

State Planning and Research Program

Project Title: Urban Mobility Study		
Project Manager and Phone Number: Kevin Lancaster Transportation Planning and Programming Division (512) 486-5149	Project No: SPR 3(049)	Project is: <input checked="" type="checkbox"/> PLANNING <input type="checkbox"/> RESEARCH & DEVELOPMENT
Budget for Voucher Period: \$215,000	Costs for Multi Year Project Estimated Budget for the 6-Year Project: \$1,305,000 Total Cost to Date: \$975,000	
Description of Work Performed and Progress: Developed and refined reliability measures. Reliability measure calculation procedures and measures were incorporated into a revised "Keys to Estimating Mobility" report. Procedures were tested with a variety of archived data systems in the 10-city Mobility Monitoring Program (MMP). Revisions will be tested with the 21 cities in the FY02 MMP. Measures were tested with several professional and technical conference presentations and with the public and media in the 2002 Annual Report. Continued to incorporate real-time travel speed and travel time data into the UMS methodology and database. The speed estimation process was improved with data from several computer model algorithms and data from the archived databases from 10 cities. Changes to the methodology included a separate process for peak and off-peak directions and development of curves instead of single speeds for each congestion level. Value of time and cost of congestion estimates were investigated as an associated issue and a technical memorandum was prepared. Incident location and duration, special event and weather databases were investigated for possible connections to the travel time and speed databases. While improvements have been made, no city has sufficient archived data coding that allows the relationship between "cause" and "effect" to be studied at this level. Made recommendations for applying multimodal mobility measures. Information gained during the FY01 applications and experience with the archived data have been incorporated into a revised "Keys" report. These included corridor, subarea and regional mobility measurements and also include both roadway and transit modes. While the pedestrian and bike travel data are not extensive as road or transit information, the procedures and measures can accommodate them as well. Issues of the severity of the problem as it is perceived by the public, how it relates to the objective measure data and associated topics such as "road rage" have also been studied. A technical memorandum has been prepared. The 2002 Annual Report used a variety of data sources to investigate several trends in mobility, and to present reliability issues. An additional report was planned for the Fall of 2002 concentrating on the effect of operational improvements and other modes for a few recent years. A combination of national data sources, local data and evaluation reports were used to describe the conditions as accurately as possible. Procedures being used in drafts of this methodology include the effects of roadways additions, ramp metering, signal coordination, incident management, and high-occupancy vehicle treatments. A transit component has been discussed with the American Public Transit Association. The release of this report has been delayed due to difficulty in securing and verifying data. Answered over 200 phone calls regarding UMS and the website have handled over 20,000 user sessions.		
STATUS AND COMPLETION DATE Percentage of work completed to date for total project Project is: ___% <input checked="" type="checkbox"/> on schedule _____ behind schedule, explain: Expected Completion Date: _____ on going study _____		

Project Manager