

PHX DVT GYR

 CITY OF PHOENIX AVIATION DEPARTMENT

Monthly Noise Report

May 2016

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Introduction/Summary

The City of Phoenix Aviation Department Airspace and Noise Section collects aircraft noise monitoring and flight operations data to provide the community with up-to-date information concerning aircraft noise exposure. Additionally, staff receive and address noise concerns from residents through either the noise hotline (844-244-7430) or the electronic complaint form available on the Phoenix Sky Harbor International Airport (PHX) webpage:
<https://www.skyharbor.com/FlightPaths/FileAConcernContactUs>

The following report provides a summary of the data collected for the preceding month. Each component of the report is intended to show observable trends in operation counts, flight direction, complaints, and adherence to noise abatement procedures.

Summary:

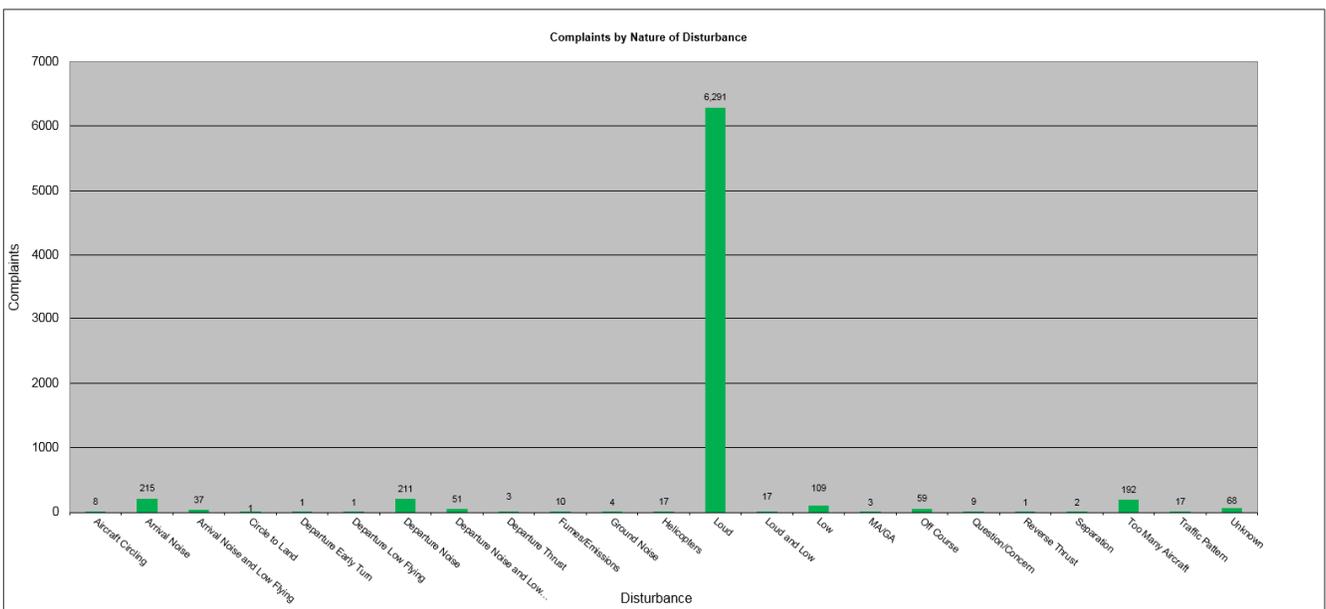
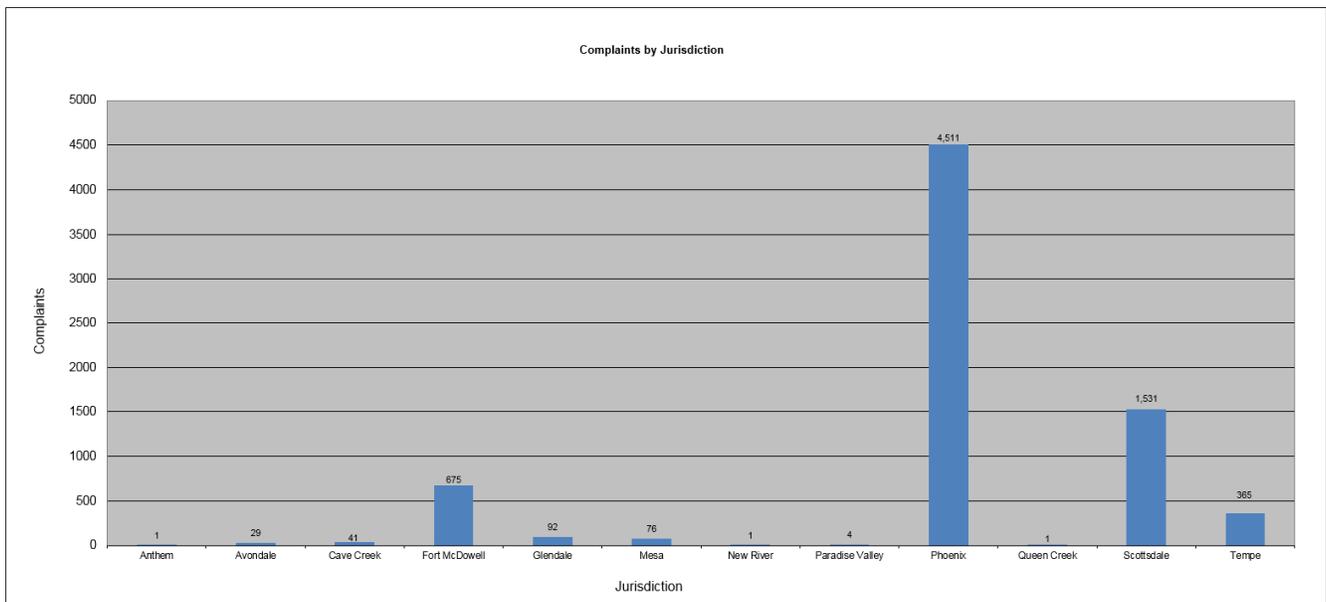
- The Airspace and Noise Section received 7,153 complaints from 253 households with regards to PHX, DVT, & GYR airports for the month of May 2016, and 174 for noise complaints for aircraft arriving or departing other airports in the Phoenix Valley.
- PHX had 37,437 operations in May 2016. This is a 1.1% decrease from April 2016. Phoenix Deer Valley Airport (DVT) had 31,682 operations in May 2016. This is a 5.5% decrease from April 2016. Phoenix Goodyear Airport (GYR) had 10,415 operations in May 2016. This is a 6.8% increase from April 2016.
- The 4 DME Compliance Rate for May 2016 was 99.52%.
- PHX operated 58.85% westerly and 41.15% easterly in the month of May 2016.

