



The primary function of Air Traffic Control:

“The Safe, Orderly and Expeditious flow of traffic:







MY WIFE

**HER FRIENDS SAYING
IT WAS ATC'S FAULT
THEIR FLIGHT WAS DELAYED**

ME

Two Types of Delays

Initiated by the User and Initiated by ATC

When Does ATC DELAY Flights?

When Demand Exceeds Capacity

Since the mid 1980's Air Traffic Control has evolved into Air Traffic Management

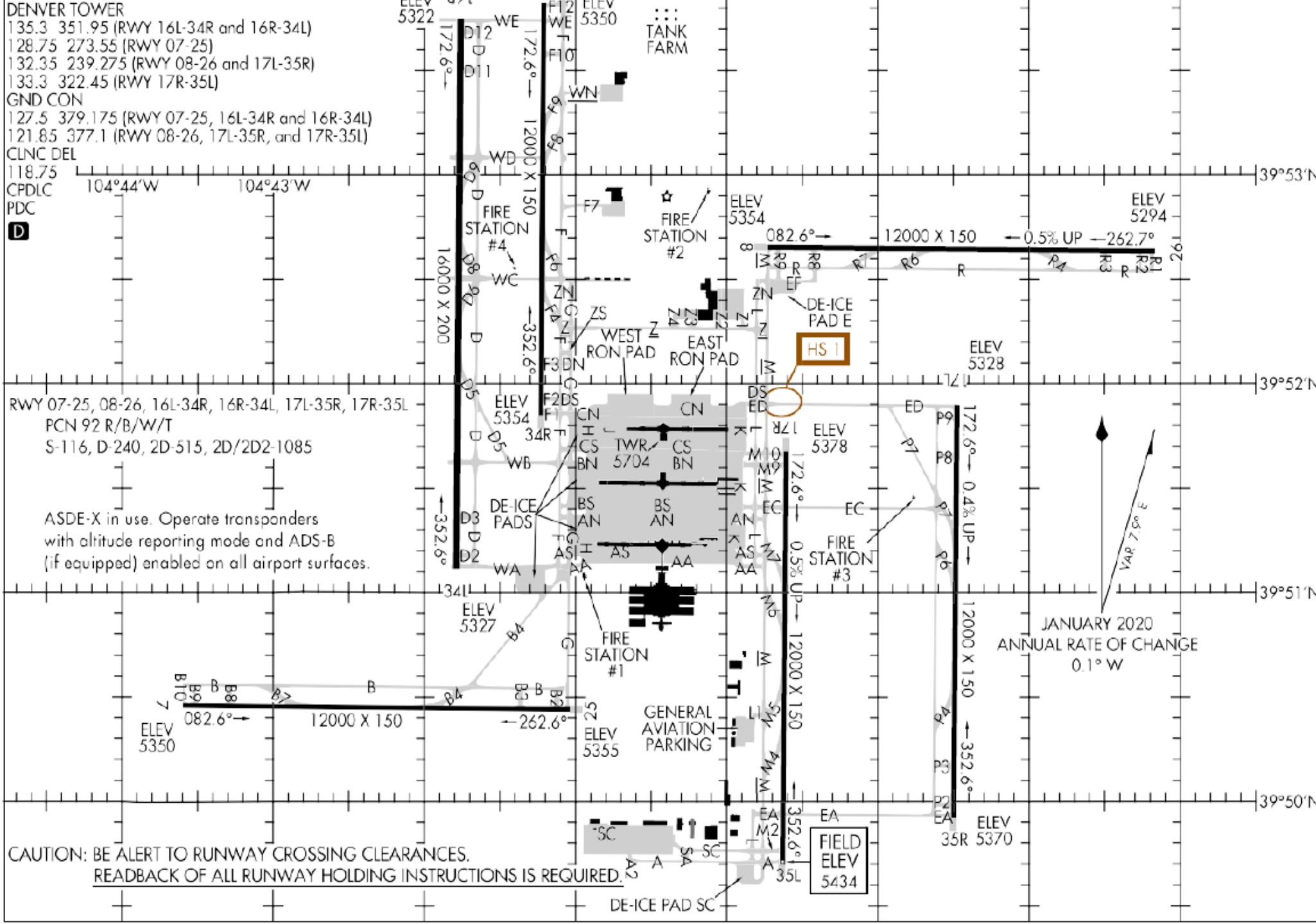
Arrival Delays

Airport Arrival Rate (AAR) is a dynamic parameter specifying the number of arrival aircraft that an airport, in conjunction with terminal airspace, can accept under specific conditions throughout any consecutive sixty (60) minute period.

- Arrival demand that exceeds the Airport Arrival Rate is what will cause your flight to be delayed on departure.

PORT DIAGRAM

PORT DIAGRAM



DENVER TOWER
 135.3 351.95 (RWY 16L-34R and 16R-34L)
 128.75 273.55 (RWY 07-25)
 132.35 239.275 (RWY 08-26 and 17L-35R)
 133.3 322.45 (RWY 17R-35L)
 GND CON
 127.5 379.175 (RWY 07-25, 16L-34R and 16R-34L)
 121.85 377.1 (RWY 08-26, 17L-35R, and 17R-35L)
 CLNC DEL
 118.75
 CPDLC
 PDC

RWY 07-25, 08-26, 16L-34R, 16R-34L, 17L-35R, 17R-35L
 PCN 92 R/B/W/T
 S-116, D-240, 2D-515, 2D/2D2-1085

ASDE-X in use. Operate transponders with altitude reporting mode and ADS-B (if equipped) enabled on all airport surfaces.

CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.
 READBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.

AL-9077 (FAA)

DENVER INTL (DEN)
DENVER, COLORADO

DENVER, COLORADO
DENVER INTL (DEN)



