BOSTON-LOGAN INTERNATIONAL AIRPORT MONITORING REPORT ON SCHEDULED AND NON-SCHEDULED FLIGHT ACTIVITY

Peak Period Surcharge Regulation
740 CMR 27:00: Massachusetts Port Authority

Report Number:	**012**
Monitoring Period:	**Through Sept. 2015**
Report Issue Date:	**May 2015**

Note: This report reflects the Boston-Logan Airport flight activity monitoring under 740 CMR 27.03 Peak Period Surcharge Regulation on Aircraft Operations at Boston-Logan International Airport.

Findings: This report includes actual and projected activity data **through September 2015**. Current and projected near-term flight levels at Boston Logan are well below Logan's good weather (VFR) throughput of approximately 120 flights per hour. **As a result, average VFR delays are projected to be minimal and well below the 15 minutes threshold through the analysis period.**

In the event demand conditions at the airport change significantly from the current projection, Massport will issue updates to this report.

Attachments

Table 1: Summary Overview of Peak Period Surcharge Program

Table 2: Summary Overview of Forecast Methodology

Table 3: Projected Aircraft Operations at Logan Airport Projected

Table 4: Projected Hourly Operations, Average Weekday

Table 5: Forecast Logan Average Weekday Operations

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Table 1: Summary Overview of Peak Period Surcharge Program

Monitor Schedules to Identify Overscheduling Conditions 6 Months in Advance

All Key Levers Are Adjustable to Address Future Conditions

Provide Early-Warning to Users and FAA for Voluntary Response

Trigger Program When Projected VFR Delays Reach 15 Minutes per Operation

Impose Peak Period Surcharges ($150 near-term) for Arrivals and Departures *(Revenue Neutral)*

Small Community Exemptions at August 2003 Service Levels
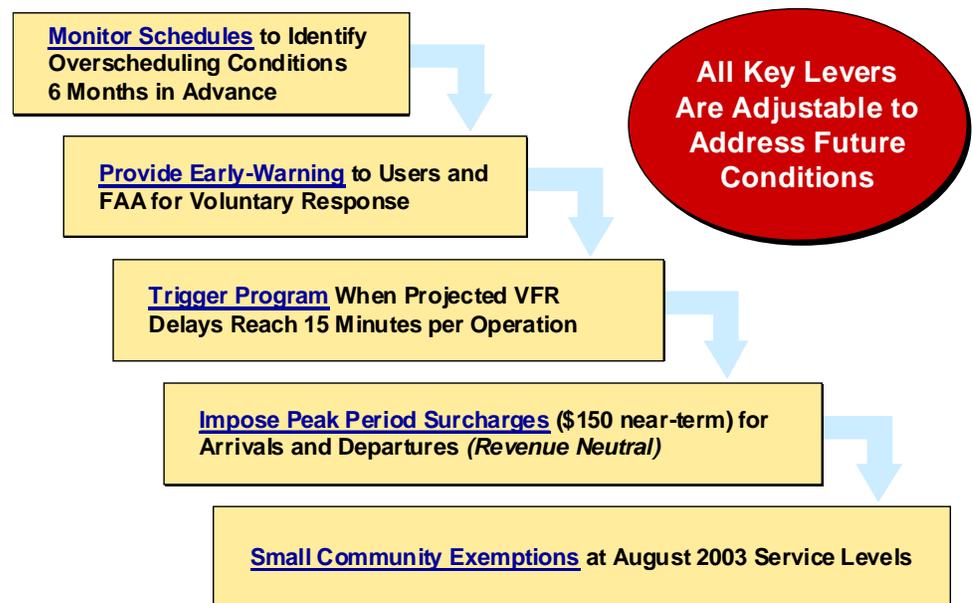
Table 2: Summary Overview of Forecast Methodology

- Scheduled passenger airline flights represent more than 93 percent of total aircraft operations. Passenger airline activity for the Spring and Summer periods were projected based on published advance airline schedules

- Forecasts of monthly activity for other segments (GA, Cargo, Charter) are based on the past three months of actual flight volume and historic patterns of monthly seasonality

- Day-of-week and time of day distributions for non-scheduled segments are based on analysis of Logan radar data

- Projections for each segment were combined to produce the forecast pattern of hourly flight activity for an average weekday, Saturday, and Sunday for the period from February through September

