

An aerial photograph of an airport and its surrounding area. The airport features a long runway, taxiway, and several hangars. The surrounding area includes residential neighborhoods with houses and trees, as well as commercial buildings and parking lots. The text is overlaid on the image.

Annual Noise and Operations Report 2019

Prepared by:
Korey Barnes
Environmental & Noise Analyst

PDK Good Neighbor Program



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.

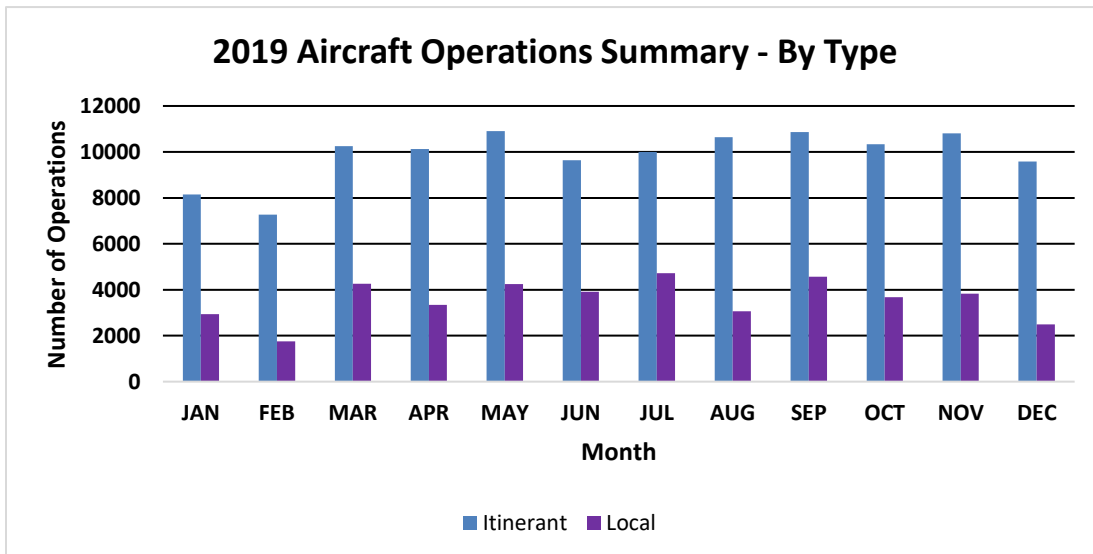
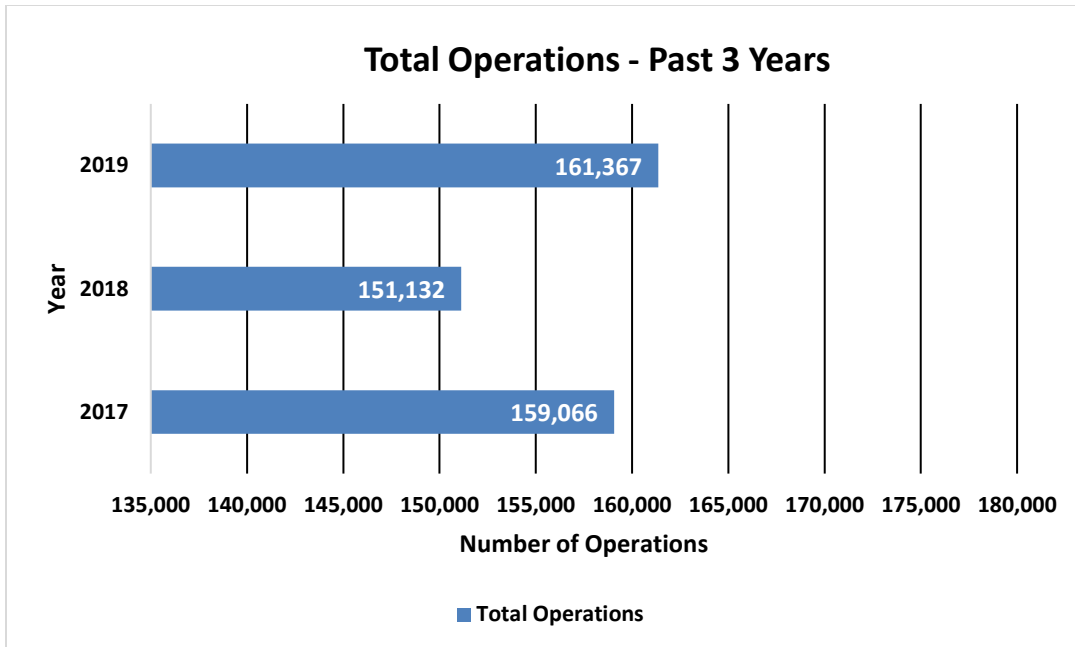
2019 Aircraft Operations:

	This Year	Last Year	% Change from 2018	5-Year Average
Total Operations	161,367	151,132	6.77%	153,663
Itinerant	118,569	109,310	8.47%	114,451
Local	42,798	41,822	2.33%	39,211
Voluntary Curfew Ops	3,974	3,628	4.58%	3,735
Prior Authorization	1,756	(124) Noise disturbance calls associated with these flights. (99) 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.

