

Recommended Designations for the 24-Hour PM_{2.5} Standard

Washington State Department of Ecology

October 25, 2007

The United States Environmental Protection Agency (EPA) revised the 24-hour federal health standard for fine particulate matter (PM_{2.5}) in the ambient air to 35 micrograms per cubic meter in December 2006 to improve protection of public health. PM_{2.5} refers to particulates with an aerometric diameter of 2.5 microns or less. Compliance with the PM_{2.5} standard is evaluated

SITE SITE NO.	98TH PERCENTILE			DESIGN VALUE	RECOMMENDED DESIGNATION
	2004	2005	2006	2004-2006	
<u>CLARK COUNTY</u>					
Moose Lodge, Vancouver 53-011-0013	43.7	34.4	n/a	n/a	Unclassifiable
<u>KING COUNTY</u>					
Duwamish, Seattle 53-033-0057	29.1	30.0	n/a*	n/a	Attainment
Lake Forest Park 53-033-0024	24.9	25.4	37.3	29	Attainment
<u>PIERCE COUNTY</u>					
L Street, Tacoma 53-053-0029	43.7	40.5	42.7	42	NONATTAINMENT
<u>SNOHOMISH COUNTY</u>					
Marysville 53-061-1007	28.2	37.1	32.5	33	Attainment
<u>SPOKANE COUNTY</u>					
Ferry Street, Spokane 53-063-0016	25.6	31.6	31.6	30	Attainment
<u>YAKIMA COUNTY</u>					
S 4th Ave, Yakima 53-077-0009	44.3	n/a	n/a	n/a	Unclassifiable

* The Duwamish site did not meet the level of data completeness required by EPA regulations during the third quarter of 2006. Elevated levels of PM_{2.5} normally occur in the first and fourth quarters. The maximum value of 35.3 µg/m³ in these two quarters combined with 95% data completeness indicates attainment of the standard in 2006.

over a three-year period by averaging the 98th percentile value for the each calendar year to determine the design value. A design value of 35.5 micrograms per cubic meter or higher is a violation of the 24-hour PM_{2.5} standard.

Areas that violate a federal health standard are designated *Nonattainment*; areas that meet the standard, *Attainment*; and areas where more information is needed, *Unclassifiable*. States recommend designations to EPA. EPA will make the final determination in December 2008. EPA may take an additional year if available information is insufficient.