An aerial photograph of an airport and its surrounding residential and commercial areas. The airport's runways, taxiways, and terminal buildings are clearly visible. The surrounding area includes houses, trees, and other buildings. The text is overlaid on the top half of the image.

Annual Noise and Operations Report 2022

Prepared by:
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Environmental & Noise Analyst

Introduction:

DeKalb-Peachtree Airport (PDK) is located in a highly noise-sensitive area as it is surrounded by residential communities. Aircraft noise is noise pollution generated by an aircraft, and may occur during all phases of flight. For instance, while aircraft are on the ground, taxiing, operating auxiliary power units (APUs), and conducting run-ups may contribute noise pollution to the surrounding areas. While aircraft are in the air, noise pollution can occur underneath and to the sides of departure and arrival paths.

The primary goal of the **PDK Good Neighbor Program** is to serve as a community-based program with aims to reduce aircraft noise levels in the vicinity of the airport. Since its inception, the program has sought to increase awareness of airport operations and develop airport/community partnerships with the surrounding cities of Chamblee, Doraville, Dunwoody, Brookhaven, North Atlanta (including the Buckhead community), and others. The program is a multifaceted one that uses many approaches to convey information in a succinct manner.

The program strives to reduce overall aircraft noise disturbances by soliciting airport-user involvement. Community and airport participation, learning, and cooperation are the keys to the program's success.

This report provides a monthly summary of airport operations, noise disturbances, and impacts to the surrounding neighborhoods to airport users and the surrounding communities.

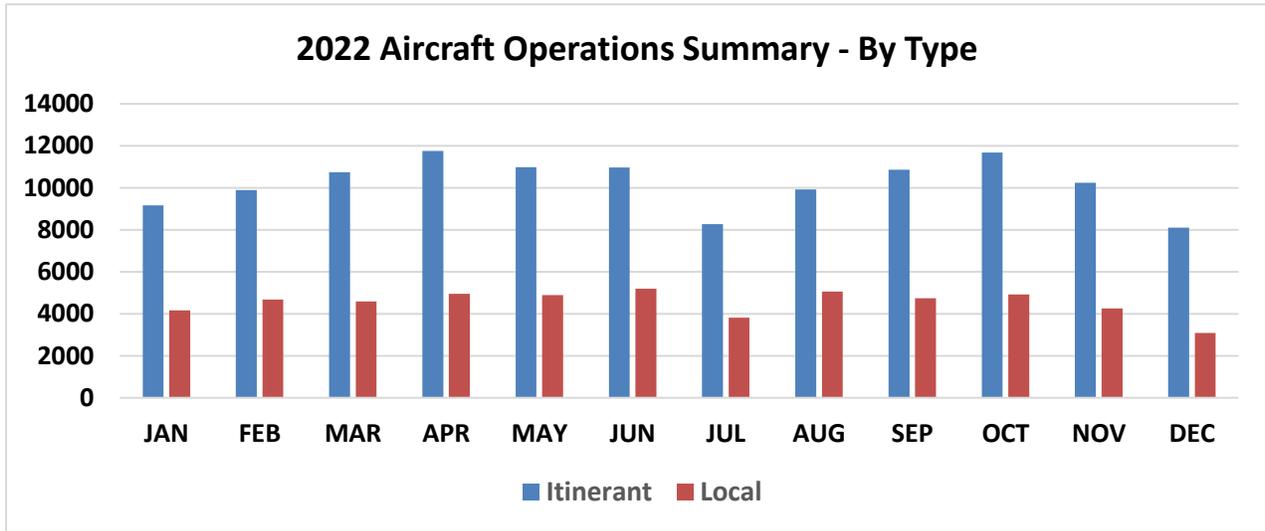
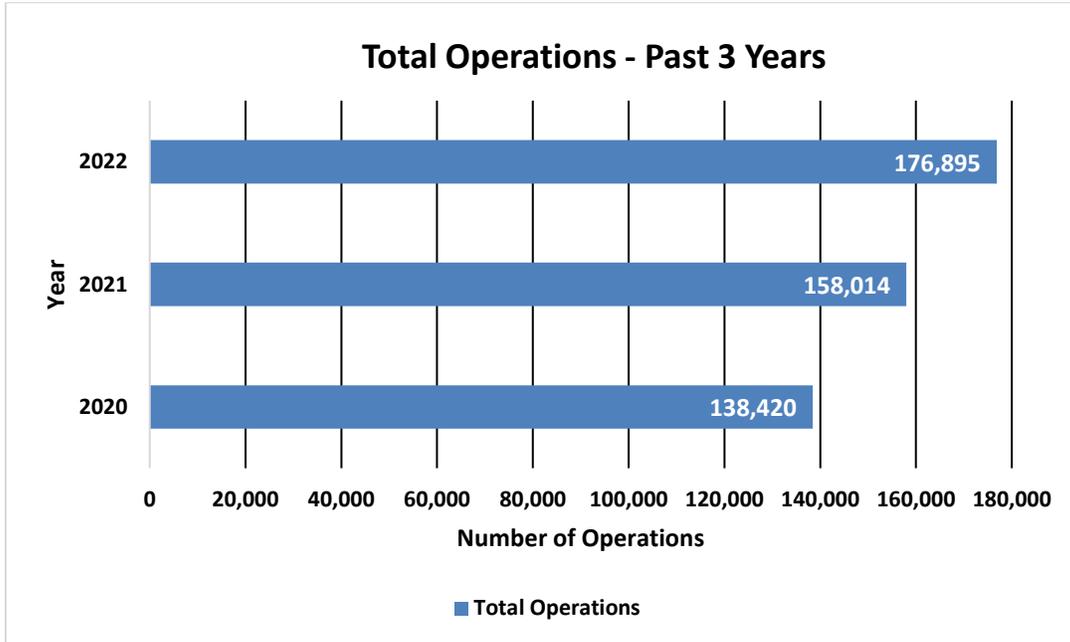
2022 Aircraft Operations:

	This Year	Last Year	% Change from 2021	5-Year Average
Total Operations	176,895	158,014	11.95%	157,165
Itinerant	122,574	118,117	3.77%	113,087
Local	57,321	39,987	43.35%	44,678
Voluntary Curfew Ops	4,698	4,624	1.60%	4,216
Prior Authorization	2,137	(156) Noise disturbance calls associated with these flights. (74) Voluntary curfew ops were associated with these flights.		

