

LAKE MICHIGAN AIR DIRECTORS
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**PURPOSE AND OBJECTIVES OF THE LAKE MICHIGAN OZONE STUDY
AND THE LAKE MICHIGAN OZONE CONTROL PROGRAM**

Purpose

- * Understand ozone formation and transport in the Lake Michigan basin
- * Design effective and equitable control strategies based on a photochemical grid model

Policy Objectives

- * Comply with applicable requirements of the Clean Air Act Amendments of 1990 and the Settlement Agreement (in the case of Wisconsin v. Thomas, Case No. 87-C-0395):
 - * for serious (and above) nonattainment areas, provide a demonstration of attainment based on photochemical grid modeling (section 182(c)(2)(A) of the CAAA)
 - * for moderate (and above) nonattainment areas, provide a demonstration of attainment (section 182(b)(1)(A) of the CAAA)
 - * use a photochemical reactive grid model (PRGM) to perform modeling associated with the necessary revisions to the ozone implementation plans for northeast Illinois and northwest Indiana (Item 17 of the Settlement Agreement)
 - * revisions to the ozone implementation plan for Wisconsin shall be consistent with the results of the PRGM modeling (Item 26.b of the Settlement Agreement)
 - * completion of the PRGM modeling in an expeditious manner (Item 18 of the Settlement Agreement)

Technical Objectives

- * Collect air quality, meteorological, and emissions data for the purposes of evaluating and applying appropriate models; and determining control preferences
- * Adapt currently available (or, if necessary, develop new) emissions, prognostic meteorological, and photochemical models for the Lake Michigan basin
- * Evaluate the performance of the integrated LMOS modeling system
- * Deliver a technically credible modeling system to the Lake Michigan States
- * Apply the LMOS modeling system (and analyze the ambient measurements) to assess alternative control strategies, provide a regional attainment demonstration, and support revisions to the States' implementation plans