Airport Arrival Demand Chart

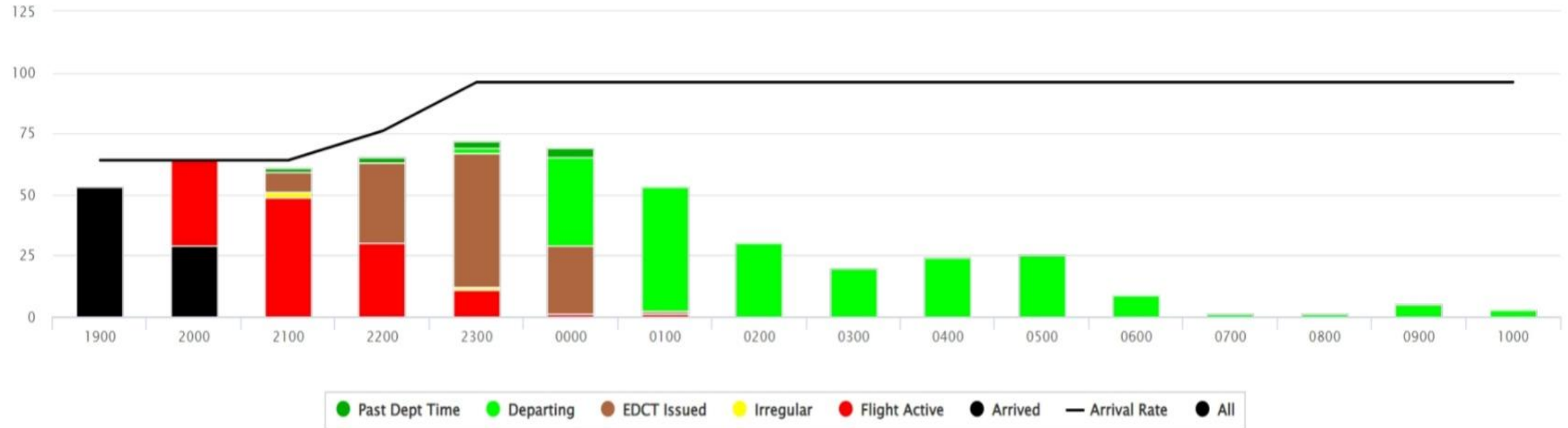
Add New Graph

15 30 60 DEN Arrivals

Close

DEN

9/22/2022 20:31z Cancelled Flights: 6 Actual



- **Air Traffic Control System Command Center (ATCSCC)** - The **ATCSCC** oversees all air traffic control. It also manages air traffic control within Air Route Traffic Control Centers and Terminal RADAR Approach Controls where there are problems (bad weather, traffic overloads, inoperative runways).

• www.fly.faa.gov

Air Traffic Management is slowly replacing Air Traffic Control



Federal Aviation Administration

National Airspace System Status

Updated: Oct 9, 2023 12:03:23 PM EDT

Current: Oct 9, 2023 12:03:46 PM EDT

- Advisories
- Airport Demand
- EDCT
- NOTAMS
- Reroutes
- Restrictions
- RVR
- Weather



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List View

Tile View

Map View



Active Airport Events

BCT

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Airport Closure 01/9:00 PM EDT–03/7:00 AM EDT
Closed except HEL OPS FM ALL RAMPS MON-FRI
0100-1100

BOS

[View Details](#)

Airport Closure 06/5:00 AM EDT–20/12:00 AM EDT
Closed TO NON SKED TRANSIENT GA ACFT EXC PPR
617-561-2500

LAS

[View Details](#)

Airport Closure 05/7:00 PM EDT–13/6:00 PM EST
Closed TO NON SKED TRANSIENT GA ACFT EXC PPR
702-261-7775



Delay Mitigation

- Every large Air Traffic facility has a Traffic Management Unit (TMU) that works in conjunction with **Air Traffic Control System Command Center (ATCSCC)** to manage the flow of traffic.

Ground Delay Program

- Ground Delay Programs (GDP) are implemented to control air traffic volume to airports where the projected traffic demand is expected to exceed the airport's acceptance rate for a lengthy period of time. Lengthy periods of demand exceeding acceptance rate are normally a result of the airport's acceptance rate being reduced for some reason. The most common reason for a reduction in acceptance rate is adverse weather such as low ceilings and visibility.