***Prior Authorization
(Section 6-93 Code)
Operation
Itinerant
Local
Voluntary Curfew Ops***

***Aircraft certified by the FAA with a max gross take-off weight greater than 75,000 pounds
One take-off or landing. Touch-and-go counts as two operations
Non-touch-and-go (regular operations)
Operations within 20 miles of Airport
Operations that occur between the hours of 11:00 p.m. and 6:00 a.m.***

2022 Aircraft Operations Summary



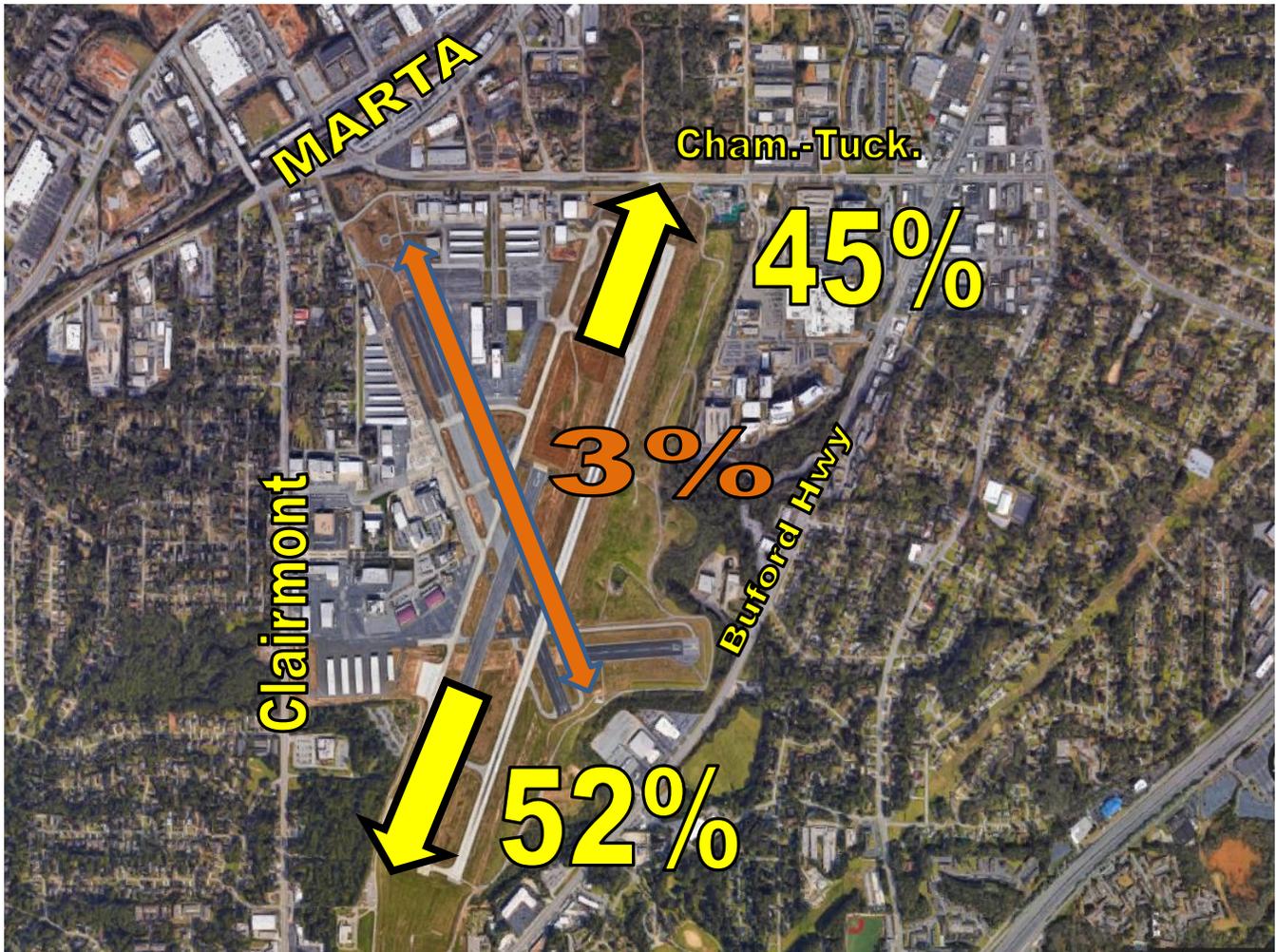
2021 Total Operations	2022 Total Operations	Change from 2021 to 2022
158,014	176,895	11.95%

2022 Operations by Month

	Itinerant	Local	Total Tower-Recorded Operations	Voluntary Curfew
JAN	9,157	4,161	13,318	454
FEB	9,892	4,671	14,563	376
MAR	10,740	4,587	15,327	385
APR	11,759	4,958	16,717	467
MAY	10,982	4,888	15,870	419
JUN	10,968	5,189	16,157	433
JUL	8,274	3,820	12,094	450
AUG	9,926	5,026	14,988	338
SEP	10,855	4,733	15,588	401
OCT	11,675	4,919	16,594	389
NOV	10,238	4,252	14,490	312
DEC	8,108	3,081	11,189	274

