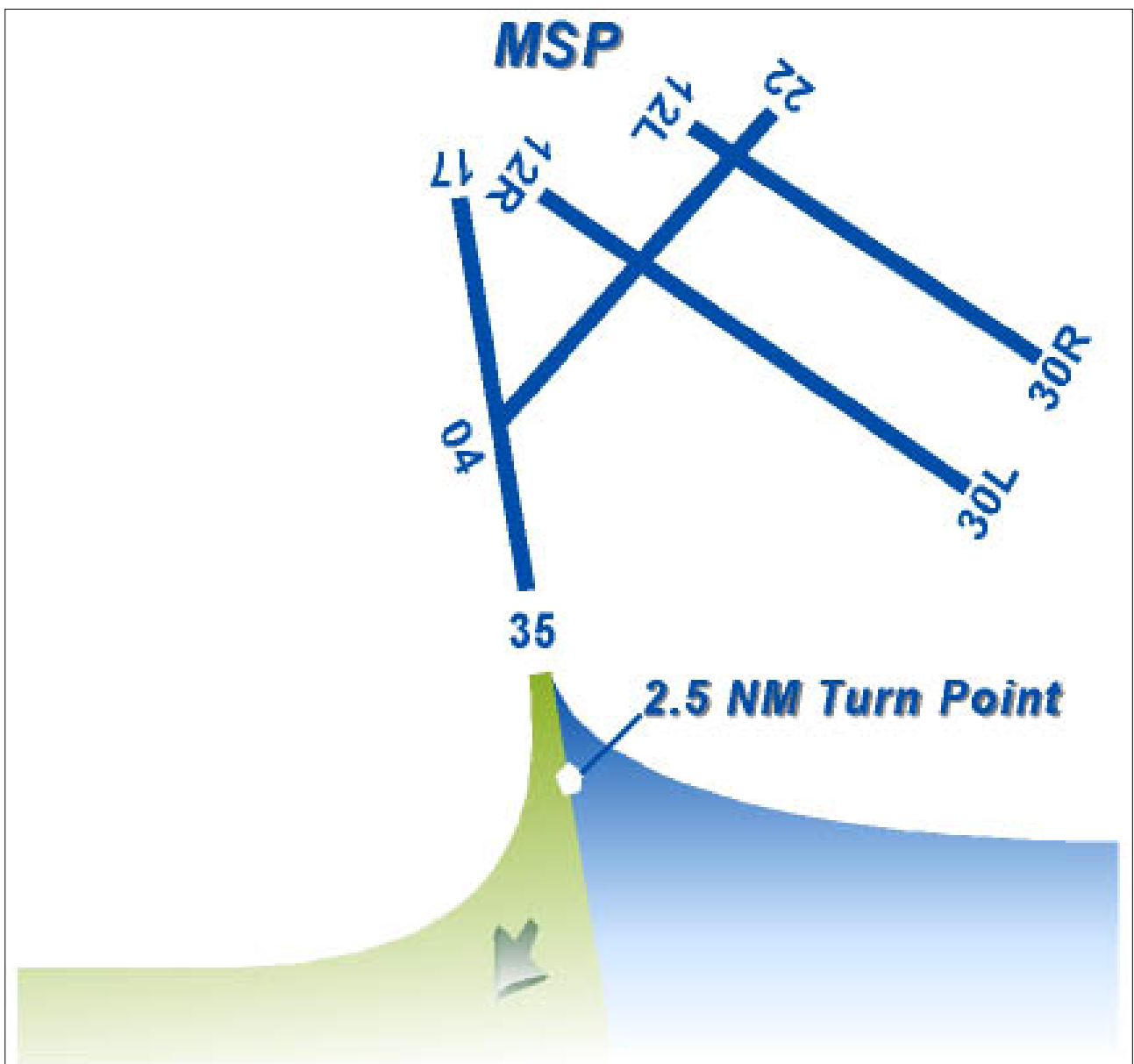


4/1/2017 - 4/30/2017

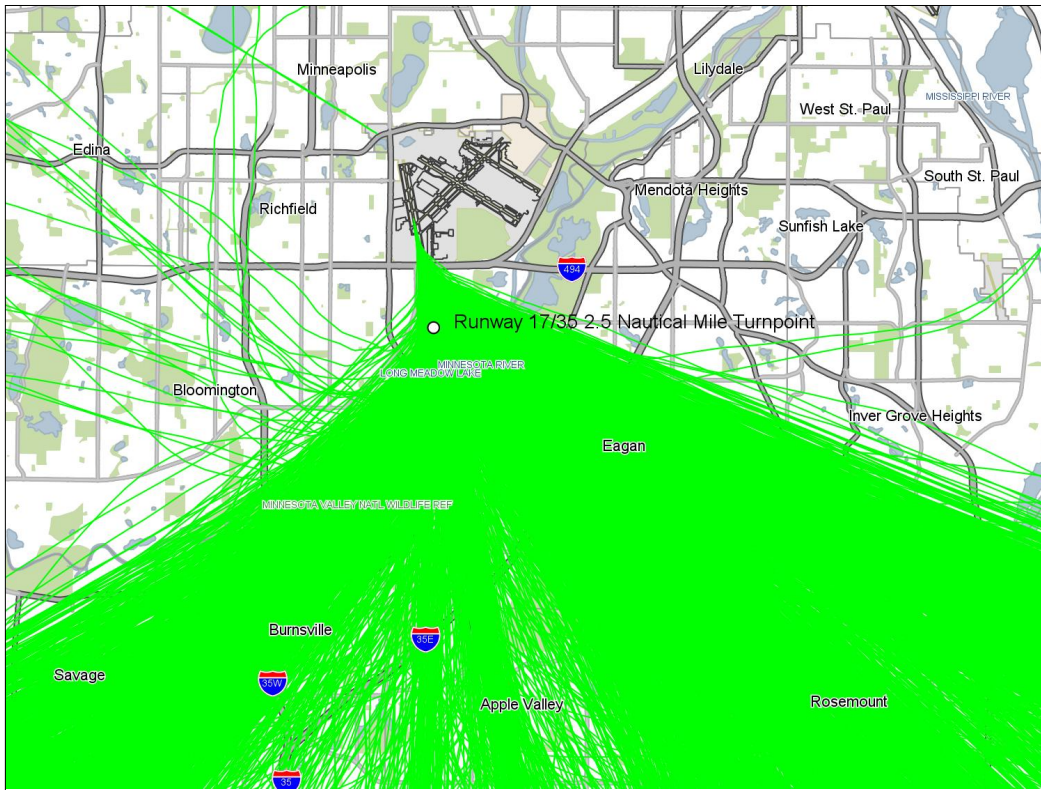
Runway 17 Departure Analysis Report

