

***PHX DVT GYR***

 CITY OF PHOENIX AVIATION DEPARTMENT

## **Monthly Noise Report**

**February 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: <http://www.phoenix.gov/email/emphxnoise.html>.

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:

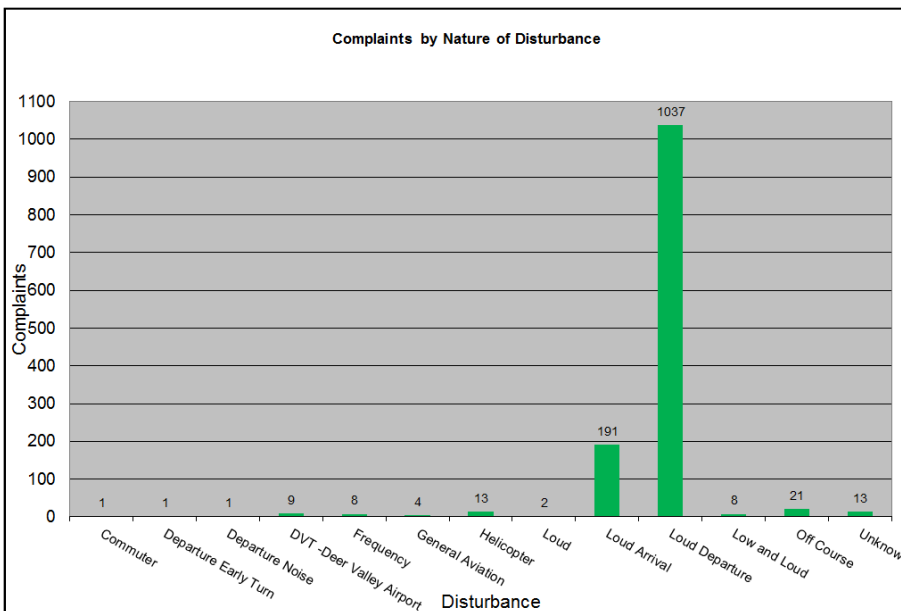
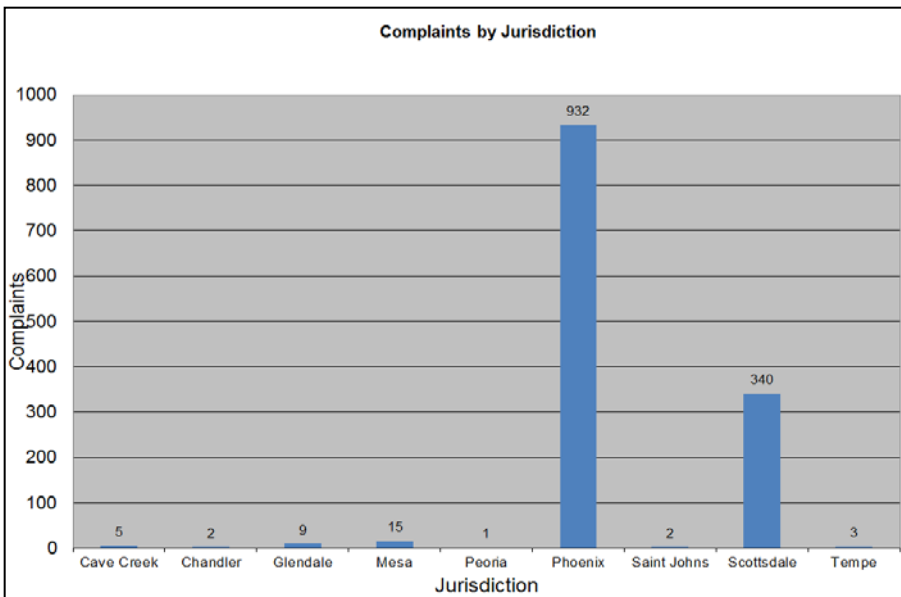
- On September 18, 2014 the Federal Aviation Administration (FAA) implemented new satellite based departure procedures from Phoenix Sky Harbor International Airport.
- The Noise Abatement Office received 1277 complaints from 271 households in February 2015.
- PHX had 34,016 operations in February 2015. This is an 8.7% decrease from January 2015. Phoenix Goodyear Airport (GYR) had 8,782 operations in February 2015. This is a 15.1% increase from January 2015. Phoenix Deer Valley Airport (DVT) had 28,659 operations in February 2015. This is a 1.1% decrease from January 2015.
- The 4 DME Compliance Rate for February 2015 was 99.03%.
- PHX operated 45.95% westerly and 54.05% easterly in the month of February 2015.

