

ASMA Additional Time Dataset

Data description

The additional ASMA time (http://ansperformance.eu/references/definition/additional_asma_time.html) is a proxy for the average arrival runway queuing time on the inbound traffic flow, during congestion periods at airports.

It is the difference between the actual ASMA (<http://ansperformance.eu/references/acronym/asma.html>) time of a flight and a statistically determined unimpeded ASMA time (http://ansperformance.eu/references/definition/unimpeded_asma_time.html) based on ASMA times in periods of low traffic demand.

When monitoring ASMA performance at airports, it is important to note that the goal is not to reduce ASMA time to the unimpeded reference time - as this could negatively impact on runway throughput - but rather to reduce additional ASMA time and associated fuel burnt to the necessary minimum.

Column naming and types

Column name	Data source	Label	Column description	Example
YEAR	Network Manager	YEAR	Reference year	2014
MONTH_NUM	Network Manager	MONTH	Month (numeric)	1
MONTH_MON	Network Manager	MONTH_MON	Month (3-letter code)	JAN
APT_ICAO	PRU	APT_ICAO	ICAO 4-letter airport designator	EBBR
APT_NAME	PRU	APT_NAME	Airport name	Brussels
STATE_NAME	PRU	STATE_NAME	Country in which the airport is located	Belgium
ASMA_RADIUS	PRU	ASMA_RADIUS	The radius around the airport (in NM) used for the ASMA calculation	40
FLT_ASMA_UNIMP_2	NM_Airport		IFR flights with unimpeded reference time	7290
TIME_ASMA_UNIMP_2	NM_Airport		Total unimpeded reference ASMA time in minutes	60081
TIME_ASMA_ADD_2	NM_Airport		Total additional ASMA time in minutes	15175

Calculated Field(s)

$$\text{Average additional ASMA time} = \frac{TIME_ASMA_ADD_2}{FLT_ASMA_UNIMP_2}$$

$$\text{Average unimpeded ASMA time} = \frac{TIME_ASMA_UNIMP_2}{FLT_ASMA_UNIMP_2}$$

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