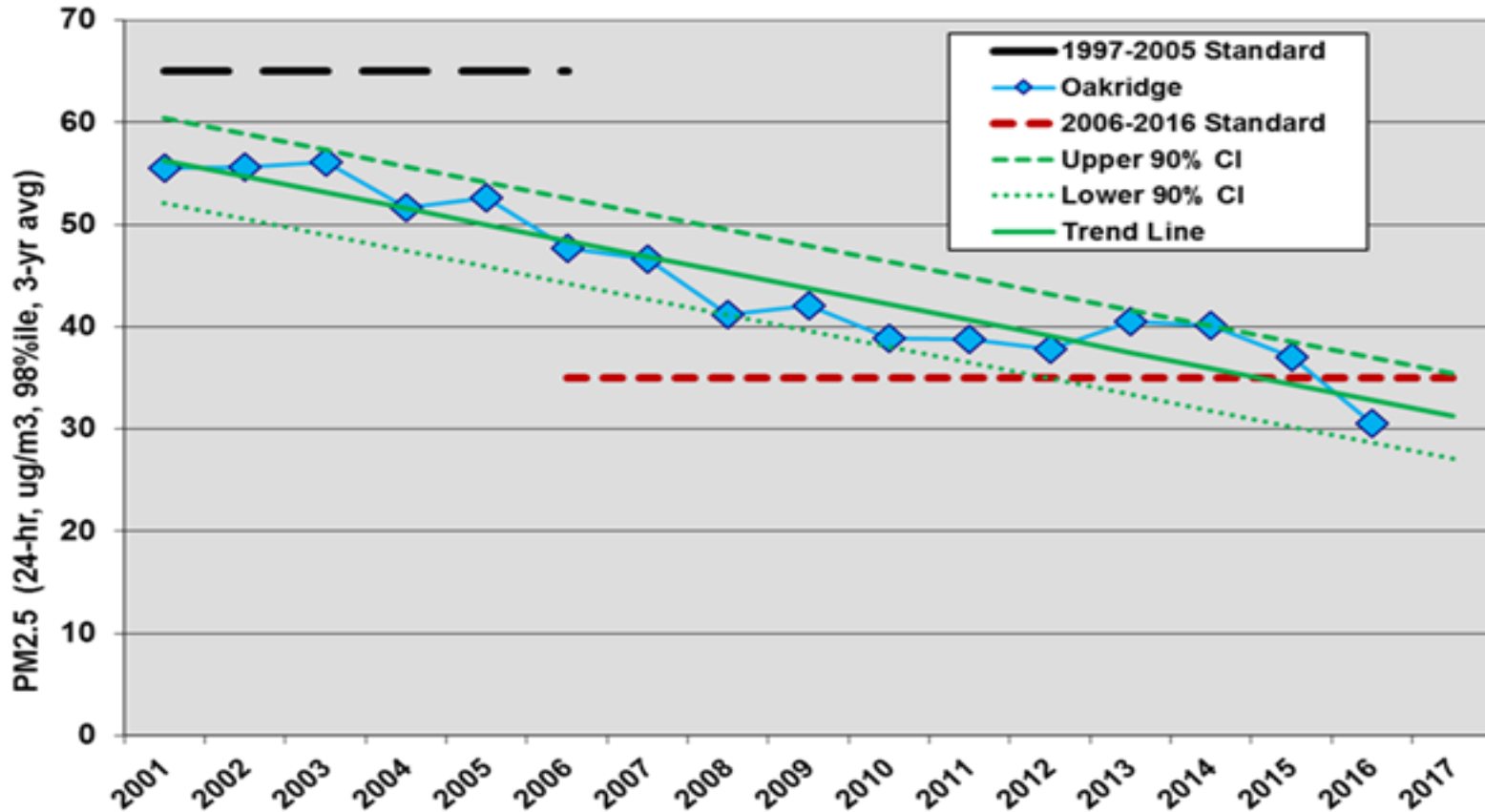


Air quality in Oakridge in 2016 was the best ever recorded, breaking the previous record set in 2015.

