**DIVISION 202**

**AMBIENT AIR QUALITY STANDARDS AND PSD INCREMENTS**

**340-202-0010**

**Definitions**

The definitions in OAR 340-200-0020, 340-204-0010 and this rule apply to this division. If the same term is defined in this rule and OAR 340-200-0020 or 340-204-0010, the definition in this rule applies to this division.

(1) "Approved Method" means an analytical method for measuring air contaminant concentrations described or referenced in **40 CFR 50** and Appendices. (2) "Oregon Standard Method" means any method of sampling and analyzing for an air contaminant approved by DEQ. Oregon standard methods are kept on file by DEQ and include all methods described in the DEQ Source Sampling Manual and the DEQ Continuous Monitoring Manual referenced in OAR 340-200-0035(2) and (3), respectively.

(3) “Significant deterioration” means emissions that cause a violation of a PSD increment under OAR 340-202-0210.

**NOTE:** This rule is included in the State of Oregon Clean Air Act Implementation Plan as adopted by the Environmental Quality Commission under OAR 340-200-0040.

Stat. Auth.: ORS 468A
Stats. Implemented: ORS 468A.025
Hist.: DEQ 37, f. 2-15-72, ef. 3-1-72; DEQ 18-1979, f. & ef. 6-22-79; DEQ 25-1981, f. & ef. 9-8-81; DEQ 8-1988, f. & cert. ef. 5-19-88 (corrected 9-30-88); DEQ 4-1993, f. & cert. ef. 3-10-93; DEQ 19-1993, f. & cert. ef. 11-4-93, Renumbered from 340-031-0105; DEQ 17-1995, f. & cert. ef. 7-12-95; DEQ 14-1999, f. & cert. ef. 10-14-99, Renumbered from 340-031-0005; DEQ 6-2001, f. 6-18-01, cert. ef. 7-1-01; DEQ 5-2011, f. 4-29-11, cert. ef. 5-1-11

**Ambient Air Quality Standards**

**340-202-0050**

**Purpose and Scope of Ambient Air Quality Standards**

(1) An ambient air quality standard is an established concentration, exposure time, and frequency of occurrence of an air contaminant or multiple contaminants in the ambient air that must not be exceeded. The ambient air quality standards set forth in OAR 340-202-0050 through 340-202-0130 were established to protect both public health and public welfare.

(2) Ambient air quality standards are not generally used to determine the acceptability or unacceptability of emissions from a specific source of air contamination. More commonly, the measured ambient air quality is compared with the ambient air quality standards to determine the adequacy or effectiveness of emission standards for all sources in a general area. However, if a source or combination of sources are singularly responsible for a violation of ambient air quality standards in a particular area, it may be appropriate to impose emission standards that are more stringent than those otherwise applied to the class of sources involved. Similarly, proposed construction of new sources or expansions of existing sources, that may prevent or interfere with the attainment and maintenance of ambient air quality standards are grounds for issuing an order prohibiting such proposed construction as authorized by ORS 468A.055 and pursuant to OAR 340-210-0205 through 340-210-0250, and OAR 340-218-0190. No source may cause or contribute to a new violation of an ambient air quality standard even if the single source impact is less than the significant impact level.

(3) In adopting the ambient air quality standards in this division, the Environmental Quality Commission recognizes that one or more of the standards are currently being exceeded in certain parts of the state. It is hereby declared to be the policy of the Environmental Quality Commission to achieve, by application of a timely but orderly program of pollution abatement, full compliance with ambient air quality standards throughout the state at the earliest possible date.

**NOTE:** This rule is included in the State of Oregon Clean Air Act Implementation Plan as adopted by the Environmental Quality Commission under OAR 340-200-0040.

