ATFM delay report

March 2020

Air Traffic Flow Management (ATFM) delay

ATFM measures in Europe
(Data source: NM statistics)

<table>
<thead>
<tr>
<th></th>
<th>March 2020</th>
<th>March 2019</th>
<th>Trend 20/19</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total flights</td>
<td>499,959</td>
<td>848,223</td>
<td>-41,1%</td>
</tr>
<tr>
<td>Regulated flights</td>
<td>55,602</td>
<td>142,188</td>
<td>-60,9%</td>
</tr>
<tr>
<td>Delayed flights</td>
<td>33,083</td>
<td>75,786</td>
<td>-56,3%</td>
</tr>
</tbody>
</table>

Total flights: Number of flight plans having been activated in the EUROCONTROL NM TACT system
Regulated flights: Number of flights / percentage of flights with SLOT allocation (with & without delay)
Delayed flight: Number of flights / percentage of flights subject to delays due to ATFM measures
Trend column: The percentages show the changes compared to the corresponding period last year.

ATFM delay per flight
(Data Source: NM statistics)

Average ATFM delay per flight in minutes attributable to national FMP’s

*caused by ATC
(source: DFS CC/FC, based on FMP reports)
ATFM delay as a result of ATFM measures
(Data source: NM statistics)

ATFM delay in minutes as a result of ATFM measures of selected European FMPs.

ATFM delay:
Time difference between estimated take-off time (ETOT) and calculated take-off time (CTOT) of the NM

Percentage of German FMPs: 7.2% = 53,129 minutes of total delay of 736,437 minutes

Percentage of German ATFM delay attributable to different FMPs
(Data Source: DFS CC-FC, based on FMP reports)

FMP Karlsruhe 82.4%
FMP Langen 8.5%
FMP München 0.5%
FMP Bremen 8.7%
FMP
Langen

- Environmental Issues: 2.8%
- Other: 28.7%
- Weather: 12.1%
- Aerodrome Capacity: 2.7%
- ATC Capacity: 10.6%
- ATC Staffing: 43.0%

FMP
München

- ATC Capacity: 32.7%
- ATC Staffing: 67.3%

FMP
Bremen

- Airspace Management: 1.0%
- ATC Equipment: 13.4%
- ATC Staffing: 18.5%
- ATC Capacity: 67.2%
Development and share of ATFM delays attributable to German FMP’s
(Data source: NM statistics)

ATFM delays (in thousands of minutes) and percentages of ATFM delays attributable to ATFM measures.
ATFM departure delays at international German airports
(Data Source: NM statistics)

Average ATFM delays in minutes for departures from international German airports following ATFM measures of European FMP’s.

German airports:
8,1% = 59,408 minutes of the total delay of 736,437 minutes

ATFM departure delays at international German airports
(Data source: NM statistics)

Percentage of ATFM delays for flights departing from international German airports attributable to ATFM measures in categories. The delays are distributed in 3 categories.
ATFM Arrival Delay with reference to the relevant Airport, in minutes per IFR Arrival.

**ATFM Arrival Delay:**
sum of all arrival ATFM delay divided by the sum of all inbound flights for the particular traffic volume

<table>
<thead>
<tr>
<th></th>
<th>All Airports *</th>
<th>EDDF</th>
<th>EDDL</th>
</tr>
</thead>
<tbody>
<tr>
<td>nonATC</td>
<td>0.0364</td>
<td>0.1339</td>
<td>0.0514</td>
</tr>
<tr>
<td>ATC</td>
<td>0.0000</td>
<td>0.0000</td>
<td>0.0000</td>
</tr>
</tbody>
</table>

Please note: The ATFM delay data are provided by NM statistics. Due to internal distribution of the ATFM delay, data are modified by CC/FC and TWR/M. The inbound flight information is based on LIZ statistics.

* All Airports means all international German Airports
Berlin Schönefeld (EDDB), Berlin Tegel (EDDT), Bremen (EDDW), Dresden (EDDC), Düsseldorf (EDDL), Erfurt (EDDE), Frankfurt (EDDF),
Hamburg (EDDH), Hannover (EDDV), Köln/Bonn (EDDK), Leipzig (EDDP), München (EDDM), Münster-Osnabrück (EDDG), Nürnberg (EDDN),
Saarbrücken (EDDR), Stuttgart (EDDS)