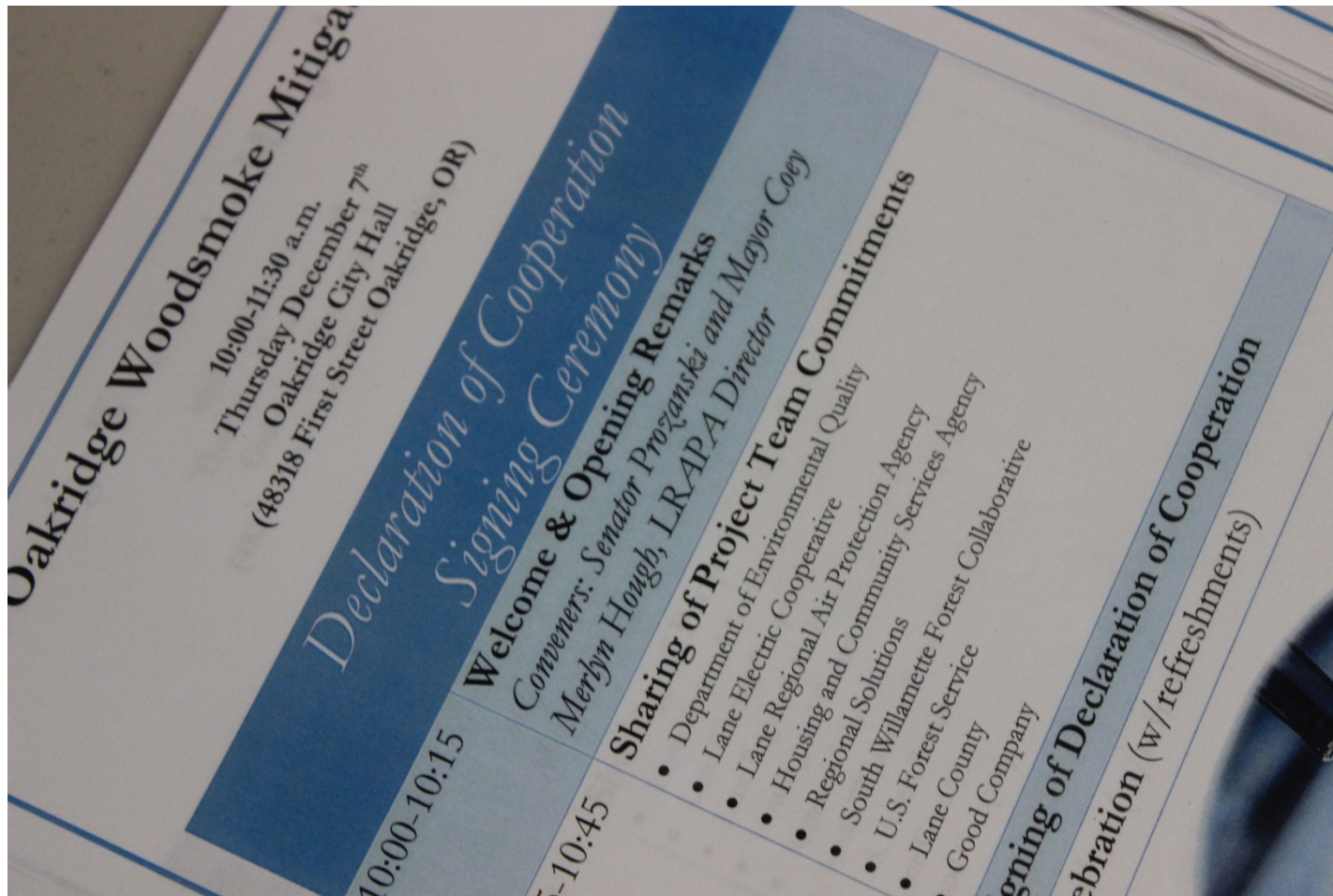


The 2014-2016 results are in: Oakridge has met the 3-year standard as of December 31, 2016:

Respirable Particulate Matter (PM2.5) on Worst Days



The work continues: Oakridge Woodsmoke Mitigation Agreement signed as an Oregon Solutions Project.



Oregon Solutions Project: Co-convenors Senator Floyd Prozanski and Mayor Jim Coey.



Oregon Solutions Project: Co-convenors Senator Floyd Prozanski and Mayor Jim Coey.