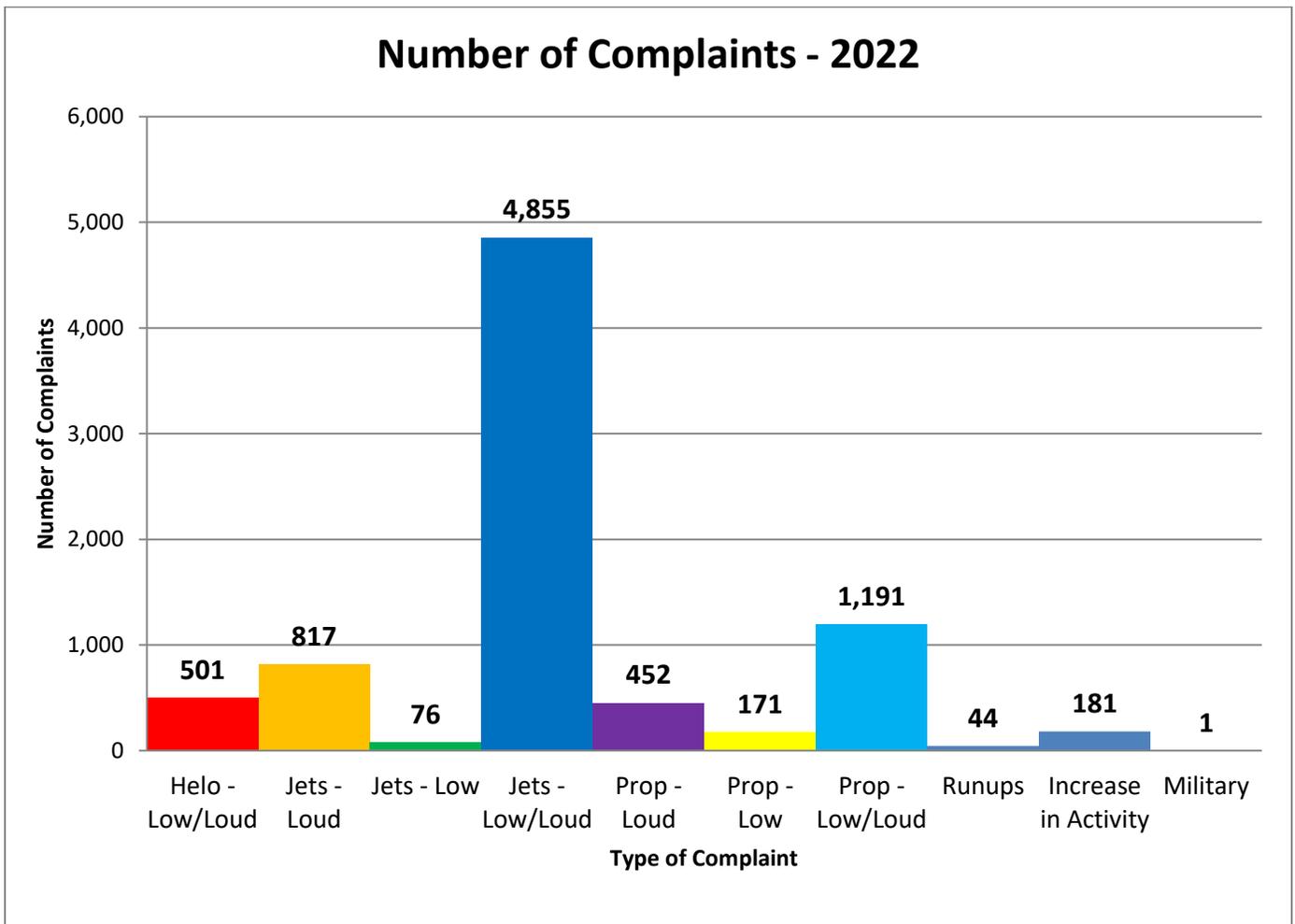
Runway Mode of Operations – 2022

Directional use of runways has a major effect on flight patterns and the areas affected by flight operations. Weather and wind direction generally determines runway selection. When the tower is open, the FAA Air Traffic Control Tower determines the directional use of the runways. When possible, the tower will try to keep operations on a northbound flow (takeoffs and landings to the north) for noise abatement.

