

PHX DVT GYR

 CITY OF PHOENIX AVIATION DEPARTMENT

Monthly Noise Report

March 2015

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Introduction/Summary

The Noise Information Office at Phoenix Sky Harbor International Airport (PHX) collects aircraft noise monitoring and flight operations data to provide the City of Phoenix with up-to-date information concerning aircraft noise exposure to the communities surrounding the Airport. Additionally, Noise Office staff receive and address complaints or concerns from citizens regarding aircraft noise through either the noise hotline (602-683-2669) or the electronic complaint form available on the PHX Web page: <https://skyharbor.com/NoiseComplaint.aspx>.

The following report provides a summary of the data collected by the Noise Office. Each section of the report is intended to show how trends in operation counts, flight direction, complaints, and adherence to the noise abatement procedures are independent of each other and the generation of noise from these operations.

Summary:

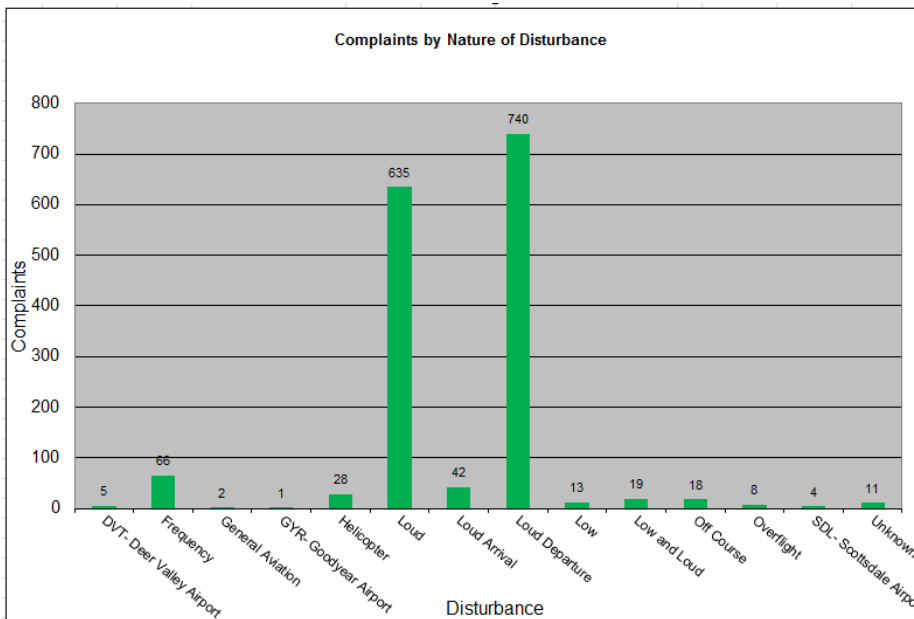
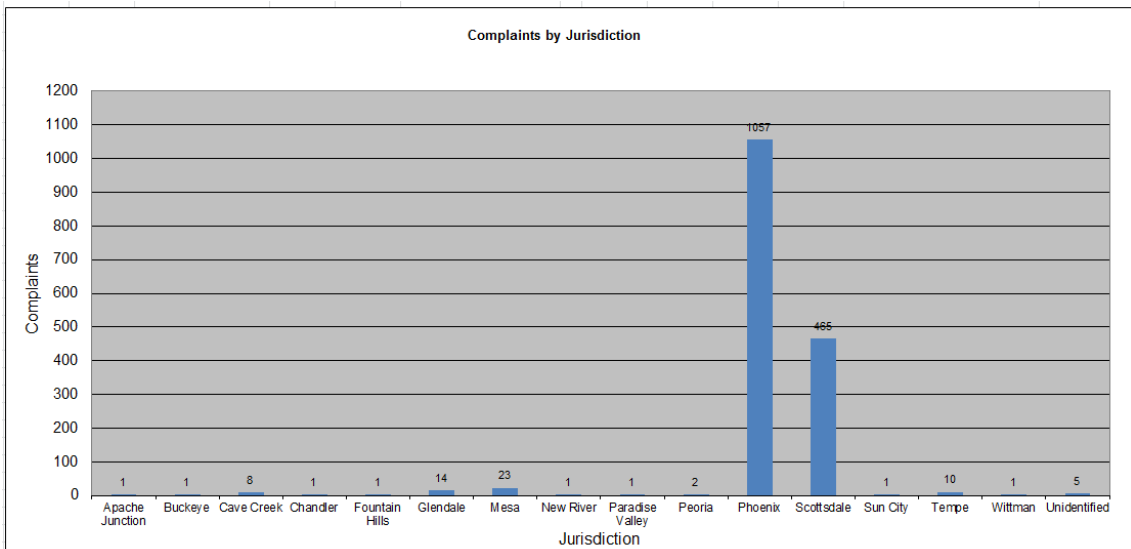
- On September 18, 2014 the Federal Aviation Administration (FAA) implemented new satellite based departure procedures from Phoenix Sky Harbor International Airport.
- The Noise Information Office received 1495 complaints from 349 households in March 2015.
- PHX had 40,636 operations in March 2015. This is a 19.5% increase from February 2015. Phoenix Goodyear Airport (GYR) had 10,421 operations in March 2015. This is an 18.7% increase from February 2015. Phoenix Deer Valley Airport (DVT) had 34,722 operations in March 2015. This is a 21.2% increase from February 2015.
- The 4 DME Compliance Rate for March 2015 was 99.03%.
- PHX operated 40.03% westerly and 59.97% easterly in the month of March 2015.

