

TECHNICAL SUPPORT DOCUMENT
Montana Initial Designations
2015 Revised 8-hour Ozone National Ambient Air Quality Standards

I. EXECUTIVE SUMMARY

On October 1, 2015, EPA revised the National Ambient Air Quality Standards (NAAQS) for ozone (O₃), revising the annual primary (health-based) and secondary (welfare-based) standards from 75 parts per billion (ppb) to 70 ppb expressed as the 3-year average of the 4th highest daily maximum 8-hr concentration. The revision was published in the Federal Register (FR) on October 26, 2015 at 80 FR 65291.

According to 42 USC §7407, *et seq.*, Montana must submit to EPA an initial list of geographic areas that attain the standard, do not attain the standard, or are otherwise unclassifiable based on available information. Montana hereby designates all areas (Counties) within the state as “attainment” or “unclassifiable” for the 2015 revised O₃ NAAQS. The following evaluation substantiates Montana’s area designations.

Designations for Counties

Based on available information, Montana determined that an initial designation of “attainment” is appropriate for 7 Montana counties with active O₃ State or Local Air Monitoring Stations (SLAMS) and 1 Montana county with an active O₃ Federal Monitoring Station located within their respective boundaries for the design value period of 2013 through 2015. Available monitoring data collected at the SLAMS supports a conclusion that ambient concentrations of O₃ in those counties are in compliance and therefore attain the 2015 revised annual O₃ NAAQS.

The counties to be designated “attainment” include: Fergus, Missoula, Lewis and Clark, Flathead, Powder River, Phillips, Rosebud and Richland.

The remaining 48 counties in Montana should be designated as “attainment” or “unclassifiable” due to a lack of appropriate and/or adequate monitoring data to determine NAAQS compliance.

II. MONITORING DATA

The State of Montana operates 7 O₃ SLAMS and the National Park Service operates 1 O₃ monitor. Figure 1 shows the location of all O₃ monitors in the state. SLAMS use only Federal Reference Methods (FRM) or Federal Equivalent Methods (FEM) and therefore provide data suitable for NAAQS compliance comparisons.