- In some cases, the demand exceeds the optimal airport acceptance rate. (PHL)

How It Works

Flights that are destined to the affected airport are issued Controlled Departure Times (CDT) at their point of departure.

Flights that have been issued CDTs are not permitted to depart until their Controlled Departure Time. These CDTs are calculated in such a way as to meter the rate that traffic arrives at the affected airport; ensuring that demand is equal to acceptance rate. The length of delays that result from the implementation of a Ground Delay Program is a factor of two things; how much greater than the acceptance rate the original demand was, and for what length of time the original demand was expected to exceed the acceptance rate.

Operators are allowed to substitute flights.

Airspace Flow Program

- Airspace Flow Program (AFP) is a process whereby traffic managers identify a constraint in the en-route system, develop a real-time list of flights that are filed into the constrained area, and implement an AFP. The Airspace Flow Program distributes expected departure clearance times (EDCT) to meter air traffic demand through the area. Examples of constraints include thunderstorm activity, turbulence, and periods of excess demand.

Other Tools

- Miles in Trail
- Metering - Unique to ZBW/BCT (Boston Center/Boston Consolidated TRACON)
- Holding
- Ground Stop

- Special Events
 - US Open [Flushing Meadows–Corona Park](#), [Queens](#), New York City
 - NASCAR
 - RBC Heritage Classic

- Equipment Outages
 - Comm Lines

Air Mobility Command's 89th Airlift Wing



Air Mobility Command's 89th Airlift Wing

AF1

AF2

Exec1F

Exec2F

Special Air Mission – SAM flight

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