March 2015 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.

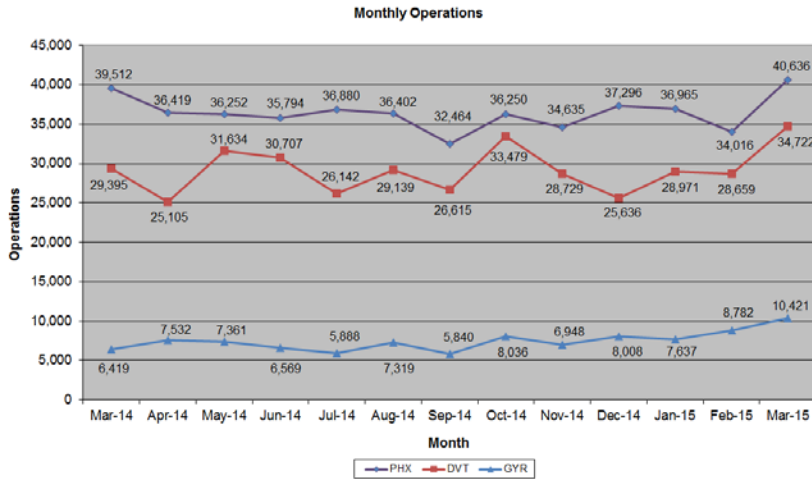
Complaint Statistics

	Mar-14			Mar-15	
	Households	Complaints		Households	Complaints
PHX- Sky Harbor	6	35		345	1490
DVT- Deer Valley	5	6		3	4
GYR- Goodyear	0	0		1	1
Totals	11	41		349	1495



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.