Stat. Auth.: ORS 468 & ORS 468A
Stats. Implemented: ORS 468A.025
Hist.: DEQ 37, f. 2-15-72, ef. 3-1-72; DEQ 4-1993, f. & cert. ef. 3-10-93; DEQ 14-1999, f. & cert. ef. 10-14-99, Renumbered from 340-031-0010; DEQ 6-2001, f. 6-18-01, cert. ef. 7-1-01

**340-202-0060**

**Suspended Particulate Matter**

Concentrations of the fraction of suspended particulate that is equal to or less than ten microns in aerodynamic diameter in ambient air as measured by an approved method must not exceed:

(1) 150 micrograms of PM10 per cubic meter of air as a 24-hour average concentration for any calendar day. This standard is attained when the expected number of days per calendar year with a 24-hour average concentration above 150 micrograms per cubic meter as determined in accordance with **Appendix K of 40 CFR 50** is equal to or less than one at any site.

Concentrations of the fraction of suspended particulate that is equal to or less than 2.5 microns in aerodynamic diameter in ambient air as measured by an approved method must not exceed:

(2) 35 micrograms of PM2.5 per cubic meter of air as a 3-year average of annual 98th percentile 24-hour average values recorded at each monitoring site. This standard is attained when the 3-year average of annual 98th percentile 24-hour average concentrations is equal to or less than 35 micrograms per cubic meter as determined in accordance with **Appendix N of 40 CFR 50**.

(3) 15 micrograms of PM2.5 per cubic meter of air as a 3-year average of the annual arithmetic mean. This standard is attained when the annual arithmetic mean concentration is equal to or less than 15 micrograms per cubic meter as determined in accordance with **Appendix N of 40 CFR 50**.

**NOTE:** This rule is included in the State of Oregon Clean Air Act Implementation Plan as adopted by the Environmental Quality Commission under OAR 340-200-0040.

Stat. Auth.: ORS 468 & 468A
Stats. Implemented: ORS 468A.025
Hist.: DEQ 37, f. 2-15-72, ef. 3-1-72; DEQ 8-1988, f. & cert. ef. 5-19-88 (corrected 9-30-88); DEQ 24-1991, f. & cert. ef. 11-13-91; DEQ 4-1993, f. & cert. ef. 3-10-93; DEQ 14-1999, f. & cert. ef. 10-14-99, Renumbered from 340-031-0015; DEQ 6-2001, f. 6-18-01, cert. ef. 7-1-01; DEQ 5-2010, f. & cert. ef. 5-21-10; DEQ 5-2011, f. 4-29-11, cert. ef. 5-1-11

**340-202-0070**

**Sulfur Dioxide**

Concentrations of sulfur dioxide in ambient air as measured by an approved method must not exceed:

(1) 0.02 ppm as an annual arithmetic mean for any calendar year at any site.

(2) 0.10 ppm as a 24-hour average concentration more than once per year at any site.

(3) 0.50 ppm as a three-hour average concentration more than once per year at any site.

[**NOTE:** This rule is included in the State of Oregon Clean Air Act Implementation Plan as adopted by the Environmental Quality Commission under OAR 340-200-0040.]

Stat. Auth.: ORS 468 & ORS 468A
Stats. Implemented: ORS 468A.025
Hist.: DEQ 37, f. 2-15-72, ef. 3-1-72; DEQ 8-1988, f. & cert. ef. 5-19-88 (corrected 9-30-88); DEQ 24-1991, f. & cert. ef. 11-13-91; DEQ 4-1993, f. & cert. ef. 3-10-93; DEQ 14-1999, f. & cert. ef. 10-14-99, Renumbered from 340-031-0020; DEQ 6-2001, f. 6-18-01, cert. ef. 7-1-01

**340-202-0080**

**Carbon Monoxide**

For comparison to the standard, averaged ambient concentrations of carbon monoxide must be rounded to the nearest integer in parts per million (ppm). Fractional parts of 0.5 or greater must be rounded up. Concentrations of carbon monoxide in ambient air as measured by an approved method, must not exceed:

(1) 9 ppm as an eight-hour average concentration more than once per year at any site.