# February 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.

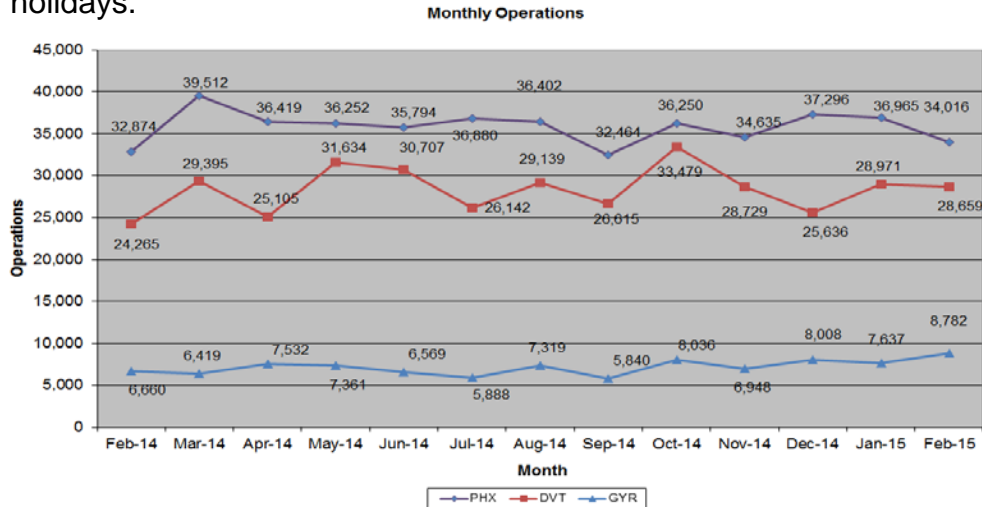
## Complaint Statistics

	Feb-14			Feb-15	
	Households	Complaints		Households	Complaints
PHX- Sky Harbor	4	42		262	1268
DVT- Deer Valley	1	1		9	9
GYR- Goodyear	1	1		0	0
Totals	6	44		271	1277