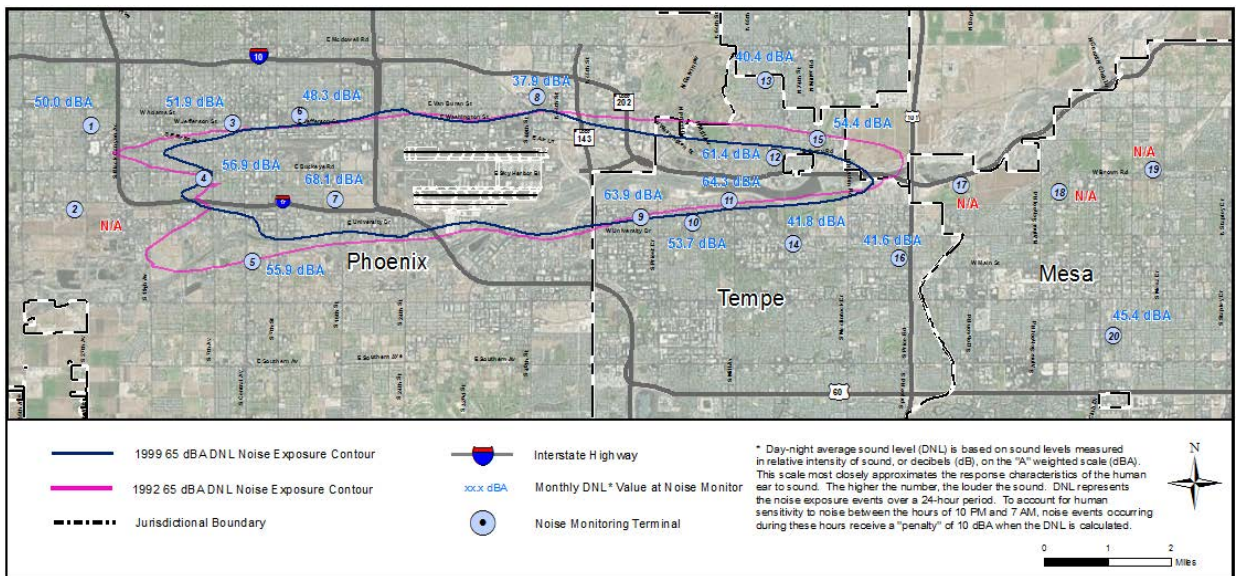
Source: FAA Tower Counts

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.

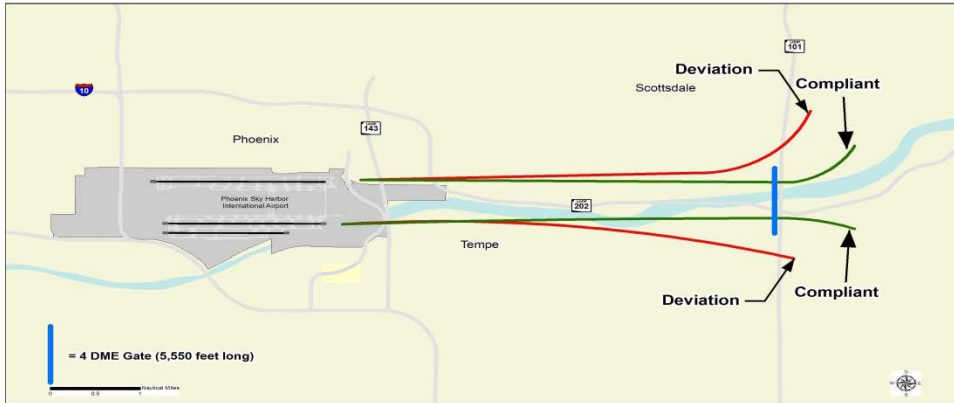
The monitors record aircraft noise events on a continual basis which then are correlated with actual flight data from the FAA. Noise Office staff can then associate noise complaints to aircraft operations and any noise events correlated with those flights. The Noise Office also monitors changes in monthly and annual noise readings at each location.

On the whole, aircraft related noise is on a decline from historical levels when older aircraft were operating at Phoenix Sky Harbor International Airport.