May 2016 Noise Complaints

Complaints: Many factors contribute to the amount of complaints received each month and by how many people. Complaint totals are rarely consistent due to factors ranging from one unusual flight event that generates multiple complaints from a large group of people, a bad weather day or change in the weather, or a new homeowner that did not notice the flight paths before they purchased their home.

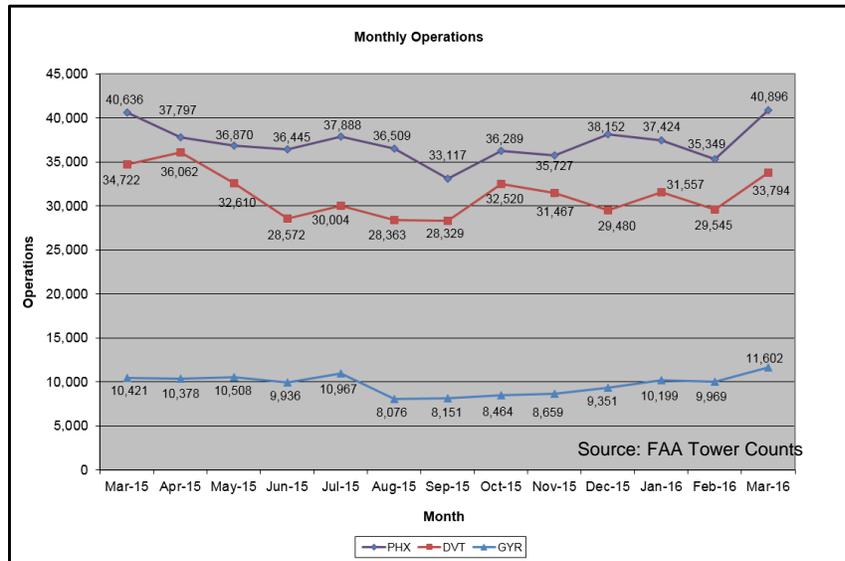
Complaint Statistics

	May-15			May-16	
	Households	Complaints		Households	Complaints
PHX- Sky Harbor	450	4,722		236	7,090
DVT- Deer Valley	10	35		16	62
GYR- Goodyear	4	4		1	1
Totals	464	4,761		253	7,153



