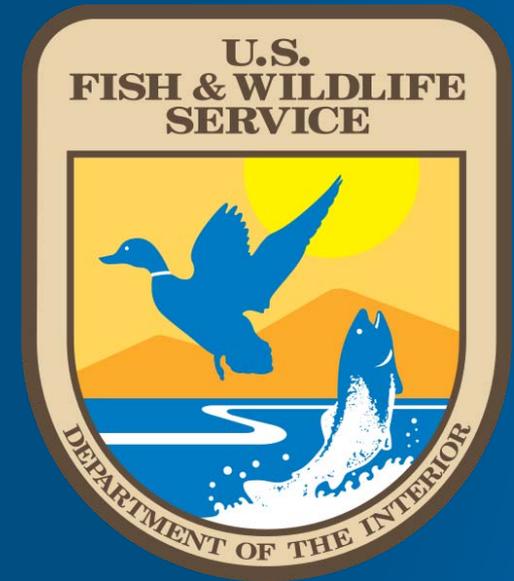


Evaluation of Air Pollutants by the U.S. Fish and Wildlife Service Current Efforts and Planning for Future Actions



November 5, 2010

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Chief, Division of Environmental
Contaminants

Trust Resources



- National Wildlife Refuges
- Endangered Species
- Migratory Birds
- Interjurisdictional Fish (Anadromous; Inter-State)
- Marine Mammals (Walrus, Sea Otter, Manatee, Dugong)

Major Natural Resource Programs



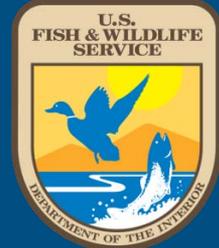
- Refuges
- Fisheries
- Migratory Birds
- Ecological Services
- Law Enforcement

Air Pollutants Affecting Natural Resources



- **Greenhouse Gases** (Ozone, Methane)
- **Air TOXICS** (Mercury, DDT, PAHs, etc.)
- **Visibility in Class I – Wilderness Areas**
(Sulfur dioxide, Nitrogen oxides, Ammonia)
- **Air Pollutants Effect Water** (what goes up also comes down)





Impacts to Natural Resources

- Climate Change
- Visibility
- Toxic Pollutants thru Bioaccumulation
- Habitat Degradation
- Organism Health

Existing FWS Air Quality Programs

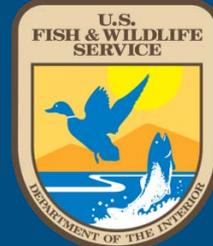


- Refuge Air Quality Branch (Denver CO)
(<http://www.fws.gov/refuges/AirQuality/index.html>)
- Under CAA, the FWS has a responsibility to protect air quality-related values on National Wildlife Refuges.
- Review permits, model impacts, conduct special studies, provide technical assistance, conduct monitoring.

Existing FWS Air Quality Programs (cont.)



- Environmental Contaminants (EC) Program
- Climate Change and Landscape Conservation Cooperatives



Planning For Future Actions

- Establish EC-Refuge Air Quality Team
- Expand Actions to Address Air Quality
- Develop Briefing Statement and White Paper
- Educate FWS and DOI Managers
- Develop Funding And Staffing Initiative