



Florida Department of Environmental Protection

New Monitoring References

Tammy Eagan
Meteorologist
Florida Department of Environmental Protection
Nashville, TN
November 2, 2009



Ozone Monitoring Proposal

- Each state shall operate at least 3 ozone sites in non-urban areas
- There are 3 objectives
- To characterize ozone exposure to ozone sensitive vegetation and important ecosystems
 - At least 1 site is to be in Federal, State , Tribal or public interest lands subject to elevated ozone with ozone sensitive vegetation





Relatively Recent Reference

- The National Park Service (NPS) convened a workshop in June 2003 to review and update lists used by the NPS and the U.S. Fish and Wildlife Service (FWS) to identify ozone sensitive plant species.
- At the workshop, ozone effects scientists made recommendations for the lists; subsequent to the workshop, an additional group of scientists provided review and comments to the lists. The results are presented in the following report.





Link to Ozone Sensitive Plants List

- There is no known GIS mapping for ozone sensitive plants
- There are several sources for plant information
- **Ozone Sensitive Plant Species on National Park Service and U.S. Fish and Wildlife Service Lands: Results of a June 24-25, 2003 Workshop Baltimore, Maryland**
<http://www.nature.nps.gov/air/Pubs/pdf/BaltFinalReport1.pdf>





Ozone Monitoring Proposal

- To characterize less-populated areas
 - At least 1 Micropolitan Statistical Area expected to have ozone design value of at least 85% of the NAAQS, (63.75 ppb)
- To characterize non-urban areas impacted by transport
 - At least 1 site in maximum concentration area outside of currently monitored MSAs, Micropolitan Statistical Areas and sensitive ecosystems. Upwind transport or rural farther downwind





Interferents to Ozone Analyzers

Things to look for when siting ozone monitors:

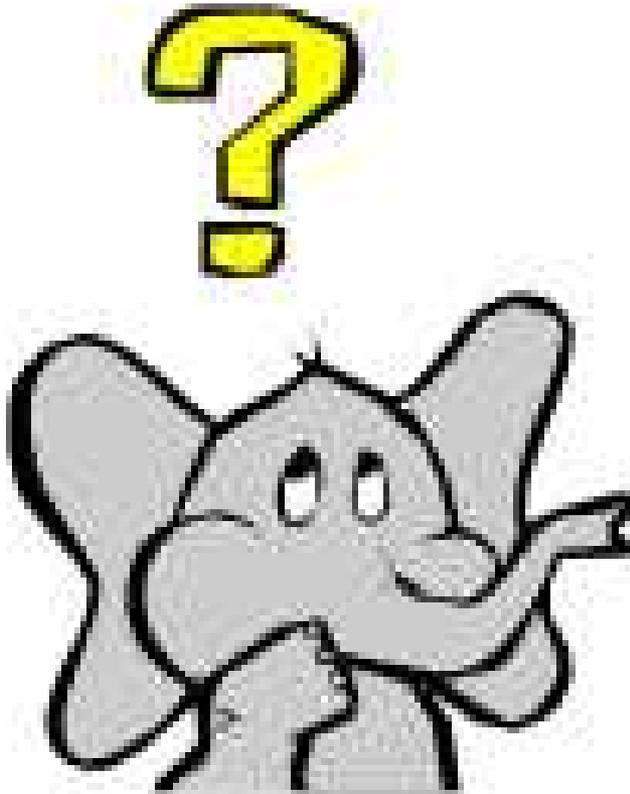
- Mercury from vapor lamps
- Hydrogen sulfide from WWTP
- Proximity to areas of prescribed burning

Things to avoid when siting ozone monitors:

- Styrene from cabinet making or boat building
 - Coats sample inlet and data stays corrupted until replaced
- Hydrocarbons from gasoline



Comments or Questions



- Tammy Eagan
- 850/921-9567
- SC 291-9567
- e-mail:
Tammy.Eagan@dep.state.fl.us