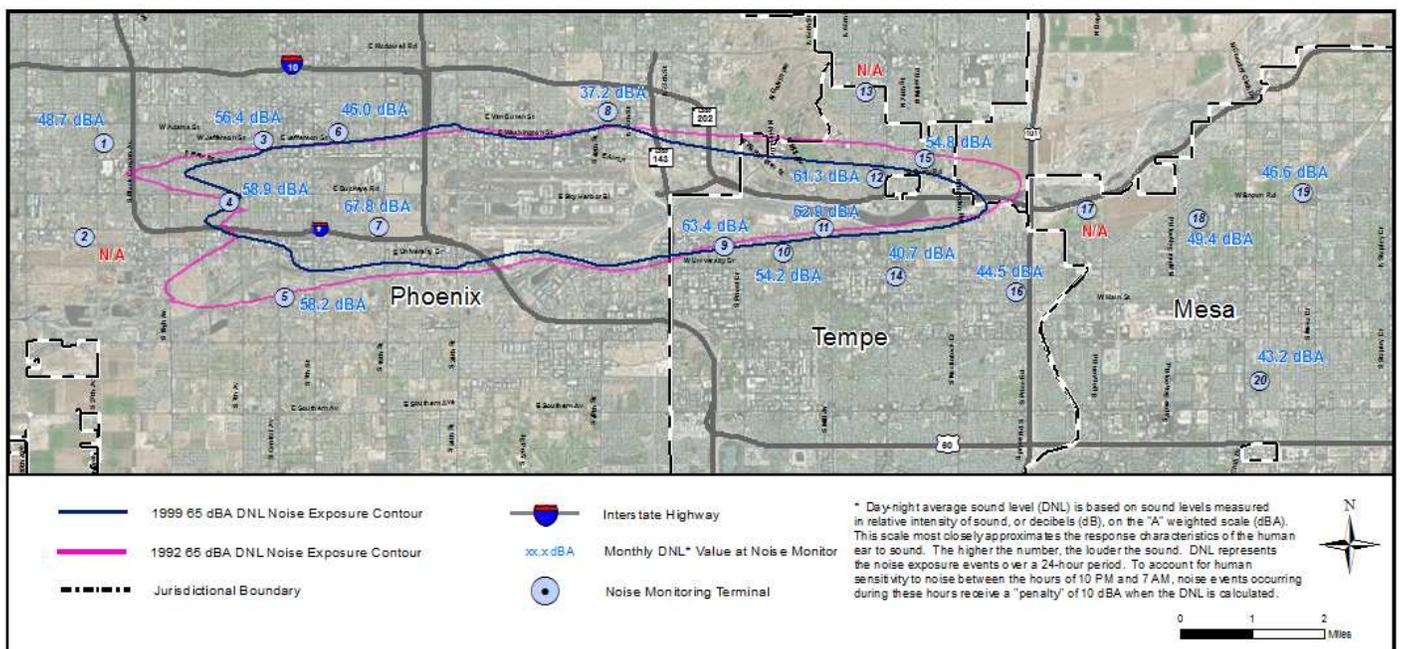
Airport Operations

Aircraft operations generally fluctuate due to seasonal and passenger demand. The graphic below depicts operation totals at Phoenix Sky Harbor International Airport (PHX), Phoenix Deer Valley Airport (DVT) and Phoenix Goodyear Airport (GYR). Examples of peak travel times are spring break, major sporting events, the end of the school year and winter holidays.



Noise Monitoring Sites

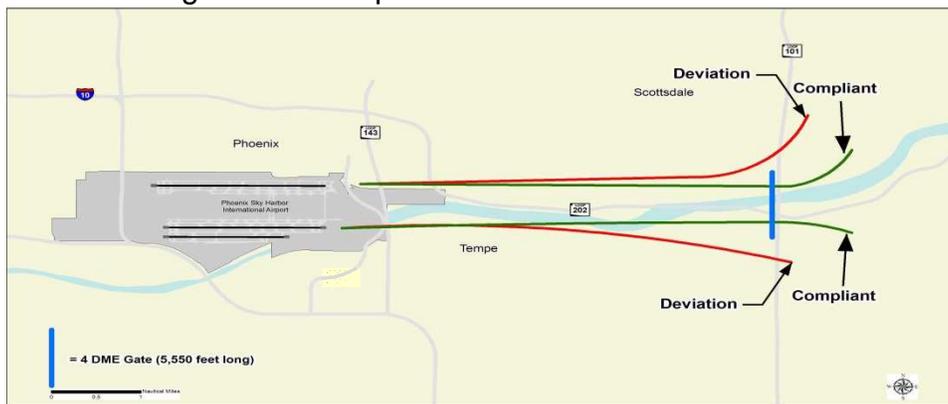
Noise Monitors: PHX has 20 noise monitors in the communities surrounding the Airport. These are located underneath the arrival and departure paths and in areas close to the Airport's noise contours. The monitors record aircraft noise events on a continual basis which then are compared with actual flight data from the FAA. Staff can then tie noise complaints to aircraft operations and any noise events correlated with those flights. Staff also monitors changes in monthly and annual noise readings at each location.



Note: Noise Monitoring Sites with an "N/A" did not provide usable data for the preceding month due to maintenance or operational testing, or non-aircraft noise events around the site.

