

Presentation of the Aviation System Performance Metrics System (ASPM)

Presented to: Customer Satisfaction Metrics Work Group

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File: Apo130\Customer Satisfaction\ASPM Overview.ppt



**Federal Aviation
Administration**



ASPM and Other Reporting Systems

ASQP	ASPM	OPSNET
Data from 19 carriers provided monthly for all domestic flights	Data available for all carriers at 75 airports	Count of operations provided for towers, centers and TRACONS
Actual out of the gate, off the runway, on the runway and in the gate time (OOOI) provided	On a next day basis, OOOI data provided for 9 carriers (6 ASQP carriers plus FedEx, UPS and Air Canada)	Delays over 15 consecutive minutes (clock starts when flight comes under FAA control) are provided
Causal information provided for flights arriving 15 minutes or more past schedule (available from June 2003)	ASPM imports ASQP data when it is available, usually 25 days after the end of the month	Delays are those that are attributable to the National Airspace System (NAS) and weather
Percent on-time based on flights scheduled (counts cancelled and diversions as delayed)	Percent on-time based on flights flown (cancelled flights and diversions not included)	Causes of delays are provided (weather, volume, equipment, runway, other)
		Trends should be the same as ASPM or ASQP but count of delays and percent of operations delayed are not comparable
		Count of delays are assigned to the facility where the cause occurred not where the delay occurred



ASPM Overview

What is it?

✈ Integrated database of air traffic operations, airline schedules, operations and delays, weather information, runway information, and related statistics.

What is it used for?

✈ Reporting and analysis of operating performance of the National Airspace System (NAS).

Major Benefits:

✈ Internet interface to allow for quick analysis of large amount of operational data.

✈ System provides the capability to download data to individual analysts' workstations for further study.

Features:

✈ Data are available from January 2000 to present for 55 airports. Data for additional 20 airports are available from October 2004 to present.

✈ Actual traffic and airport information is confidential and access is restricted by password.

✈ Data come from ARINC's Out-Of-On-In (OOOI), Enhanced Traffic Management System (ETMS), US Department of Transportation's Aviation's Airline Service Quality Survey (ASQP), weather data, airport arrival and departure rates (15-interval), airport runway configurations and cancellations.



ASPM Overview

✈ Arrival/departure rates and runway configuration data are available from January 1, 2000 to present. Delay information is available from January 1, 1998 to present. Data are Internet-accessible by 0700 each week day.

✈ OOOI data are available for American, Air Canada, Continental, Delta, FedEx, Northwest, United, United Parcel Service and US Airways on a next day basis from ARINC. AirTran, Alaska, America West, American Eagle, ATA, Atlantic Southeast, Comair, ExpressJet, Frontier, Hawaiian, Independence, JetBlue, Skywest, and Southwest provide OOOI data through DOT On-Time system.



ASPM Definitions

On-Time = Departures/Arrivals less than 15 minutes late when compared to Schedule.

Delayed = Departures/Arrivals 15 minutes or more late when compared to Schedule.

Taxi-Out = Actual Taxi-Out Time minus Unimpeded Taxi-Out Time.

Airborne = Actual Airborne Time minus Carrier Submitted Time Enroute.

Taxi-In = Actual Taxi-In Time minus Unimpeded Taxi-In Time.

Gate = Actual Gate Departure Time minus Scheduled Departure Time.

Airport Departure = Actual Off Time minus (Scheduled Gate Departure Time plus Unimpeded Taxi-Out Time).

Block = Actual Gate-to-Gate minus Scheduled Gate-to-Gate.

Arrival = Actual Arrival Time minus Scheduled Time.



ASPM Interface



ASPM Management Report

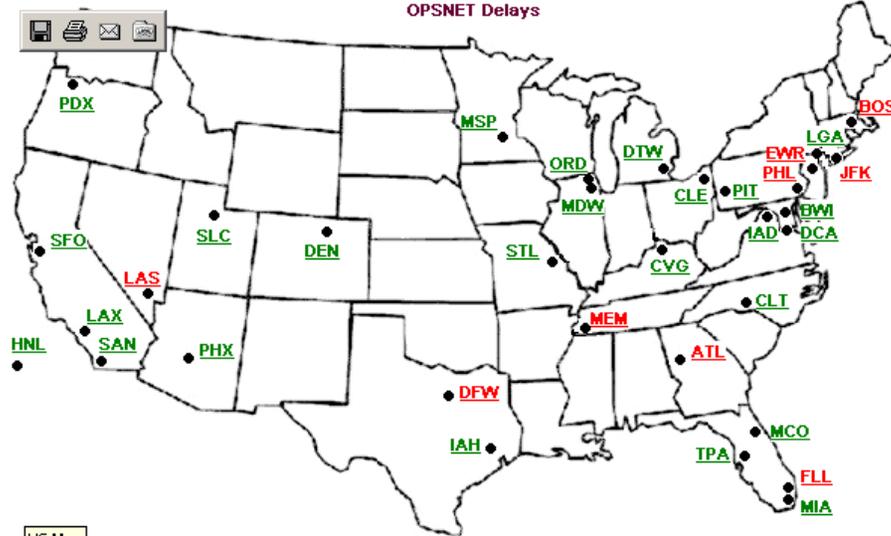
Aviation System Performance Metrics (ASPM)

Select a Different Operations & Performance Application

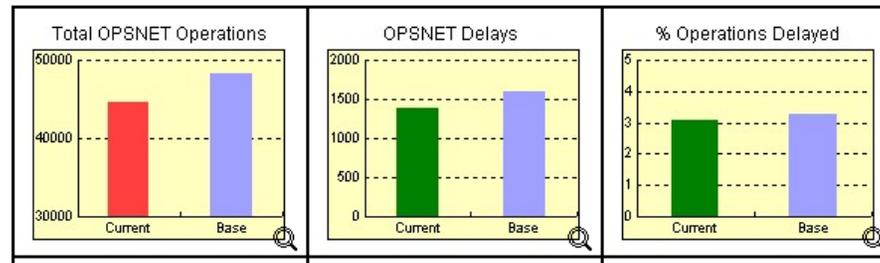
- Management Reports
- Flash Reports
- Airport Comments
- Key Delay Indicators
- Airport Efficiency
- AAR/ADR Calculator
- Analysis
- Causality
- Weather Factors
- Enroute
- Taxi Times
- Individual Flights
- Cancelled Flights
- Download
- Data Reference Guide
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Aviation System Performance Metrics (ASPM) From 9/15/2005 To 9/15/2005

OPSNET Delays



US Map



ASPM Management Report



Federal Aviation Administration

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Aviation System Performance Metrics (ASPM)

Select a Different Operations & Performance Application

Aviation System Performance Metrics (ASPM)

- Management Reports
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Airport : PHX Carrier : ALL Dates : From 9/18/2005 To 9/18/2005

