



City of Phoenix Aviation Department 2019 Annual Noise Report

The Annual Noise Report summarizes aircraft noise data for the preceding calendar year. City of Phoenix operates three airports; Phoenix Sky Harbor International (PHX), Phoenix Deer Valley (DVT), and Phoenix Goodyear (GYR).

Complaint Hotline

Toll Free: (844) 244-7430

Local: (602) 683-2669

Complaint Webform

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

Download the Plane Noise app

<http://www.planenoise.com/mobile/phoenix/jr3wcQ2/>

Subscribe to updates

<https://www.skyharbor.com/FlightPaths>

April 22, 2020

2019, Comparison of Annual Data

PHX	2019	2018	2017	2016	2015	2014	2013
Operations	438,891	434,252	430,968	440,643	440,411	430,461	436,184
Complaints	60,922	52,164	100,808	81,340	24,247	3,006	221
Households	408	610	666	755	1,338	658	45

DVT	2019	2018	2017	2016	2015	2014	2013
Operations	456,790	415,16	378,777	370,034	369,759	339,493	354,995
Complaints	466	710	1,261	619	717	77	45
Households	87	96	108	112	94	33	29

GYR	2019	2018	2017	2016	2015	2014	2013
Operations	117,300	83,223	111,163	123,334	111,330	83,516	120,655
Complaints	461	412	41	15	40	8	3
Households	9	7	41	15	22	6	3

2019, Year in Review

Phoenix vs. FAA

In 2014, the FAA changed flight procedures at Sky Harbor without following key environmental and administrative procedures. In 2015, Phoenix and Historic Neighborhoods filed suit. In 2017, the United States Court of Appeals ruled in favor of the City/ Neighborhoods and a two step settlement agreement with FAA was completed. In 2018, the FAA held “Step 1” public meetings and restored west departure procedures to their original corridors. In 2019, the FAA held “Step 2” public meetings to consider additional airspace changes. In January of 2020, the FAA provided the public a summary of Step 2 comments and concluded their actions under the settlement agreement.

Noise Monitor Upgrades

In 2019, Phoenix upgraded all noise monitors surrounding Sky Harbor for better data collection and monitor reliability. In addition, 16 of the monitors were converted to solar power systems.

Flight Procedure Monitoring

In addition to monitoring current overflight and airspace compliance; staff reviews proposed FAA flight procedures. In 2019, staff reviewed 27 new procedures.

Comparison of 2019 Monthly Data

PHX	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Operations	37,290	34,108	40,549	37,583	36,526	34,547	35,368	35,322	33,997	37,483	36,437	39,681
Complaints	4,870	4,812	5,378	5,428	6,839	3,944	2,371	2,290	7,025	5,386	7,656	4,342
Households	104	92	103	143	120	66	60	58	90	51	96	90