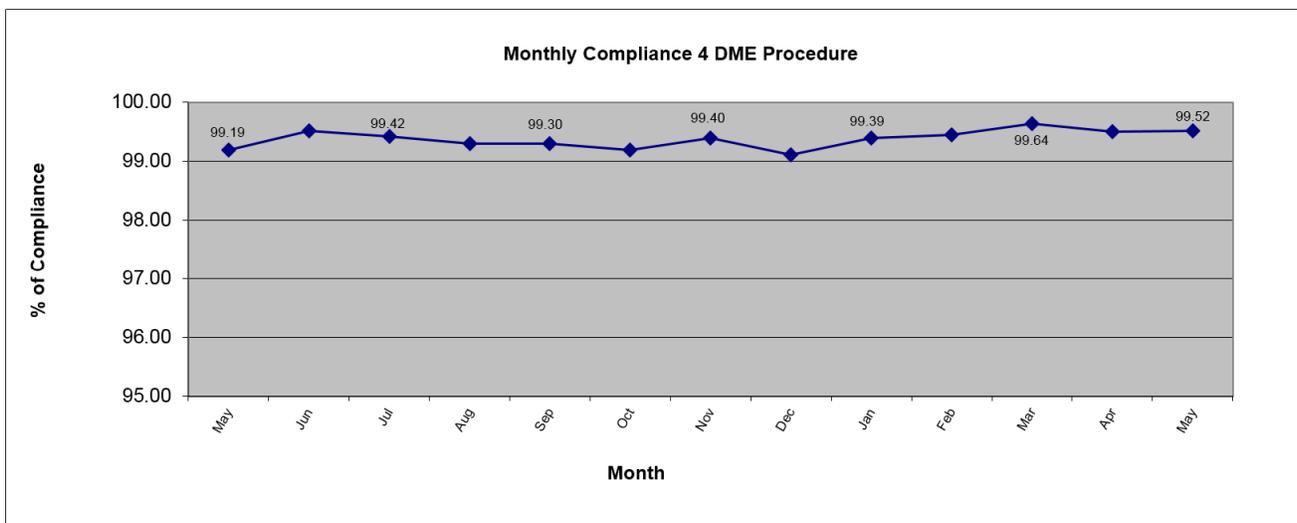
Fly Friendly Procedures

4 DME: The 4 DME (Distance Measuring Equipment) departure procedure directs jet aircraft departing to the east to travel generally along the Salt River for approximately 5 miles from the airport before turning. In the event that an aircraft deviates from the 4 DME departure procedure, Airspace and Noise Section staff will contact the carrier to determine the reason for the deviation and encourage future compliance.