Figure 1. Montana O₃ Monitors



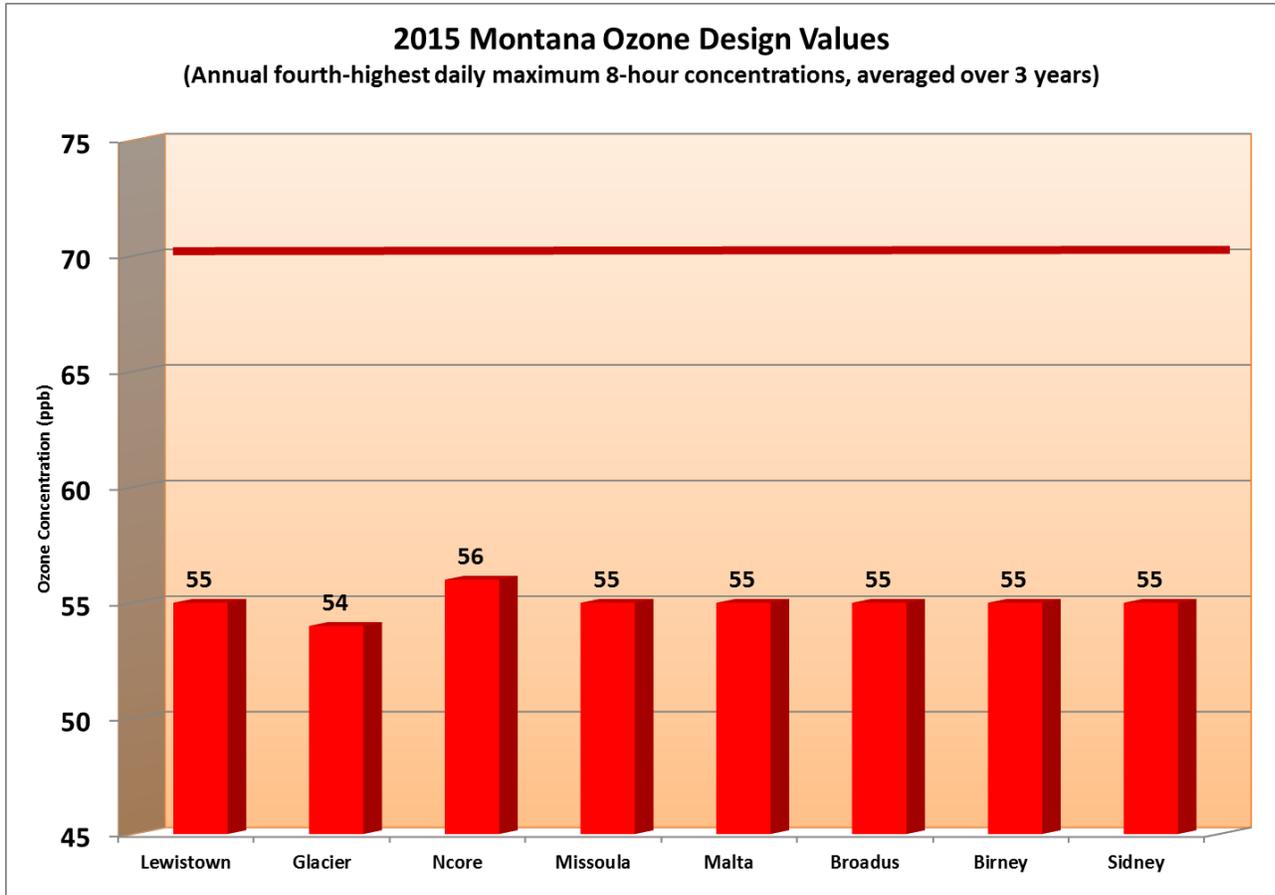
Table 1 provides monitoring site locations within their respective county for all O₃ monitors within the state.

Table 1. Montana’s O₃ Monitoring Network

Site	Location
30-063-0024	Missoula – Boyd Park (Missoula Co.)
30-049-0004	NCore – (Lewis & Clark Co.)
30-027-0006	Lewistown - (Fergus Co.)
30-071-0010	Malta – (Phillips Co.)
30-083-0001	Sidney - (Richland Co.)
30-087-0001	Birney – (Rosebud Co.)
30-075-0001	Broadus - (Powder River Co.)
30-029-8001	Glacier National Park - (Flathead Co.)

Figure 2 shows the calculated design values for all 18 monitors in the state for the design value period of 2013-2015. Montana has not had any ozone related exceptional events.

Figure 2. Annual O₃ 3-Year Average of Annual Mean at All Monitors



III. Conclusion

According to 42 USC §7407, Montana is required to submit to EPA a list of all areas (or portions thereof) in the state, designating as “nonattainment”, “attainment”, or otherwise “unclassifiable” based on available information. Through implementation of a robust O₃ ambient air quality monitoring network the state of Montana has presented a strong case supporting the initial designations listed below.

Based on available information, Montana determined that an initial designation of “attainment” is appropriate for 7 counties with active O₃ SLAMS and 1 Montana county with an active O₃ Federal Monitoring Station located within their respective boundaries for the design value period of 2013 through 2015. Available monitoring data collected at the SLAMS supports a conclusion that ambient concentrations of O₃ in those counties is in compliance and therefore attains the 2015 revised annual O₃ NAAQS.

Those counties to be designated “attainment” include: Fergus, Missoula, Lewis and Clark, Flathead, Powder River, Phillips, Rosebud and Richland.

The remaining 48 counties in Montana should be designated as “attainment” or “unclassifiable” due to a lack of appropriate and/or adequate monitoring data to determine NAAQS compliance.