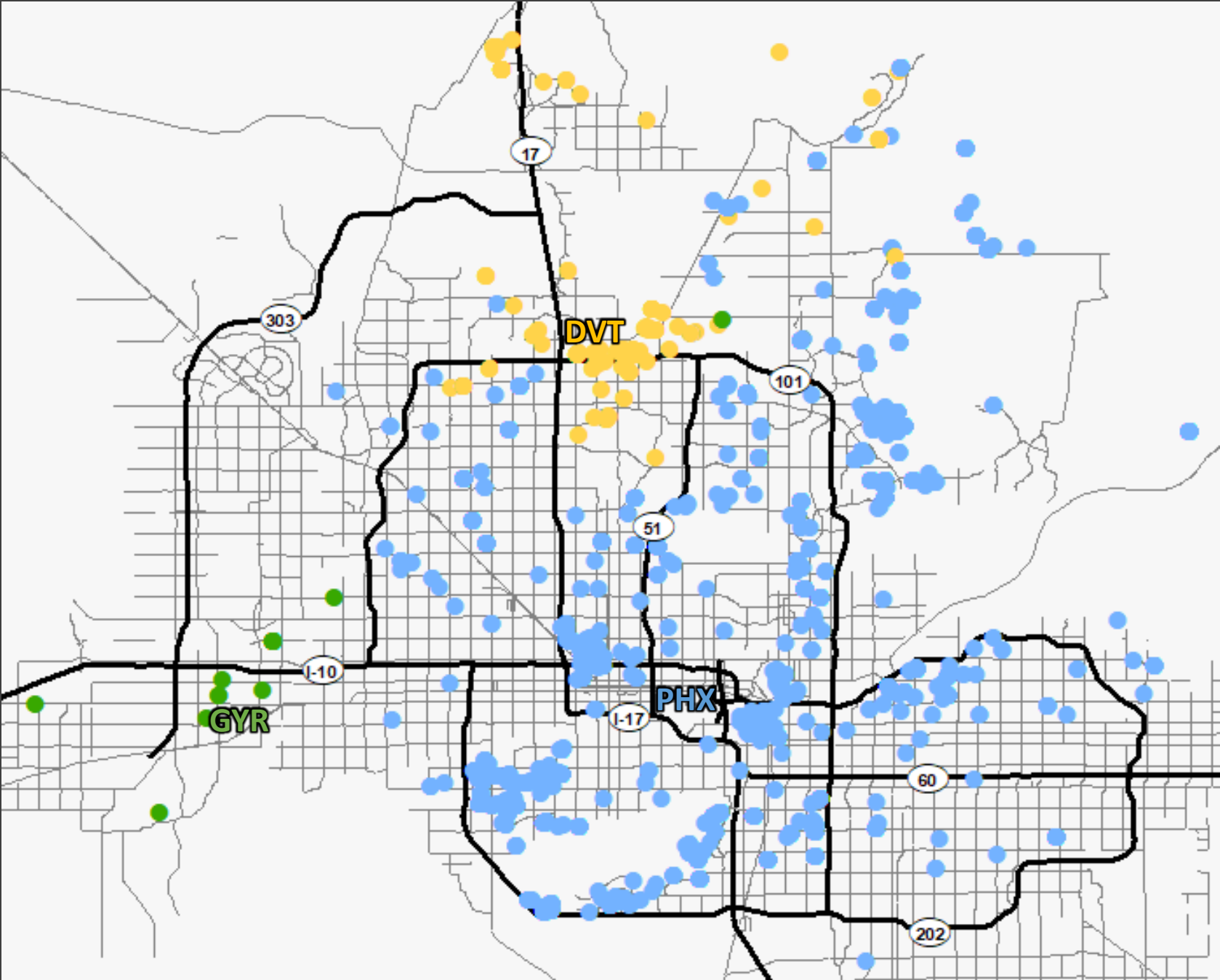
DVT	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Operations	40,657	34,201	40,740	40,422	40,322	37,740	35,578	37,920	36,067	40,409	36,708	36,016
Complaints	58	64	90	60	59	22	16	13	28	41	25	11
Households	17	15	31	16	14	8	6	8	9	11	7	8

GYR	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Operations	6,424	8,227	9,807	10,414	10,990	9,080	9,434	11,445	10,368	11,023	10,670	9,418
Complaints	58	64	90	47	38	26	28	15	22	26	44	11
Households	1	1	5	4	3	1	2	1	1	2	1	2

