

Monthly Noise Report August 2017

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For additional information, please visit skyharbor.com/FlightPaths

Overview

The City of Phoenix Aviation Department operates the Phoenix Airport System which consists of Phoenix Sky Harbor International Airport (PHX), Deer Valley (DVT) and Goodyear (GYR) Airports. The Department serves as the primary liaison between the community, Airlines and the Federal Aviation Administration (FAA) with regard to aircraft overflight activity and noise concerns. While the authority to control aircraft in flight and on the ground lies exclusively with the FAA, the Airlines control the number of flights and flight schedules. The Department collects aircraft noise and flight operations data to analyze, advise and assist the community with up-to-date information. Additionally, the Department manages noise concerns received from residents through a variety of services including the noise hotline, PlaneNoise smartphone app, PublicVue flight tracker and the Department's website complaint form. This report provides a summary of the data collected for the preceding month and in context with historical data for operation counts, flight direction, complaints, and adherence to noise abatement procedures.

AUGUST 2017

X

- PHX had 35,648 operations (1% less than
- DVT had 29,570 operations (2.4% less than last month)

last month)

GYR had 12,631 operations (52.3% more than last month)

■ 110 households filed 3,237 complaints

(PHX, DVT and

 Staff received and responded to 51 requests for follow-up

GYR)

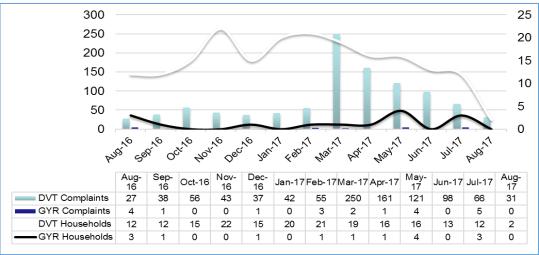


- "4-DME" compliance rate was 99.75% (PHX)
- "Equalization" rate was 41.76% westerly and 58.33% easterly (PHX)
- "Early Turn" ops were29 (PHX northwest departures)

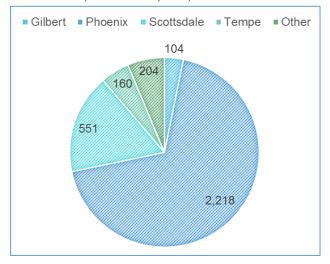
Noise Complaints

Many factors contribute to the number of complaints received each month and by how many people (households) including irregular operations, weather, seasonal demand changes, or new residents moving into an area impacted by aircraft operations.

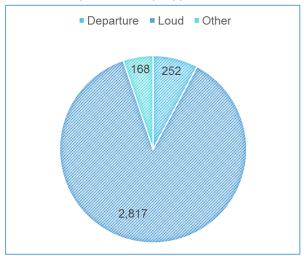




Noise Complaints – By City



Noise Complaints – By Type

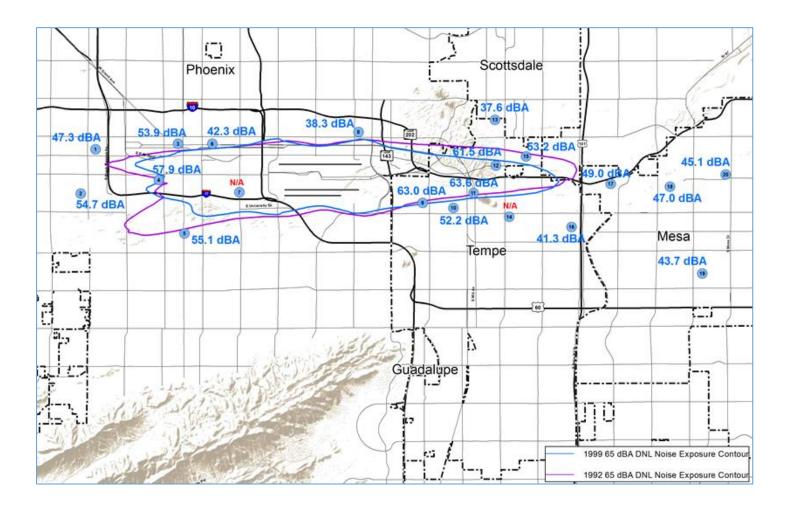


Operations

The graph below shows monthly aircraft operations over the last year (March is historically the PHX peak)



Noise Monitoring Sites



20 noise monitors surround PHX in the communities of Phoenix (8), Tempe (8), and Mesa (4). The noise readings are computed as A-weighted sound level averaged over a 24-hour period with penalty weighting for noise events between 10pm and 7am. Use of the dBA and penalty weighting for nighttime events help ensure noise readings reflect community annoyance factors and issues specific to human hearing and noise energy frequencies.

