

Monthly Noise Report February 2019

CONTENTS

OVERVIEW	2
FEBRUARY 2019	2
NOISE COMPLAINTS	2
NOISE COMPLAINT MAP	3
NOISE COMPLAINTS – BY COMMUNITY	4
NOISE COMPLAINTS – BY TYPE	4
OPERATIONS	4
NOISE MONITORING SITES	5
NOISE MITIGATION PROCEDURES	6
TEMPE “4 DME”	6
EQUALIZATION	7
JOINT PETITION “43 RD AVE GATE”	8
CONCLUSION	8



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) regarding 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.

February 2019



PHX: 34,108 operations
(9.3% less than last month)

DVT: 34,201 operations
(18.9% less than last month)

GYR: 8,227 operations
(21.9% less than last month)



108 households filed
4,939 complaints for PHX,
DVT and GYR Airports

Staff received and
responded to **55 requests**
for follow-up

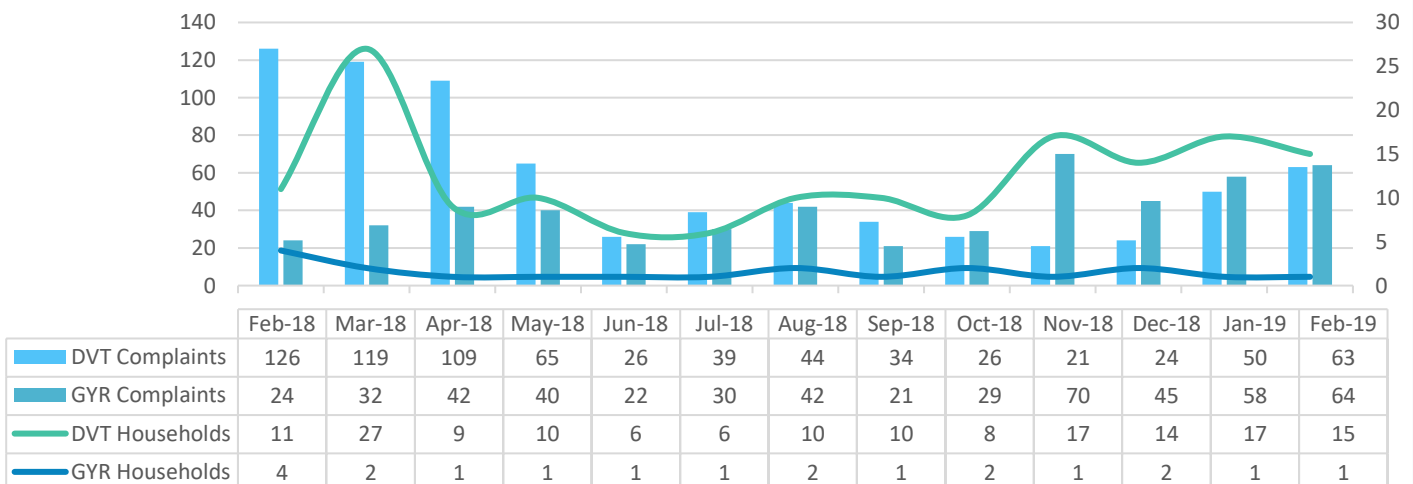
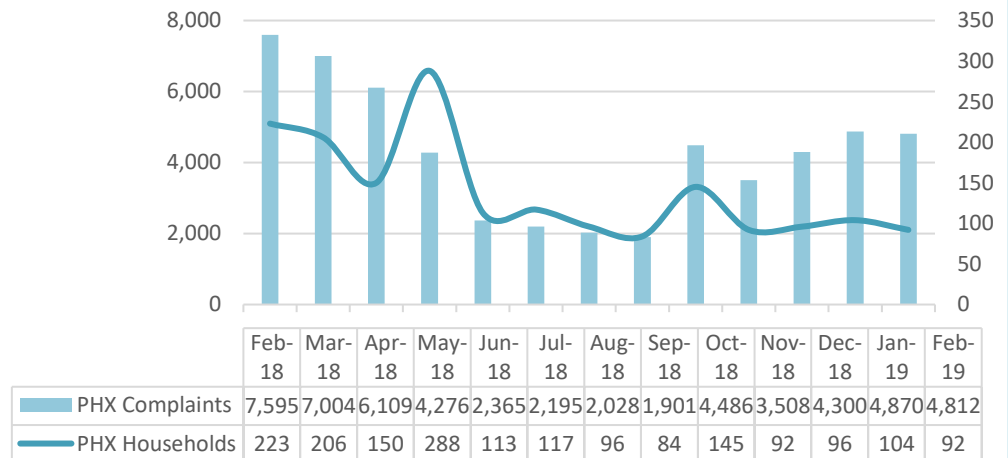