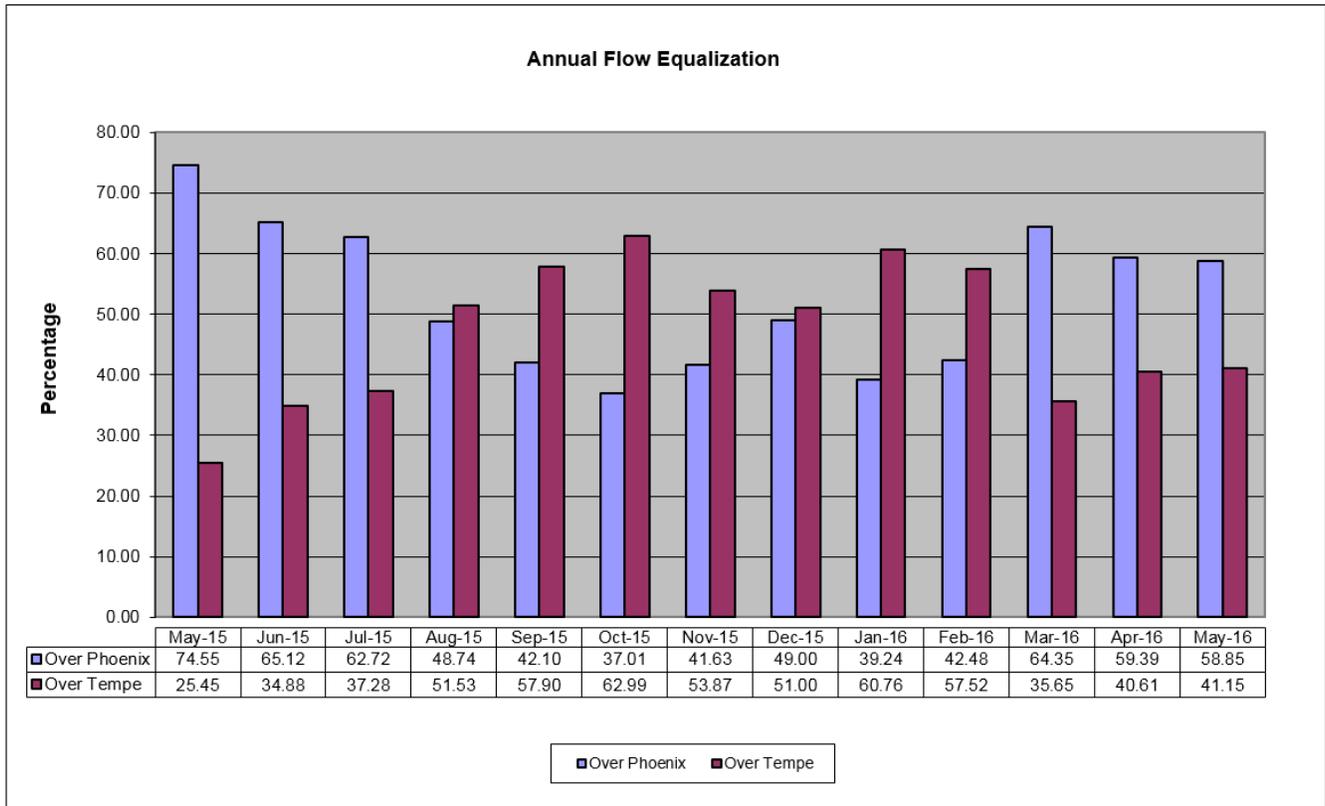
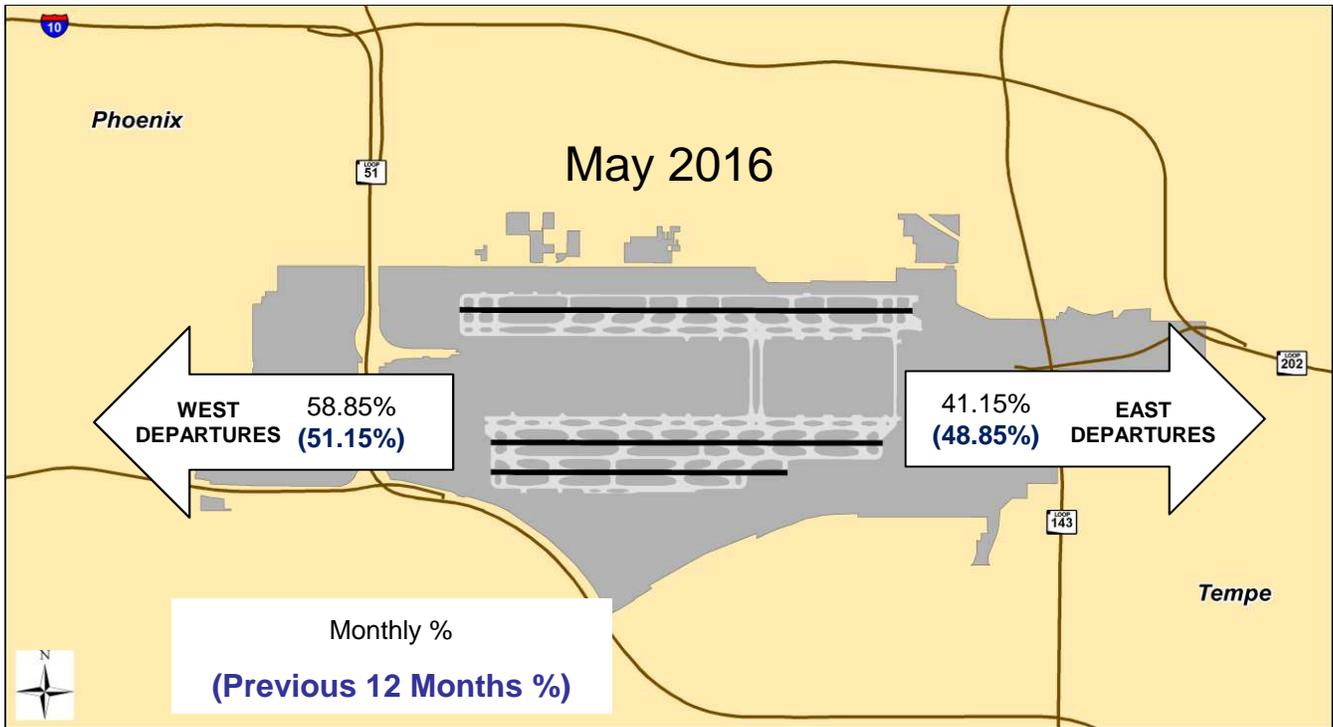
May 2016 4DME compliance rate: 99.52%