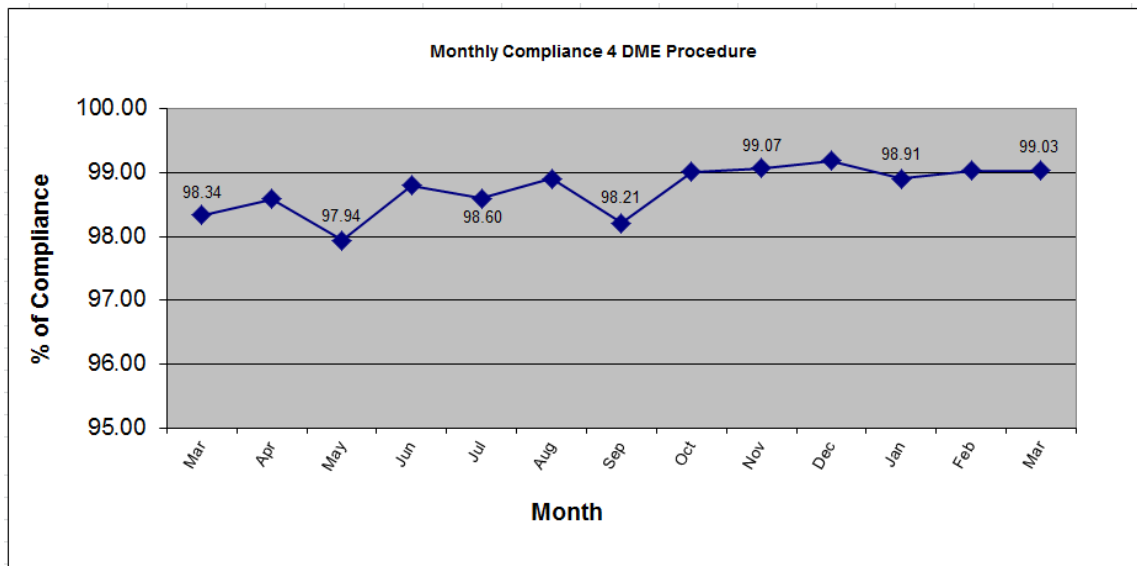
Fly Friendly Procedures

4 DME: The 4 DME (Distance Measuring Equipment) departure procedure directs jet propelled 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, Noise Office staff will contact the carrier to determine the reason for the deviation and encourage future compliance.