(2) 35 ppm as a one-hour average concentration more than once per year at any site.

[**NOTE:** This rule is included in the State of Oregon Clean Air Act Implementation Plan as adopted by the Environmental Quality Commission under OAR 340-200-0040.]

Stat. Auth.: ORS 468 & ORS 468A
Stats. Implemented: ORS 468A.025
Hist.: DEQ 37, f. 2-15-72, ef. 3-1-72; DEQ 8-1988, f. & cert. ef. 5-19-88 (corrected 9-30-88); DEQ 24-1991, f. & cert. ef. 11-13-91; DEQ 4-1993, f. & cert. ef. 3-10-93; DEQ 14-1999, f. & cert. ef. 10-14-99, Renumbered from 340-031-0025; DEQ 6-2001, f. 6-18-01, cert. ef. 7-1-01

**340-202-0090**

**Ozone**

Concentrations of ozone in ambient air as measured by an approved method must not exceed 0.075 ppm as a daily maximum eight-hour average concentration. This standard is attained when, at any site the average of the annual fourth-highest daily maximum eight-hour average ozone concentration is equal to or less than 0.075 ppm as determined by the method of Appendix I, 40 CFR 50.

**NOTE:** This rule is included in the State of Oregon Clean Air Act Implementation Plan as adopted by the Environmental Quality Commission under OAR 340-200-0040.

Stat. Auth.: ORS 468 & 468A
Stats. Implemented: ORS 468A.025
Hist.: DEQ 37, f. 2-15-72, ef. 3-1-72; DEQ 15-1979, f. & ef. 6-22-79; DEQ 7-1980, f. & ef. 3-5-80; DEQ 4-1982, f. & ef. 1-29-82; DEQ 8-1988, f. & cert. ef. 5-19-88 (corrected 9-30-88); DEQ 24-1991, f. & cert. ef. 11-13-91; DEQ 4-1993, f. & cert. ef. 3-10-93; DEQ 14-1999, f. & cert. ef. 10-14-99, Renumbered from 340-031-0030; DEQ 6-2001, f. 6-18-01, cert. ef. 7-1-01; DEQ 3-2007, f. & cert. ef. 4-12-07; DEQ 5-2010, f. & cert. ef. 5-21-10

**340-202-0100**

**Nitrogen Dioxide**

Concentrations of nitrogen dioxide in ambient air as measured by an approved method must not exceed0.053 ppm as an annual arithmetic mean at any site.

[**NOTE:** This rule is included in the State of Oregon Clean Air Act Implementation Plan as adopted by the Environmental Quality Commission under OAR 340-200-0040.]

Stat. Auth.: ORS 468 & ORS 468A
Stats. Implemented: ORS 468A.025
Hist.: DEQ 37, f. 2-15-72, ef. 3-1-72; DEQ 8-1988, f. & cert. ef. 5-19-88 (corrected 9-30-88); DEQ 24-1991, f. & cert. ef. 11-13-91; DEQ 4-1993, f. & cert. ef. 3-10-93; DEQ 14-1999, f. & cert. ef. 10-14-99, Renumbered from 340-031-0040; DEQ 6-2001, f. 6-18-01, cert. ef. 7-1-01

**340-202-0110**

**Particle Fallout**

The particle fallout rate as measured by an Oregon standard method at a location approved by DEQ must not exceed:

(1) 10 grams per square meter per month in an industrial area.

(2) 5.0 grams per square meter per month in an industrial area if visual observations show a presence of wood waste or soot and the volatile fraction of the sample exceeds 70 percent.

(3) 5.0 grams per square meter per month in residential and commercial areas.

(4) 3.5 grams per square meter per month in residential and commercial areas if visual observations show the presence of wood waste or soot and the volatile fraction of the sample exceeds 70 percent.