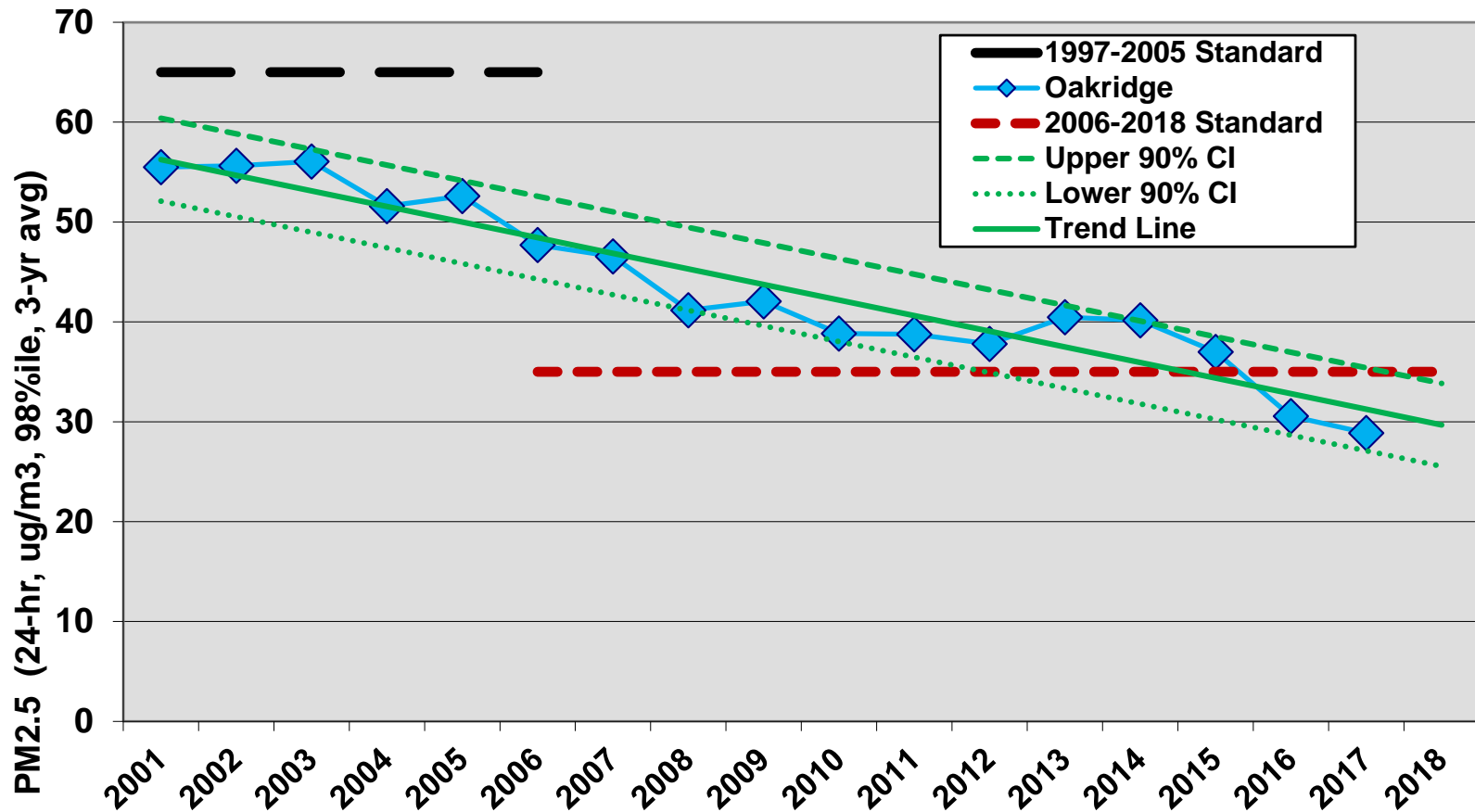


The work continues: Oakridge Woodsmoke Mitigation Agreement signed as an Oregon Solutions Project.



The 2015-2017 results are in: Oakridge continues to meet the 3-year standard.

Respirable Particulate Matter (PM_{2.5}) on Worst Days



Oakridge PM_{2.5} Attainment Plan Approval Process

- Lane Regional Air Protection Agency (**LRAPA**) Board of Directors adopted the Updated Oakridge-Westfir PM_{2.5} Attainment Plan in **November 2016**.
- Oregon Environmental Quality Commission (**EQC**) incorporated the Attainment Plan into the Oregon Clean Air Act State Implementation Plan (SIP) in **January 2017**.
- The U.S. Environmental Protection Agency (**EPA**) approved the Attainment Plan in the **February 8, 2018** Federal Register (83 FR 5537) effective **March 12, 2018**.



Documents can be provided upon request in an alternate format for individuals with disabilities or in a language other than English for people with limited English skills. To request a document in another format or language, call LRAPA in Springfield at 541-736-1056; or email lrapa@lrapa.org