% On Time Operations		Traffic Counts		Facility Reported Operations *			
Departures	81.35%	Scheduled Operations	1275	Air Carrier	1104		
Arrivals	84.37%	Canceled Departures	3	Air Taxi	286		
Weather		Canceled Arrivals	6	General Aviation	190		
IA - Instrument Approach Conditions		Diversions		Military	8		
VA - Visual Approach Conditions		Times (Average Minutes)		Total	1588		
Arrivals		Departures from PHX:		Opsnet Delays			
IA		Gate Delay	8.40	Departure	22	Weather	0
VA		Taxi Out Delay	6.17	Arrival	0	Volume	0
Efficiency		Arrivals to PHX:		Enroute	0	Equipment	0
Airport	98.71	Airborne Delay	3.17	TMS	0	Runway	22
Departure	98.06	Taxi In Delay	0.94	Total	22	Other	0
Arrival	99.40	Block Delay	1.71	% Ops. Delayed	1.39	Total	22
Capacity		Arrival Delay : All Flights	6.70	Average Delay	17		
Arrival	1799	Arrival Delay : Delayed Flights	33.57				
Departure	1440			Delays		Minutes	
Total	3239			Ground Stop	0	0	
				EDCT	0	0	

* - Data for all operations (AC,AT,GA,MIL)



ASPM Flash Reports


Federal Aviation Administration
[Back to FAA Operations & Performance Data Home](#)

Aviation System Performance Metrics (ASPM) Select a Different Operations & Performance Application ▾ ▶

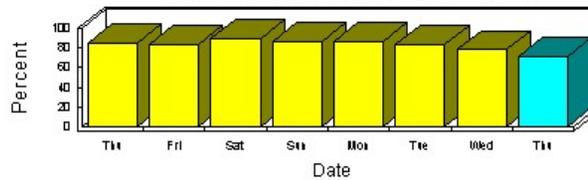
- [Summary Analysis](#)
- [On-Time Performance](#)
- [Excess Times](#)
- [Average Times](#)
- [Block/Enroute Efficiency](#)
- [Cancellations](#)
- [Airport Efficiency](#)
- [OAG Schedule vs. VFR Optimum rate](#)
- [Main ASPM Menu](#)
- [Metric Definitions](#)

Reporting Period From 9/15/2005 To 9/15/2005

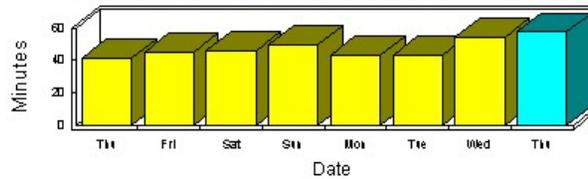
Carrier : [Change Dates](#)

Summary Analysis For All Carriers At The 35 OEP Airports For 9/15/2005 And The Prior Week 9/8/2005 To 9/14/2005

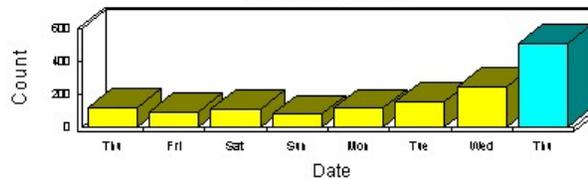
% On Time Airport Arrivals (Based on Scheduled)



Average Gate Arrival Delay for Delayed Flights (Based on Scheduled)



Arrival Cancellations



■ Current Day (9/15/2005)
 ■ Prior Week (9/8/2005 To 9/14/2005)



ASPM Key Delay Indicators

The screenshot shows the ASPM Key Delay Indicators web application. At the top, there is a navigation bar with the Federal Aviation Administration logo and the text "Federal Aviation Administration" and "Back to FAA Operations & Performance Data Home". Below this, there is a search bar with the text "Aviation System Performance Metrics (ASPM)" and a dropdown menu labeled "Select a Different Operations & Performance Application".

The main content area is titled "Key Delay Indicators" and contains a calendar for September 2005. The calendar shows the following dates: Sun 4, Mon 5, Tue 6, Wed 7, Thu 8, Fri 9, Sat 10, Sun 11, Mon 12, Tue 13, Wed 14, Thu 15, Fri 16, Sat 17, Sun 18, Mon 19, Tue 20, Wed 21, Thu 22, Fri 23, Sat 24, Sun 25, Mon 26, Tue 27, Wed 28, Thu 29, Fri 30. The "Selected Dates" field contains "9/15/05". There are buttons for "Select All Days" and "Reset Dates".

Below the calendar, there are several radio button options for data selection:

- DOT Indicators
- Comments Only
- ATO Indicators
- Operational Data
- Time Series
- Custom List
- OEP 35

On the right side, there are radio button options for report frequency:

- Web Daily
- Daily
- Weekly
- Month to Date
- Monthly

At the bottom of the main content area, there is a "Run Report" button and a checkbox for "Definitions". A status bar at the bottom of the main content area indicates "52 Graph Weeks loaded."

[Click Here To Edit Key Delay Indicator Comments](#)

ASPM Airport Efficiency

Windows taskbar icons: back, forward, stop, home, refresh, search, print, help, etc.

 **Federal Aviation Administration**

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Aviation System Performance Metrics (ASPM)

Select a Different Operations & Performance Application

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Airport Efficiency

ASPM 75 Reset

Yearly Monthly Daily Range

Find: DEP 35 Metro 8 Metro 8 FY 06

ABQ - Albuquerque Intl Sunport
ANC - Ted Stevens Anchorage Intl
ATL - Hartsfield-Jackson Atlanta Intl
AUS - Austin-Bergstrom Intl
BDL - Bradley Intl

System Airport Throughput Adjusted

Airport By Period Ranking
 Summary By Hour Comparison
 Graph By Qtr.Hour Configuration
 Counts AAER Goal IMC VMC %
 Detail Roll 30 Min AAR ADR %

Actual>Rate Actual<Rate Taxi Times
 Rate>Optim. Rate<Redu. Actual<Dem.
 Frequency Capacity Schedule
 AER Delays Analysis

Weather Conditions: 24 Hours
All 07:00 - 21:59

Runway Configuration: All

No Pagebreak
 Definitions

Run Report

219 aircrafts loaded.

Sun	Mon	Tue	Wed	Thu	Fri	Sat	Selected Dates
				1	2	3	
4	5	6	7	8	9	10	
11	12	13	14	15	16	17	
18	19	20	21	22	23	24	
25	26	27	28	29	30		

<< September 2005 >> Reset Dates



ASPM Airport Efficiency

Daily Airport Efficiency By Period Report

From 9/6/2005 To 9/6/2005 : 'ATL'

Airport	Scheduled Departure Date	Departures For Efficiency Computation	Arrivals For Efficiency Computation	Total For Efficiency Computation	OPSNET Operations	% ASPM Of OPSNET	Departure Demand	Arrival Demand	Total Demand	ADR	AAR (ADR+AAR)	% Capacity Utilized	Departure Efficiency	Arrival Efficiency	Airport Efficiency	
ATL	09/06/2005	1291	1284	2575	2561	100.55	1303	1356	2659	2304	2195	4499	57.23	99.46	97.73	98.58
Total		1291	1284	2575	2561	100.55	1303	1356	2659	2304	2195	4499	57.23	99.46	97.73	98.58



ASPM AAR/ADR Calculator

The screenshot shows the ASPM AAR/ADR Calculator web application. At the top, there is a navigation bar with the Federal Aviation Administration logo and the text "Federal Aviation Administration" and "Back to FAA Operations & Performance Data Home". Below this, there is a dropdown menu for "Select a Different Operations & Performance Application".

