



U.S. ENVIRONMENTAL PROTECTION AGENCY
REGION 10
1200 SIXTH AVENUE
SEATTLE, WASHINGTON 98101

July 2, 1987

REPLY TO
ATTN OF:

ES-098

MEMORANDUM

SUBJECT: Model Clearinghouse Review of WYNDvalley Model

FROM: Robert B. Wilson *Rob*
Regional Meteorologist

TO: Joseph A. Tikvart, Chief
Source Receptor Analysis Branch, OAQPS

Attached are a memo and two reports related to an application of the WYNDvalley model to a valley stagnation problem in our Region. The first report, entitled "On Air-Quality Modeling in Complex Terrain, with Emphasis on WYNDvalley, A Dispersion Model for Near-Stagnant Flows," documents the WYNDvalley model and provides the technical basis for its application to the Methow Valley. The second report, "An Air-Quality Simulation of Total Suspended Particles in the Methow Valley of Okanogan County, Washington State," documents some recent modifications made to WYNDvalley, and describes the input and the results of the Methow Valley analysis.

Please have the Model Clearinghouse provide a technical review of the WYNDvalley model and its application to the type of air quality problem of which the Methow Valley is an example. Also, please comment on the appropriateness of the use of WYNDvalley for upcoming SIP revisions for PM₁₀, where valley stagnation conditions are critical. I would appreciate your response by August 3, 1987. (I will be on vacation the last two weeks of July.)

Attachments (3)

~~Werner~~
Tikvart *Steve*
Kern
Groil
met File