

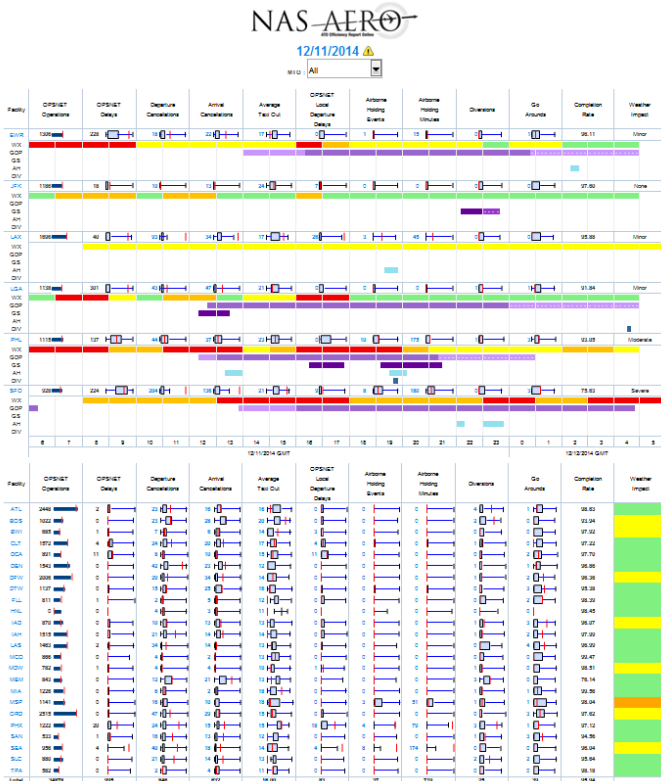
NAS AERO Quick Guide



NAS AERO Purpose:

Display Core Airport daily performance with context on one sheet

Separate focus areas from normal operation



NAS AERO context includes:

- Historical baselines for each Core 30 Airport Key Performance Indicators (KPIs)
- Timelines to show
 - Levels of weather (WX)
 - Time and duration of Ground Stops (GS), and Ground Delay Programs (GDP)
 - Times Airborne Holding and Diversions occurred

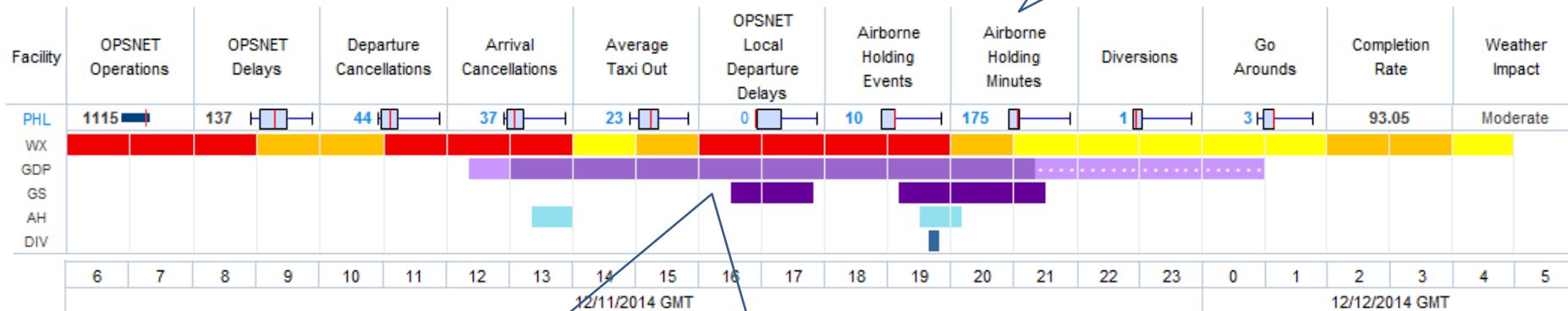
NAS AERO Focus Facilities



The top of the report re-formats and calls attention to Core Airports that had one or more of the following:

- *Implemented Ground Delay Programs or Ground Stops*
- *Total Delays ≥ 25*
- *Airborne Holding ≥ 15 Aircraft*
- *Diversions ≥ 10 Aircraft*