The main content area is titled "AAR / ADR Calculator" and includes a sidebar with a list of navigation links:

- Management Reports
- Flash Reports
- Airport Comments
- Key Delay Indicators
- Airport Efficiency
- AAR/ADR Calculator
- Analysis
- Causality
- Weather Factors
- Enroute
- Taxi Times
- Individual Flights
- Cancelled Flights
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The main calculator interface includes the following elements:

- Find:** A search box with a list of airports: ABQ - Albuquerque Intl Sunport, ANC - Ted Stevens Anchorage Intl, ATL - Hartsfield-Jackson Atlanta Intl, AUS - Austin-Bergstrom Intl, BDL - Bradley Intl, BHM - Birmingham Intl, RNA - Nashville Intl.
- Frequency:** Radio buttons for Yearly, Monthly, Daily (selected), and Range.
- Calendar:** A calendar for September 2005 with a "Selected Dates" box and "Reset Dates" button.
- Filters:** Dropdown menus for Weather Conditions, Runway Configuration, Wind Speed, Wind Direction, Ceiling, and Visibility, all set to "All".
- Counting Method:** Radio buttons for Efficiency Counts (selected), Facility Counts, Hourly, Qtr Hour, and Rolling 30.
- Graph Boundary Values:** Input fields for Dep and Arr.
- Data Selection:** Radio buttons for All Data (selected), Demand/Actual > AAR/ADR, and Demand/Actual < AAR/ADR.
- Buttons:** "Run Report" and "Definitions".
- Report Type:** A dropdown menu set to "Summary".
- Status:** A "Ready." indicator at the bottom.



ASPM Analysis

The screenshot shows the ASPM Analysis web application interface. At the top, there is a navigation bar with the Federal Aviation Administration logo and the text "Federal Aviation Administration" and "Back to FAA Operations & Performance Data Home". Below this, the page title is "Aviation System Performance Metrics (ASPM)" and there is a dropdown menu for "Select a Different Operations & Performance Application".

On the left side, there is a list of navigation links:

- Management Reports
- Flash Reports
- Airport Comments
- Key Delay Indicators
- Airport Efficiency
- AAR/ADR Calculator
- Analysis
- Causality
- Weather Factors
- Enroute
- Taxi Times
- Individual Flights
- Cancelled Flights
- Download
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The main content area is titled "Analysis" and contains several sections:

- Carrier:** A dropdown menu set to "All".
- Exclude:** A checkbox that is unchecked.
- Time Range:** Radio buttons for "Yearly", "Monthly", "Daily" (selected), and "Range".
- Find:** A search box with "ASPM" entered.
- ASPM:** A dropdown menu with "OTH", "AAL", "ACA", "AMT", "ASA", "AWE", and "BLR" options.
- Filters:** "M 55" and "DEP 35" with a "Reset" button.
- Calendar:** A calendar for September 2005 with "Selected Dates" set to "9/7/05".
- Analysis Type:** Radio buttons for "All" (selected) and "Oceanic".
- Analysis Options:** Radio buttons for "Airport", "City Pair", "Summary", "Graphs", "Analysis: All Flights" (selected), "Analysis: Delayed Flts", "EDCT", "ETMS", "Schedule", "Weather", and "Delay Counts".
- Period:** Radio buttons for "Period" (selected), "Hourly", and "Qtr. Hour".
- Ranking:** Radio buttons for "Ranking" (selected) and "Comparison".
- Include Early Flights:** A checkbox that is unchecked.
- Use Fit Plan:** A radio button that is unchecked.
- Use Sched.:** A radio button that is selected.
- No Pagebreak Definitions:** A checkbox that is unchecked.
- Run Report:** A button.

At the bottom of the analysis section, it says "219 Aircrafts loaded."

ASPM Analysis

Analysis By Airport Report

From 01/2005 To 08/2005 : 'IAD'

Scheduled Departure Date	Scheduled Departures Airport	Scheduled Arrivals	Departures For Metric Computation	Arrivals For Metric Computation	Canceled Departures	Canceled Arrivals	% On-Time Gate Departures	% On-Time Airport Departures	% On-Time Gate Arrivals	Gate Departure Delay	Taxi Out Delay	Airport Departure Delay	Airborne Delay	Taxi In Delay	Block Delay	Gate Arrival Delay	
Jan-05	IAD	21074	21023	21067	21259	940	924	68.58	59.47	69.93	18.19	6.08	23.05	4.7	1.8	4.21	18.39
Feb-05	IAD	17541	17502	18642	18861	219	199	74.88	63.73	76.99	14.47	7.08	19.99	4.08	1.66	3.43	13.12
Mar-05	IAD	19635	19590	20879	21147	264	200	73.73	65.26	77.77	14.51	6.09	18.96	4.33	1.65	3.34	12.86
Apr-05	IAD	19049	19023	20375	20693	234	217	78.43	71.52	81.61	11.6	4.97	14.94	3.99	1.61	2.92	10.71
May-05	IAD	19548	19525	21095	21352	160	124	75.8	66.07	78.87	12.77	5.94	17.12	4.7	1.53	3.49	11.18
Jun-05	IAD	18813	18801	19904	20106	446	420	68.1	58.72	70.42	21.54	6.86	27.12	4.19	1.92	4.44	19.91
Jul-05	IAD	19582	19582	20489	20684	497	467	65.81	57.08	68.1	22.98	6.79	28.55	4.53	1.94	4.8	22.02
Aug-05	IAD	19515	19520	20281	20253	166	141	72.44	67.02	76.39	15.25	4.41	17.72	4.33	2.13	2.68	13.04
Total		154757	154566	162732	164355	2926	2692	72.21	63.61	75.01	16.41	6.02	20.92	4.36	1.78	3.67	15.15

Compared to Scheduled



ASPM Causality

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Aviation System Performance Metrics (ASPM)

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Causality

Carrier: Exclude

Find:

Yearly Monthly Daily

Sun	Mon	Tue	Wed	Thu	Fri	Sat	Selected Dates
					1	2	7/21/05
3	4	5	6	7	8	9	
10	11	12	13	14	15	16	
17	18	19	20	21	22	23	
24	25	26	27	28	29	30	
31							

<< July 2005 >>

Airport By Period Ranking
 Summary By Hour Comparison

Weather Conditions:
Runway Configuration:

Delayed Minutes
 Delayed Flights
 Cancellations

No Pagebreak
 Definitions

10 runways loaded.