# 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.



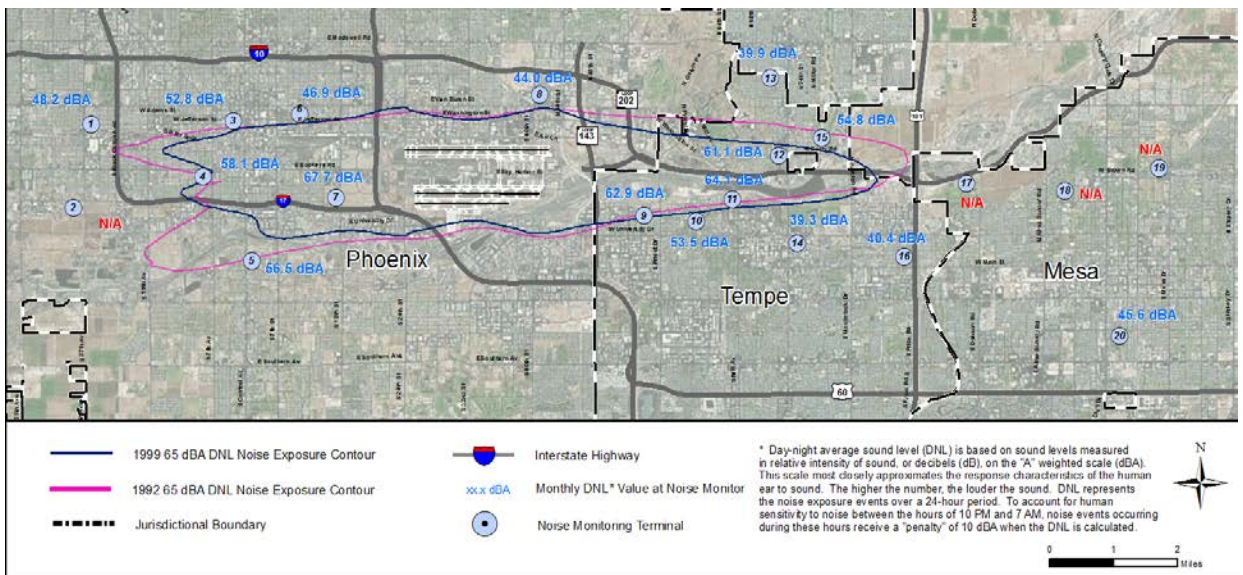
Source: FAA Tower Counts

## 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.

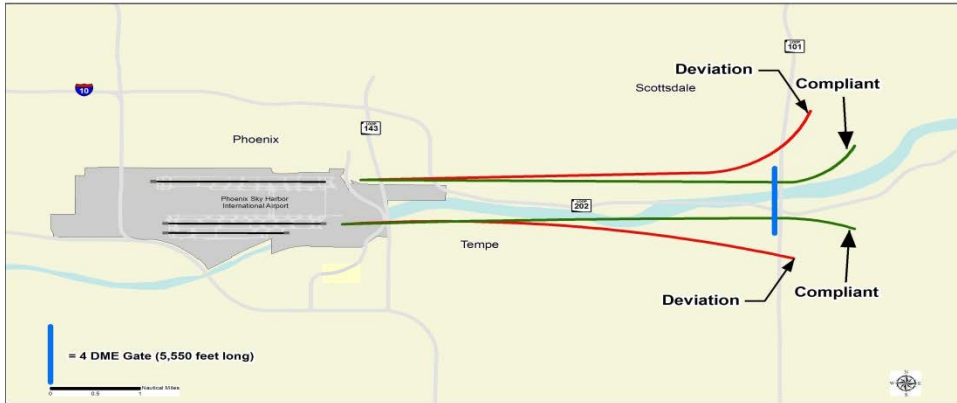
The monitors record aircraft noise events on a continual basis which then are correlated with actual flight data from the FAA. Noise Office staff can then associate noise complaints to aircraft operations and any noise events correlated with those flights. The Noise Office also monitors changes in monthly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



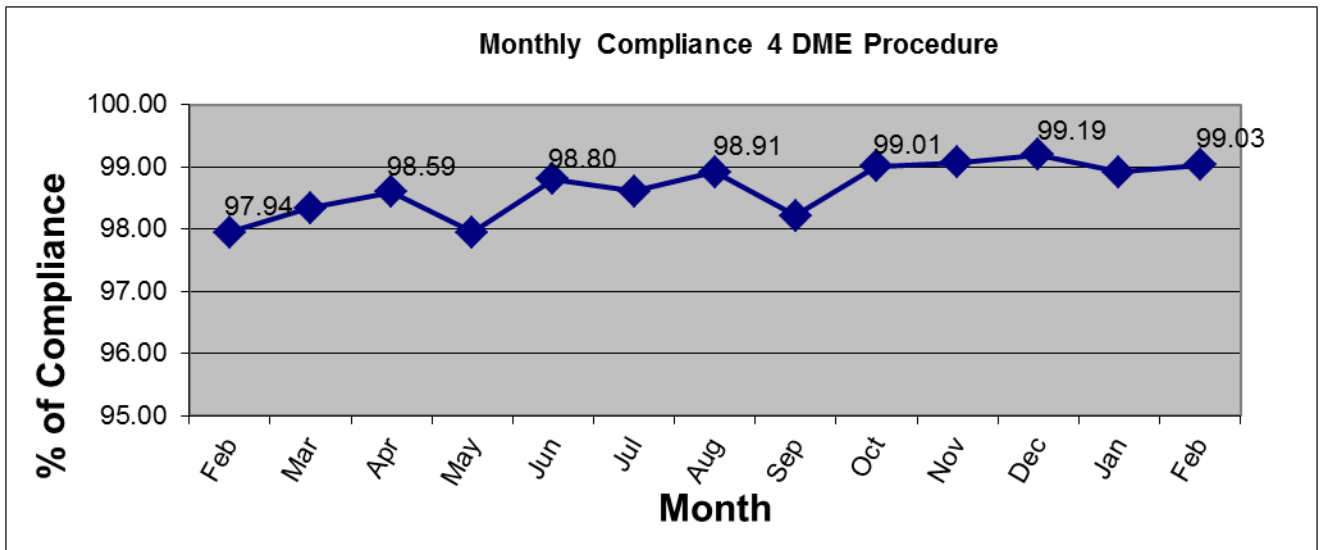
# Fly Friendly Procedures

**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.



February 2015 4 DME compliance rate: 99.03%

February 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	16	3163	99.49
Southwest Airlines	16	2277	99.30
Skywest Airlines	7	727	99.04
Delta Airlines	5	366	98.63
United Airlines	2	355	99.44
American Airlines	0	231	100.00
West Jet	0	99	100.00
Frontier Airlines	0	109	100.00
Alaska Airlines	0	107	100.00
FedEx Express	0	100	100.00
	<b>80</b>	<b>8,206</b>	<b>99.03</b>



# 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.

## February 2015