"4-DME" compliance
rate was **99.45%** (PHX)

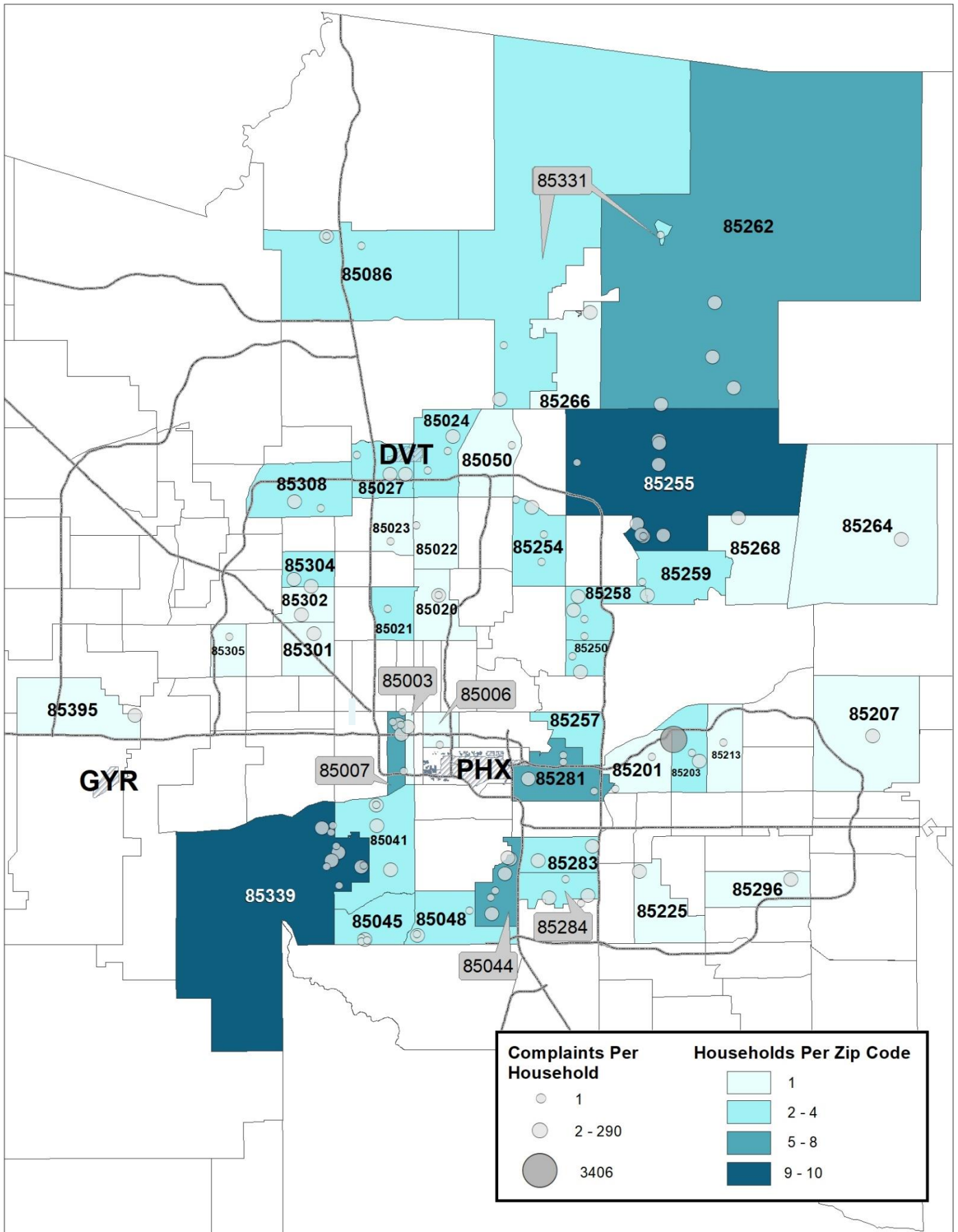
"Equalization" rate was
53.89% westerly and
46.11% easterly (PHX)