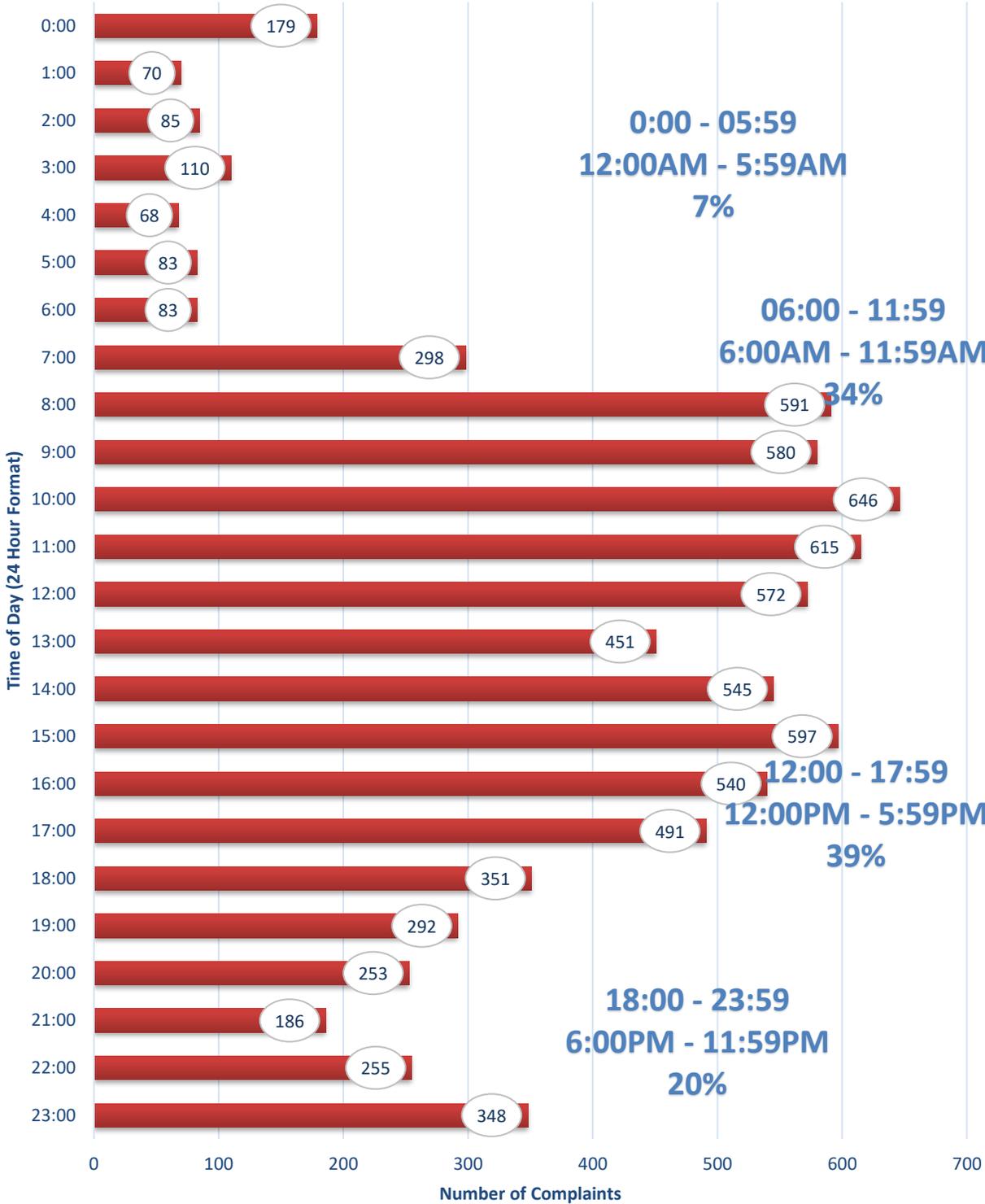


Noise Disturbance Summary

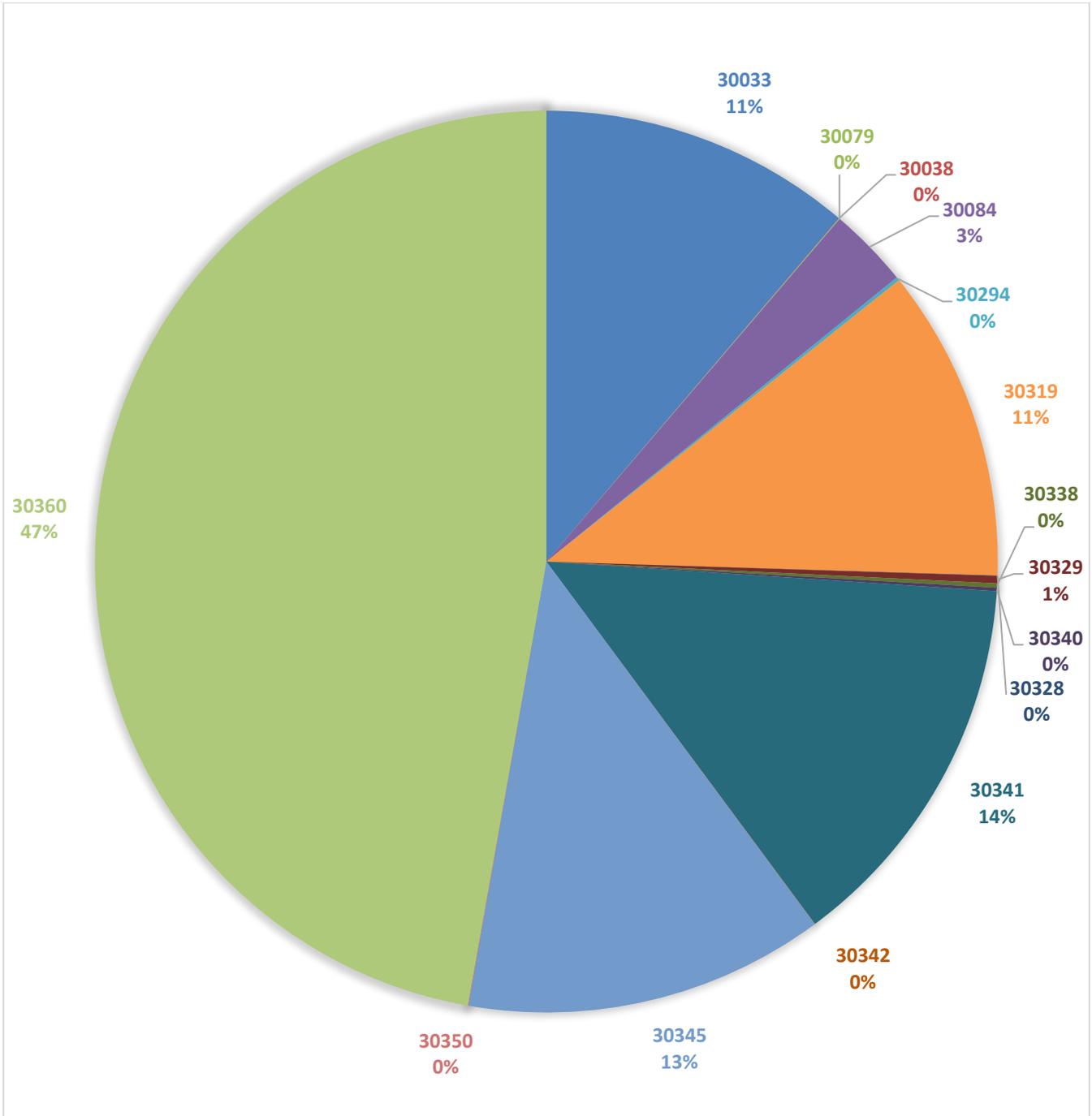
Total complaints for 2022	Monthly Complaint Average 2022	2022 Complaints per Household <i>(minus top two/Households)</i>	2022 Complaints per Household <i>All Inclusive</i>
8,289	690	32.1	70.8