Stat. Auth.: ORS 468 & ORS 468A
Stats. Implemented: ORS 468A.025
Hist.: DEQ 37, f. 2-15-72, ef. 3-1-72; DEQ 8-1988, f. & cert. ef. 5-19-88 (corrected 9-30-88); DEQ 14-1999, f. & cert. ef. 10-14-99, Renumbered from 340-031-0045; DEQ 6-2001, f. 6-18-01, cert. ef. 7-1-01

**340-202-0130**

**Ambient Air Quality Standard for Lead**

The lead concentration in ambient air as measured by an approved method must not exceed 0.15 micrograms per cubic meter as a maximum arithmetic mean averaged over a calendar quarter, determined by Appendix R, 40 CFR 50.

**NOTE:** This rule is included in the State of Oregon Clean Air Act Implementation Plan as adopted by the Environmental Quality Commission under OAR 340-200-0040.

Stat. Auth.: ORS 468 & 468A
Stats. Implemented: ORS 468A.025
Hist.: DEQ 85, f. 1-29-75, ef. 2-25-75; DEQ 1-1983, f. & ef. 1-21-83; DEQ 8-1988, f. & cert. ef. 5-19-88 (corrected 9-30-88); DEQ 24-1991, f. & cert. ef. 11-13-91; DEQ 4-1993, f. & cert. ef. 3-10-93; DEQ 14-1999, f. & cert. ef. 10-14-99, Renumbered from 340-031-0055; DEQ 6-2001, f. 6-18-01, cert. ef. 7-1-01; DEQ 5-2010, f. & cert. ef. 5-21-10

**Prevention of Significant Deterioration Increments**

**340-202-0200**

**General**

(1) The purpose of OAR 340-202-0200 through 340-202-0220 is to implement a program to prevent significant deterioration of air quality in the State of Oregon as required by the federal Clean Air Act Amendments of 1977.

(2) DEQ will review the adequacy of the State Implementation Plan on a periodic basis and within 60 days of such time as information becomes available that an applicable increment is being violated. Any Plan revision resulting from the reviews will be subject to the opportunity for public hearing in accordance with procedures established in the Plan.

[**NOTE:** This rule is included in the State of Oregon Clean Air Act Implementation Plan as adopted by the Environmental Quality Commission under OAR 340-200-0040.]

Stat. Auth.: ORS 468 & ORS 468A
Stats. Implemented: ORS 468A.025
Hist.: DEQ 18-1979, f. & ef. 6-22-79; DEQ 4-1993, f. & cert. ef. 3-10-93; DEQ 14-1999, f. & cert. ef. 10-14-99, Renumbered from 340-031-0100

**340-202-0210**

**Ambient Air PSD Increments**

(1)In areas designated as Class I, II or III, emissions from new or modified sources must be limited such that aggregate increases in pollutant concentration over the baseline concentration, as defined in OAR 340-225-0020 are less than the following PSD increments:

(a) For Class I areas:

(A) PM2.5:

(i) annual arithmetic mean = 1 microgram per cubic meter

(ii) 24-hour maximum = 2 micrograms per cubic meter

(B) PM10:

(i) annual arithmetic mean = 4 micrograms per cubic meter

(ii) 24-hour maximum = 8 micrograms per cubic meter

(C) Sulfur dioxide:

(i) annual arithmetic mean = 2 micrograms per cubic meter

(ii) 24-hour maximum = 5 micrograms per cubic meter

(iii) 3-hour maximum = 25 micrograms per cubic meter

(D) Nitrogen dioxide:

(i) annual arithmetic mean = 2.5 micrograms per cubic meter

(b) For Class II areas:

(A) PM2.5:

(i) annual arithmetic mean = 4 micrograms per cubic meter

(ii) 24-hour maximum = 9 micrograms per cubic meter

(B) PM10:

(i) annual arithmetic mean = 17 micrograms per cubic meter

(ii) 24-hour maximum = 30 micrograms per cubic meter

(C) Sulfur dioxide:

