

City of Phoenix Aviation Department 2024 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: (602) 773-1093

Complaint Webform

<https://flighttracker.casper.aero/phx/>

Subscribe to updates

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

Comparison of Annual Data

PHX	2024	2023	2022	2021	2020	2019	2018
Operations	485,745	455,205	418,856	408,285	310,324	438,891	434,252
Complaints	8,925	28,515	25,475	36,464	61,251	60,922	52,164
Households	142	165	158	190	307	408	610

DVT	2024	2023	2022	2021	2020	2019	2018
Operations	432,874	344,393	275,153	271,979	402,444	456,790	415,16
Complaints	1,001	1,313	732	2,477	3,465	466	710
Households	70	60	20	57	92	87	96

GYR	2024	2023	2022	2021	2020	2019	2018
Operations	212,081	218,520	164,484	75,880	79,599	117,300	83,223
Complaints	29,553*	12,454	506	171	230	461	412
Households	34	17	14	2	1	9	7

2024 Year in Review

Tempe IGA

On 12/11/2024, the cities of Phoenix and Tempe signed an agreement amending the 1994 IGA, effectively ending the ongoing litigation stemming from Phoenix’s suit filed in 2023 over Tempe’s approval of incompatible development projects within the 65 DNL noise contour area.

FAA PBN Working Group

In Spring 2022, the FAA kicked off a Performance-Based Navigation Working Group to address efficiency and safety improvements in our region’s terminal and en route airspace. Conceptual changes were identified in 2024; public outreach is expected to occur throughout 2025, and the current publication date for the procedures is September 2026.

GYR Fly Friendly Signage

In 2024, Aviation installed airfield signage reminding pilots to fly friendly, especially staying south of I-10 during pattern work to mitigate aircraft noise.

West Valley Amazon Drone Delivery

Amazon drone deliveries started operations in November from their site in Tolleson for packages weighing 5 pounds or less. Community concerns with noise or safety can be addressed to amazondronefeedback@amazon.com.

* 89% (26,345) of GYR complaints were submitted by one household

Comparison of 2024 Monthly Data

PHX	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Operations	38,939	38,409	43,885	42,018	41,740	38,047	38,514	38,040	37,320	42,690	42,293	43,850
Complaints	671	905	1,322	747	956	506	662	752	646	633	453	672
Households	25	25	54	23	17	17	13	14	13	18	23	15

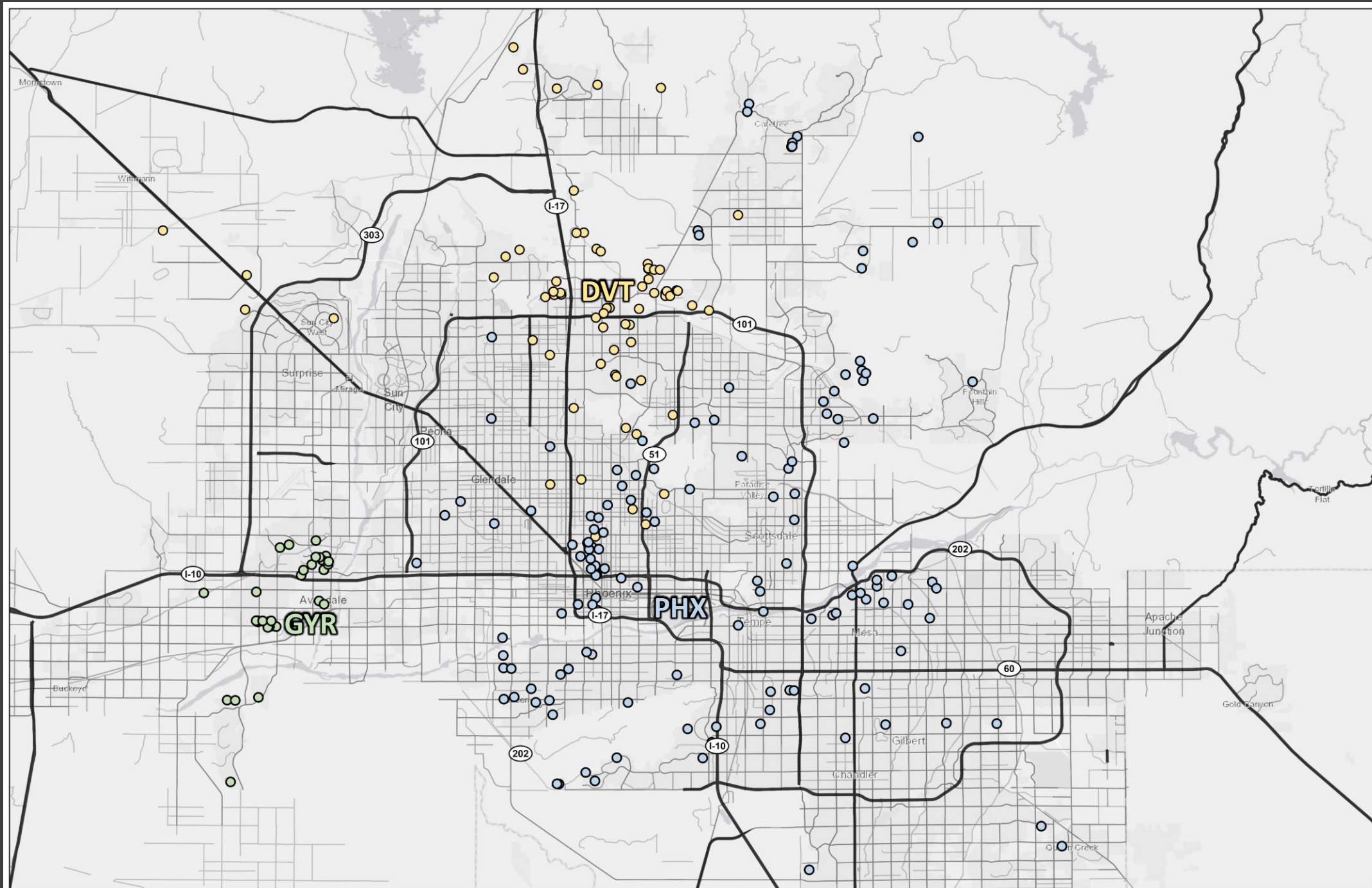
DVT	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Operations	31,434	33,005	33,800	38,180	39,124	34,672	34,402	36,334	35,518	39,804	39,108	37,493
Complaints	140	53	150	131	131	33	42	37	84	107	64	29
Households	17	10	14	10	6	4	6	2	6	6	7	11