Number of Complaints by Hour - 2022



Complaints by Zip Code



Zip Code Guide

Zip Code	Community	% of Complaints
30341	Brookhaven	35%
30319	Chamblee - North	11%
30345	Chamblee – South	13%
30360	Dunwoody	47%
30329	North Druid Hills	1%
30338	Dunwoody	<0.1%
30340	Tucker	<0.1%
30033	North Druid Hills	11%
30350	Sandy Springs	<0.1%
30342	Atlanta	<0.1%
30328	Sandy Springs	<0.1%
30294	Ellenwood	<0.1%
30079	Scottdale	<0.1%
30084	Tucker	3%
30038	Stonecrest	<0.1%

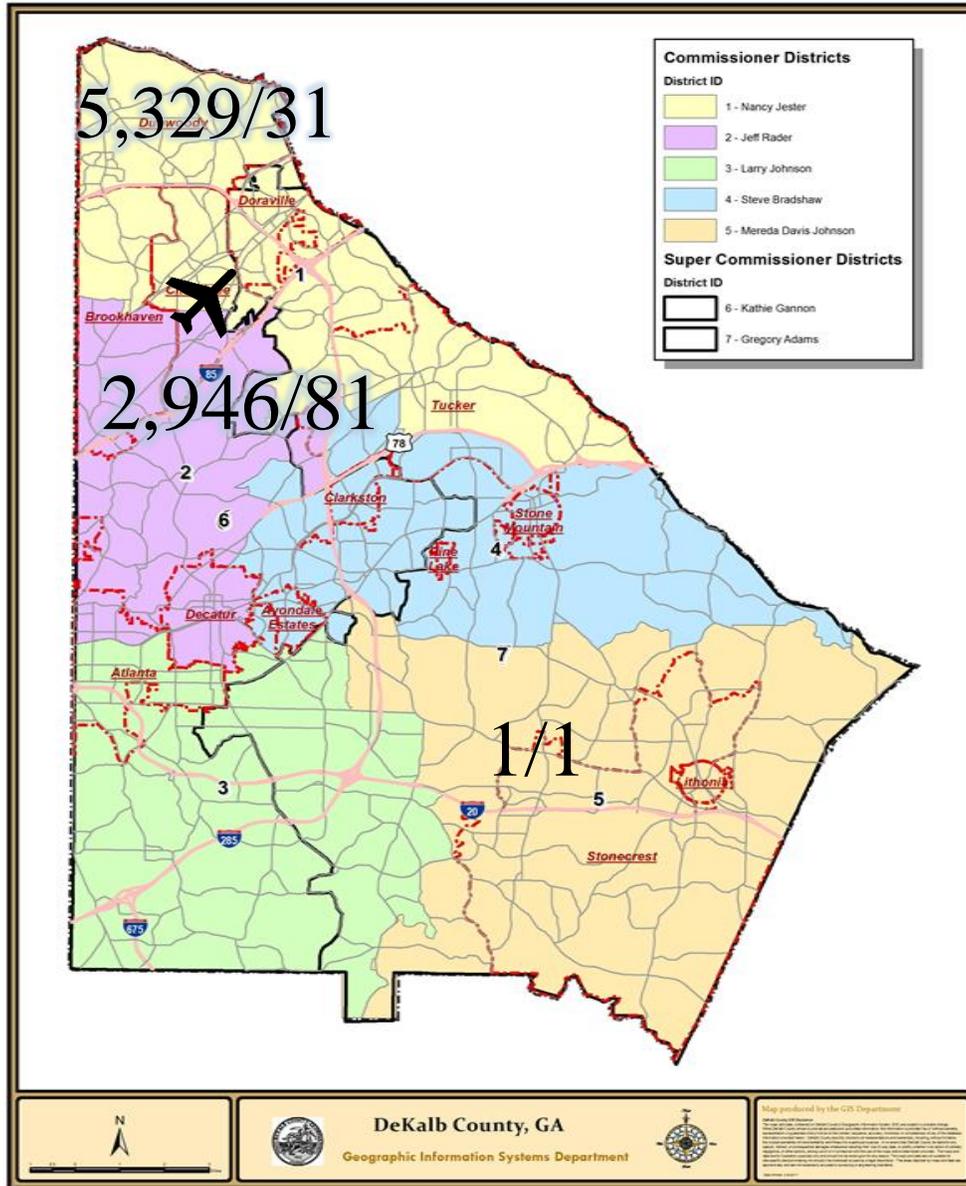
Complaints by Caller

<i>Name</i>	<i>Address</i>	<i>City</i>	<i>Zip Code</i>	<i>Complaints</i>
HYNES	2276 Tanglewood Cir NE	Atlanta	30345	25
Schneeberg	2707 Ashford Rd, NE	Atlanta	30319	157
FIGUEROA	2718 Eaton Pl	Atlanta	30341	3
Heckman	2818 Parkridge Dr NE	Brookhaven	30319	3
Van Pelt	1752 Morris Landers Dr NE	Atlanta	30345	13
Johnson	1723 Council Bluff Dr NE	Atlanta	30345	42
Sheppard	2855 Arrow Creek Dr	Atlanta	30341	1
Kearns	2149 Azalea Cir	Decatur	30033	1
Reed	3844 Ensign Dr	Atlanta	30341	1
Myers	2860 Talisman Ct NE	Atlanta	30345	1
Johnson	5200 Peachtree Rd	Atlanta	30341	317
Allen	1501 Woodshire Dr	Decatur	30033	521
Gokce	1955 Fairway Cir NE	Brookhaven	30319	51
Kelleher	3856 Harts Mill Lane	Atlanta	30319	2
Jackson	2624 Woodfen Dr	Ellenwood	30294	10
Ledford	3811 Harts Mill Ln	Atlanta	30319	8
Huttemeyer	2295 Capehart Cir NE	Atlanta	30345	1
Cody	3447 Raymond Dr	Atlanta	30340	10
Masone	2352 Burch Cir NE	Brookhaven	30319	512
Robbins	1505 Brianwood Rd	Decatur	30033	203
Sluder	1715 Belle Isle Cir NE	Atlanta	30329	1
Pohlmann	1050 Capital Club Cir NE	Brookhaven	30319	1
Leslie	1164 Oglethorpe Ave NE	Brookhaven	30319	1
Menand	4248 Browning Chase Dr	Tucker	30084	240
Hummel	2854 Greenbrook Way NE	Atlanta	30345	495
Webb	1803 Council Bluff Dr NE	Atlanta	30345	1
Durden	2500 Emerald Ridge Ct NE	Atlanta	30345	39
Wheeler	2450 Ellijay Dr NE	Brookhaven	30319	2
Robertson	1969 Variations Dr NE	Atlanta	30329	1
Rodriguez	1920 Variations Dr NE	Atlanta	30329	7
Henry	1835 Falling Sky Ct NE	Brookhaven	30319	1
Smith	2942 Appling Cir	Atlanta	30341	3
Schnaubelt	2078 Clairmeade Valley Rd NE	Atlanta	30329	2
Wolenski	2621 Ashford Rd NE	Brookhaven	30319	1
Shunnarah	750 Glenridge Close Dr	Atlanta	30328	1
Smith	1726 Arrowhead Trl NE	Atlanta	30345	4
Channer	3294 Osborne Rd NE	Brookhaven	30319	4