ASPM Causality

ASPM : Causality : On-Time NAS By Period Report (Schedule)

From 01/2005 To 01/2005 : 'BOS'

Date	Total Flights	On Time		On Time When Extreme Weather Is The Only Factor		On Time When Carrier Cause Is The Only Factor		On Time When NAS Cause Is The Only Factor		On Time When Security Cause Is The Only Factor		NAS Cause And Prorated Late Arrival		Carrier Cause And Prorated Late Arrival	
		Flights	Percent	Flights	Percent	Flights	Percent	Flights	Percent	Flights	Percent	Flights	Percent	Flights	Percent
Jan-05	9689	6742	69.58	9503	98.08	8978	92.66	8122	83.83	9684	99.95	7706	79.53	8750	90.31
Overall	9689	6742	69.58	9503	98.08	8978	92.66	8122	83.83	9684	99.95	7706	79.53	8750	90.31

*** ASQP Carriers Only ***



ASPM Weather Factors

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Aviation System Performance Metrics (ASPM)

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Weather Factors

Scenario: Default

Find: ASPM 75 DOT 32 OEP 35 Reset

ABQ - Albuquerque Intl Sunport
ANC - Ted Stevens Anchorage Intl
ATL - Hartsfield-Jackson Atlanta Intl
AUS - Austin-Bergstrom Intl
BDL - Bradley Intl

Yearly Monthly Daily Range

Sun	Mon	Tue	Wed	Thu	Fri	Sat	Selected Dates
				1	2	3	9/13/05
4	5	6	7	8	9	10	
11	12	13	14	15	16	17	
18	19	20	21	22	23	24	
25	26	27	28	29	30		
<< September 2005 >>							
Reset Dates							

Delays
 On-Time
 Efficiency
 Arrival Efficiency
 History
 Forecast
 Percent
 Frequency
 Comparison
 Details
 Scenario
 Validation

Weather Conditions: All
Runway Configuration: All
Factor Variables: Overall Impacting Conditio
Overall Impacting Conditio
Enroute Thunderstorms
ASPM Enroute Excess Tim
ASPM Enroute Excess Mil
Hourly Airport Rates (AAR
Thunderstorms Within 50 M
Severity of Local Weather
Number of Hourly OPSNE

By Period
 By Hour
 Sum By Period
 Sum By Airport
 Overall Sum

Schedule
 Flight Plan

Combine Impacts
 No Pagebreak
 Definitions

Run Report

3 runways loaded.

[Create/Edit Scenario](#)



ASPM Weather Factors

Weather Factors Delays By Period Report - Scenario : Default

From 9/6/2005 To 9/6/2005 : 'JFK' : Factor - Overall Impacting Conditions

Airport	Scheduled Departure Date	Impact	Sch Dep's	Sch Arr's	%Sch Ops	%On-Time Departures	%On-Time Arrivals	Avg Delay For All Dep's	Avg Delay For All Arr's	Avg Delay For Delayed Dep's	Avg Delay For Delayed Arr's	Avg Taxi-Out Delay	Avg Taxi-Out Time	Avg Airborne Delay	Avg Taxi-In Delay	Dep Canc	%Dep Canc	Arr Canc	%Arr Canc	
JFK	09/06/2005	None	473	471	100	73.46	76.7	14.17	14.51	48.18	54.81	13.06	28.06	3.58	4.76	0	0	2	0.42	
		Minor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Moderate	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Severe	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		All	473	471	100	73.46	76.7	14.17	14.51	48.18	54.81	13.06	28.06	3.58	4.76	0	0	2	0.42	
Total		None	473	471	100	73.46	76.7	14.17	14.51	48.18	54.81	13.06	28.06	3.58	4.76	0	0	2	0.42	
		Minor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Moderate	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Severe	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		All	473	471	100	73.46	76.7	14.17	14.51	48.18	54.81	13.06	28.06	3.58	4.76	0	0	2	0.42	

Compared to Scheduled



ASPM Enroute

Aviation System Performance Metrics (ASPM)

Select a Different Operations & Performance Application

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Enroute Arrival Airport City Pair Yearly Monthly Daily Range

Departure : ATL - Hartsfield-Jackson Atlanta Intl

Arrival : BOS - Boston Logan Intl

Aircraft: MD80 - Boeing (Douglas) MD 80 Series

Carrier : DAL Flight Number:

Sun	Mon	Tue	Wed	Thu	Fri	Sat	Selected Dates
				1	2	3	9/21/05
4	5	6	7	8	9	10	
11	12	13	14	15	16	17	
18	19	20	21	22	23	24	
25	26	27	28	29	30		

<< September 2005 >> Reset Dates

Local Arrival Hour From: To:

Order By : City Pair

Excess Time Excess Miles

Ratio Time Ratio Miles

GCR Distance	Min	Max
Excess Time Flown		
Excess Miles Flown		
Actual Time /Unimpeded		
Actual Miles / GCR		
Time Flown - Unimpeded		
Average Speed		

Reports: Flight Identification No Pagebreak Definitions Run Report

219 Air

- Flight Identification
- Detail
- Summary By Period
- Summary By Carrier
- Summary By Aircraft
- Summary By Hour
- Summary By Qtr.Hour
- Statistical



ASPM Enroute

City Pair Enroute Detail Report

From 8/18/2005 To 8/18/2005 : Departure='ATL' Arrival='BOS'
 (Excess Time Method : Base Month)

[Flight Identification \(Map It\)](#)

	<u>Departure Information</u>		<u>Arrival Information</u>		
	40 Mile from Departure Airport		Midpoint to 200 Mile		
Carrier Code					
Flight Number		Crossing Time	22:52	Crossing Time	00:07
Flight Index	50062	Time Flown	8.58	Time Flown	26.63
ETMS Equipment Code	B712	Latitude	33.83332	Latitude	40.20000
User Class	C	Longitude	-83.53333	Longitude	-74.40000
Physical Class	J	Distance Flown	46.57	Distance Flown	212.22
Departure Airport	ATL	Average Speed	325.66	Average Speed	478.15
Arrival Airport	BOS	Ratio Miles and GCR Distance	1.16	Ratio Miles and GCR Distance	1.01
Actual Arrival Date	08/18/2005	Flight Level	148	Flight Level	296
Enroute Data (100 mile to 100 mile)		Distance from GCR	21.33	Distance from GCR	12.71
Enroute Time Flown	78.89	Excess Time Flown	1.00	Excess Time Flown	0.00
Excess Time Flown	3.02	Excess Miles Flown	6.57	Excess Miles Flown	1.85
Ratio Time Flown and Unimpeded Time	1.04			Sum degrees turn clockwise	45.1
Enroute Time Minus Unimpeded Time	3.02			Sum degrees turn counter clockwise	41.7
Unimpeded Time	75.87	40 Mile to 100 Mile		200 Mile to 100 Mile	
Enroute Miles Flown	625.19	Crossing Time	23:01	Crossing Time	00:20
Excess Miles Flown	4.56	Time Flown	8.92	Time Flown	12.73
Ratio Miles Flown and GCR Distance	1.01	Latitude	34.43333	Latitude	41.25000
Average Speed	475.49	Longitude	-82.55000	Longitude	-72.68332
Unimpeded Speed	496.41	Distance Flown	61.2	Distance Flown	100.67
Average Speed Deficit	20.91	Average Speed	411.66	Average Speed	474.49
Ratio Average Speed and Unimpeded Sp	0.96	Ratio Miles and GCR Distance	1.02	Ratio Miles and GCR Distance	1.01
GCR Distance	620.63	Flight Level	259	Flight Level	213
City Pair Data (Airport to Airport)		Distance from GCR	28.03	Distance from GCR	9.11
Time Flown	128.55	Excess Time Flown	0.00	Excess Time Flown	0.00
Miles Flown	847.3	Excess Miles Flown	1.20	Excess Miles Flown	0.67
Average Speed	395.47	Sum degrees turn clockwise	28.2	Sum degrees turn clockwise	34.4
GCR Distance	820.63	Sum degrees turn counter clockwise	49.4	Sum degrees turn counter clockwise	15.2