May 2016 4 DME Deviations			
Operators with 75 or more jet flights to the east shown			
Airline Name	Deviations	Total Departures to the East	% Compliance
American Airlines	3	2,250	99.87
Southwest Airlines	9	1969	99.54
Mesa Airlines	4	676	99.41
SkyWest Airlines	1	527	99.81
United Airlines	3	351	99.15
Delta Airlines	1	318	99.69
General Aviation	8	136	94.12
Alaska Airlines	0	121	100.00
Frontier Airlines	0	97	100.00
FedEx Airlines	0	84	100.00



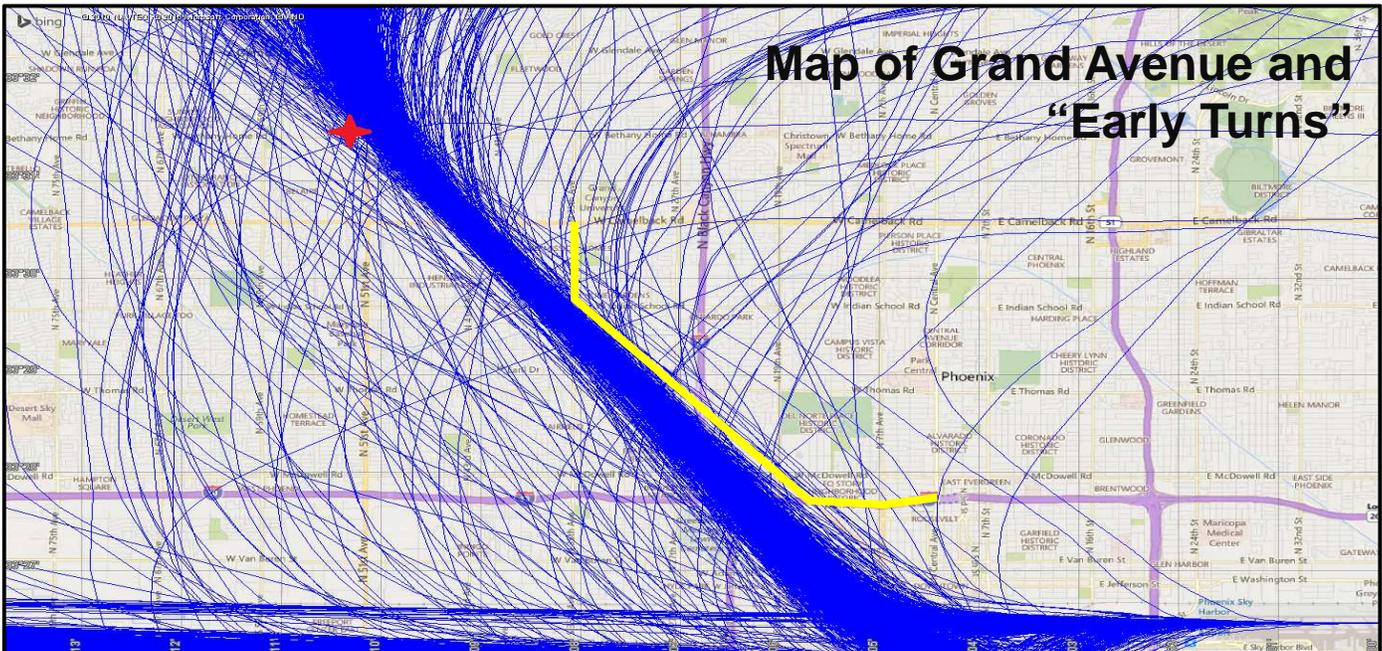
Fly Friendly Procedures Continued

Equalization: Phoenix Sky Harbor International Airport has a goal to equalize the amount of aircraft departures between the east and west over an annualized period. Because aircraft need to fly into the wind for added lift, there are times when weather can cause longer periods of flow in one direction versus the other.