Minneapolis-St. Paul International Airport

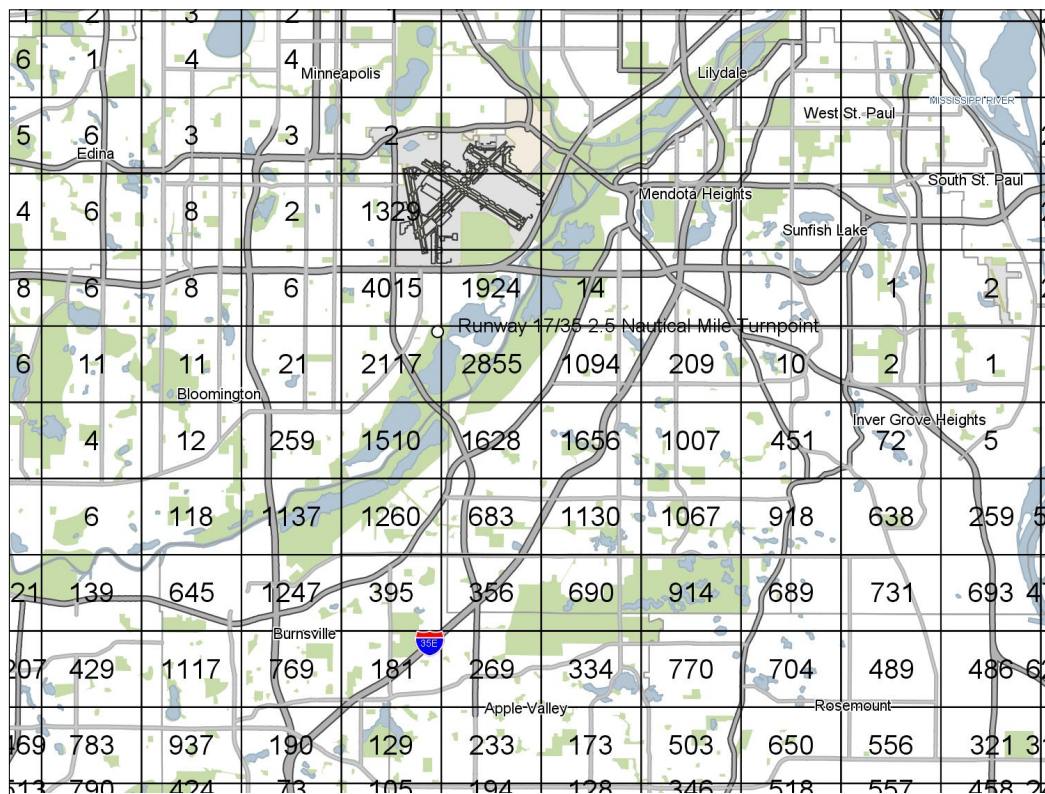


*This report is for informational