



Monthly Noise & Operations Report April 2020

Prepared by:
Korey Barnes
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.

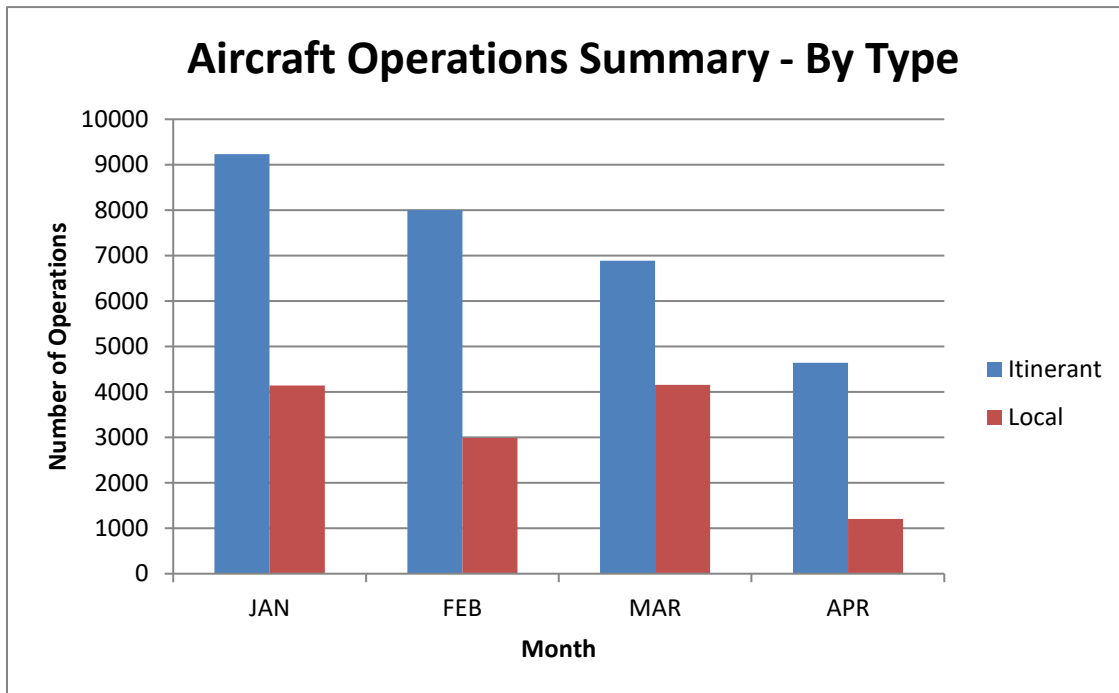
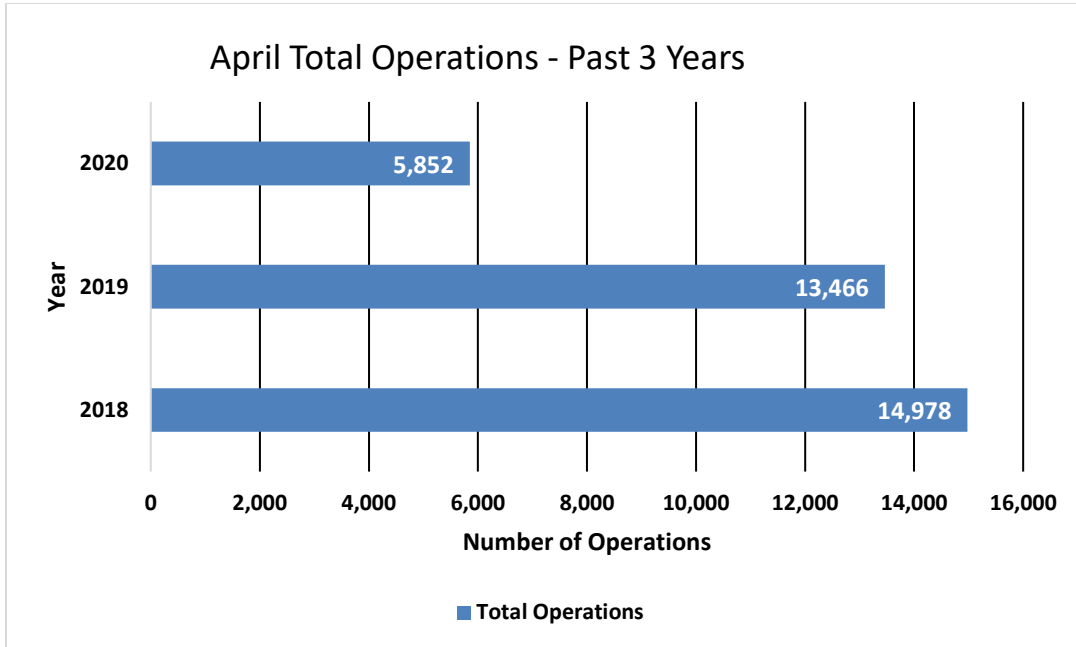
April 2020 Aircraft Operations:

	This Month	This Month, Last Year (April 2019)	% Change from April 2019	5-Year Average for Month
Total Operations	5,852	13,466	-56.54%	12,538
Itinerant	4,644	10,119	-54.11%	9,447
Local	1,208	3,347	-63.91%	3,091
Voluntary Curfew Ops	198	356	-44.38%	307
Prior Authorization	26	(0) Noise disturbance calls associated with these flights. (1) 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.