ASPM Enroute

City Pair Enroute Detail Report

From 8/18/2005 To 8/18/2005 : Departure='ATL' Arrival='BOS'

(Excess Time Method : Base Month)

Departure Airport to 40 Miles from Arrival		100 Mile to 200 Mile		100 Mile to 40 Mile	
Excess Time Flown	1.00	Crossing Time	23:14	Crossing Time	00:28
Excess Miles Flown	13.40	Time Flown	13.03	Time Flown	8.45
		Latitude	35.43333	Latitude	41.70000
		Longitude	-80.93332	Longitude	-71.46666
		Distance Flown	100.45	Distance Flown	61.26
		Average Speed	462.55	Average Speed	434.98
		Ratio Miles and GCR Distance	1.00	Ratio Miles and GCR Distance	1.02
		Flight Level	330	Flight Level	113
		Distance from GCR	36.11	Distance from GCR	20.04
		Excess Time Flown	0.00	Excess Time Flown	0.00
		Excess Miles Flown	0.00	Excess Miles Flown	1.26
		Sum degrees turn clockwise	28.1	Sum degrees turn clockwise	33.3
		Sum degrees turn counter clockwise	34	Sum degrees turn counter clockwise	46.8
		200 Mile to Midpoint		40 Mile to Arrival Airport	
		Crossing Time	23:40	Time Flown	23.72
		Time Flown	26.48	Distance Flown	53.08
		Latitude	37.68333	Average Speed	134.27
		Longitude	-77.58332	Ratio Miles and GCR Distance	1.33
		Distance Flown	211.85	Sum degrees turn clockwise	31.2
		Average Speed	480.02	Sum degrees turn counter clockwise	263.8
		Ratio Miles and GCR Distance	1.01		
		Flight Level	330		
		Distance from GCR	38.9		
		Excess Time Flown	0.00		
		Excess Miles Flown	1.85		
		Sum degrees turn clockwise	56.3		
		Sum degrees turn counter clockwise	62.1		



ASPM Taxi Times

Federal Aviation Administration

Back to FAA Operations & Performance Data Home

Aviation System Performance Metrics (ASPM) Select a Different Operations & Performance Application

- Management Reports
- Flash Reports
- Airport Comments
- Key Delay Indicators
- Airport Efficiency
- AAR/ADR Calculator
- Analysis
- Causality
- Weather Factors
- Enroute
- Taxi Times
- Individual Flights
- Cancelled Flights
- Download
- Data Reference Guide
- Information

Taxi Times Yearly Monthly Daily Range

Unimpeded Average Graphs

By Period By Hour By Qtr. Hour By Facility By Carrier Summary By Period

Carrier: All Exclude

Find: ASPM 75 DOT 32 OEP 35 Reset

ABD - Albuquerque Intl Sunport
ANC - Ted Stevens Anchorage Intl
ATL - Hartsfield-Jackson Atlanta Intl
AUS - Austin-Bergstrom Intl
BDL - Bradley Intl
BHM - Birmingham Intl

Sun	Mon	Tue	Wed	Thu	Fri	Sat
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	

Selected Dates: 9/22/05

No Pagebreak Definitions

Run Report

<< September 2005 >> Reset Dates

27 carriers loaded.



ASPM Taxi Times

Average Taxi Times By Period : Summary

From 01/2005 To 03/2005

Airport: MSP

Scheduled Departure Date	Departures For Metric Computation	Total Taxi Out Time	Departures With Taxi Out Time (Minutes)								Average Taxi Out Time	Arrivals For Metric Computation	Total Taxi In Time	Average Taxi In Time	
			20-39	40-59	60-119	120-179	≥180	≥40	≥40(%)	<40					≥90
Jan-05	20401	403719	5850	683	285	33	4	1005	4.93	19396	92	19.79	20238	118358	5.85
Feb-05	19635	358580	5291	436	55	1	0	492	2.51	19143	6	18.26	19522	104773	5.37
Mar-05	22253	401554	5823	421	113	10	0	544	2.44	21709	26	18.04	22149	126889	5.73
Total	62289	1163853	16964	1540	453	44	4	2041	3.28	60248	124	18.68	61909	350020	5.65



ASPM Individual Flights

The screenshot shows a Microsoft Internet Explorer browser window displaying the ASPM Individual Flights application. The address bar shows the URL: <http://www.apo.data.faa.gov/aspm/ASPMframe.asp>. The browser's menu bar includes File, Edit, View, Favorites, Tools, and Help. The address bar also contains a search engine dropdown (Google) and a search input field. The main content area features the Federal Aviation Administration logo and the text "Federal Aviation Administration" on the left, and a link "Back to FAA Operations & Performance Data Home" on the right. Below this is a section titled "Aviation System Performance Metrics (ASPM)" with a dropdown menu for "Select a Different Operations & Performance Application". A sidebar on the left lists various reports and tools, including Management Reports, Flash Reports, Airport Comments, Key Delay Indicators, Airport Efficiency, AAR/ADR Calculator, Analysis, Causality, Weather Factors, Enroute, Taxi Times, Individual Flights (highlighted), Cancelled Flights, Download, Data Reference Guide, and Information. The main content area displays the "Individual Flights" form, which includes radio buttons for "City Pair" (selected) and "Airport". The form contains several input fields and dropdown menus for Carrier ID, Flight Number, Departure, Arrival, Tail No, Aircraft, OAG, ETMS, ARINC, Fit.Type, Oceanic, and User Class. There are also checkboxes for "No Pagebreak" and "Definitions". A "Block Times Report" dropdown is present, along with "Run Report" and "Reset All" buttons. A status message at the bottom of the form indicates "219 aircrafts loaded." The browser's status bar at the bottom shows "Applet LevelStuffASP started" and "Internet".