purposes only
and cannot be used for enforcement purposes*

4023 Carrier Jets Departed Runway 17 - 4/1/2017 - 4/30/2017



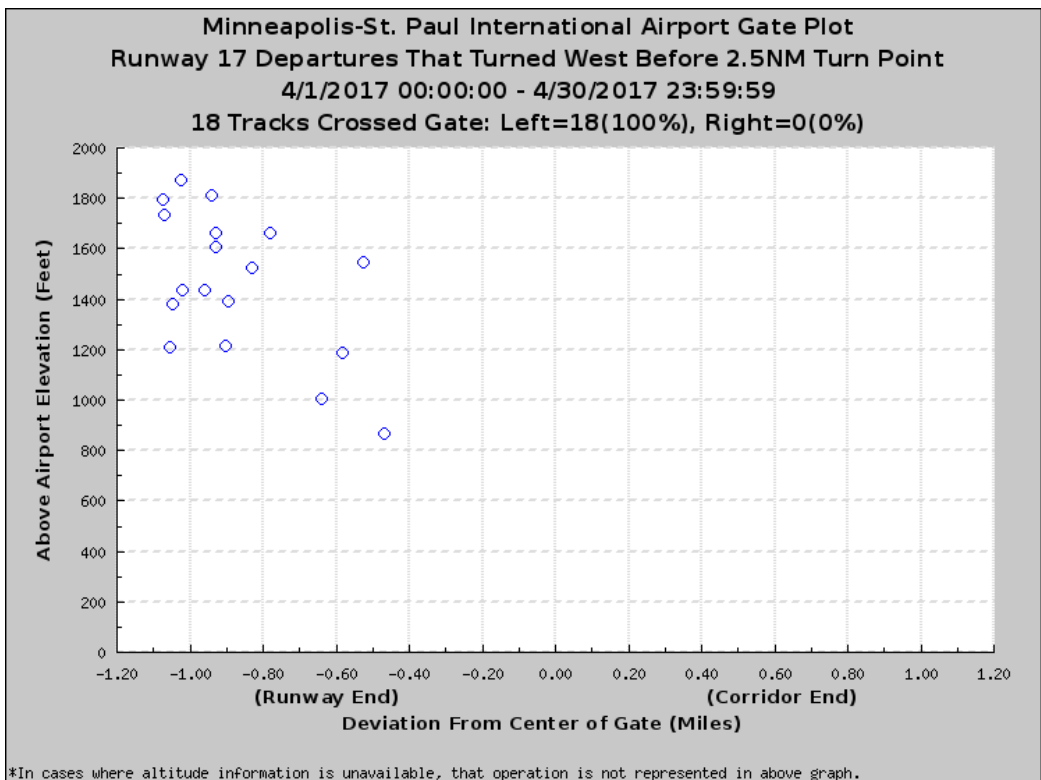
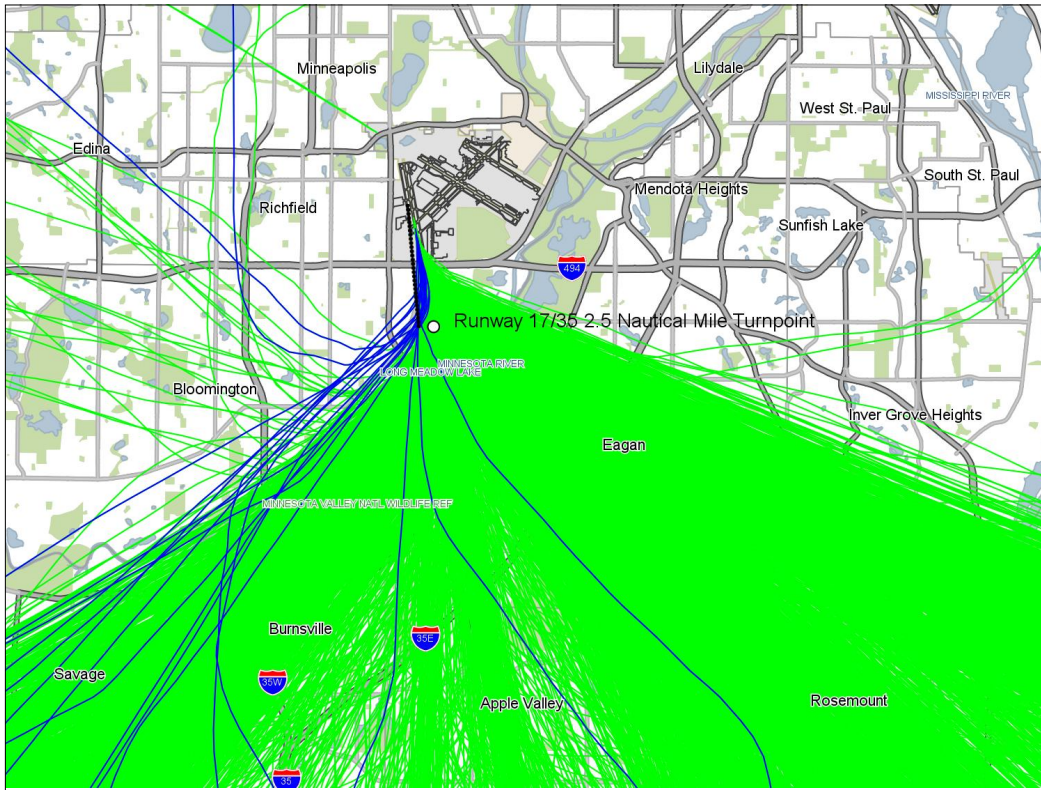
Runway 17 Departure Overflight Grid Analysis