2019 Aircraft Operations Summary



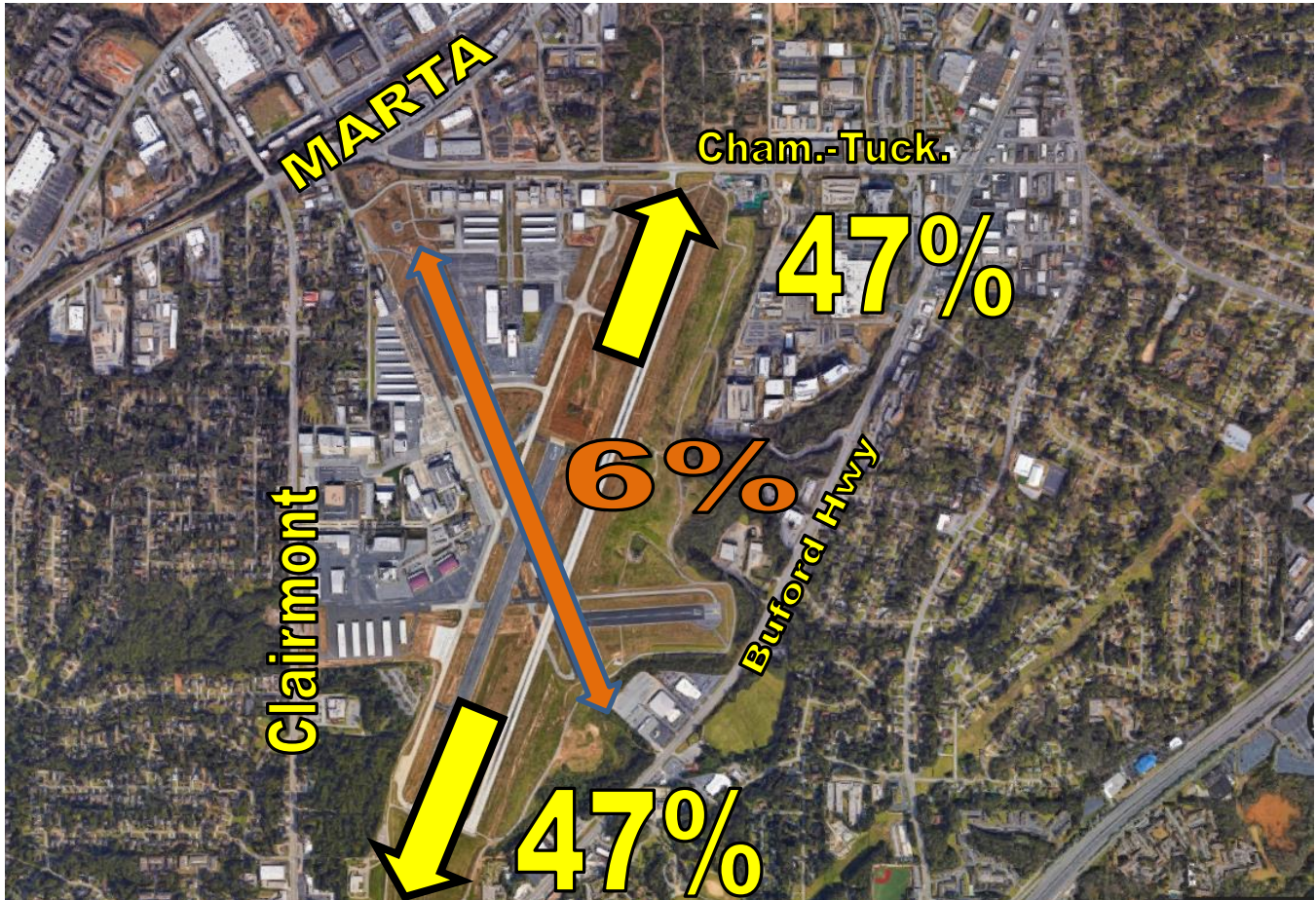
2018 Total Operations	2019 Total Operations	Change from 2018 to 2019
151,132	161,367	(4.94%)

2019 Operations by Month

	Itinerant	Local	Total Tower-Recorded Operations	Voluntary Curfew
JAN	8,151	2,934	11,085	301
FEB	7,268	1,753	9,021	340
MAR	10,247	4,259	14,506	323
APR	10,119	3,347	13,466	346
MAY	10,904	4,249	15,153	358
JUN	9,634	3,910	13,544	315
JUL	10,004	4,716	14,720	300
AUG	10,642	3,060	13,702	324
SEP	10,864	4,571	15,435	373
OCT	10,337	3,682	14,019	390
NOV	10,810	3,830	14,640	365
DEC	9,589	2,487	12,076	328