March 2015 4 DME compliance rate: 99.03%

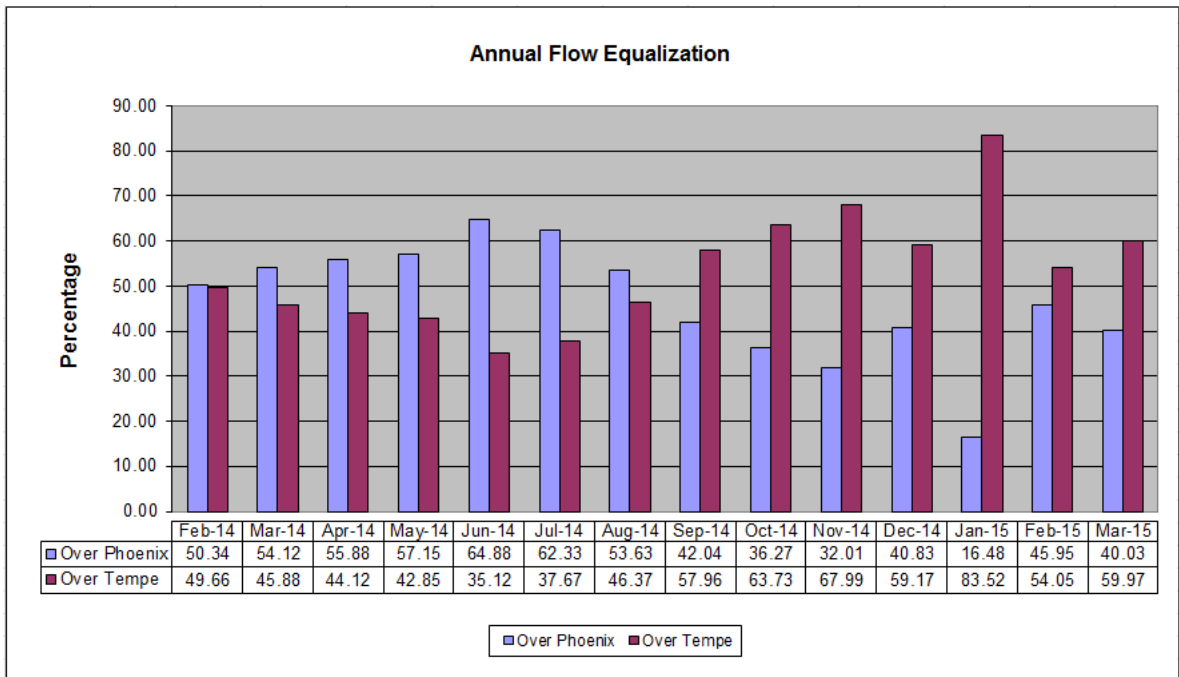
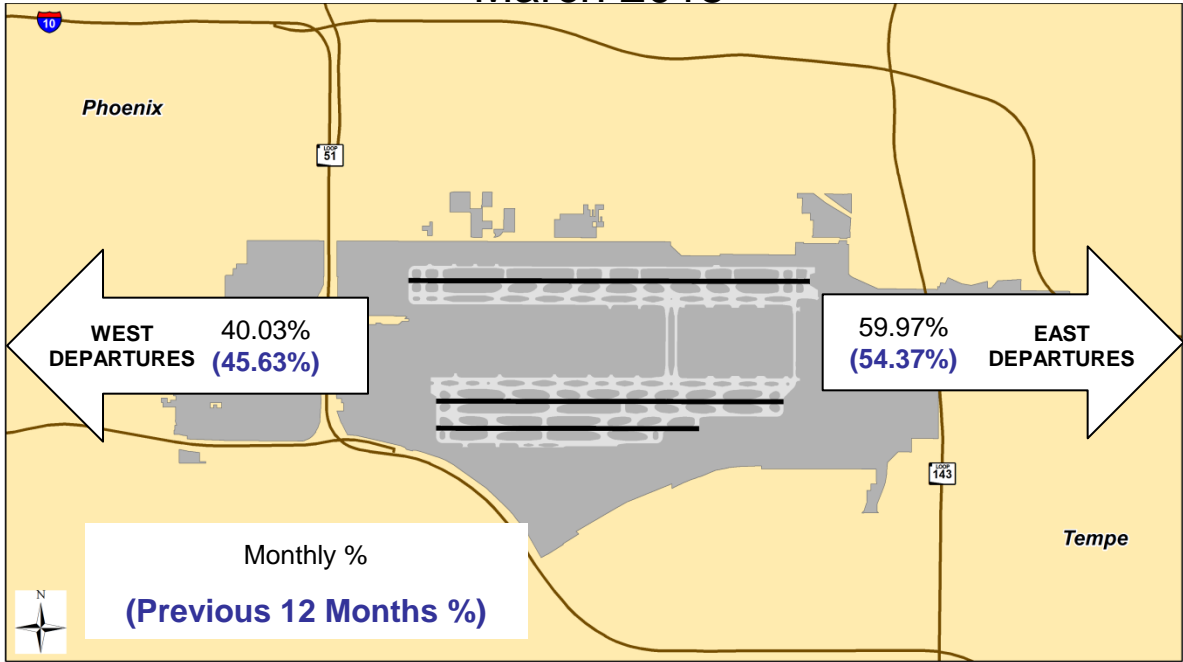
March 2015 4 DME Deviations			
Operators with 75 or more jet flights to the east shown			
Airline Name	Deviations	Total Departures to the East	% Compliance
US Airways	17	3,288	99.48
Southwest Airlines	33	3,095	98.93
Mesa Airlines	13	994	98.69
SkyWest Airlines	16	959	98.33
Delta Airlines	9	477	98.11
United Airlines	6	422	98.58
American Airlines	0	315	100.00
Alaska Airlines	0	162	100.00
WestJet Airlines	0	129	100.00
Frontier Airlines	1	123	99.19
Air Canada Rouge	3	101	97.03
FedEx Express	1	96	98.96
	99	10,161	99.03



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. Monthly equalization data is shared with the FAA to help meet this goal. 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.