“Early Turns” - Grand Avenue Month of May 2016

While a formal turning “gate” does not exist for RNAV northwest departures, the City has informally established a gate for monitoring purposes; generally depicted by the yellow line on the map below. Staff monitors the amount of jet aircraft that turn back to due north or east before going past the informal gate and publishes that data so that the community has a sense of aircraft flight paths that deviate from the RNAV corridor; which is consistent with the November 14, 2014 FAA instruction to PHX air traffic controllers to not issue early turns to aircraft unless doing so for safety purposes. Staff continues to work with the FAA on defining Northwest route “early turn” criteria so it is representative of FAA and reflective of community issues.



"Early Turns" - Grand Avenue 2016	
Counts derived from subjective analysis and subject to change	
Month	Counts
January	69
February	21
March	25
April	49
May	31
June	
July	
August	
September	
October	
November	
December	
Year To Date	195

**“Early Turns” - Grand Avenue
Month of May 2016 Continued
May 1-31 “Early Turns” FAA Info Table**

#	Operation Time	Type	Flight	AC Type	RWY	Destination
1	2016-05-30 18:54:17	Commercial	AAL2390	B738	25R	MCI
2	2016-05-03 17:05:56	Commercial	AAL580	A319	25R	GEG
3	2016-05-13 19:25:29	Commercial	ASH5610	CRJ9	25R	ABQ
4	2016-05-11 21:50:26	Commercial	ASH5616	CRJ9	26	ABQ
5	2016-05-11 15:45:36	Commercial	CFUBQ	C560	25L	YYC
6	2016-05-30 16:21:59	Commercial	DAL899	A320	25R	MSP
7	2016-05-06 18:05:28	Commercial	EJA215	F2TH	25R	LAS
8	2016-05-16 14:32:53	Commercial	GAJ508	C560	25L	APA
9	2016-05-15 17:23:06	Privately Registered	N311VP	C501	25L	UNK
10	2016-05-06 22:04:38	Privately Registered	N352HS	LJ35	25L	ABQ
11	2016-05-14 02:11:46	Privately Registered	N400GK	MU30	25L	LVK
12	2016-05-26 14:58:00	Privately Registered	N431MS	C550	25L	GPI
13	2016-05-11 16:06:07	Privately Registered	N757HW	B757	26	PHX
14	2016-05-06 14:50:12	Commercial	SKW4526	CRJ7	25R	SEA
15	2016-05-27 12:03:20	Commercial	SWA1159	B738	25R	MKE
16	2016-05-02 20:44:47	Commercial	SWA1371	B738	25R	ABQ
17	2016-05-04 20:17:34	Commercial	SWA1371	B738	25R	ABQ
18	2016-05-23 18:33:26	Commercial	SWA1413	B738	25R	MDW
19	2016-05-14 14:37:50	Commercial	SWA1424	B738	25R	MDW
20	2016-05-19 18:10:43	Commercial	SWA1909	B738	25R	BWI
21	2016-05-20 13:08:54	Commercial	SWA1912	B733	25R	LAS
22	2016-05-05 14:03:09	Commercial	SWA2044	B737	25R	DEN
23	2016-05-06 15:20:42	Commercial	SWA291	B737	25R	BUR
24	2016-05-12 20:47:15	Commercial	SWA2997	B738	25R	MKE
25	2016-05-08 17:03:32	Commercial	SWA3113	B733	25R	ABQ
26	2016-05-17 19:28:19	Commercial	SWA347	B733	25R	SEA
27	2016-05-06 13:30:13	Commercial	SWA3582	B738	25R	DEN
28	2016-05-11 20:15:04	Commercial	SWA429	B737	25R	MDW
29	2016-05-27 12:06:15	Commercial	UAL1110	A320	25R	ORD
30	2016-05-06 18:19:55	Commercial	UAL1486	A320	25R	DEN
31	2016-05-12 14:45:41	Commercial	UAL248	B739	25R	ORD