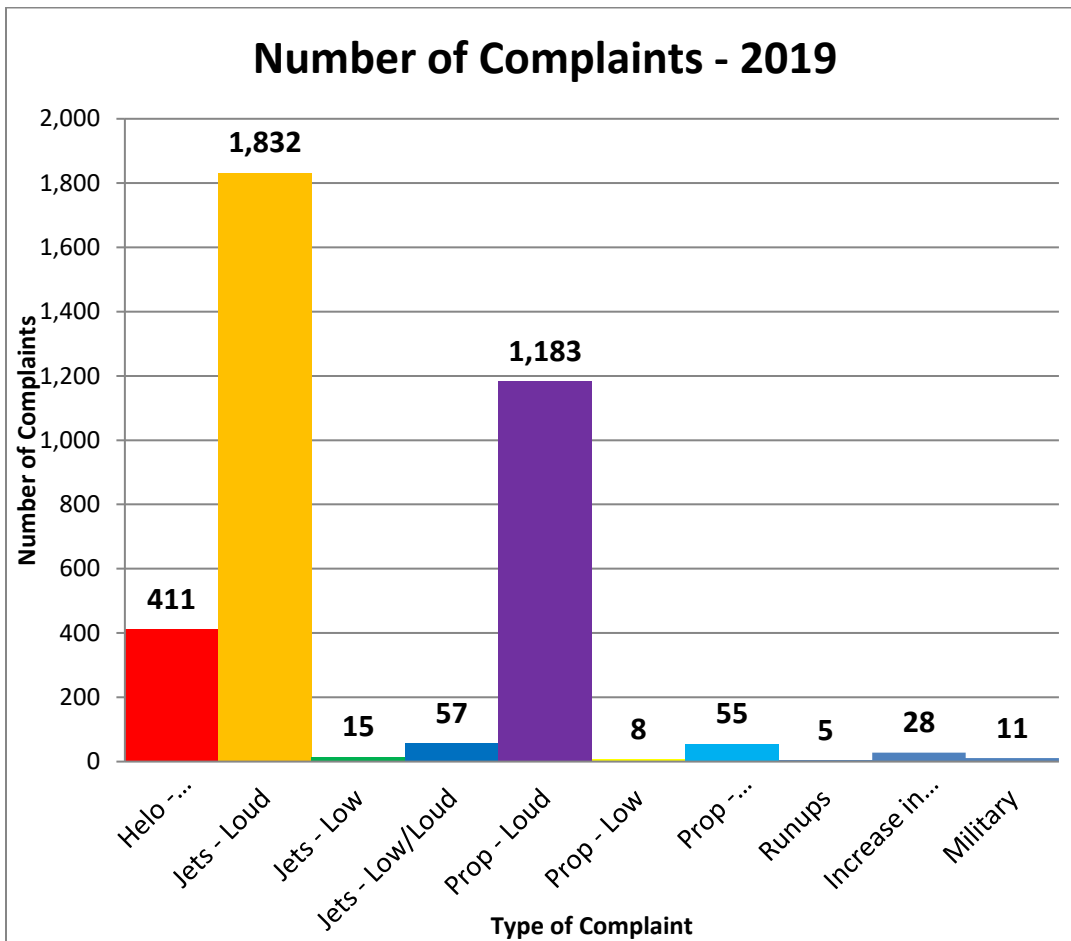
Runway Mode of Operations – 2019

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.