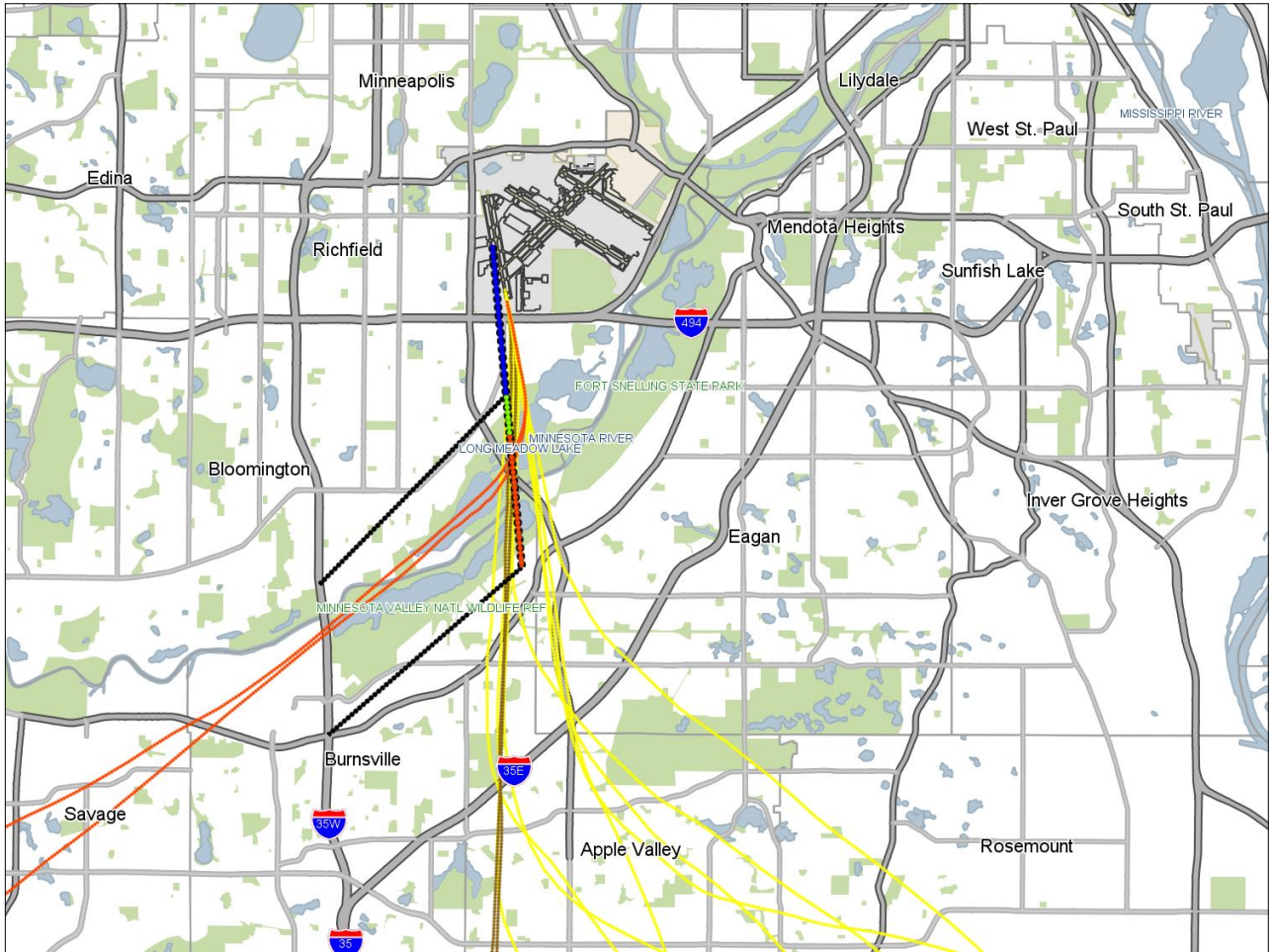
Runway 17 Carrier Jet Departure Operations - 4/1/2017-4/30/2017