(i) annual arithmetic mean = 20 micrograms per cubic meter

(ii) 24-hour maximum = 91 micrograms per cubic meter

(iii) 3-hour maximum = 512 micrograms per cubic meter

(D) Nitrogen dioxide:

(i) annual arithmetic mean = 25 micrograms per cubic meter

(c) For Class III areas:

(A) PM2.5:

(i) annual arithmetic mean = 8 micrograms per cubic meter

(ii) 24-hour maximum = 18 micrograms per cubic meter

(B) PM10:

(i) annual arithmetic mean = 34 micrograms per cubic meter

(ii) 24-hour maximum = 60 micrograms per cubic meter

(C) Sulfur dioxide:

(i) annual arithmetic mean = 40 micrograms per cubic meter

(ii) 24-hour maximum = 182 micrograms per cubic meter

(iii) 3-hour maximum = 700 micrograms per cubic meter

(D) Nitrogen dioxide:

(i) annual arithmetic mean = 50 micrograms per cubic meter

(2) For any period other than an annual period, the applicable maximum allowable increase or PSD increment may be exceeded during one such period per year at any one location.

**NOTE**: This rule is included in the State of Oregon Clean Air Act Implementation Plan as adopted by the EQC under OAR 340-200-0040.

Stat. Auth.: ORS 468 & 468A
Stats. Implemented: ORS 468A.025
Hist.: DEQ 18-1979, f. & ef. 6-22-79; DEQ 8-1988, f. & cert. ef. 5-19-88 (corrected 9-30-88); DEQ 7-1992, f. & cert. ef. 3-30-92; DEQ 17-1995, f. & cert. ef. 7-12-95; DEQ 14-1999, f. & cert. ef. 10-14-99, Renumbered from 340-031-0110; DEQ 6-2001, f. 6-18-01, cert. ef. 7-1-01; DEQ 10-2010(Temp), f. 8-31-10, cert. ef. 9-1-10 thru 2-28-11; Administrative correction, 3-29-11; DEQ 5-2011, f. 4-29-11, cert. ef. 5-1-11

**340-202-0220**

**Ambient Air Ceilings**

No concentration of a pollutant may exceed:

(1) The concentration permitted under the national secondary ambient air quality standard; or

(2) The concentration permitted under the national primary ambient air quality standard; or

(3) The concentration permitted under the state ambient air quality standard, whichever concentration is lowest for the pollutant for a period of exposure.

[**NOTE:** This rule is included in the State of Oregon Clean Air Act Implementation Plan as adopted by the Environmental Quality Commission under OAR 340-200-0040.]

Stat. Auth.: ORS 468 & ORS 468A
Stats. Implemented: ORS 468A.025
Hist.: DEQ 18-1979, f. & ef. 6-22-79; DEQ 14-1999, f. & cert. ef. 10-14-99, Renumbered from 340-031-0115; DEQ 6-2001, f. 6-18-01, cert. ef. 7-1-01

**340-202-0225**

**Ambient Air Quality Limits for Maintenance Areas**

The following ambient air quality limits have been established for the areas specified for the purpose of the air quality analysis in OAR 340-224-0060, 340-224-0255, and 340-224-0260, if required.

(1) In a carbon monoxide maintenance area, an air quality impact equal to or greater than 0.5 mg/m3 (8 hour average) and 2 mg/m3 (1-hour average).

(2) In a PM10 maintenance area, an air quality impact less than or equal to:

(a) 120 ug/m3 (24-hour average) in the Grants Pass PM10 maintenance area;

(b) 140 ug/m3 (24-hour average) in the Klamath Falls PM10 maintenance area; or

(c) 140 ug/m3 (24-hour average) in the Lakeview PM10 maintenance area. In addition, a single source impact is limited to an increase of 5 ug/m3 (24-hour average) in the Lakeview PM10 maintenance area.