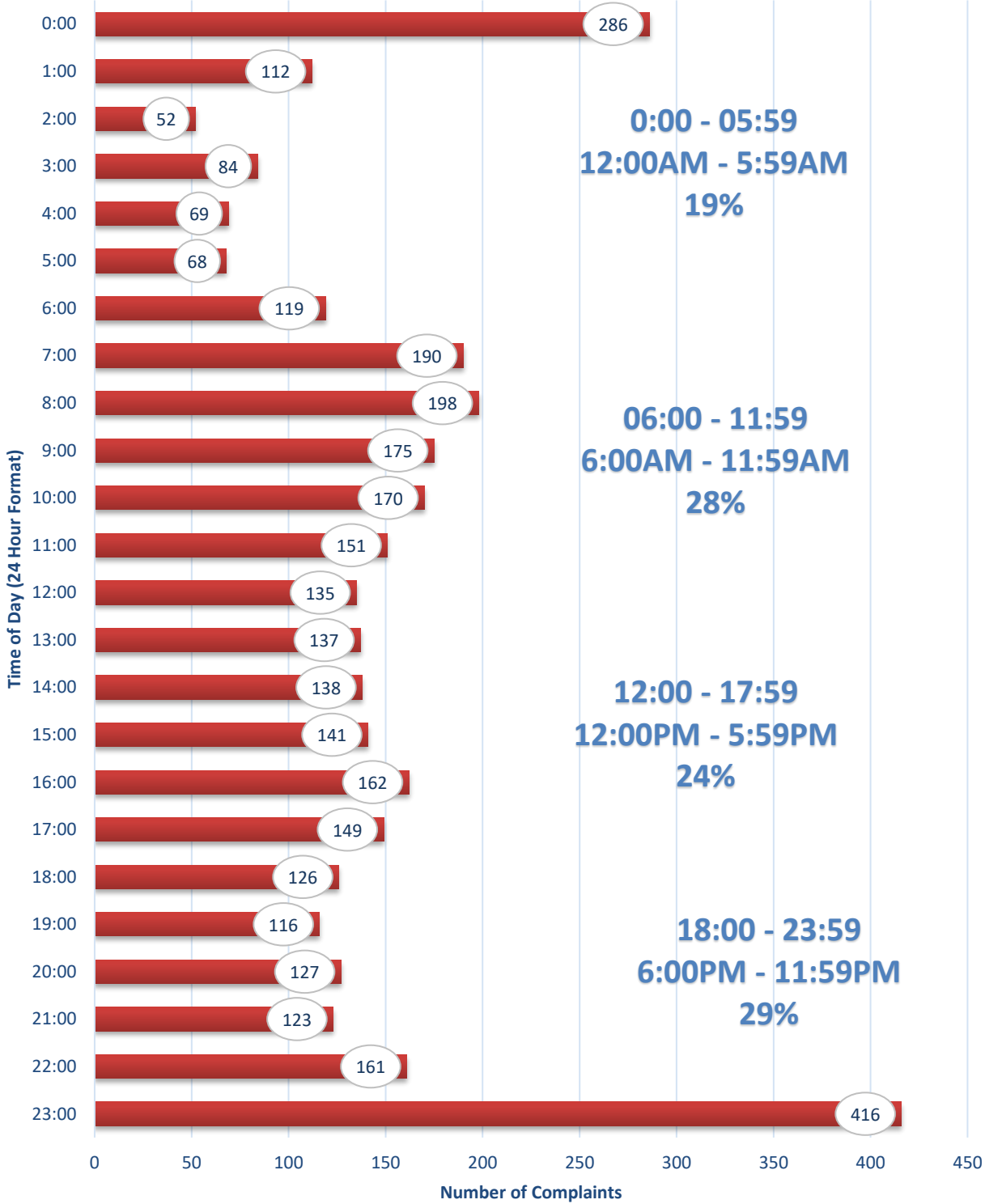


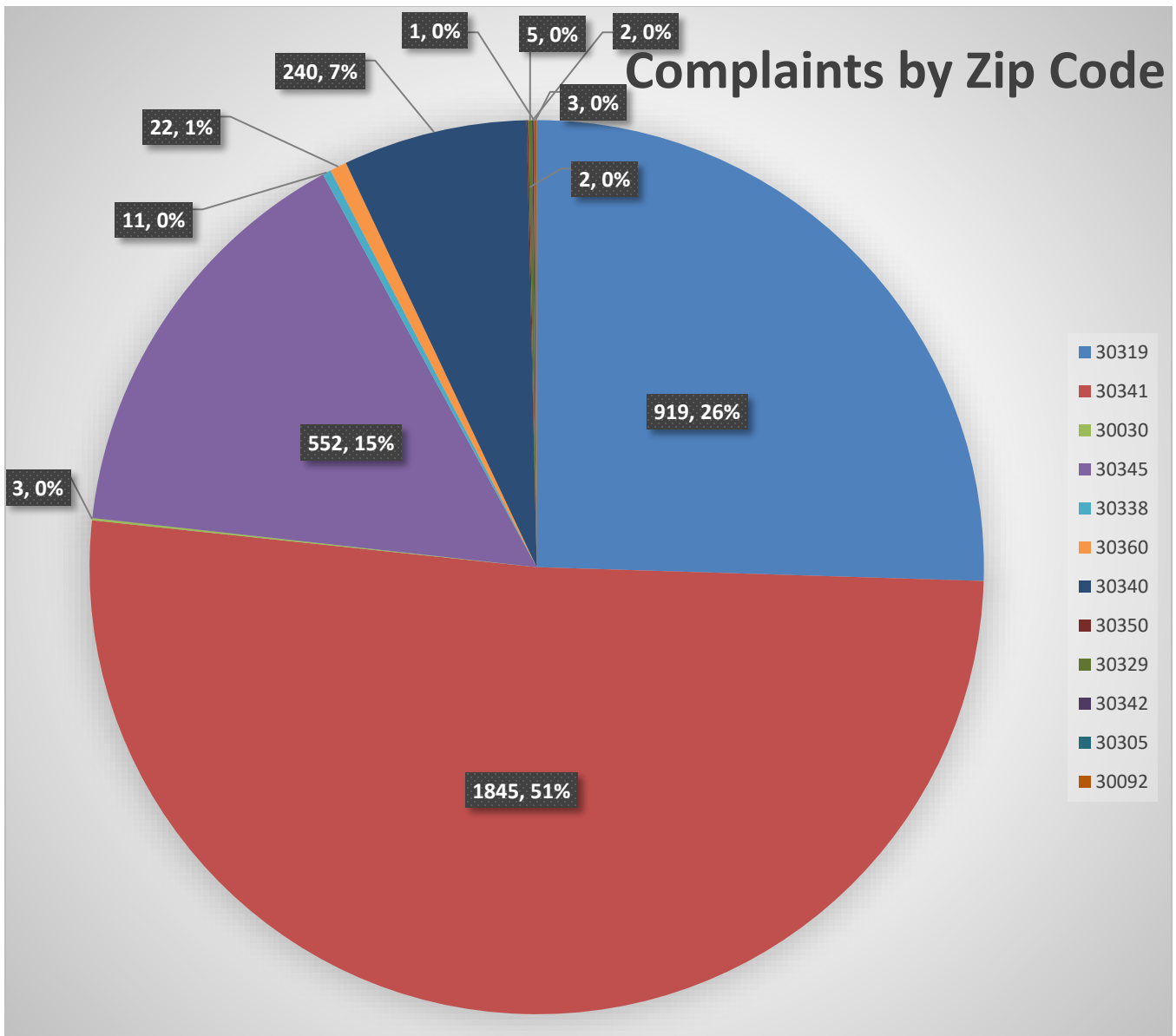
Noise Disturbance Summary

Total complaints for 2019	Monthly Complaint Average 2019	2019 Complaints per Household <i>(minus top two/Households)</i>	2019 Complaints per Household <i>All Inclusive</i>
3,605	300	13.6	28.4