Albright	2250 Fairway Cir NE	Brookhaven	30319	3
Lee	2249 Capehart Cir NE	Atlanta	30345	3
Martinez	6202 Fairington Village Dr	Lithonia	30038	1
Lalak	2440 Woodacres Rd NE	Atlanta	30345	1
Fisher	1697 Wawona Ter NE	Brookhaven	30319	2
Dutro	1641 Council Bluff Dr NE	Atlanta	30345	130

Anon-1	LaVenture Forest	Atlanta	30341	691
Krise	2542 Lake Flair Cir NE	Atlanta	30345	1
Sanke	4485 Huntington Cir	Atlanta	30338	11
Hunnicutt	2132 Meadowcliff Dr NE	Atlanta	30345	6
Szczupak	1887 Bruce Rd NE	Atlanta	30329	2
Rohr	2115 Clairmont Ter NE	Atlanta	30345	1
McWhorter	1380 Nalley Cir	Decatur	30033	25
White	2462 Wentworth Dr NE	Atlanta	30345	1
Buetefisch	1803 Crestline Ct NE	Atlanta	30345	1
Brooks	2743 Redding Rd NE	Brookhaven	30319	6
Bui	2768 Tryon Pl NE	Brookhaven	30319	3
Barnard	2502 Flair Knoll Ct NE	Atlanta	30345	3
Kovar	2767 W Fontainebleau Dr	Atlanta	30360	1
Mcbee	1728 Crestline Ct NE	Atlanta	30345	1
Taglia	1404 Tugaloo Dr NE	Brookhaven	30319	3
Lowndes	2416 Dunwoody Hollow Dr	Dunwoody	30360	3906
Townsend	2230 Tanglewood Rd	Decatur	30033	128
Prince	1986 Ellwyn Dr	Atlanta	30341	43
Needle	2586 Warwick Cir NE	Atlanta	30345	43
Coulombe	3912 Longview Dr	Atlanta	30341	2
Mangone	2449 Wawona Dr NE	Brookhaven	30319	3
Farinola	2361 Burch Cir NE	Brookhaven	30319	151
Nagel	3905 Winters Hill Dr	Atlanta	30360	12
Dykewicz	2486 Susaleen Ct NE	Atlanta	30345	19
Cardoni	2048 Hollidon Rd	Decatur	30033	1
Bohorquez	2175 Clairmont Ter NE	Atlanta	30345	1
Spatafora	5009 Lakeside Dr	Atlanta	30360	2
Copeland	2071 Continental Dr NE	Atlanta	30345	1
Bland	2406 Greenglade Rd NE	Atlanta	30345	5
Barnett	2851 Cravey Dr NE	Atlanta	30345	3
Dombroski	1878 Hickory Rd	Atlanta	30341	1
Novas	2780 Pioneer Ct	Atlanta	30341	1
Darko	2416 Coosawattee Dr NE	Brookhaven	30319	1
Mosler	1918 Gregory Run NE	Atlanta	30345	21
Mercante	2145 Heritage Dr NE	Atlanta	30345	44
Yates	1895 9th St	Atlanta	30341	22
Hamilton	3039 Skyland Dr NE	Chamblee	30341	2
Maki	2445 Flair Knoll Dr NE	Atlanta	30345	1
Kracalik	2463 Williamswood Ct	Decatur	30033	1
Duaz	5140 N Peachtree Rd	Atlanta	30338	1
Dubois	5193 Peachtree Blvd	Atlanta	30341	1
Miller	2550 Brookline Cir NE	Brookhaven	30319	1
Glonty	1859 Georgiana Dr NE	Atlanta	30329	5
Bancheri	1467 Woodshire Dr	Decatur	30033	1
Sheffield	1920 Gainsborough Dr	Atlanta	30341	1
mandelbaum	1493 Biltmore Dr NE	Atlanta	30329	1