4005 (99.6%) of all Carrier Jet Departure Operations flying the Runway 17 Jet Departure Procedure (passing over the 2.5 NM turn point)

18 (0.4%) Carrier Jet Departure Operations turned west before passing over the Runway 17 2.5 NM turn point. This is 1.1% of 1573 westbound departures



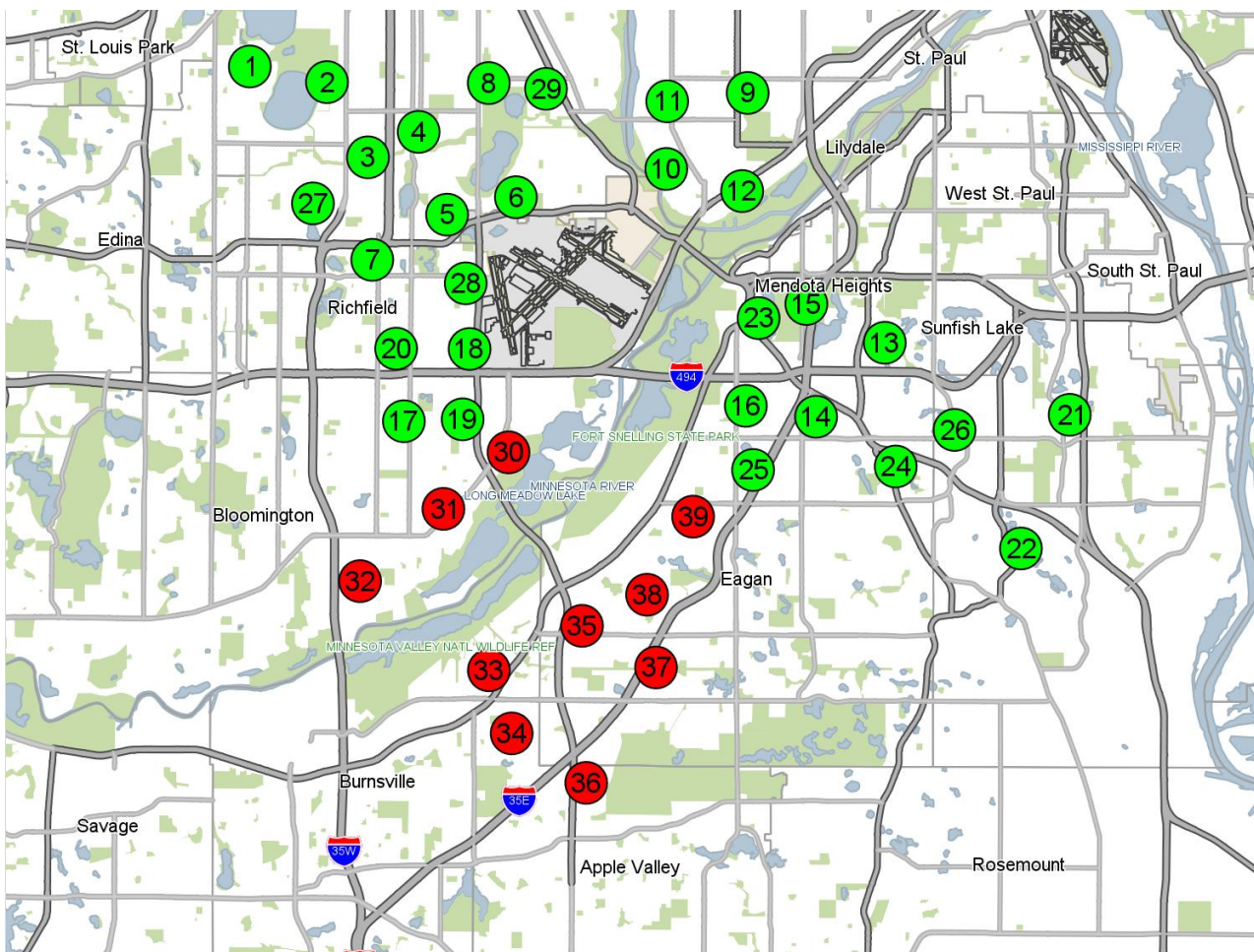
Runway 17 Nighttime Carrier Jet Departure Operations - 4/1/2017 - 4/30/2017



12 Nighttime Carrier Jet Departure Operations off of Runway 17 in 4/1/2017 - 4/30/2017 (10:30 p.m. - 6:00 a.m.)

<p>— 0 (0%) Westbound Carrier Jet Departures turned west between 2.5 and 3.0 NM from start of takeoff and remained over the Minnesota River Valley (trending with Runway 17 River Departure Heading)</p>	<p>— 2 (16.7%) Westbound Carrier Jet Departures turned west after 3.0 NM from start of takeoff and remained over the Minnesota River Valley (trending with Runway 17 River Departure Procedure)</p>
<p>— 0 (0%) Carrier Jet Departures turned west before passing over the Runway 17 2.5 NM turn point</p>	<p>— 2 (16.7%) Remaining westbound Carrier Jet Departures flew the Runway 17 Jet Departure Procedure (passing over the 2.5 NM turn point), and with an enroute heading to the destination airport</p>
<p>— 8 (66.7%) Other Nighttime Carrier Jet Departure Operations</p>	

Remote Monitoring Tower (RMT) Site Locations



LEGEND



Existing RMT's



Runway 17-35 RMT's

Note: The following pages contain noise data representative of real-time recordings from the Remote Monitoring Towers. Occasional data losses occur as a result of short-term equipment malfunctions and routine maintenance.