Number of Complaints by Hour - 2019





Zip Code Guide		
Zip Code	Community	% of Complaints
30319	Brookhaven	25%
30341	Chamblee - North	51%
30345	Chamblee – South	15%
30360	Dunwoody	1%
30329	North Druid Hills	<0.1%
30340	Doraville	7%
30305	Atlanta/Garden Hills	<0.1%
30030	Decatur	<0.1%
30338	Sandy Springs	<0.1%

30350	Roswell South	<0.1%
30342	North Buckhead	<0.1%
30092	Peachtree Corners	<0.1%

Complaints by Caller

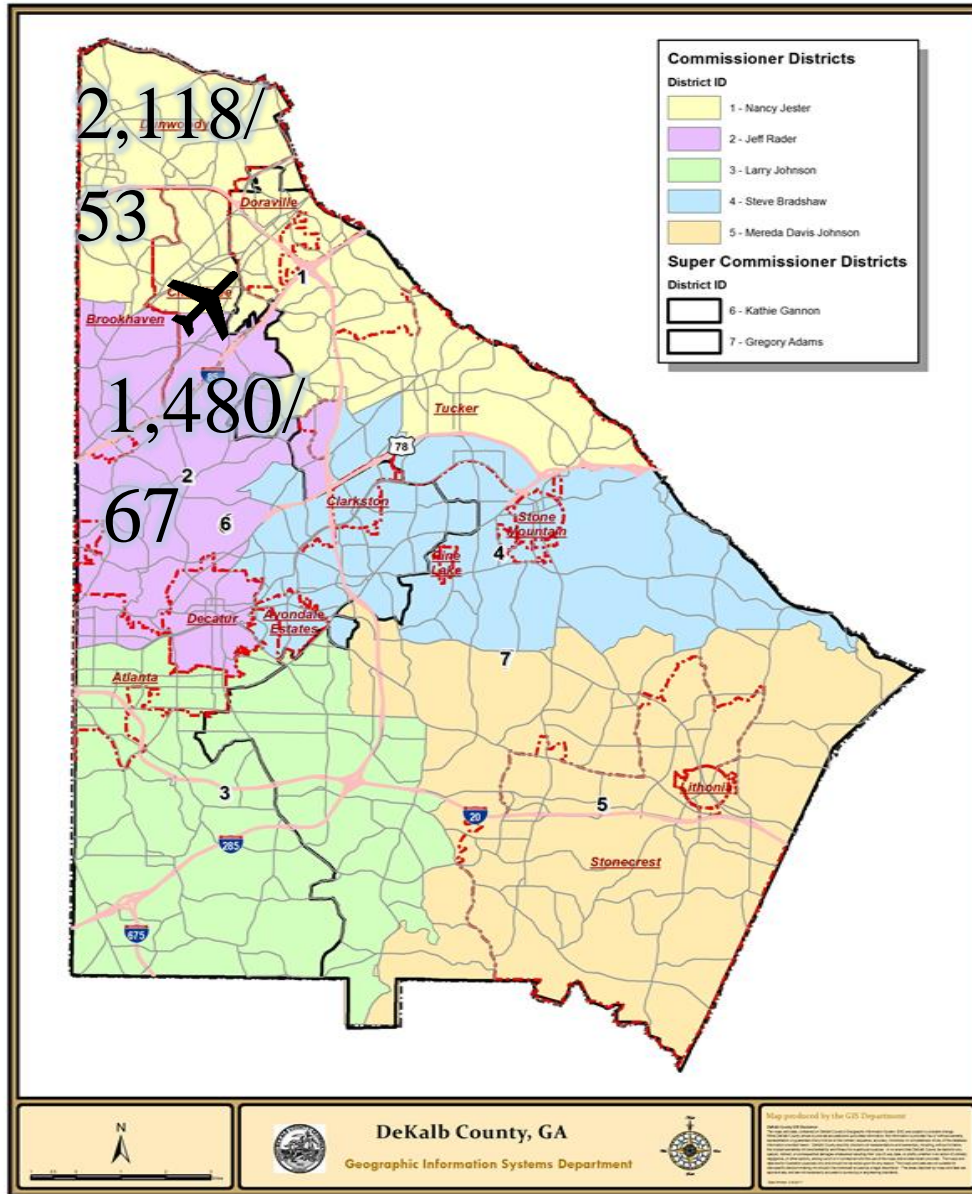
Name	Address	City	Zip Code	Complaints
Schneeberg	2707 Ashford Rd, NE	Atlanta	30319	15
Yeager	5162 Sheridan Lane	Dunwoody	30338	1
Robbins	6860 Ramundo Dr	Doraville	30360	1
Hynes	2276 Tanglewood Cir NE		30345	3
Blackwell	2679 Warwick Circle NE	Chamblee	30345	7
Green	2665 Ashford Rd NE	Atlanta	30319	1
Albert	2644 Camille Dr NE	Atlanta	30319	2
Miller	2795 Georgian Drive East	Atlanta	30341	1
Sidwell	2903 Appling Dr	Chamblee	30341	1
Stamm	1824 Falling Sky Ct NE	Brookhaven	30319	3
Cape	2581 Mercedes Dr	Atlanta	30345	1
Railey	2936 Appling Cir	Chamblee	30341	1
Lynch	2430 Circlewood Rd NE	Atlanta	30345	1
Kulik	1412 Tugaloo Dr NE	Atlanta	30319	1
Doyle	2541 Dering Pl NE	Atlanta	30345	38
Heerink	N/A	Chamblee	30341	1
Havard	3669 Kinnard Dr	Doraville	30360	1
Brooks	2743 Redding Road NE	Atlanta	30319	10
Tyler	1818 Tobey Rd	Chamblee	30341	4
Nagel	3905 Winters Hill Drive	Atlanta	30360	12
Ringstrom	2456 Oostanula Dr	Atlanta	30319	5
Lamm	1366 Ragley Hall	Brookhaven	30319	2
Donovan	2821 Dornton Way	Brookhaven	30319	1
Rodman	402 Drexel Ave	Decatur	30030	2
Chavez	4260 Huntington Cir	Dunwoody	30338	1
Brady	1836 Bragg St	Chamblee	30341	11
Dowling	3061 Jefferson St	Chamblee	30341	2
Pittard	2078 Black Fox Dr NE	Atlanta	30345	1
Hittner	2216 Clairmont Terrace NE	Atlanta	30345	1
Marshall	2559 Woodacres Rd	Atlanta	30345	1
Chilivis	2352 Logan Cir NE	Atlanta	30319	16
Duncan	2486 Skyland Trl NE	Brookhaven	30319	3
Crecente	2554 Drew Valley Rd NE	Atlanta	30319	1
Bonno	2358 Logan Cir NE	Atlanta	30319	1
Ruben	2039 Drew Valley Road	Atlanta	30319	3
Jimenez	2636 Cedar Pine Way	Doraville	30360	1
Needle	3144 Parkridge Crescent	Chamblee	30341	1
Milam	1907 Harrison Park Dr	Chamblee	30341	1

