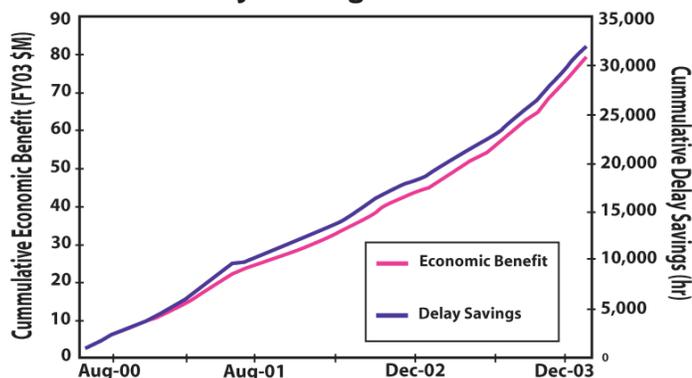


# TMA Benefits Review

February 2004

## Monthly Measures

### Delay Savings with TMA



Benefits are for the following centers/airports:

- ZMP/Minneapolis-St. Paul International,
- ZDV/Denver International,
- ZLA/Los Angeles International and,
- ZTL/Hartfield Atlanta International.

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

## Highlights

### Chicago is next site for TMA

In an effort to help manage delays at Chicago O'Hare, Traffic Management Advisor (TMA) will be implemented over the upcoming year, with initial daily usage beginning September 2005. TMA is expected to help make better use of Chicago's existing capacity. The TMA benefit analysis for Chicago shows that a 2% increase in the use of Chicago's capacity could reduce delays by more than 10%. TMA's capability to work across center boundaries with adjacent center data feed will increase TMA's effectiveness in reducing miles in trail restrictions in upstream centers.

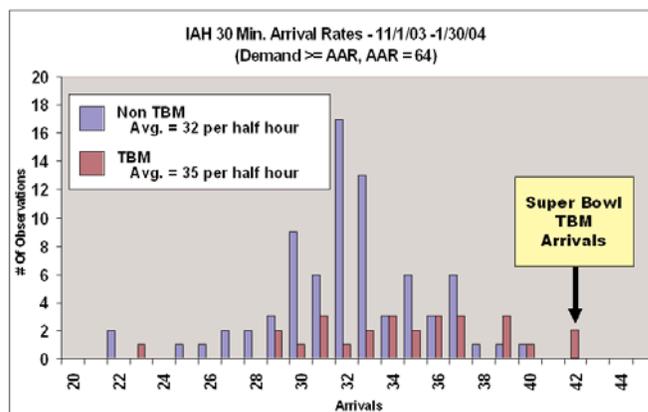
### Ft. Lauderdale uses Time-Based Metering for first time

Miami Center Controllers have begun using TBM for arrivals into Ft. Lauderdale Airport. There have been 11 TBM trial runs at Ft. Lauderdale Airport between January 6 and January 28, 2004. This is the first time that TBM has been used for a secondary airport within a center.

## Houston TMA and the Super Bowl

Time Based Metering (TBM) using TMA was a huge success in managing the increased traffic headed to Houston International Airport (IAH) for the Super Bowl. Between Thursday, January 29th and Sunday February 1st, IAH experienced a significant increase in demand and TBM was used for all heavy arrival demand periods. According to Jim Bull, the Traffic Management Coordinator from the Houston Center, CTAS did a good job even under very unusual wind conditions.

Specific measured highlights include the performance of the time-based-metering to IAH on January 30th between 5PM and 8PM. During this time IAH landed the two highest 30-minute peak arrival rates measured over the last 3 months for the same conditions (see chart below).



The combination of increased demand and weather limitations on capacity could have been a recipe for major delays. ZHU had only one reported delay on an internal aircraft going to IAH.

Jim D'Ambrosio, ZHU Air Traffic Manager said:

*"Many positive kudos on super bowl ops... SWA said their operation at HOU ran NORMAL all weekend and that was incredible considering HOU's proximity to the TFR and SB38 Ops. Overall, outstanding job!!!!"*

In addition, aircraft are being metered not only from within Houston Center but also from DFW Center, an adjacent center. This is the first implementation of time based metering from an adjacent center, which will further reduce unnecessary restrictions and increase efficiency.