Analysis of Aircraft Noise Levels - DNL dBA 4/1/2017-4/30/2017

Date	#30	#31	#32	#33	#34	#35	#36	#37	#38	#39
04/01	64.6	47.1	44.5	53.3	51.9	56.1	52.3	49.3	NA	NA
04/02	63.6	49.4	42.2	47.3	44.3	49	38.7	53.5	55.8	57.1
04/03	59.9	42.8	28.8	38.9	31	49.2	35.4	49.3	53.3	49
04/04	43.7	NA	NA	NA	32.5	47.7	52.7	41.5	NA	NA
04/05	62.3	48.3	43.6	45.7	51.5	53.7	54.8	NA	NA	NA
04/06	42.8	NA	NA	NA	NA	47	52.5	NA	NA	NA
04/07	64.5	47.4	41.4	47	38.7	55.4	51.7	50.4	53.4	52.7
04/08	60.1	48	36.5	44.3	27.3	40.9	31	46.7	52.2	53
04/09	56.4	30	27.7	44.8	40.3	45.9	48.8	44.6	48	42.9
04/10	48.7	30.4	45.4	NA	NA	50.4	54.2	NA	NA	NA
04/11	55.1	39.8	38.9	40.9	43.5	53.9	58.2	31	31	NA
04/12	63.8	48.2	38.6	48.1	42	56	55.2	54.7	56.5	56.9
04/13	64.1	48.3	37.7	48.4	42.9	50.9	43.4	51	56.1	54.9
04/14	63.4	50.7	44.6	46.6	38.8	49.3	34.9	50.9	54.5	57.7
04/15	59.8	44.4	40.5	45.6	40.1	53.4	50.5	52.3	55.2	52.1
04/16	42.8	NA	NA	NA	NA	48	50.5	30.2	30.3	NA
04/17	53.7	36	NA	39.2	44.6	50.7	52	44.4	46.5	46.2
04/18	60.1	50.1	46.6	43.7	30.8	50.3	NA	48.9	49.9	54.1
04/19	59.2	42.1	33.6	41	39.3	49.5	46.1	48.4	51.6	53.4
04/20	49.6	NA	26.4	NA	NA	50.6	52.5	NA	NA	NA
04/21	44.9	30.3	46.4	NA	40.5	47.9	52.6	28	NA	NA
04/22	60.9	44.4	40.7	50	49	50	48.8	46.6	50.4	50.1
04/23	61.6	43.2	33.8	47.4	37.7	48.6	45.1	51.7	54.4	54.9
04/24	60.5	48.2	39.8	40.5	36.1	48.2	39.1	48.2	53	55.7
04/25	63	50.8	45.9	52.3	51.4	50.4	46.4	45	47.4	49.7
04/26	46.4	NA	NA	NA	NA	47.7	51.1	NA	NA	NA
04/27	48.6	NA	NA	NA	NA	48.4	51.3	NA	NA	NA
04/28	43	NA	NA	NA	NA	46.6	51.7	NA	NA	NA
04/29	59.8	43.1	33.7	38.8	NA	45.6	NA	49.3	52.4	51.3
04/30	53.8	38.6	30.1	35	NA	40.5	NA	41.2	45.1	45.8
Mo.DNL	60	46.5	41.7	46.9	45.2	50.8	51.4	49.1	52.6	53.6

Aircraft Noise Levels DNL dBA April 2014 to 2017

RMT	Aircraft DNL	Aircraft DNL	Aircraft DNL	Aircraft DNL
	2014	2015	2016	2017
30	59.9	59.6	61.1	60
31	48.4	45.8	47.9	46.5
32	44.2	42.5	43.1	41.7
33	46.2	48	48	46.9
34	40.1	44.9	45.2	45.2
35	51.8	50.3	50.5	50.8
36	52.8	52	48.2	51.4
37	47.2	45.7	49.3	49.1
38	50.3	50.2	52.9	52.6
39	50.5	50.1	53.3	53.6

Note: Due to adjustments in data processing, historical values may vary slightly from previous reports.

Top 15 Runway 17 Departure Destination Report

Airport	City	Heading (deg.)	#Ops	Percent of Total Ops
ORD	CHICAGO (O'HARE)	124°	232	5.8%
PHX	PHOENIX	231°	175	4.3%
DEN	DENVER	237°	175	4.3%
ATL	ATLANTA	149°	157	3.9%
DFW	DALLAS/FORT WORTH	193°	153	3.8%
MDW	CHICAGO (MIDWAY)	124°	142	3.5%
LAX	LOS ANGELES	238°	117	2.9%
MCO	ORLANDO	151°	109	2.7%
LAS	LAS VEGAS	243°	108	2.7%
IAH	HOUSTON	185°	107	2.7%
RSW	FORT MYERS	154°	101	2.5%
LGA	LA GUARDIA	105°	88	2.2%
STL	ST LOUIS	160°	87	2.2%
EWR	NEWARK	106°	87	2.2%
MCI	KANSAS CITY	188°	84	2.1%