

SCOPE OF PROJECT

Metro Waste Authority (MWA) retained **BARKER LEMAR** to develop a truck-mounted tablet PC loaded with internet-based geographic information system (GIS) combined with a global positioning system (GPS) for collecting and analyzing curbside recycling participation data. The secondary goal of the project included improving the effectiveness and reducing the cost of MWA's residential curbside education and marketing efforts.



IMPLEMENTATION

The GIS database allowed MWA staff to efficiently target education and marketing materials. Parcel level data was analyzed and queries were run to develop mailing labels of nonparticipating households. Changes in set-out rates were tracked to evaluate the education material. In addition to the county wide implementation of this project, the GIS/GPS program was also used by the City of Des Moines to establish objective data regarding curbside participation, total bins collected, and count of homes recycling specific commodities. The data was used by Des Moines city officials to evaluate their bi-weekly collection program. **BARKER LEMAR** worked directly with MWA and the City of Des Moines to customize the GIS/GPS program to successfully meet the pilot study's goals.



SERVICES

Development of customized reports; server download interface screen; paperless weight ticket; training; training manuals; custom reporting.

TIMELINE

Project Start Date: March 2002

Project Completed: July 2003