Stephens	4508 Sharon Valley Ct	Dunwoody	30338	2
Stark	3490 Hildon Cir	Chamblee	30341	2
Gordon	1634 Knob Hill Dr NE	Atlanta	30329	3
Adams	1896 9th St	ATLANTA	30341	7
Yates	1889 9th Street	Chamblee	30341	86
Friedman	1353 Brookhaven Village Cir NE	Atlanta	30319	10
Scher	2711 North Thompson	Atlanta	30319	1
Dutro	1641 Council Bluff Dr	Decatur	30345	71
Gardner	3752 Ensign Drive	Chamblee	30341	1
Sanke	4485 Huntington Circle	Dunwoody	30338	1
Hunnicut	2132 Meadowcliff Dr NE	Atlanta	30345	4
Feldman	2376 Arrow Cir	Atlanta	30341	1224
White	2493 Willow Wood Ct	Atlanta	30345	1
Dewitt	1463 Grant Dr	Brookhaven	30319	1
Gould	4903 Heatherdale Ln	Doraville	30360	1
Day	2400 Burch Cir	Atlanta	30319	1
Allardice	3614 Carmel Rd	Atlanta	30341	1
Gronde	2414 Sunset Drive NE	Atlanta	30345	2
Byers	3875 Longview Dr	Chamblee	30341	1
McLeroy	6178 Brookwood Rd	Norcross	30092	3
Riley	2562 Dering Cir	Chamblee	30341	1
Patel	530 Telford Pl	Atlanta	30342	2
Silver	2108 Meadowcliff Drive	Atlanta	30345	1
Moss	2360 Drew Valley Rd NE	Atlanta	30319	3
Patton	3283 Buckhead Forest Mews	Atlanta	30305	1
Van Pelt	1752 Morris Landers Dr	Atlanta	30345	1
Spatafora	5009 Lakeside Dr	Atlanta	30360	2
Patterson	5252 Lakesprings Dr	Dunwoody	30338	1
Gill	2687 Fairlane Dr	Chamblee	30340	1
Sheffield	1920 Gainsborough Drive	Chamblee	30341	3
Davidian	1806 Duke Road	Chamblee	30341	21
Greeley	7625 Treeridge Ct	Sandy Springs	30350	2
Terry	2652 Cove Circle NE	Atlanta	30319	54
Anon - 1	1875 8th St	Atlanta	30341	38
Runestad	2430 Field Way	Brookhaven	30319	12
Doe	765 Derrydown Way	Decatur	30030	1
30319	Drew Valley	Brookhaven	30319	3
Robinson	2586 Warwick Cir NE	Chamblee	30345	2
Lowry	2368 Peeler Rd	Dunwoody	30338	1
Delk	1934 Variations Dr NE	Atlanta	30329	1
Burns	3619 Raymond Dr	Doraville	30340	1

