

# City of Phoenix Aviation Department 2020 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

## 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>

## 2020; Comparison of Annual Data

PHX	2020	2019	2018	2017	2016	2015	2014
Operations	<b>310,324</b>	438,891	434,252	430,968	440,643	440,411	430,461
Complaints	<b>61,251</b>	60,922	52,164	100,808	81,340	24,247	3,006
Households	<b>307</b>	408	610	666	755	1,338	658

DVT	2020	2019	2018	2017	2016	2015	2014
Operations	<b>402,444</b>	<b>456,790</b>	415,16	378,777	370,034	369,759	339,493
Complaints	<b>3,465</b>	<b>466</b>	710	1,261	619	717	77
Households	<b>92</b>	<b>87</b>	96	108	112	94	33

GYR	2020	2019	2018	2017	2016	2015	2014
Operations	<b>79,599</b>	<b>117,300</b>	83,223	111,163	123,334	111,330	83,516
Complaints	<b>230</b>	<b>461</b>	412	41	15	40	8
Households	<b>1</b>	<b>9</b>	7	41	15	22	6

## 2020; 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.

### Effects of Covid-19

Due to the global pandemic, the overall number of flight operations at PHX, DVT and GYR were dramatically reduced. PHX saw a severe drop of operations April, and although the numbers have gone up each month, are still historically low.

### Flight Procedure Monitoring

In addition to monitoring current overflight and airspace compliance; staff reviews proposed FAA flight procedures. In 2020, staff reviewed 5 new procedures, which were primarily textual updates to current procedures.

## Comparison of 2020 Monthly Data

PHX	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
<b>Operations</b>	39,215	37,321	36,217	15,467	14,019	17,669	22,886	23,729	22,994	25,527	27,061	28,219
<b>Complaints</b>	4,147	9,075	5,395	2,595	2,445	3,036	3,074	2,926	2,322	2,857	3,612	19,767
<b>Households</b>	90	87	102	47	41	42	78	69	48	46	60	40

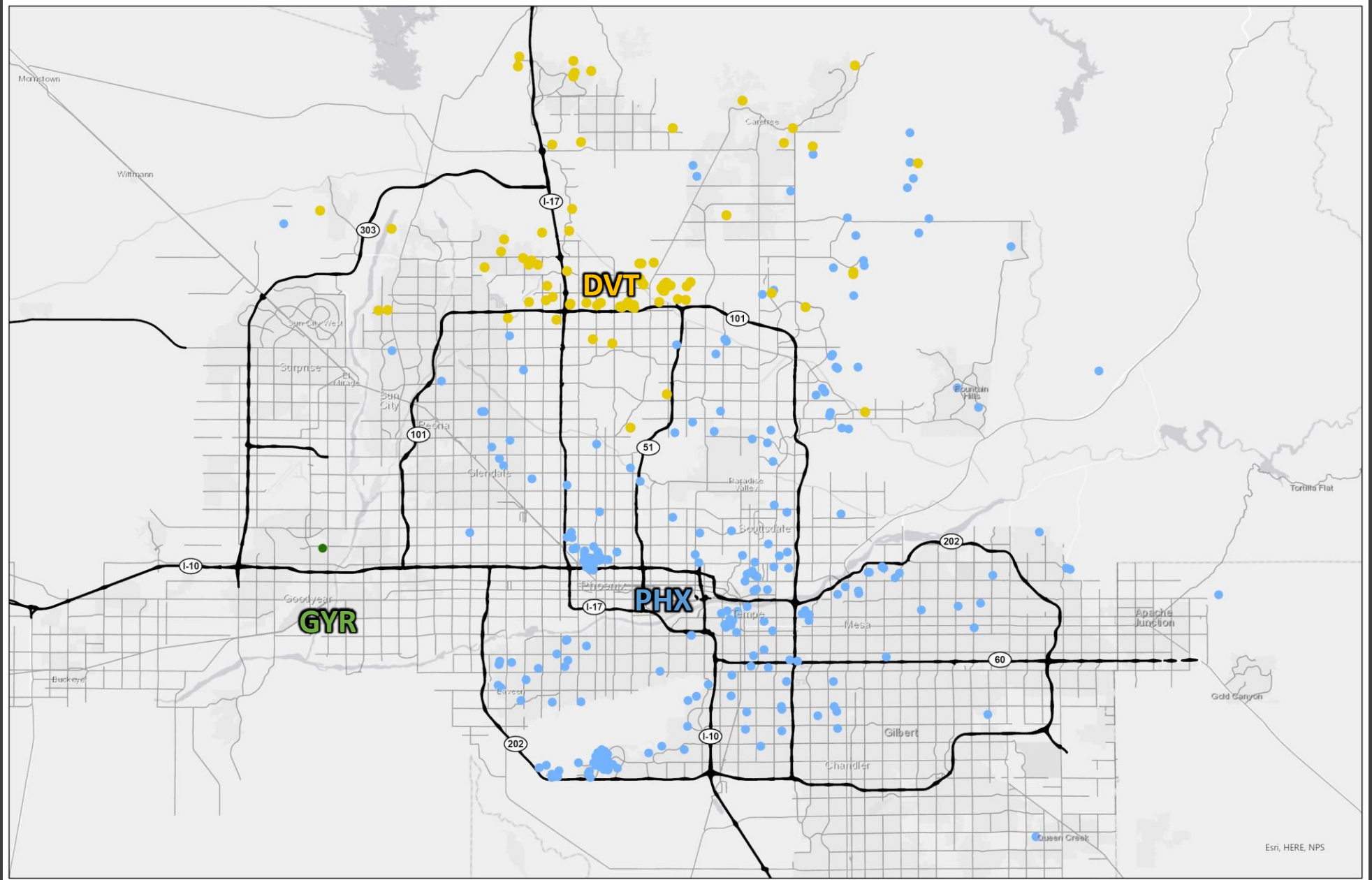
DVT	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
<b>Operations</b>	42,603	41,018	37,847	35,357	35,622	32,042	30,807	27,747	28,163	31,686	30,015	29,537
<b>Complaints</b>	47	34	49	70	208	426	416	673	312	410	352	468
<b>Households</b>	19	16	22	16	19	13	10	8	8	14	14	13