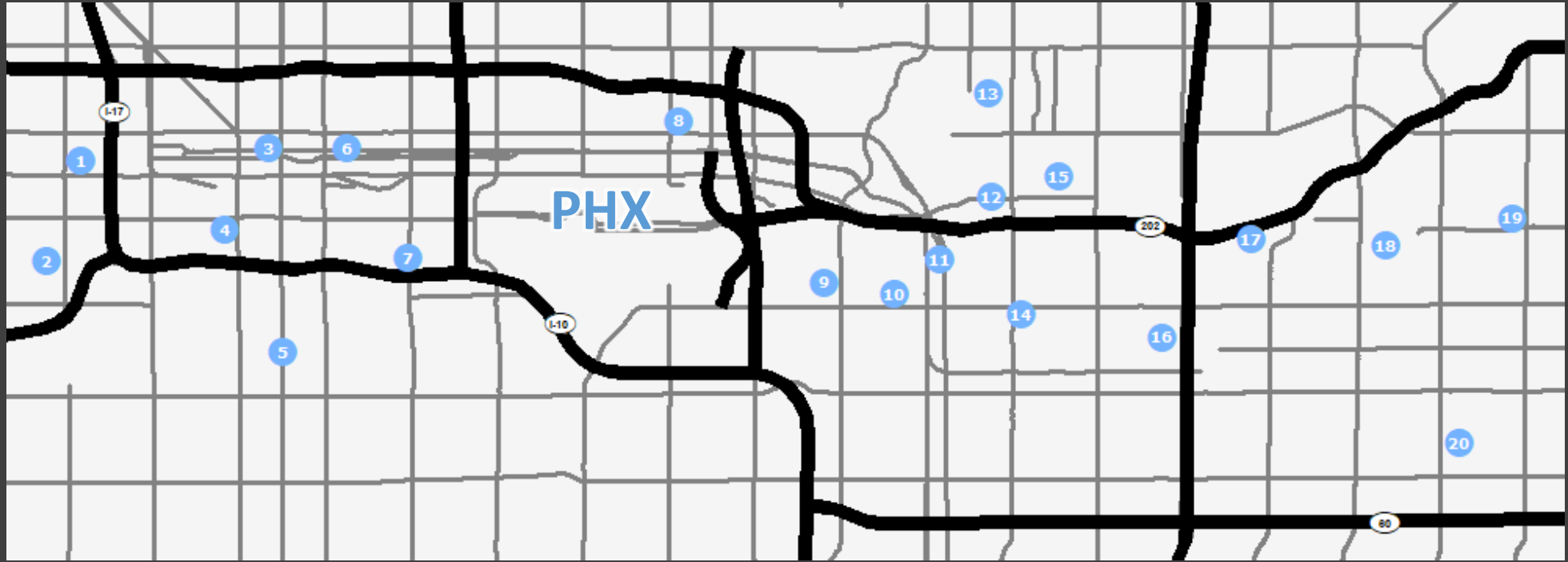
Map of 2019 Complainant Households

Complainant Airport

- PHX
- DVT
- GYR



2019, Comparison of Annual Noise Monitor Readings



Avg. Sound Level (dB)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
2019	51	55	53	60	N/A	N/A	N/A	39	64	55	64	62	N/A	40	56	40	51	50	47	46
2018	50	55	54	60	55	47	68	40	64	54	64	62	37	41	55	40	50	49	46	46
2017	48	54	56	59	57	46	68	40	63	54	64	62	38	N/A	56	41	49	49	47	45
2016	48	54	55	59	57	46	68	38	62	54	64	61	39	41	54	43	N/A	49	46	44
2015	48	46	54	59	56	48	67	44	62	56	64	60	38	43	55	42	N/A	48	46	45
2014	50	60	54	59	55	47	67	47	62	54	63	62	39	40	55	41	N/A	48	46	45
2013	50	55	53	59	54	37	67	45	63	53	61	60	40	44	55	42	N/A	48	46	43

2019, Sky Harbor Noise Abatement Data

Departure Corridor Equalization

To minimize community impacts from overflight, Phoenix works with FAA to ensure departures from Sky Harbor are balanced in terms of east and west flows over the calendar year.

Departures	2019	2018	2017	2016	2015	2014	2013
East	45%	47%	46%	50%	51%	50%	46%
West	55%	53%	54%	50%	49%	50%	54%

Departure Gate Compliance

To minimize community impacts from overflight, Phoenix works with FAA to ensure departures from Sky Harbor do not turn out of the Salt River compatibility corridor earlier than necessary. In east flow operations, the turn “gate” is known as the 4DME; it aligns with the Loop 101 freeway and was established through the intergovernmental agreement between Tempe, Phoenix and FAA in 1994. In west flow operations, the turn “gate” aligns with 43rd Avenue and was established by the 2017 settlement agreement between Phoenix, Historic Neighborhoods and FAA. The compliance percentage measures the relative number of jet aircraft departures that did not turn before the gate (ie, remained inside the compatibility corridor).

Departures	2019	2018	2017	2016	2015	2014	2013
Loop 101	99%	99%	99%	99%	99%	98%	98%

Departures	2019	2018	2017	2016	2015	2014	2013
43 rd Ave	99%	99%	n/a	n/a	n/a	n/a	n/a