Table 3: Aircraft Operations at Logan Airport

Average Weekday Operation Projected through September 2015

Month	Operations
Nov-14	800
Dec-14	755
Jan-15	707
Feb-15	719
Mar-15	837
Apr-15	974
May-15	996
Jun-15	1,041
Jul-15	1,108
Aug-15	1,110
Sep-15	1,031
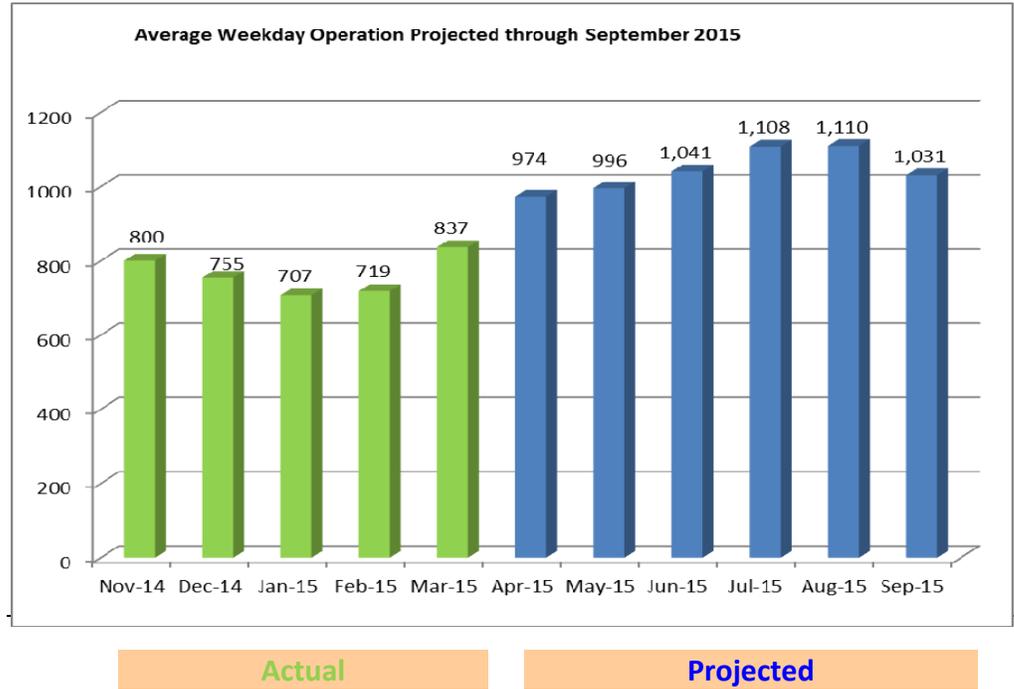
Actual	Projected

Note: Actual Operations are based on Massport data/air carrier reports and reflect flight cancellations due to weather and other operational impacts.

Table 4: Projected Hourly Operations

Projected Hourly Operations, Average Weekday, July 2015

Logan Operations

Current Average VFR Capacity

■ Non-Scheduled

Time of day (Hour)

Note: Includes projected services by scheduled airlines plus non-scheduled activity including general aviation, charters etc.
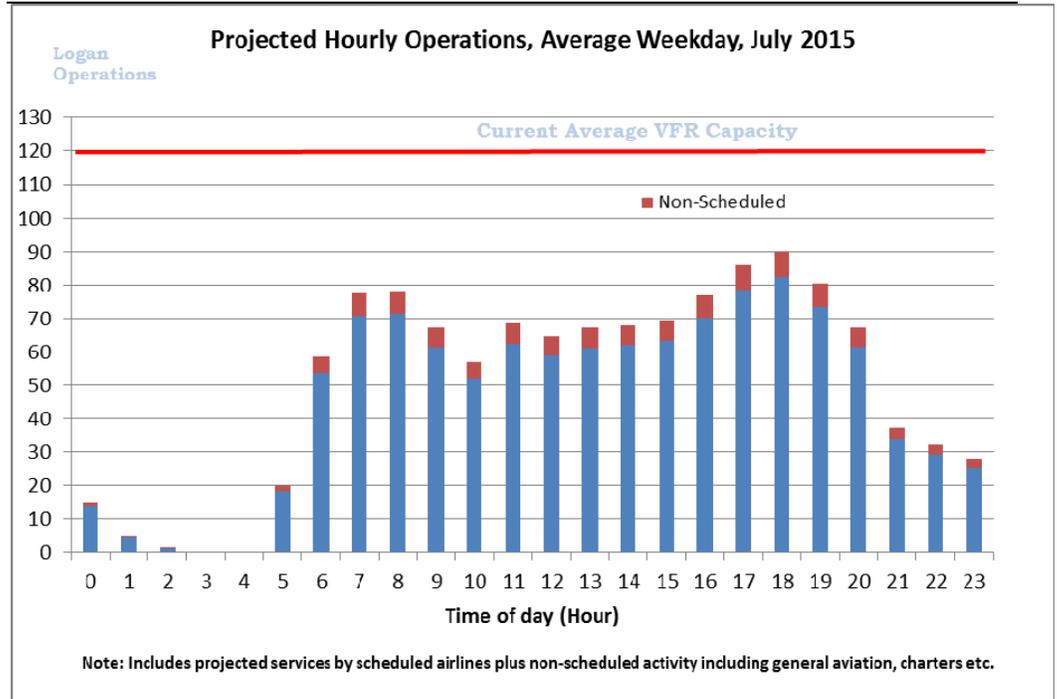
Table 5: Forecast Logan Average Weekday Operations, *Feb. – Sep.*

				Average Daily Operations				
Hour Range	**Feb-15**	**Mar-15**	**Apr-15**	**May-15**	**Jun-15**	**Jul-15**	**Aug-15**	**Sep-15**
0	12	14	11	12	13	14	14	13
1	3	4	3	3	4	4	3	3
2	1	1	0	0	1	1	1	0
3	0	0	0	0	0	0	0	0
4	1	1	0	0	0	0	0	0
5	6	11	17	17	20	18	18	16
6	32	45	49	46	47	54	53	49
7	37	47	55	65	67	71	68	60
8	39	50	73	66	67	71	71	65
9	44	52	60	57	57	61	63	56
10	38	41	43	48	49	52	54	52
11	35	42	48	51	58	62	62	58
12	34	40	50	56	56	59	59	59
13	36	41	51	53	56	61	62	53
14	37	42	52	51	55	62	64	62
15	41	48	56	51	57	63	66	56
16	45	55	63	64	67	70	71	70
17	46	56	75	72	75	78	76	75
18	50	55	71	74	75	82	84	81
19	48	53	61	67	71	73	70	61
20	44	47	50	56	57	61	61	56
21	33	37	33	32	34	34	34	33
22	29	28	24	27	28	29	30	28
23	26	25	28	28	26	25	27	24
Total	**719**	**837**	**974**	**996**	**1,041**	**1,108**	**1,110**	**1,031**

February – March, actual data

April – September, forecast data