KPI Details compare yesterday's KPI value to a historical range in the same format as the bottom of the page



24 hour timeline visually correlates Weather Factors, GDP, GS, Airborne Holding, and Diversions. Lighter shades of purple at the front or end of a GDP or GS indicate lead time or cancellation. GMT hours are at the bottom

NAS AERO Daily Stats



The bottom of the page describes the performance of Daily KPIs for each Core Airport not pulled to the top of the page

Hyperlink to Facility Detail (AERO)

Daily KPIs
Mouse-over for the KPI Definition

Facility	OPSNET Operations	OPSNET Delays	Departure Cancellations	Arrival Cancellations	Average Taxi Out	OPSNET Local Departure Delays	Airborne Holding Events	Airborne Holding Minutes	Diversions	Go Arounds	Completion Rate	Weather Impact
ATL	2448	2	23	16	16	0	0	0	4	1	98.63	Green
BOS	1022	0	23	28	20	0	0	0	2	0	93.94	Yellow
BWI	685	1	7	6	14	3	0	0	0	0	97.92	Green
CLT	1572	4	24	20	17	4	0	0	1	0	97.22	Green
DCA	891	11	8	10	15	11	0	0	0	2	97.70	Green
DEN	1543	0	42	23	12	0	0	0	1	1	96.86	Green
DFW	2006	0	29	34	14	0	0	0	1	2	96.36	Yellow

KPI Details

Compares yesterday's KPI value to a historical range

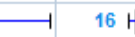









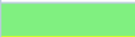
KPIs are hyperlinked to more detailed charts/graphs

Box & Whisker Plot explanation on page 4

Aggregated Daily Weather Impact describes the total day's weather impact as None, Mild, Moderate, or Severe

Two Ways to Visualize the Stats

Daily value and “so what” in a very small package...

Facility	OPSNET Operations	OPSNET Delays	Departure Cancellations	Arrival Cancellations	Average Taxi Out	OPSNET Local Departure Delays	Airborne Holding Events	Airborne Holding Minutes	Diversions	Go Arouns	Completion Rate	Weather Impact
ATL	2448 	2 	13 	16 	16 	0 	0 	0 	4 	1 	98.63	

Operations Bullet Chart

2448 

The number (2448) and the red line represent the number of Operations yesterday.

The blue bar baseline represents the Seasonal 3-year same-day average.

The position of the red line represents the comparison of yesterday’s number of operations to the Seasonal 3-year average for the day.

Operations Bullet Chart Read: Operations yesterday (2448) were slightly below the baseline average.

Mousing over the baseline bar displays its numerical values.

KPI Box & Whisker Plot

16 

The number (16) and red line represents the KPI value for yesterday.

The blue “whisker” line is the baseline and represents the range of values (from 15 to 24 Average Taxi Out Minutes) contained in the Seasonal 3-year baseline.

The box represents the center 50% of the baseline (from 17 to 20 Average Taxi Out Minutes) or basically the “normal” range.

KPI Box & Whisker Plot Read: The (16) Average Taxi Out Minutes at ATL is slightly below the “normal range”.

Selecting the KPI value (16) links to the daily chart.

Mousing over the box plot displays all the values that build the chart.

NAS AERO Baselines



Baselines provide historical context to begin to answer “So what?”

The NAS AERO uses a three-year baseline of similar weather days, in which the weather was classified as either None to Minor, or Moderate to Severe, based on the ASPM Weather Factors methodology.

ASPM Weather Factors classifies airport-specific weather into the categories of None, Minor, Moderate, or Severe, based on the relationship between the weather experienced at that airport and changes in Percent On Time Arrivals.

Use of baselines for like-weather days puts observed airport performance in the context of expected performance given the history of on-time performance at that airport in similar weather conditions.

Daily Operations counts usually change based on the “day of the week”

2448 

Therefore the Daily Operations count baseline uses the same Seasonal 3 year data with only the same day of the week (i.e., Tuesday Ops in March 2015 will include only Tuesdays in the same 9 months of baseline data)