Noise Complaints

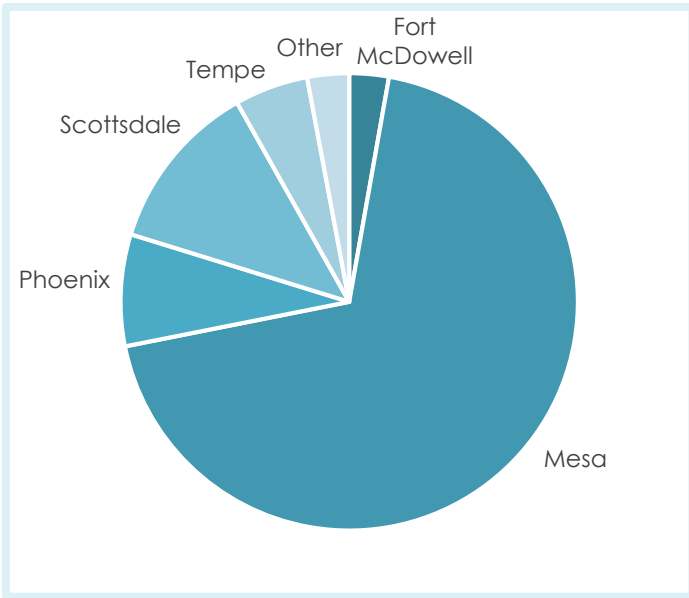
Many factors contribute to the number of complaints received each month and by how many people (households) including irregular operations, weather, seasonal demand changes, or new residents moving into an area impacted by aircraft operations.



