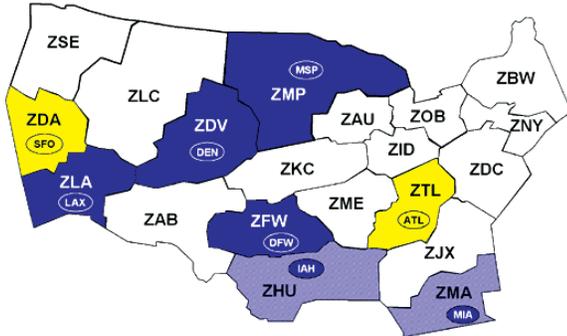


TMA Benefits Review

October 2003

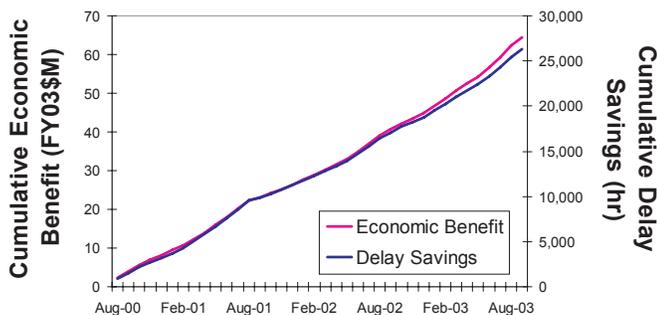
Overview



■ Traffic Management Unit Only
 ■ Time-based metering
 ■ In transition to time-based metering

- Traffic Management Advisor (TMA) is in place at 8 centers and will be implemented at 3 additional sites as part of Free Flight Phase 2.
- Initially TMA is used in the Traffic Management Unit as a strategic planning tool and has:
 - ◆ Reduced delay for internal departures (flights departing to an airport from within the center);
 - ◆ Redistributed delay from lower to higher, more fuel-efficient altitudes.
- Sites with time-based metering show **increased capacity of 3-5% during peak-periods.**

Monthly Measures



Benefits for the following centers/airports: ZMP/Minneapolis-St. Paul International; ZDV/Denver International; ZLA/Los Angeles International and ZTL/Hartsfield Atlanta International.

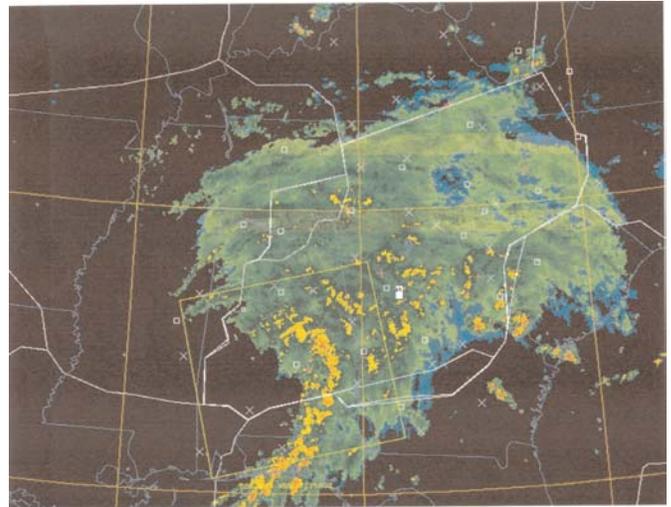
Does not include ZFW/DFW, where the NASA prototype TMA has saved users more than \$43M since 1996.

Highlights

TMA Helps ZTL During Bad Weather

On July 1, 2003, at about 0800 local time, Atlanta Hartsfield's (ATL) southwest arrival fix was blocked by weather. Traffic was rerouted to the northwest and southeast arrival fixes. The Atlanta TRACON specified an arrival rate of 80 while TMA projected an arrival rate of 84. Despite restrictions within the TRACON airspace, ATL operated at an arrival rate of 85, consistent with TMA predictions. Thus by using the TMA optimized scheduler, Atlanta Center was delivering five aircraft per hour, or 6%, more than the airport arrival rate called by the TRACON.

Severe weather at Atlanta Hartsfield International Airport



ZLA/ZOA Adjacent Center Data Feed

The Los Angeles Center (ZLA) TMA is now sharing data with Oakland Center (ZOA), which allows TMA to better estimate arrival and metering times. ZLA controllers also have a view of ZOA airspace producing improved coordination and reduced restrictions. Additionally, ZOA traffic managers can use the TMA timeline graphical user interface to schedule the release of departures bound for Los Angeles International (LAX). This capability has reduced departure and en route delays for ZOA departure releases into LAX arrival streams.