GYR	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
<b>Operations</b>	11,191	10,360	7,248	4,837	5,045	5,616	5,280	5,981	5,398	6,048	6,421	6,174
<b>Complaints</b>	38	21	25	13	17	26	11	9	24	18	11	17
<b>Households</b>	1	1	1	1	1	1	1	1	1	1	1	1

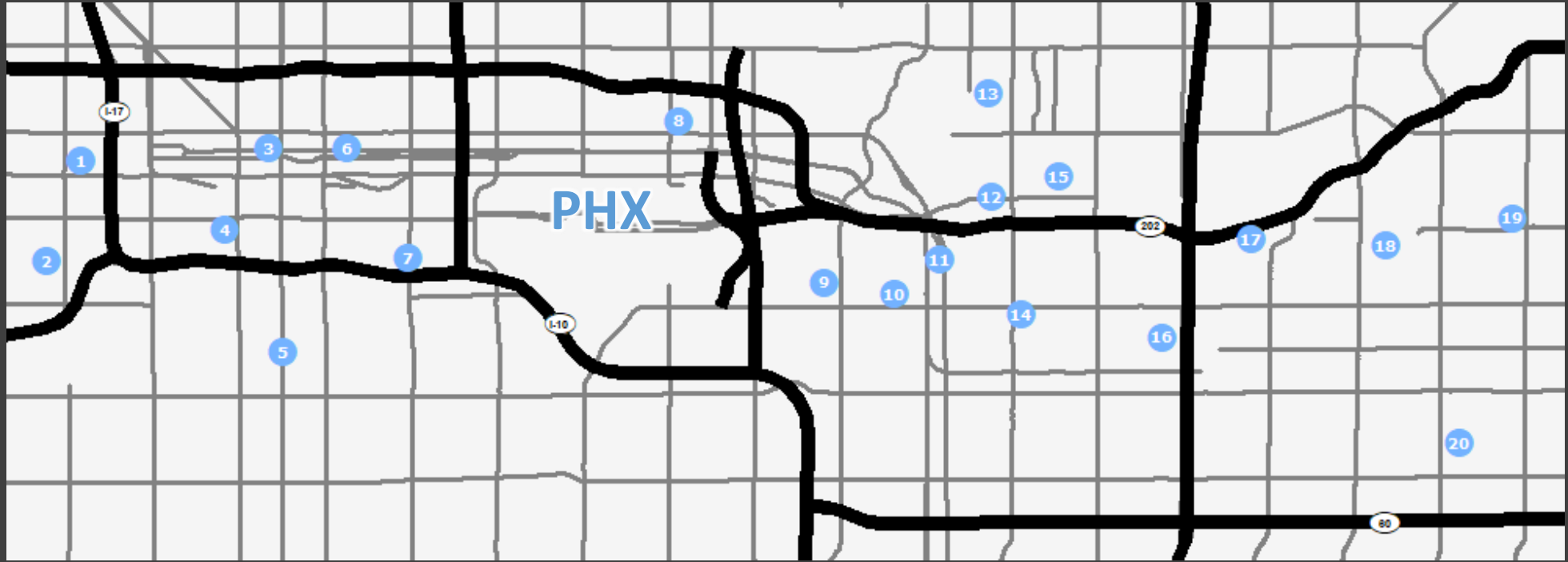
# Map of 2020 Complainant Households

## Complainant Airport

- PHX
- DVT
- GYR



# 2020; 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
2020	47	54	50	56	46	45	66	41	63	57	62	60	36	40	54	38	51	47	43	43
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

## 2020, 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	2020	2019	2018	2017	2016	2015	2014
East	49%	45%	47%	46%	50%	51%	50%
West	51%	55%	53%	54%	50%	49%	50%

### 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; which aligns with the Loop 101 freeway where it intersects the Loop 202 freeway and was established through the intergovernmental agreement between Tempe, Phoenix and FAA in 1994. In west flow operations, the turn “gate” aligns with 43<sup>rd</sup> 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	2020	2019	2018	2017	2016	2015	2014
Loop 101	99%	99%	99%	99%	99%	99%	98%

Departures	2020	2019	2018	2017	2016	2015	2014
43 <sup>rd</sup> Ave	99%	99%	99%	n/a	n/a	n/a	n/a