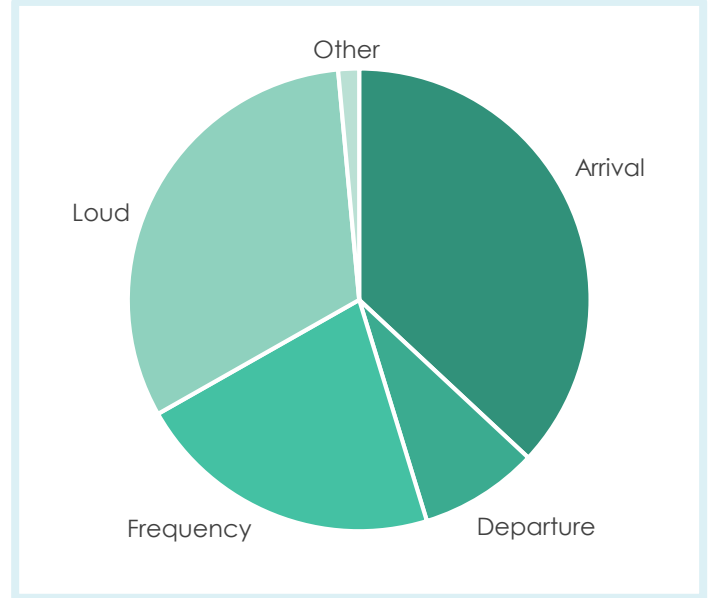
February Complaints by Zip Code



Noise Complaints – By Community

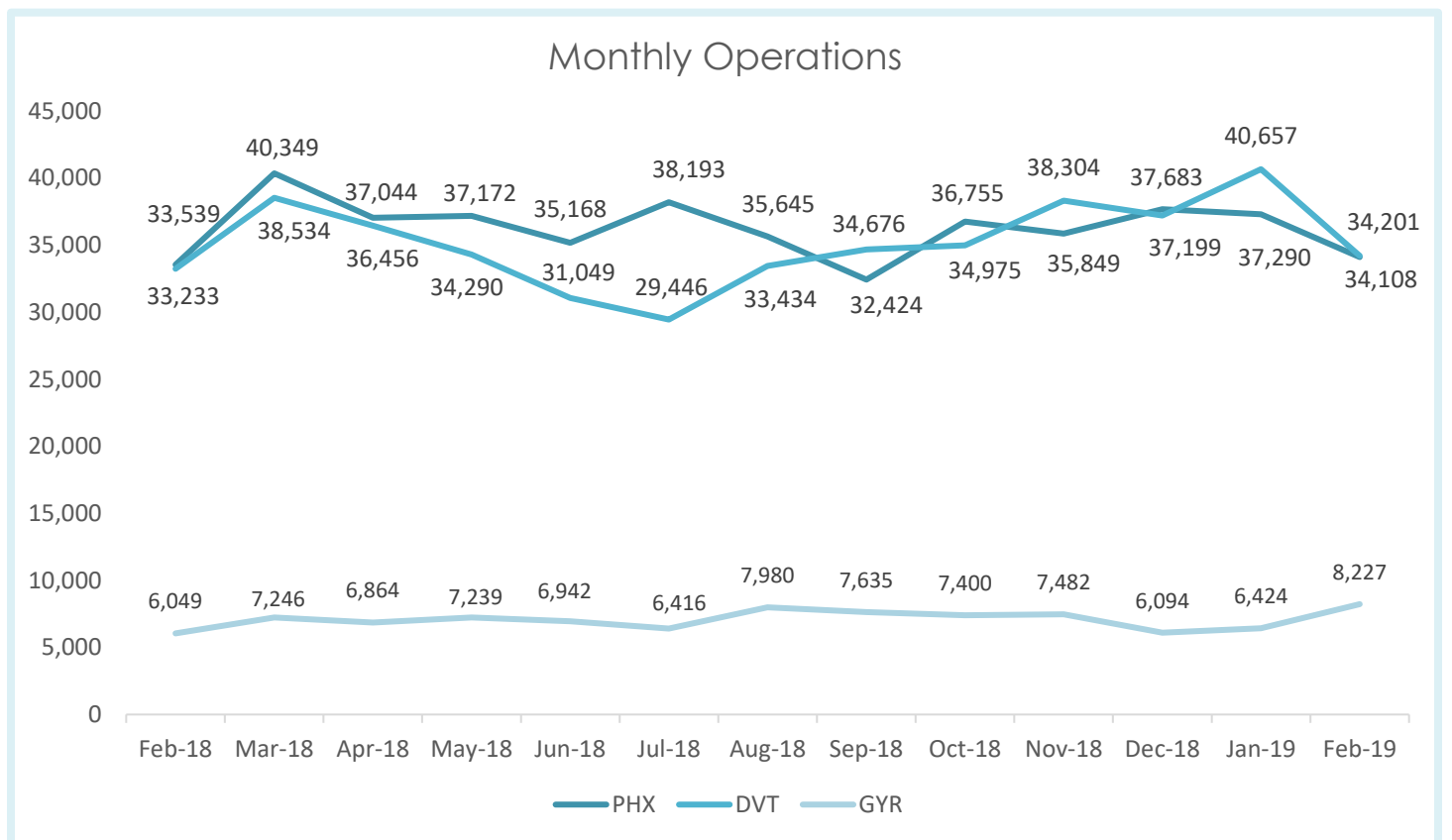


Noise Complaints – By Type



OPERATIONS

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



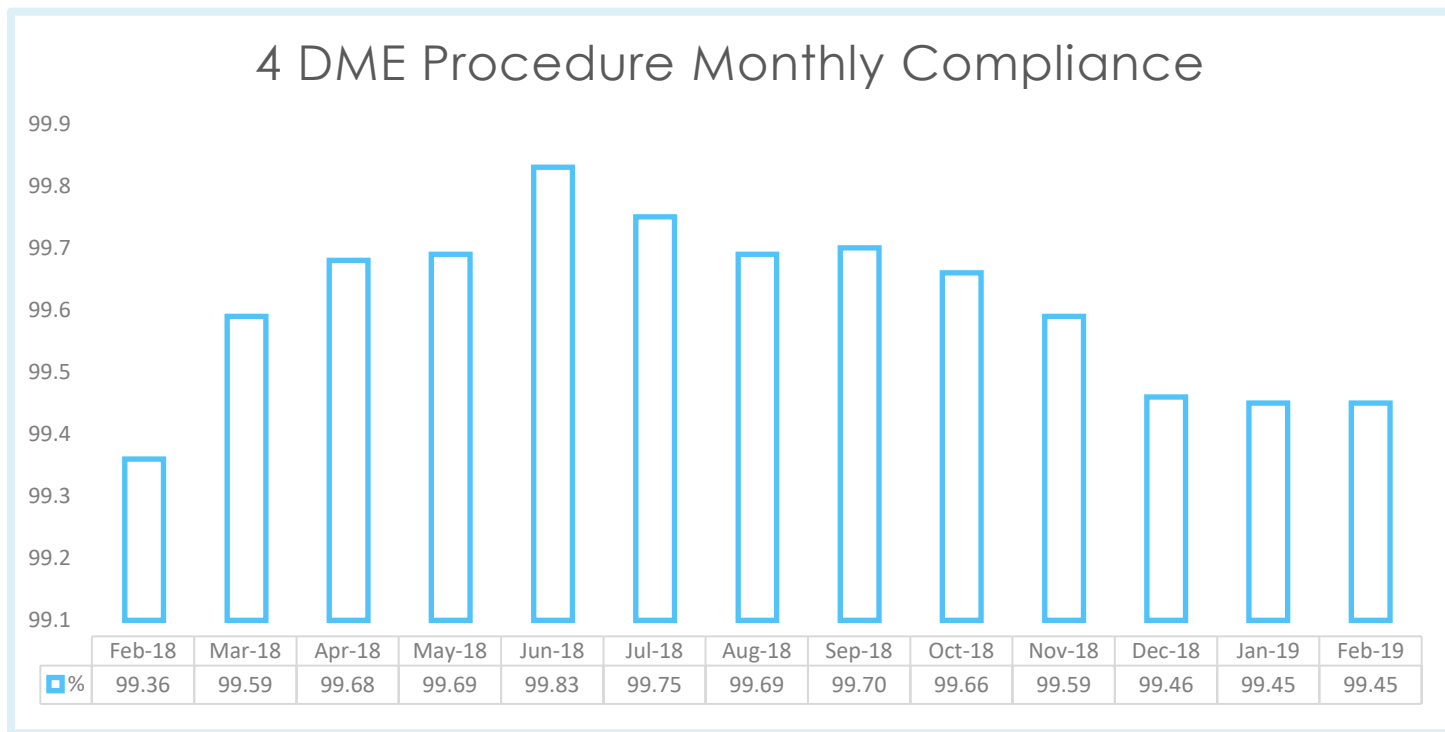
NMS	1	2	3	4	5	6	7	8	9	10	
	LdnA	50.4	54.9	52.3	60.8	N/A	N/A	N/A	37.3	64.6	55.5
	% Δ	0.2	-0.1	0.5	1.4	N/A	N/A	N/A	-0.3	-0.1	1.6
NMS	11	12	13	14	15	16	17	18	19	20	
	LdnA	64.9	62.6	N/A	41.6	57.3	42.1	53.2	51.4	49.1	46.6
	% Δ	0.1	1.1	N/A	0.5	1.9	2.1	4.3	2.3	1.9	0.5

NOISE MITIGATION PROCEDURES

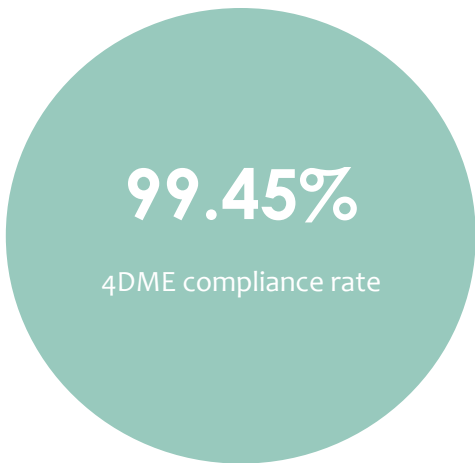
Working with the community, the FAA has implemented a variety of noise reduction measures. While some procedures may not be used at all times because of wind, weather, and other operational considerations; the Aviation Department encourages maximum use to the extent possible by monitoring and reporting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