ASPM Individual Flights

Flight per Page Report

Departure: DFW Arrival: LAX
 Dep. Date From 08/17/2005 To 08/17/2005

Flight Identification

Carrier Code
 Flight Number
 Tail Number *****
 ETMS Equipment Code B738
 Departure Airport DFW
 Arrival Airport LAX
 Scheduled Departure Date 08/17/2005
 ARINC Present Y
 ETMS Present Y
 OAG Present Y
 Oceanic N
 User Class Commercial

Causality Data

(Minutes)

ASQP Reported Carrier 0
 ASQP Reported Weather 0
 ASQP Reported NAS 0
 ASQP Reported Security 0
 ASQP Reported Late Arrival 0
 OPSNET Cause

Departure Information

Scheduled Gate Out 7:23
 Flight Plan Gate Out 7:23
 Actual Gate Out 7:19
 ETMS Planned Wheels Off 7:35
 Actual Wheels Off 7:31
 EDCT Wheels Off
 DZ 7:32
 Gap DZ 1
 Gate Departure Delay (Compared to Flight Plan) 0
 Gate Departure Delay (Compared to Scheduled) 0
 EDCT Departure Delay 0
 Taxi Out Time 12
 Unimpeded Taxi Out Time 11.9
 Taxi Out Delay 0.1
 Flight Plan Wheels Off 7:34
 Scheduled Wheels Off 7:34
 Airport Departure Delay (Compared to Flight Plan) 0
 Airport Departure Delay (Compared to Scheduled) 0
 Gate Departure Difference (Flight Plan) -4
 Gate Departure Difference (Schedule) -4
 Airport Departure Difference (Flight Plan) -3.9
 Airport Departure Difference (Schedule) -3.9
 Taxi Out Time Difference 0.1

Arrival Information

Scheduled Gate In 8:21
 Flight Plan Gate In 8:21
 Actual Gate In 8:16
 Scheduled Block Time 178
 Optimal Block Time 177.5
 Calculated Block Buffer 0.5
 Actual Block Time 177
 EDCT Wheels On
 Actual Wheels On 8:10
 EDCT Arrival Delay 0
 AZ 8:11
 Gap AZ -2
 Estimated Time Enroute 160
 Actual Airborne Time 159
 Airborne Delay 0
 Taxi In Time 6
 Unimpeded Taxi In Time 5.6
 Taxi In Delay 0.4
 Block Delay 0
 Gate Arrival Delay (Compared to Flight Plan) 0
 Gate Arrival Delay (Compared to Scheduled) 0
 Airborne Time Difference -1
 Taxi In Time Difference 0.4
 Block Time Difference -1
 Gate Arrival Difference (Flight Plan) -5
 Gate Arrival Difference (Schedule) -5



ASPM Cancelled Flights

The screenshot shows a Microsoft Internet Explorer browser window displaying the ASPM Cancelled Flights page. The browser's address bar shows the URL <http://www.apo.data.faa.gov/aspm/ASPMframe.asp>. The page header includes the Federal Aviation Administration logo and the text "Back to FAA Operations & Performance Data Home". Below the header, the main content area is titled "Aviation System Performance Metrics (ASPM)" and features a navigation menu on the left with links such as "Management Reports", "Flash Reports", "Airport Comments", "Key Delay Indicators", "Airport Efficiency", "AAR/ADR Calculator", "Analysis", "Causality", "Weather Factors", "Enroute", "Taxi Times", "Individual Flights", "Cancelled Flights", "Download", "Data Reference Guide", and "Information". The "Cancelled Flights" section is active, showing a form with fields for "Carrier ID", "ASPM Carrier", "Flight Number", "Departure", and "Arrival". The form also includes radio buttons for "City Pair" (selected) and "Airport", and buttons for "Scheduled Times", "Reset All", "Causality", "Detail Report", "No Pagebreak", "Definitions", and "Run Report". A status message at the bottom of the form indicates "75 arrival ids loaded." The browser's status bar at the bottom shows "Applet CanFLLevel started" and "Internet".



ASPM Cancelled Flights

Cancelled Flights : Detail Report

Departure: EWR

Dep. Date From 08/17/2005 To 08/18/2005

Carrier Code	Flight Number	Aircraft Code	Aircraft Class	Departure Airport	Arrival Airport	Scheduled Departure Date	Scheduled Departure Time	Scheduled Arrival Date	Scheduled Arrival Time	ASPM Cancellation Code	OAG Matching Data
		E145	J	EWR	TYS	08/18/2005	11:00	08/18/2005	13:14	3	1100
		B735	J	EWR	SAT	08/17/2005	20:10	08/17/2005	22:42	3	2010
		MD11	J	EWR	EGSS	08/18/2005	3:35	08/18/2005	14:28	3	335
		B72Q	J	EWR	IND	08/18/2005	23:25	08/18/2005	23:57	3	2325
		A320	J	EWR	LAX	08/18/2005	18:40	08/18/2005	21:51	3	1840

Total Flights Cancelled : 5



ASPM Airport Download

The screenshot shows the ASPM Airport Download web application running in Microsoft Internet Explorer. The browser's address bar displays the URL: <http://www.apo.data.faa.gov/aspm/ASPMframe.asp>. The page header includes the Federal Aviation Administration logo and the text "Back to FAA Operations & Performance Data Home".

The main content area is titled "Aviation System Performance Metrics (ASPM)" and features a navigation menu on the left with links to "Airport", "ETMS", "Individual Flights", "Cancelled Flights", "Data Dictionary", and "Main ASPM Menu".

The central "Airport Download" form includes the following elements:

- Radio buttons for "Year By Day", "Month By Day", and "Daily" (selected).
- A "Find:" search box with a dropdown menu showing airport codes: ASPM 75, DOT 32, DEP 35, and a "Reset" button.
- A list of airports: ABQ - Albuquerque Intl Sunport, ANC - Ted Stevens Anchorage Intl, ATL - Hartsfield-Jackson Atlanta Intl, AUS - Austin-Bergstrom Intl, BDL - Bradley Intl, BHM - Birmingham Intl, and RNA - Nashville Intl.
- A calendar for "September 2005" with a "Selected Dates" field and "Select All Days" and "Reset Dates" buttons.
- Radio buttons for "Hour" (selected), "Quarter Hour", and "Rolling 30 Minutes".
- A "Weather Conditions" dropdown menu set to "All".
- Input fields for "Email Address For Notification" (TONY.DIANA@FAA.GOV) and "Phone Number" (202-267-9942).
- An "Order File" button.
- A status bar at the bottom of the form indicating "75 facilities loaded."

The status bar at the bottom of the browser window shows "Applet OrderQTR started" and "Internet".



ASPM Data Reference Guide

The screenshot shows a Microsoft Internet Explorer browser window displaying the ASPM Data Reference Guide. The address bar shows the URL: <http://www.apo.data.faa.gov/aspm/ASPMframe.asp>. The page header includes the Federal Aviation Administration logo and the text "Federal Aviation Administration" and "Back to FAA Operations & Performance Data Home". The main content area is titled "Aviation System Performance Metrics (ASPM)" and features a navigation menu on the left with items such as "Management Reports", "Flash Reports", "Airport Comments", "Key Delay Indicators", "Airport Efficiency", "AAR/ADR Calculator", "Analysis", "Causality", "Weather Factors", "Enroute", "Taxi Times", "Individual Flights", "Cancelled Flights", "Download", "Data Reference Guide", and "Information". The central focus is the "Data Reference Guide" applet, which is divided into two sections: "Reports" and "Variables". The "Reports" section has a search field, "All" and "Reset" buttons, and a "Modules" dropdown menu. Below this is a list of report titles, including "ADR/AAR Calculator: By Period - Efficiency Counts" and "ADR/AAR Calculator: By Time Variable - Efficiency Counts". There are radio buttons for "List Variables" (selected) and "List Descriptions". The "Variables" section also has a search field, "All" and "Reset" buttons, and a list of variables including "% Arr Cane", "% Arrivals", "% ASPM Of OPSNET", "% Capacity Utilized", and "% Delayed Gate Arrivals". There are radio buttons for "List Reports" and "List Definitions". A "Run" button is located below the variables list. At the bottom of the applet, it states "994 variables loaded." The browser's status bar at the bottom shows "Applet Guide started" and "Internet".