Hamilton	3029 Skyland Dr.	CHAMBLEE	30341	8
Lennon	1802 Tobey Road	Atlanta	30341	1
Eide	1893 Canmont Dr NE	Atlanta	30319	2
Loria	3607 London Rd	CHAMBLEE	30341	1
Jones	2571 Fontainebleau Court	Atlanta	30360	2
Flynt	Alison Dr.	Doraville	30340	1
Hicks	1494 Bates Court NE	Atlanta	30341	1
Novotny	1029 Fairway Estates	Brookhaven	30319	5
Fibus	2743 Redding Road	Atlanta	30319	8
Polsinelli	2016 Drew Valley Rd NE	Chamblee	30319	6
Penn	3039 Skyland Dr NE	Chamblee	30341	12
Scott-Lasley	1002 Lake Ridge Ln	Atlanta	30338	1
Bay	1843 Georgian Terrace	Chamblee	30341	1
Schmidt	1908 Variations Dr	Chamblee	30329	1
Mosler	1918 Gregory Run NE	Chamblee	30345	8
Breece	1483 Village Park Ct	Brookhaven	30319	1
Gokce	1955 Fairway Circle NE	Atlanta	30319	2
Smith	2002 Oak Grove Rd	Atlanta	30345	1
Anon - 2	3224 Shallowford Rd	Chamblee	30341	23
Rogers	2653 Warwick Cir NE	ATLANTA	30345	36
Anderson	2188 Clairmont Terrace	Atlanta	30345	2
Winer	2404 Stonington Rd	Dunwoody	30338	1
Fox	2423 Woodacres Rd NE	Atlanta	30345	12
Palumbo	7202 Westchester Ln	Atlanta	30345	2
Snyder	3439 Allison Dr	Doraville	30340	237
Adams	1979 Continental Dr NE	Atlanta	30345	1
Smith	2609 Skyland Dr NE	Atlanta	30319	9
Noel-Almy	1948 Shalimar Dr.	Atlanta	30345	1
Hendrickson	2925 Fontainebleau Dr	Atlanta	30360	2
Staples	2745 Ashburn Ln	Chamblee	30341	1
Schwartz	1685 Cotswold Drive NE	Brookhaven	30319	23
Fitzgerald	4457 Huntington Cir	Dunwoody	30338	1
Rohr	2115 Clairmont Terrace	Atlanta	30345	1
Anon - 3	3203 Stratford Arms Dr	Chamblee	30341	386
Anon - 4	2044 Groveglen Ct	Atlanta	30345	7
Schneider	3110 Skyland Dr NE	Chamblee	30341	1
Nichols	4500 Orleans Ct	Dunwoody	30338	1
Anon - 5	2486 Skyland Trail NE	Atlanta	30319	708
Philips	2442 Wentworth Dr NE	Atlanta	30345	343
Kyle	2232 Guinevere Way	Atlanta	30345	3
Bosse	2291 Drew Valley Road	Atlanta	30319	2

Conlon	1430 Oconee Pass	Atlanta	30319	2
PDK	2000 Airport Rd	Atlanta	30341	2
Brooks	2743 Reddng Road NE	Brookhaven	30319	2

Complaints per Commission District



2,118/

53

1,480/

67

Total Number of Complaints

Total Number of Complainants

3,605

/

123

There were 3 complainant(s) outside of DeKalb County with 7 complaint(s) total.

Correlation Chart of Noise Complaints to Operations

The airport correlated **3,504 (97.2%)** out of **3,605** complaints:

- **3,339 or 92.6%** of the noise complaints were found to be **Direct** correlations
- **165 or 4.6 %** were **Indirect** correlations to operations
- **101 or 2.8%** 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