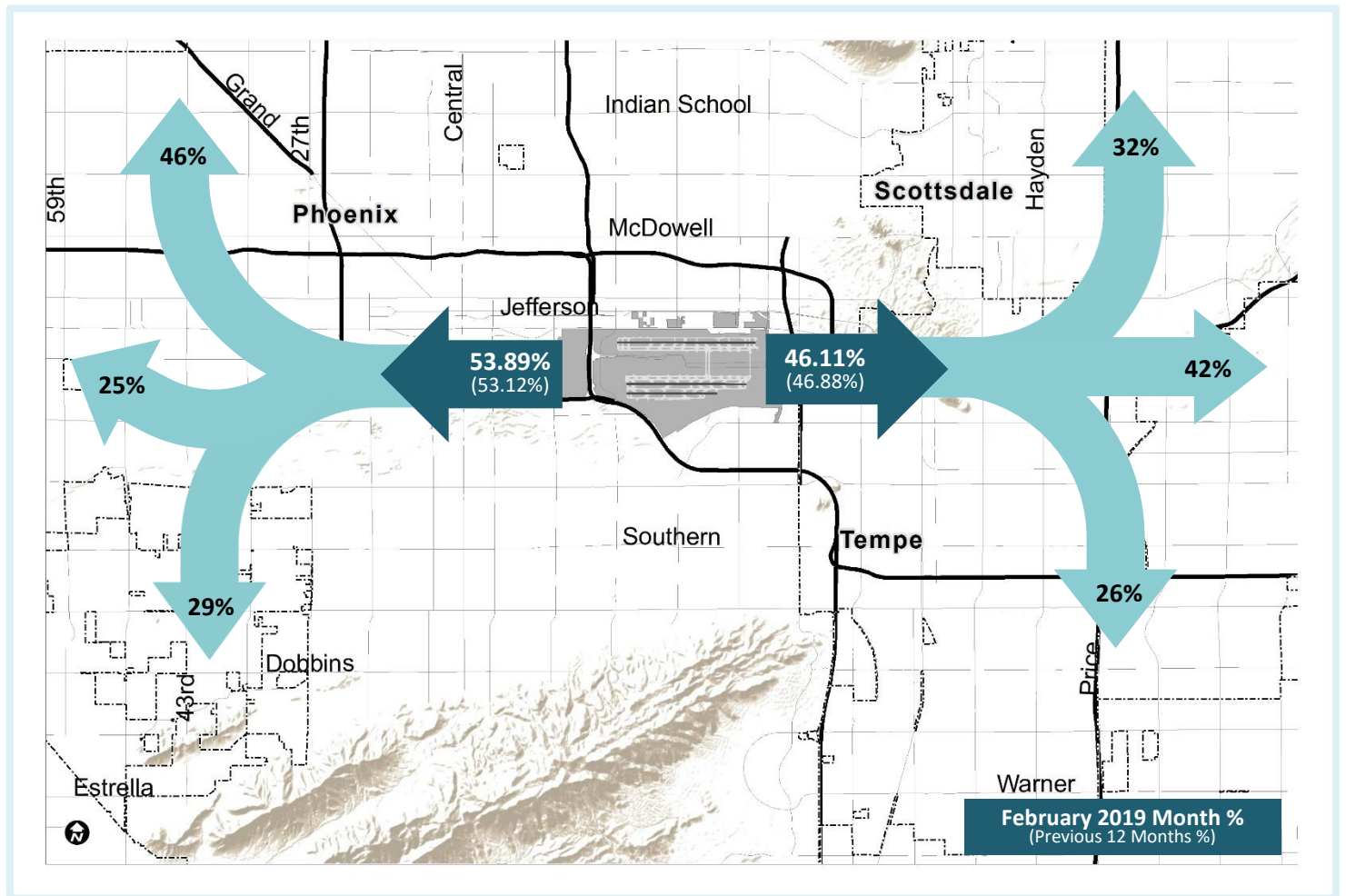


Operator	Dev.	Dep.	% Compliant
American Airlines	1	2,175	99.95%
Southwest Airlines	8	2,049	99.61%
Mesa Airlines	0	690	100.00%
Delta Air lines	2	351	99.43%
United Airlines	1	342	99.71%
SkyWest Airlines	2	336	99.40%
Non-airline	14	162	91.36%
Alaska Airlines	0	153	100.00%
Frontier Airlines	0	113	100.00%
FedEx Express	0	87	100.00%
West Jet Airlines	0	86	100.00%

