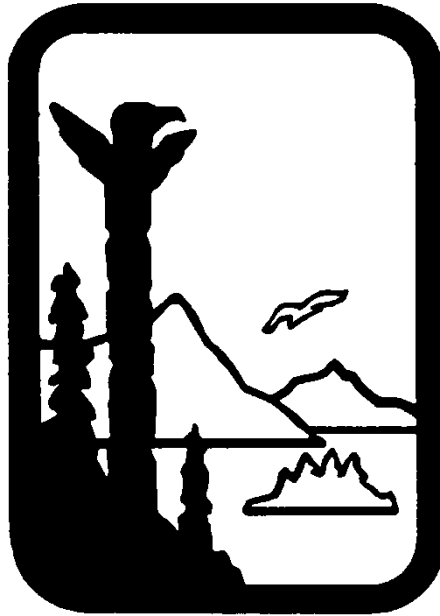


Alaska Department of Environmental Conservation



Amendments to:
State Air Quality Control Plan

Volume III: Appendix III.K.4.b

Maps of Wildfires affecting Alaska's Class 1 Areas

Appendix to
Section III. K: Areawide Pollutant Control Program for
Regional Haze

Adopted

February 11, 2011

(This page serves as a placeholder for two-sided copying)

Maps of Wildfires affecting Alaska's Class 1 Areas

Historical fire information and mapping in the following figures is provided by the Alaska Interagency Coordination Center (AICC) (<http://fire.ak.blm.gov/aicc.php>). AICC cooperators include the Bureau of Land Management, State of Alaska Department of Natural Resources, USDA Forest Service, National Park Service, Bureau of Indian Affairs, and the Fish and Wildlife Service.

- A) Wildfire Impacts on Alaska Class 1 Areas, 2000-2006. Wildland fires are frequent and widespread in Alaska's Interior. Depending on prevailing weather systems, visibility at any of the Class 1 Areas may be affected by fire. IMPROVE monitoring sites are labeled in yellow.
- B) A Closer Look at Wildfire Impacts on Denali and Tuxedni Class 1 Areas, 2000-2006. Denali C1A is affected by fires from every direction, but the two Denali IMPROVE sites (DE and TR) are separated by the Alaska Range, and have different fire exposures. Tuxedni (TU) is affected by fewer, more distant fires than Denali.
- C) Mapped Fires for Individual years, 2000-2006, centered on Denali Class 1 Area. Each year is different with respect to fire locations and sizes.
- D) Wildfire Impacts at Denali Class 1 Area over the Longer Term: 1990-2009. Denali visibility is strongly affected by wildfire, with Organic Matter Carbon and Elemental Carbon the dominant aerosols. Aerosols from the mapped fires vary according to fire location, severity, timing, and land cover - the types of vegetation and soil burned. Over decades, land cover of Alaska's Interior changes, affecting future fire regimes and future biogenic emissions of forests, wetlands, and tundra. Land cover change will itself alter visibility of Denali Class 1 Area.

