

README File For El Paso-Juarez Multi-Modal Study

The files listed in this section relate to multi-year emissions modeling studies of the El Paso, TX - Juarez, Mexico area. This research oriented project has been lead by the Instituto Municipal de Investigacion y Planeacion (IMIP) in Juarez, with guidance and support from the U.S. Environmental Protection Agency (EPA), the Texas Natural Resource Conservation Commission (TNRCC), the Texas Department of Transportation (TxDOT), and the Texas Transportation Institute (TTI). The information is presented as 12 technical memos within 3 technical phases; all 12 are in the Portable Document Format (PDF). The ABSTRACT file outlines the process and identifies a contact for technical inquiries concerning the data and techniques presented.

ABSTRACT For El Paso-Juarez Multi-Modal Study

Ciudad Juarez, Chihuahua and El Paso, Texas share a common airshed characterized by elevated desert terrain, low rainfall, and complex topography forming a basin that traps pollutants. In this basin, atmospheric pollutants migrate freely across the border under the influence of local winds. Several studies have been initiated over the past years in an effort to better understand and characterize the complex air quality issues in this area.

In this regard and as one of the most important research efforts in the region, the Instituto Municipal de Investigacion y Planeacion (IMIP) in Juarez, with guidance and support from the U.S. Environmental Protection Agency (EPA), the Texas Natural Resource Conservation Commission (TNRCC), the Texas Department of Transportation (TxDOT), and the Texas Transportation Institute (TTI), conducted an extensive and complex project entitled "Multimodal Transportation Study" (Estudio Integral de Transporte) in Ciudad Juarez. This multi-year project was intended to result in several travel-related research and planning tools for the Juarez area:

- 1) A fully documented travel survey for analysis of existing travel patterns
- 2) a street and transit system inventory
- 3) a validated/calibrated travel demand forecasting model set
- 4) an on-road mobile emissions model.

The data-gathering phase (Phase I) of the study was conducted during the spring and fall of 1996. The data-organizing and computer network development phase (Phase II) was conducted during 1997. Phase III, the transportation and emissions modeling phase, was conducted during 1998 and 1999. Through the end of 1999, this entire process has been documented in twelve technical memos

(EITII-01 to 05, and EITIII-01 to 05b, in english only). Each is presented as a PDF file.

The long-range goal of this effort is the development a regional trans-border transportation and emissions model for El Paso County, Southern Do±a Ana County, and the City of Juarez, which could be used to forecast travel behavior and corresponding air-quality under different scenarios of transportation infrastructure: a tool for transportation planning with environmental responsibility.

Since late 1999, additional work to combine the data bases and techniques from the two cities has continued. Current plans call for an integrated emissions model to be operational by the end of 2001.

For technical inquiries regarding the data and techniques presented in the twelve (12) PDF files resulting from this study, please contact:

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