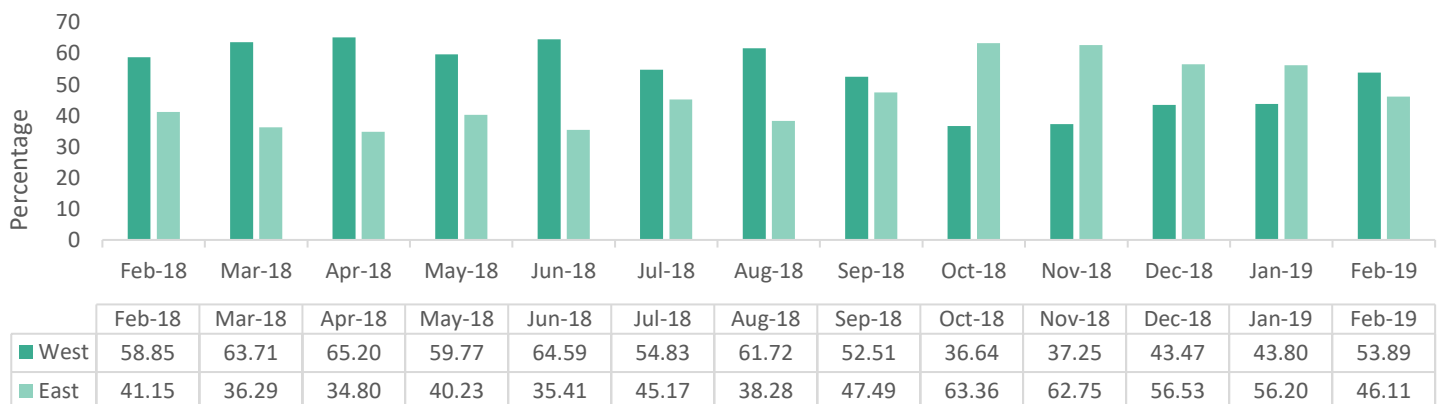


Equalization

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.

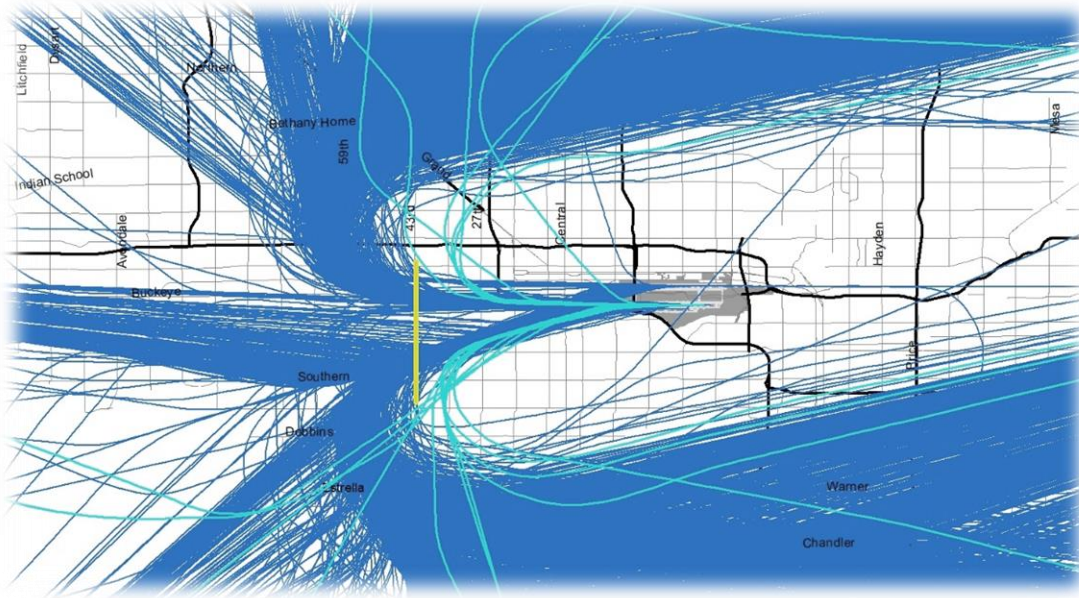


Annual Flow Equalization



Joint Petition “43rd Ave Gate”

Per the Joint Petition between FAA, City, and Historic Neighborhoods accepted by the US Court of Appeals; FAA must approximate the location of historical west-flow departures in using performance-based navigation or RNAV. The Joint Petition provides that in approximating the historical departures, the FAA will not turn aircraft prior to 43rd Avenue unless there is a unique safety or weather issue. Similar to the 4DME compliance monitoring the Aviation Department conducts for east-flow departures; the following graphic shows the amount of “early turns” relative to 43rd Avenue for the preceding month.



West Flow Jet Departures February 2019

Total

7,505

Early Turns

19 (0.25%)

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 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 Aviation Department Noise Office with questions regarding this report or any other matter related to aircraft noise and the City’s Airport System.



Complaint Hotline

(844) 244-7430



Complaint Webform

<http://www.planenoise.com/copad/q3qH4u/>



Download the Plane Noise app

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