Rogers	2653 Warwick Cir NE	Atlanta	30345	4
Fox	2423 Woodacres Rd NE	Atlanta	30345	122
McSwanson	3789 Donaldson Dr	Atlanta	30341	12
Sallach	1784 Huntington Chase	Atlanta	30341	9
Staples	2745 Ashburn Ln	Atlanta	30341	20
Conable	5030 Willow Bluff Dr	Atlanta	30350	1
Douglas	2427 Coosawattee Dr NE	Brookhaven	30319	4
Figueroa	5070 Peachtree Blvd	Atlanta	30341	2
Griffith	2783 Georgian Dr E	Atlanta	30341	1
Hightower	7573 Spalding Ln	Atlanta	30350	1
Henson	1391 Altamont Dr	Decatur	30033	9
Winer	2404 Stonington Rd	Atlanta	30338	1
King	314 Hatton Dr	Scottsdale	30079	2
Smith	2490 Kirkland Dr NE	Atlanta	30345	1
Kingsley	1366 Vista Leaf Dr	Decatur	30033	2
Smith	1781 Timothy Dr NE	Atlanta	30329	1
Kearns	1912 Variations Dr NE	Atlanta	30329	1
VOLK	2195 Seaman Cir	Atlanta	30341	1
Bozza	2735 Briarlake Woods Way NE	Atlanta	30345	5
Hill	2014 Dering Cir NE	Atlanta	30345	26
Don	1859 Falling Sky Ct NE	Brookhaven	30319	8
Marshall	2559 Woodacres Rd NE	Atlanta	30345	1
Philips	2442 Wentworth Dr NE	Atlanta	30345	5
Ryan	2190 Spring Creek Rd	Decatur	30033	30
Barnes	2000 Airport Rd	Atlanta	30341	10
Gunby	3066 Jefferson St	Atlanta	30341	1
Lien	1936 Forest Green Dr NE	Atlanta	30329	1
Boylan	1416 Bubbling Creek Rd NE	Brookhaven	30319	1

Complaints per Commission District



Total Number of Complaints

Total Number of Complainants

8,276/

113

There were 4 complainant(s) outside of DeKalb County with 13 complaint(s) total.

Correlation Chart of Noise Complaints to Operations

The airport correlated **8,241 (96.5%)** out of **8,289** complaints:

- **7,690 or 92.8%** of the noise complaints were found to be **Direct** correlations
- **551 or 6.6 %** were **Indirect** correlations to operations
- **48 or 0.6%** were **Not Correlated**.

- **Direct** = *Linked to a **specific flight operation to/from PDK** over a house/monitor (NOMS or manual correlation).*
- **Indirect** = ***Not linked to a specific flight operation** (take-off thrust, reverse thrust; maintenance run-ups) **OR flight operation not originating or terminating at PDK.***
- **Not correlated** = *There was no noise event and/or aircraft track based on either NOMS correlation or manual research.*

Definitions:

NOMS: Noise and Operations Monitoring System

Op Type: Operation; Approach, Departure, or Overflight

Name: Name of Complainant

Offense Start: Date/Time of offense to complainant

Flight ID: Tail number of aircraft or military call sign

Flight Time: Actual Date/Time of correlated offense

NMS: Noise Monitoring Station

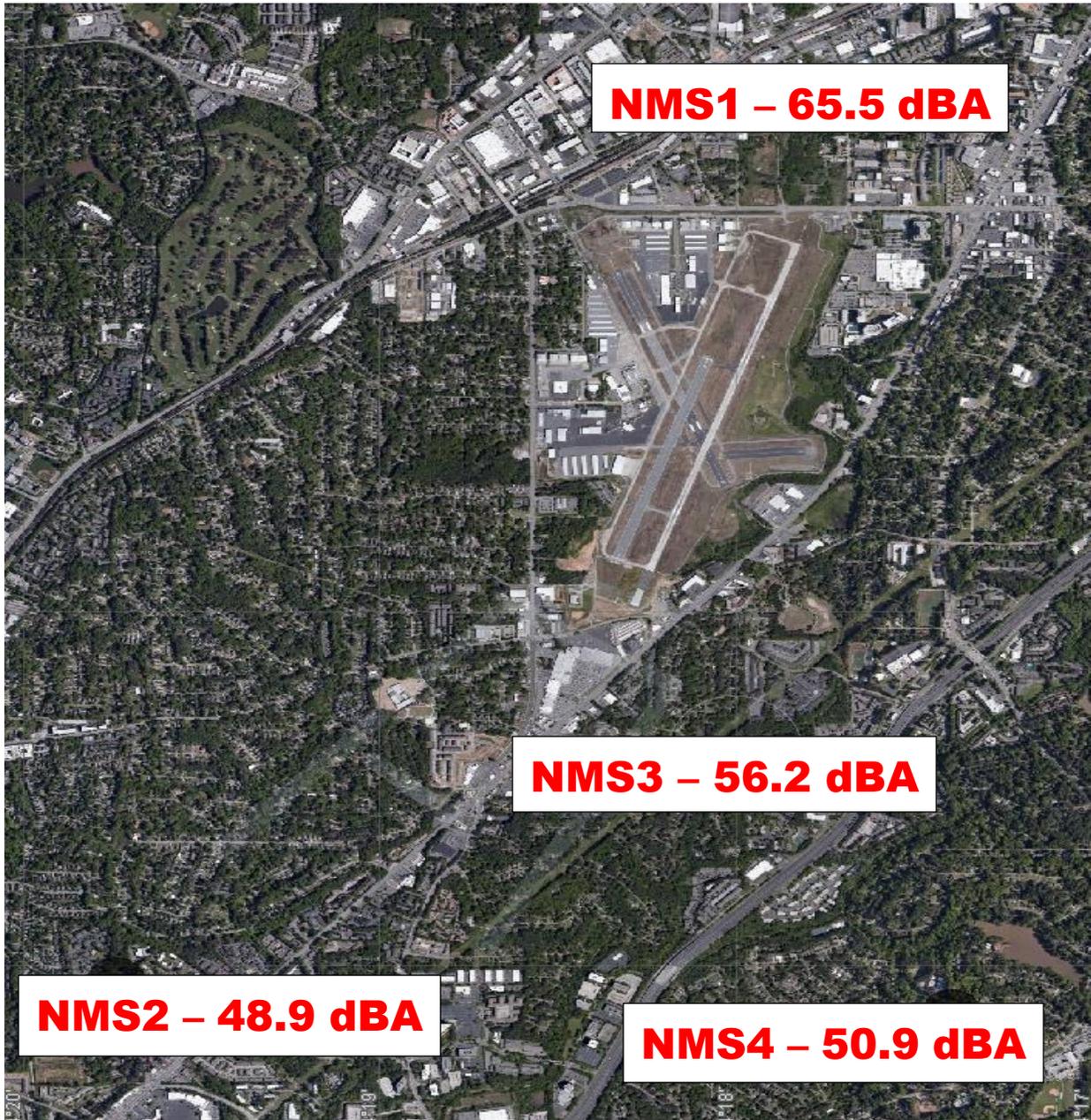
Rwy: Runway

LMAX: Maximum A-weighted sound level for a given event

Please contact: *Korey Barnes, Airport Noise and Environmental Analyst*, for more information regarding the PDK Good Neighbor Program at (770) 936-5440 or kbarnes@dekalbcountyga.gov.