ASPM Data Reference Guide

Canceled Departures An ASPM departure cancellation is a cancellation from this airport to any destination. ASPM departure cancellations come from two sources based on the available of data. The two sources of data are the ASQP cancellations provided by the ASQP carriers and flight plans RZ messages. Prior to the availability of ASQP data (about a 60 day lag) all of cancellations are generated from the flight plans cancellations. The ETMS flight plan RZ messages indicates when a proposed flight plan was canceled and is not related to a published schedule. A published schedule is not a substitute for a ETMS flight plan and therefore a cancellation is not based on the published schedule, it is based on the flight plan.

ASQP data is used when available, the ASQP wheels off-time of zero indicate when a departure was canceled. ASQP counts takes precedent for the ASQP carriers. ASQP cancelled flight is defined as: Records for canceled flights contain valid OAG and CRS departure and arrival times, but the actual departure, arrival, wheels off and wheels on times contain zeros. OAG-CRS departure delay time, OAG-CRS arrival delay times, and CRS elapsed time contain valid data but the following calculated fields contain zeros: Actual Elapsed Time, Actual-CRS Departure delay, Actual-CRS Arrival Delay, Actual-CRS Elapsed Time Difference, Taxi out Time, Taxi in Time, and Airborne Time. Cancellations for non ASQP carriers must match an OAG flight to be include as an ASPM cancellation except for FDX, UPS, ACA, TWA.

Canceled Arrivals ASPM arrival cancellations are generated from two sources. ASQP cancellation is used for ASQP carriers and the other source is ETMS flight plan's RZ messages which is used for non-ASQP carriers and international flights. Prior to the availability of ASQP data (about 60 days) the RZ message counts are used for all carriers. ASQP's wheels on-time of zero, also indicates when a flight was canceled. ASQP takes precedent for the ASQP carriers. A cancelled arrival is a cancelled flight plan which indicates an arrival at this ASPM airports from a domestic or international location. Cancellations for non ASQP carriers must have a matching an OAG flight schedule to be include as an ASPM cancellation except for FDX, UPS, ACA, TWA for which matching is not required. Cancellation or modification of a published schedule does not modify an ETMS flight plan, as only the cancellation of an ETMS flight plan, or an ASQP data record indicates an ASPM cancelled flight.

% On-Time Gate Departures (Compared to Scheduled) Flight that departed less than 15 minutes past Schedule Gate Out. The ratio of the number of On Time Gate Departures to the total number of departures for metric comp.

% On-Time Airport Departures (Compared to Scheduled) On-Time airport departure are flights that departs within 15 minutes of the Scheduled Wheels Off time. The Scheduled Wheels Off time is calculated by adding Unimpeded Taxi Out Time to Scheduled Gate Out time. This is expressed as a percent of the total number of departures for metric comp.



ASPM Information Page

http://www.apo.data.faa.gov/aspm/ASPMframe.asp - Microsoft Internet Explorer provided by (AEP Network)

File Edit View Favorites Tools Help

Address http://www.apo.data.faa.gov/aspm/ASPMframe.asp

Google Search Search Site Search Images Desktop Search News PageRank Popups okay Check Look for Map

Federal Aviation Administration

Back to FAA Operations & Performance Data Home

Aviation System Performance Metrics (ASPM) Select a Different Operations & Performance Application

- Management Reports
- Flash Reports
- Airport Comments
- Key Delay Indicators
- Airport Efficiency
- AAR/ADR Calculator
- Analysis
- Causality
- Weather Factors
- Enroute
- Taxi Times
- Individual Flights
- Cancelled Flights
- Download
- Data Reference Guide
- Information


FAA

Aviation System Performance Metrics (ASPM)

Documentation

- [Airport Efficiency Rate \(pdf\)](#)
- [Airport Arrival Efficiency Rate \(TAER\)](#)
- [Actual vs. Scheduled Metrics](#)
- [ASPM Overview Briefing \(PowerPoint\)](#)
- [Computation of Arrival and Departure Efficiency Rate \(PowerPoint\)](#)
- [OPSNET Order \(7210.55C\)](#)
- [Facility Operation and Administration Order \(7210.3\)](#)
- [Airport Weather Severity Description](#)
- [On-Time Technical Directive \(BTS-ASQP Data\)](#)


INDUSTRY

Internet

Terminal Area Forecast (TAF)

Federal Aviation Administration

[Back to FAA Operations & Performance Data Home](#)

Terminal Area Forecast (TAF)

Select a Different Operations & Performance Application

- [Query Data](#)
- [Download Model](#)

Terminal Area Forecast

The Terminal Area Forecast System (TAF) is the official forecast of aviation activity at FAA facilities. These forecasts are prepared to meet the budget and planning needs of FAA and provide information for use by state and local authorities, the aviation industry, and the public. Facilities monitored include:

- FAA towered airports
- Federally contracted towered airports
- Nonfederal towered airports
- Non-towered airports

Detailed forecasts are prepared for major users of the National Aviation System including:

- Large air carriers
- Air taxi/commuters
- General aviation
- Military

The TAF includes forecasts for active airports in the National Plan of Integrated Airport System (NPIAS). The enplanement forecasts are prepared from enplanements through fiscal year 2003. The operation forecasts for FAA and FAA contract towered airports are prepared from operations through fiscal year 2004.

Note: The aviation industry is undergoing significant structural and economic changes. Because of these changes, revisions are expected for large hub airport forecasts before the update of the entire TAF next year. Any revisions made to the forecasts will be available at this location.



Terminal Area Forecast (TAF)

The screenshot shows the Terminal Area Forecast (TAF) web application interface. At the top, the Federal Aviation Administration logo and name are displayed on the left, and a link to "Back to FAA Operations & Performance Data Home" is on the right. Below the header, the page title "Terminal Area Forecast (TAF)" is shown on the left, and a dropdown menu "Select a Different Operations & Performance Application" is on the right. On the left side, there are two links: "Query Data" and "Download Model". The main content area features a search and filter panel with the following options:

- Facility Type: All (selected), FAA Tower, FAA and Contract Tower, Radar Tower, Limited Radar Tower, Non-Radar Tower, VFR Tower, Contract Tower
- Facility Level: All (selected), Max
- From: 1976
- To: 2020
- Report Type: Detail Report (selected), Summary Report
- Buttons: Create File, Run Report

Text on the right side of the panel: "Fiscal Years 2004 to 2020", "Publication: February 2005". At the bottom of the panel, it states "3527 facilities loaded."