GYR	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Operations	17,879	19,194	17,567	19,062	20,067	17,725	16,898	17,137	17,317	17,998	15,555	15,682
Complaints	2,884	2,937	3,282	4,392	2,493	2,491	3,341	2,220	2,433	1,594	1,148	100
Households	8	15	9	12	9	6	5	4	4	7	4	6

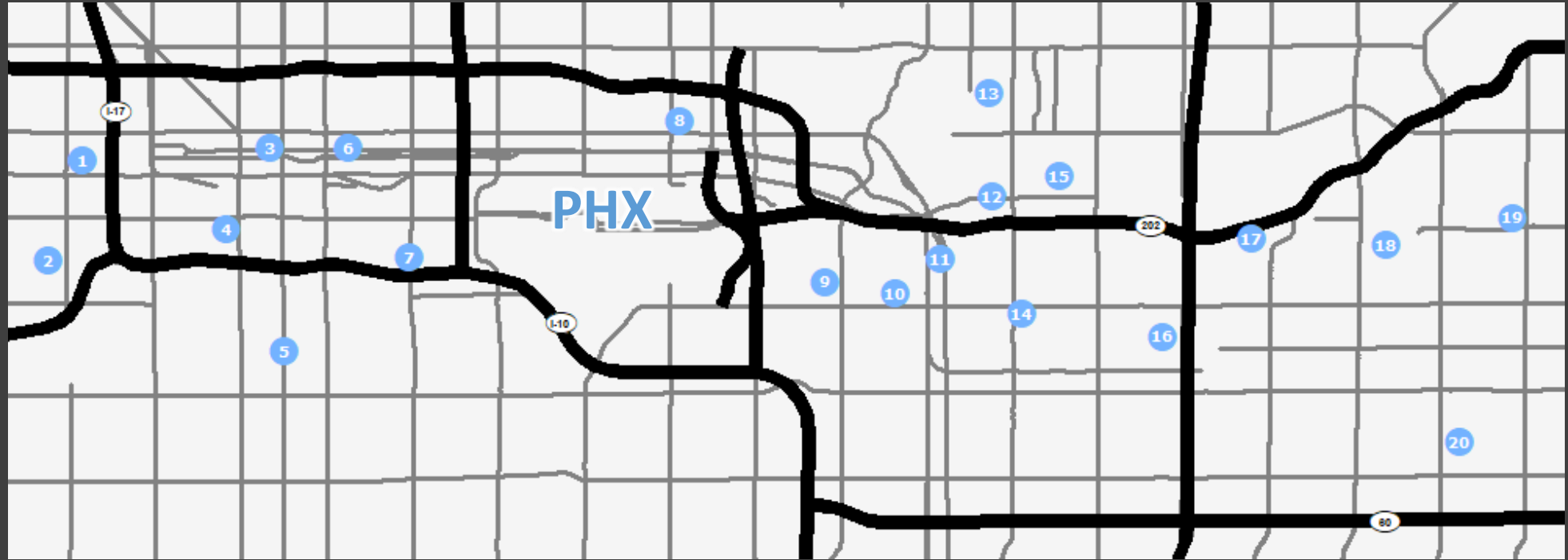
Map of 2024 Complainant Households

Complainant Airport

- PHX
- DVT
- GYR



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
2024	54	58	53	60	53	52	68	49	65	60	64	64	42	51	59	43	55	56	55	50
2023	55	58	53	N/A	53	51	68	48	65	60	64	64	41	50	N/A	42	56	56	54	50
2022	50	56	56	59	48	47	69	42	65	53	65	63	37	40	56	39	53	48	45	42
2021	47	55	51	58	48	47	68	41	64	52	64	62	38	40	56	37	53	48	44	42
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

Sky Harbor Noise Abatement Performance

Departure Corridor Equalization

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

Direction Equalization	2024	2023	2022	2021	2020	2019	2018
East	47%	49%	48%	47%	49%	45%	47%
West	53%	51%	52%	53%	51%	55%	53%

Departure Gate Compliance

To minimize community impacts from overflight, Phoenix works with the 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” aligns with the Loop 101 freeway. In west flow operations, the turn “gate” aligns with 43rd Avenue. The compliance percentage measures the relative number of jet aircraft departures that did not turn before the gate (i.e., remained inside the compatibility corridor).

Departures	2024	2023	2022	2021	2020	2019	2018
Loop 101	99%	99%	99%	99%	99%	99%	99%

Departures	2024	2023	2022	2021	2020	2019	2018
43 rd Ave	99%	99%	99%	99%	99%	99%	99%