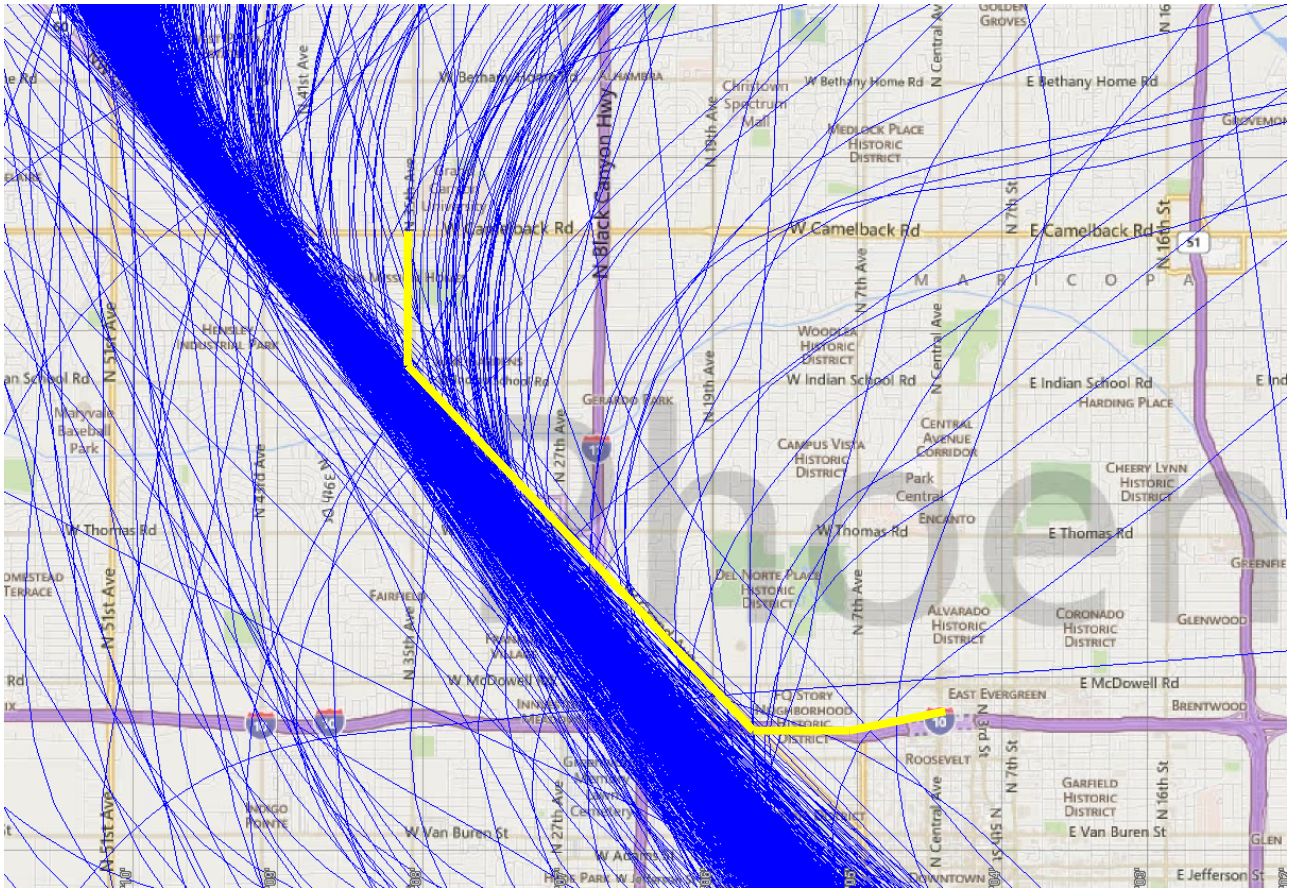
March 2015



“Early Turns” - Grand Avenue Month of March 2015

The graphic and table presented below was generated by the City of Phoenix’s Noise Information Office and is intended for display purposes only. The criteria used to gather and display the information is the interpretation of the Noise Office.

Map of Grand Avenue and “Early Turns”



"Early Turns" - Grand Avenue 2015	
Counts derived from subjective analysis and subject to change	
Month	Counts
January	71
February	40
March	69
April	-
May	-
June	-
July	-
August	-
September	-
October	-
November	-
December	-
Year To Date	180