The Operations Network (OPSNET)

Federal Aviation Administration

Back to FAA Operations & Performance Data Home

Operational Network (OPSNET)

Select a Different Operations & Performance Application

The Operations Network (OPSNET)

The official source of historical NAS air traffic Delays and the Official source of operations as of 10/01/2004 for center, airport, instrument and approach counts. Daily Data is available as of the previous day. Monthly and annual counts are also available on the following screens either by facility, state, region, service area, or nationally. Some ranking tables are also available.

- Delays - NAS delays by Arrival, Departure, Enroute, and Traffic Management Initiative, Aircraft category, Cause and delay per operations rate.
- Towers- Airport Operations Count by Itinerant and Local. All take-offs and landings at FAA funded towers.
- Instrument - Instrument Operations Count by Primary, Secondary, and Overflights.
- Center - Total Aircraft Handled by the ARTCC's. Data is retrieved by Departures and Overflights for Domestic and Oceanic flights.
- Approach Operations - Approach made to an airport by an aircraft with an IFR flight plan usually because of low visibility due to severe weather. Itemized by Air Carrier, Air Taxi, General Aviation and Military
- Facility Information - Details about the facilities that drive the data such as location id, name, level, region, service area, state, center area etc...



The Operations Network (OPSNET)

Federal Aviation Administration

Back to FAA Operations & Performance Data Home

Operational Network (OPSNET) Select a Different Operations & Performance Application

- Delays
- Towers
- Instrument Operations
- Centers
- Approach Operations
- Facility Information
- Glossary

Delays

SELECT 55 OPSNET 45 Yearly Monthly Daily Range

Find: DEP 35 DOT 32 Reset List

Sun	Mon	Tue	Wed	Thu	Fri	Sat	Selected Dates
				1	2	3	
4	5	6	7	8	9	10	
11	12	13	14	15	16	17	
18	19	20	21	22	23	24	
25	26	27	28	29	30		

September 2006

Reports: Only Causal Data

- Delays
- Ground Delays
- Ground Delays By Facility
- Ranking Report
- Comparison
- Download File
- Day Of Week

Grouping:

- Facilities
- Region
- Svc Area
- National

Minimum Total Delay

Delays By Hour

Delays By Qtr. Hour

No Pagebreak

3713 facilities loaded.



Flight Schedule Data System (FSDS)

FSDS is an integrated flight information system based on the Official Airline Guide published schedule (OAG). FSDS allows to search flights by **carrier type** (US/foreign flag), **flight type** (domestic, foreign, foreign to US, US to foreign), **user class** (air carrier, commuter, all passengers and freight) and **service type** (piston, turbine, jet, helicopter).



Enhanced Traffic Management System Counts (ETMSC)

The screenshot shows the ETMSC web application interface. At the top, there is a navigation bar with the Federal Aviation Administration logo and the text "Federal Aviation Administration" and "Back to FAA Operations & Performance Data Home". Below this, the title "Enhanced Traffic Management System Counts (ETMSC)" is displayed. A dropdown menu allows users to "Select a Different Operations & Performance Application".

On the left side, there are three links: "Query Data", "Download", and "Information".

The main content area contains a search and filter form. It includes radio buttons for "Airport" (selected) and "City Pair", and "ETMS" (selected) and "OPSNET". There are search fields for "Airport Find:" and "Aircraft Find:". A list of airports is shown, including ABE - ALLENTOWN, ABI - ABILENE REGIONAL, ABQ - ALBUQUERQUE INTL, ABY - Albany, ACK - NANTUCKET MEMORIAL, ACT - WACO REGIONAL, ACY - ATLANTIC CITY, ADM - ARDMORE MUNI, ADQ - KODIAK, ADS - ADDISON, TX, ADW - ANDREWS AFB, MD, AEX - Alexandria, and AFW - FORT WORTH ALLIANCE. A list of aircraft types is also shown, including A1 - Douglas EA-1 Skyraider, A10 - Fairchild A10, A109 - Agusta SAAF-109, A124 - Antonov AN-124 Ruslan, and A20 - Douglas A-20 Havoc.

On the right side, there is a "Departure Calendar" section with radio buttons for "Monthly" (selected) and "Daily". A calendar grid for August 2005 is displayed. Below the calendar, there are dropdown menus for "Flt. Type:", "User Class:", "Bus. Jet:", "Eqpt Type:", "Eqpt Class:", and "Reg. Jet:". There are also "Local Hour: From/To" and "Ops:" dropdown menus. A "Run" button is located at the bottom right of the form. The status "Ready." is shown at the bottom of the form.

ETMSC allows to query ETMS records by airport or city pair and to arrange data by **flight type** (domestic, foreign, US to foreign, foreign to US), **user class** (air carrier, air taxi, freight, general aviation, military, other), **equipment type** (piston, turbine, jet, helicopter, other), **equipment class** (heavy, 757, large jets, medium, small, other), **business jets**, and **regional jets**.

Airline Service Quality Performance (ASQP)

The screenshot shows the ASQP web application interface. At the top, there is a navigation bar with the Federal Aviation Administration logo and the text "Federal Aviation Administration" and "Back to FAA Operations & Performance Data Home". Below this, there is a search bar with the text "Airline Service Quality Performance (ASQP)" and a dropdown menu labeled "Select a Different Operations & Performance Application".

The main content area is titled "ASQP" and contains several sections:

- Search Filters:** Includes radio buttons for "Airport" (selected), "City Pair", "Yearly", "Monthly", and "Daily". There is a "Find:" field with a search button and a "Reset" button. A list of airports is displayed, including ABE - ALLENTOWN-BETHLEHEM-EASTON, ABI - ABILENE REGIONAL, ABQ - ALBUQUERQUE INTL, ABY - SOUTHWEST GEORGIA REGIONAL, ACK - NANTUCKET MEMORIAL, and ACMA - CAMARILLO.
- Carrier Selection:** A dropdown menu labeled "Carrier:" with "All" selected.
- Report Options:** A grid of radio buttons for various report types, including "ASQP Flights", "ASPM Flights", "Detail", "Summary By Period", "Summary By Airport", "Summary By Carrier", "OnTime NAS - Facility", "OnTime NAS - Period", "OnTime NAS - Carrier", "OnTime NAS - Per/Arpt", "BTS By Facility", "BTS By Period", "BTS By Carrier", "BTS TranStats", and "Carrier Code / Name".
- Date Selection:** A calendar for July 2005 with a "Selected Dates" field and "Reset Dates" button.
- Report Type:** Radio buttons for "Standard" (selected), "Causal", and "NAS".
- Run Report:** A button labeled "Run Report".
- Status:** A message at the bottom left of the main area states "481 facilities loaded."

ASQP is designed to query airline and airport performance data submitted every month by 20 carriers to US DOT Bureau of Transportation Statistics. ASQP enables to compare the carrier-reported causes of delay (**late arriving aircraft, air carrier-related delays, security, National Air System, and extreme weather**) with the facility-reported OPSNET types of delay (**weather, terminal volume, center volume, runway, equipment, other**).

