

# Logan International Airport Domestic Flight Visualization

Logan Airport is an International Airport and officially called General Edward Lawrence Logan International Airport (BOS). Logan International Airport, with six runways, it is a largest airport in New England and located in East of Boston, Massachusetts.

The data set contains Domestic flight information for United States from 1987 to 2008.

- **Flight Dataset:**

Year	Departure Delay
Month	Origin Code
DayOfMonth	Dest Code
DayOfWeek	Distance
Actual Departure Time	TaxiIn
Scheduled Departure Time	TaxiOut
Actual Arrival Time	Cancelled
Scheduled Arrival Time	Cancellation Code
Unique Carrier Code	Diverted
Flight Number	Carrier Delay
Plane Tail Number	Weather Delay
ActualElapsedTime	NAS Delay
CRSElapsedTime	Security Delay
Air Time	Late Aircraft Delay
Arrival Delay,	

- **Airport Data:**

- Airport Code
- Name of the Airport
- City
- State
- Country
- Latitude
- Longitude

- **Carrier Code:**

- Carrier Codes
- Carrier Full Names

- **Population of Massachusetts from 1987 to 2008.**

**Questions :**

- What is the amount of yearly flight number and how it changed in years?
- What is the correlation between population growth and number of flights?
- What is the most destinations from BOS or an origin to BOS by visualization in geographic map?
- Daily flight number grouped by month and compare with other years
- What is the daily rush hours for airport?
- What is the on-time/delay performance by years?

**Dataset:**

Flight dataset

<http://stat-computing.org/dataexpo/2009/the-data.html>

Airport Data (airport.csv)

<http://stat-computing.org/dataexpo/2009/supplemental-data.html>

Carrier Code (carriers.csv)

<http://stat-computing.org/dataexpo/2009/supplemental-data.html>

Population of Massachusetts

[http://www.google.com/publicdata/explore?ds=kf7tgg1uo9ude\\_&ctype=l&strail=false&bcs=d&nselm=h&met\\_y=population&scale\\_y=lin&ind\\_y=false&rdim=country&idim=state:25000&ifdim=country&ind=false&icfg&iconSize=0.5](http://www.google.com/publicdata/explore?ds=kf7tgg1uo9ude_&ctype=l&strail=false&bcs=d&nselm=h&met_y=population&scale_y=lin&ind_y=false&rdim=country&idim=state:25000&ifdim=country&ind=false&icfg&iconSize=0.5)

BOS-Logan Airport Passenger Data (2002 – 2008)

[http://www.transtats.bts.gov/Data\\_Elements.aspx?Data=1](http://www.transtats.bts.gov/Data_Elements.aspx?Data=1)