PDK maintains a **hotline** that permits residents to report noise concerns by dialing: **(770) 936-5442** or e-mailing: pdknoise@dekalbcountyga.gov

2022 Noise Levels at Monitors



Noise Terminology

- *Decibels (dB) are the unit of measurement on the loudness scale. Decibels that a human can hear are called “A-weighted” or “dBA” on the sound frequency scale.*
- *The decibel scale is logarithmic, not linear. The smallest detectable change 1 dB; 3 dB for a human is readily detectable; 10 dB seems twice as loud.*

- *L_{max}* – The maximum A-weighted sound level for a given event – the highest level registered on the scale or meter; is not related to the duration for the event.
- *DNL* – A 24-hour time-averaged sound exposure level. It is the noise metric of choice in aircraft sound level measurement. It is also used to define noise contours of equal exposure. All Federal agencies have adopted DNL (LDNA) as the metric for airport noise analysis. (Day Night Level) (Day Night Level A-weighted)
- *Leq* – The steady A-weighted sound level over any specified period. It is used to identify the average sound level over a given period of time.

Voluntary Curfew Operations & Operators Summary/Letter Status

Operations Summary:

The airport identified a total of **4,689 (99.8%)** of the **4,699** operations during the voluntary curfew period (11PM-6AM) during **2022**. Of the **4,689** identified operations, **2,484 (53%)** were classified as **medical transport (e.g., Med-Evac) or other critical flights**.

- Out of the *identified* operations, **626 one-time** operations were conducted during this period.
- Out of the *identified* operations, **4,073 multi-time** operations were conducted during this period, (i.e., sum of all aircraft operations in which an aircraft flew more than once during the voluntary curfew).

Operators Identified / Multi-Use:

1,117 operators were identified using the airport during the voluntary curfew period (does not include unknown aircraft).

491 operators were identified using the airport during the voluntary curfew period for 2 or more times during the month.

90 multi-use operators were identified as Med-Evac and/or emergency flights.

Complaints received from operations conducted during the voluntary curfew period:

8,289 complaints were received during **2022**.

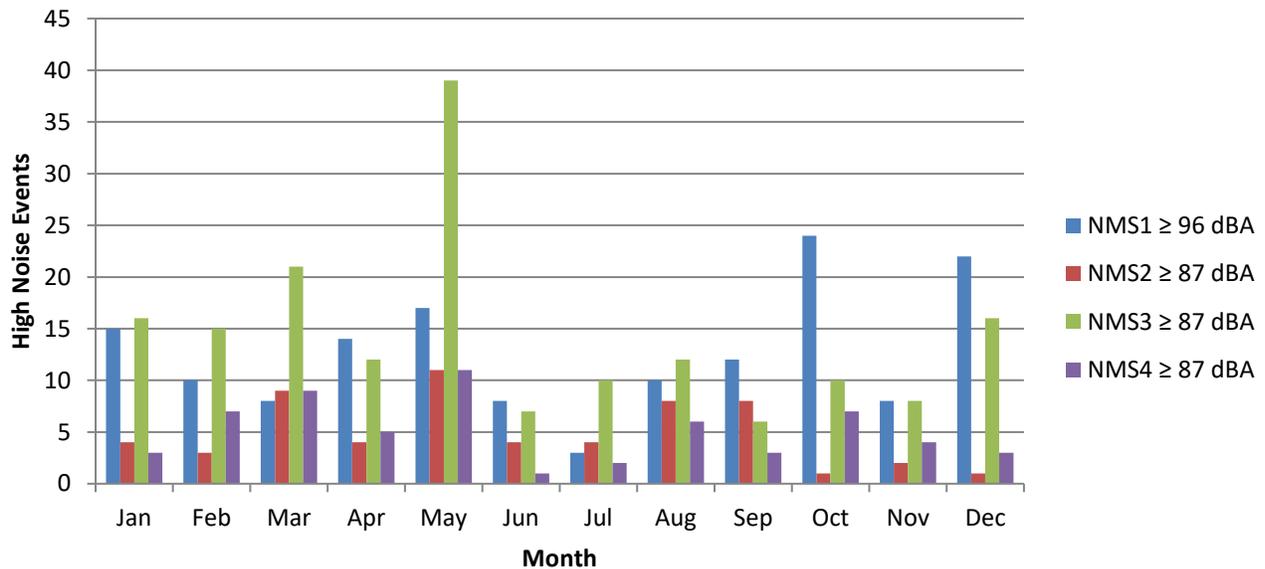
943 (11.4%) complaints were received for operations conducted during the voluntary curfew period (**including** those complaints that were found to be non-correlated or indirect).

A total of **2,198** advisory letters were sent to aircraft operators flying during the voluntary curfew period in **2022** who were not identified as Med-Evac and/or other emergency flights.

High Noise Event Threshold

The high noise event threshold was developed to work with pilots in methods and techniques that could reduce aircraft noise levels in and around PDK and its residential areas. Noise Monitoring Station (NMS) 1 is located in a commercial district and is set at **96 dBA Lmax** or greater. All other monitors, NMS2, 3, & 4 are located in residential areas and are set at **87 dBA Lmax** or greater. A Total of **440** noise events occurs in 2022; with this **377** advisory letters were sent out for aircraft identified as Exceeding PDK's high noise event threshold.

High Noise Events 2022



Comments/Concerns?

Please visit www.pdkairport.org for airport information. You may also contact the airport about noise concerns at pdknoise@dekalbcountyga.gov or call the noise hotline at (770) 936-5442.