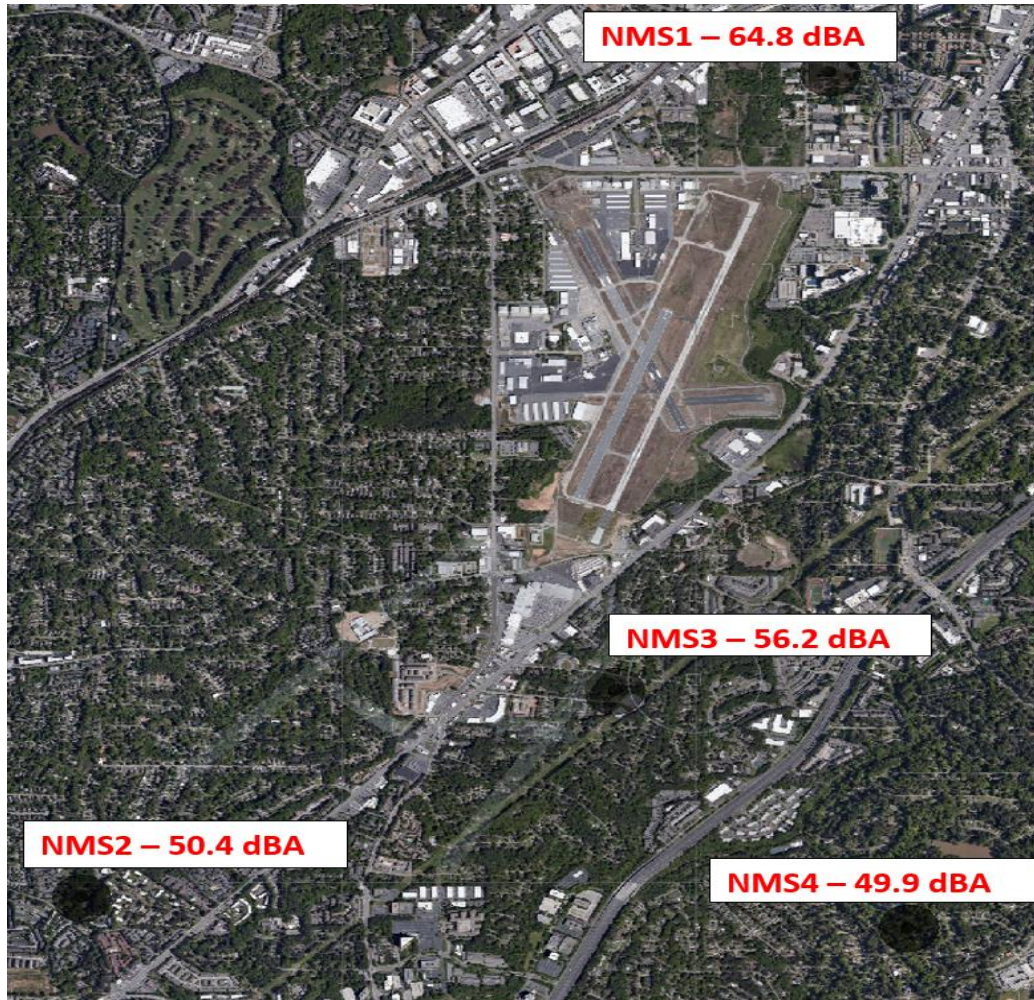
Rwy: Runway

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

2019 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 **4,060 (94.7%)** of the **4,289** operations during the voluntary curfew period (11PM-6AM) during **2019**. Of the **4,060** identified operations, **2,193 (54%)** were classified as **medical transport (e.g., Med-Evac) or other critical flights**.

- Out of the *identified* operations, **625 one-time** operations were conducted during this period.
- Out of the *identified* operations, **3,435 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:

1,056 operators were identified using the airport during the voluntary curfew period (does not include unknown aircraft).

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

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

Complaints received from operations conducted during the voluntary curfew period:

3,605 complaints were received during **2019**.

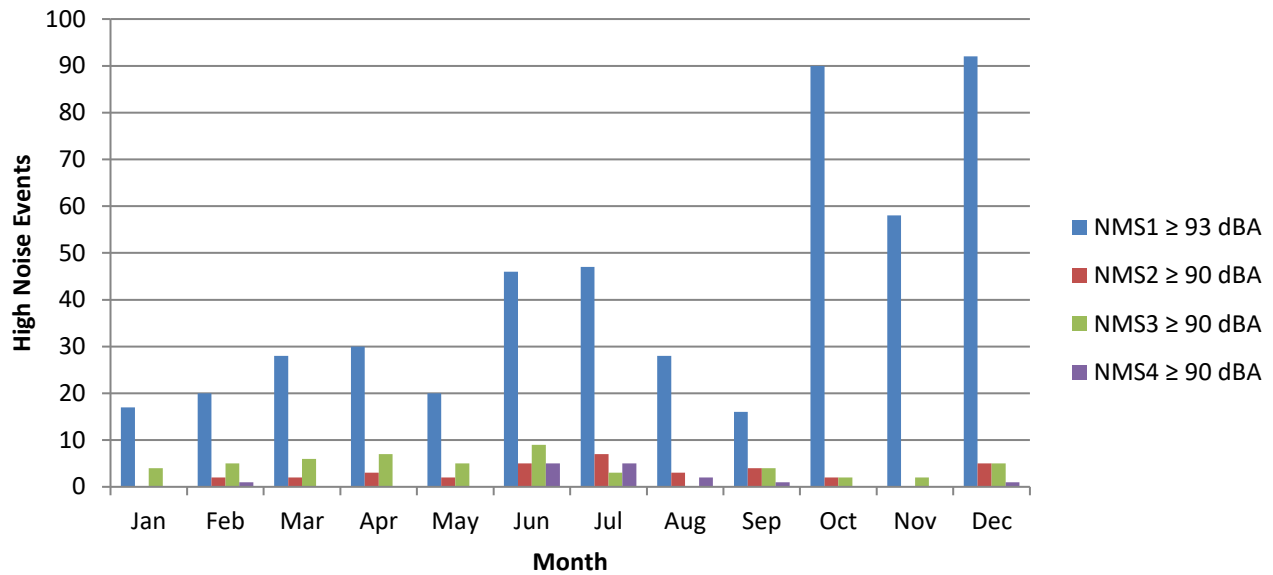
1,087 complaints were received for operations conducted during the voluntary curfew period (**including** those complaints that were found to be non-correlated or indirect).

A total of **988** advisory letters were sent to aircraft operators flying during the voluntary curfew period in **2019** 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 **93 dBA Lmax** or greater. All other monitors, NMS2, 3, & 4 are located in residential areas and are set at **90 dBA Lmax** or greater. A Total of **594** noise events occurs in 2019; with this **338** advisory letters were sent out for aircraft identified as Exceeding PDK's high noise event threshold.

High Noise Events 2019



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.