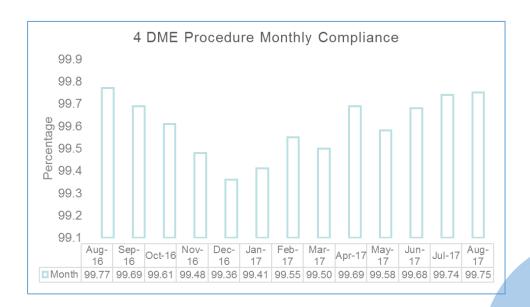
Noise Monitoring Site	LdnA	Change From Previous Month	Noise Monitoring Site	LdnA	Change From Previous Month		
NMS01	47.3	-0.7	NMS11	63.8	0.2		
NMS02	54.7	-0.2	NMS12	61.5	-0.6		
NMS03	53.9	-1.3	NMS13	37.6	0.2		
NMS04	57.9	-0.9	NMS14	N/A	N/A		
NMS05	55.1	-1.4	NMS15	53.2	-1.6		
NMS06	42.3	-2.5	NMS16	41.3	3.6		
NMS07	N/A	N/A	NMS17	49.0	N/A		
NMS08	38.3	2.2	NMS18	47.0	0.4		
NMS09	63.0	0.2	NMS19	43.7	-3.1		
NMS10	52.2	-0.4	NMS20	45.1	2.6		
	*NMS7 & NMS14 were removed for construction & will be replaced						

Noise Mitigation Procedures

Working with the community, the FAA has implemented a variety of noise reduction measures. While some procedures may not be used at all times because of wind, weather, and other operational considerations; the Aviation Department encourages maximum use to the extent possible by monitoring and reporting on procedure compliance.

Tempe "4 DME"

The 4 DME departure procedure directs jet aircraft departing PHX to the east to fly generally along the Salt River for approximately 6 miles before turning. The 4 DME procedure is designed to keep aircraft over the Salt River.



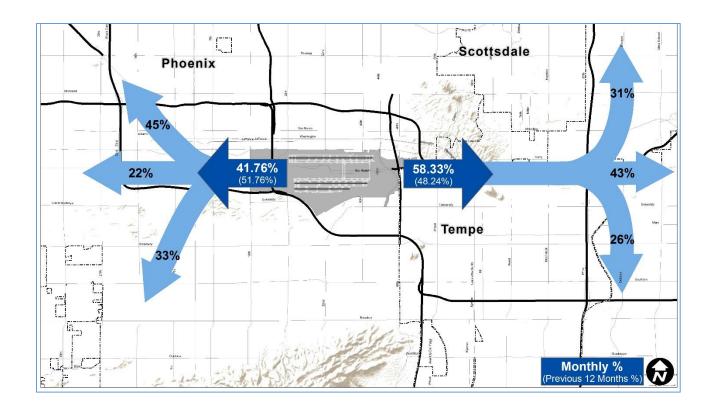
Airline	Deviations	Departures	% Compliance
American Airlines	1	2,122	99.95
Southwest Airlines	6	2,066	99.71
Mesa Airlines	0	577	100.00
SkyWest Airlines	1	426	99.77
Delta Airlines	0	286	100.00
United Airlines	0	242	100.00
Frontier Airlines	1	113	99.12
FedEx Airlines	0	93	100.00
General Aviation	3	93	96.77
UPS Airlines	0	86	100.00
Alaska Airlines	0	75	100.00

99.75%

4DME compliance rate

Equalization

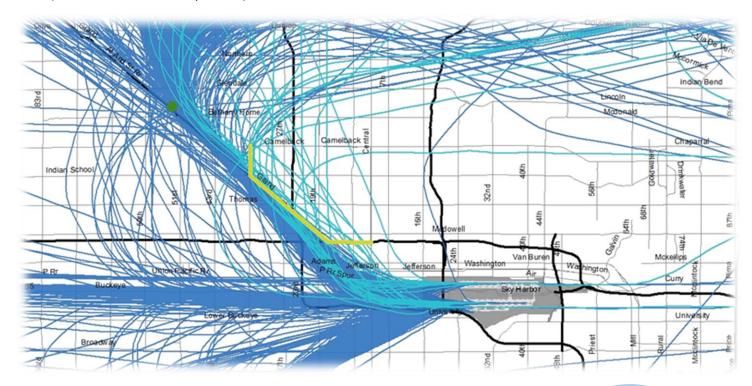
The equalization policy for departures ensures that averaged over a calendar year, departures are equally distributed in east and west flow to minimize noise impacts to any one specific area. FAA typically directs more operations to the west during the summer and to the east in the winter due to the prevailing winds during those seasons.





Grand Ave "Gate"

Shortly after the FAA implemented area navigation (RNAV) procedures at PHX in 2014, a "gate" was established for northwest departures to reduce noise impact to Phoenix historic neighborhoods; the gate reduces the number of operations that "early turn" prior to Grand Avenue or "early turn" back over the community before reaching Camelback Road (as illustrated on the map below).



Conclusion

Monitoring community noise impacts and advocating for continuous improvement through noise mitigation and abatement is a team effort; the Aviation Department relies on the valued feedback and time of community members in communicating ongoing concerns and new issues. The Aviation Department strives to facilitate compliance, awareness and positive change with regulators (FAA) and operators (airlines) so that our community may enjoy all of the benefits of a world-class Airport System with the absolute minimum of impacts to any household or place where the effect of aircraft operations is not beneficial. Please contact the Department Noise Office with questions regarding this report or any other matter related to aircraft noise and the City's Airport System.

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70 60 50 40 30 20 10 Aug- Sep- Oct- Nov- Dec- Jan- Feb- Mar- Apr- May- Jun-Jul-Aug-17 17 17 17 17 17 17 16 16 16 16 16 □Early Turns 34 38 10 40 33 40 42 59

99.57%

"24/7 Hotline" 844-244-743

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