April 2020 Aircraft Operations Summary

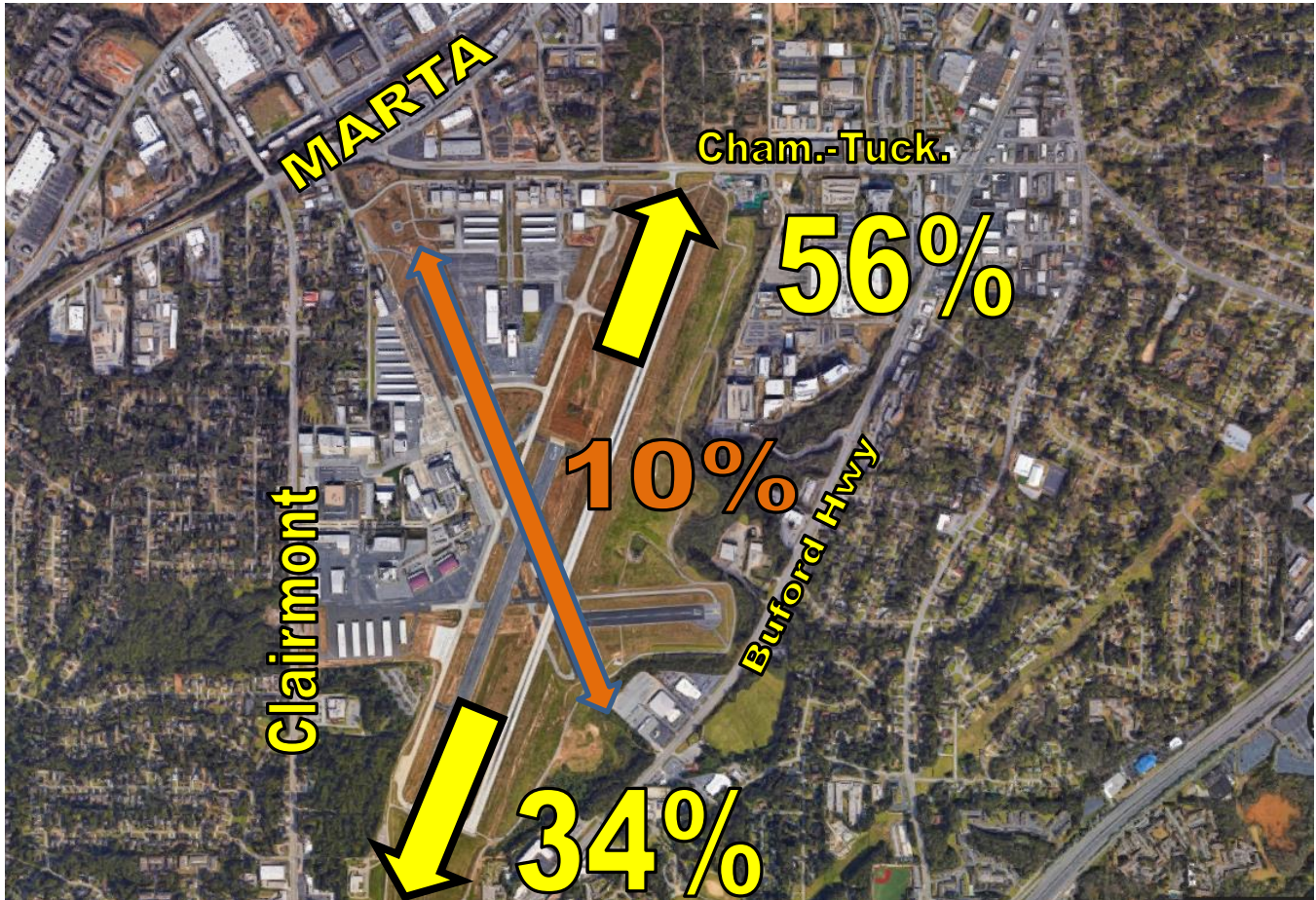


2019 Total Operations	2019 Total Operations as of Apr 2019	Total 2020 Ops as of Apr 2020
161,367	48,078	41,251 (-14.20%)

2020 Operations by Month				
	Itinerant	Local	Total Tower-Recorded Operations	Voluntary Curfew
JAN	9,231	4,142	13,373	311
FEB	7,999	2,988	10,987	280
MAR	6,886	4,153	11,039	275
APR	4,644	1,208	5,852	198
MAY				
JUN				
JUL				
AUG				
SEP				
OCT				
NOV				
DEC				

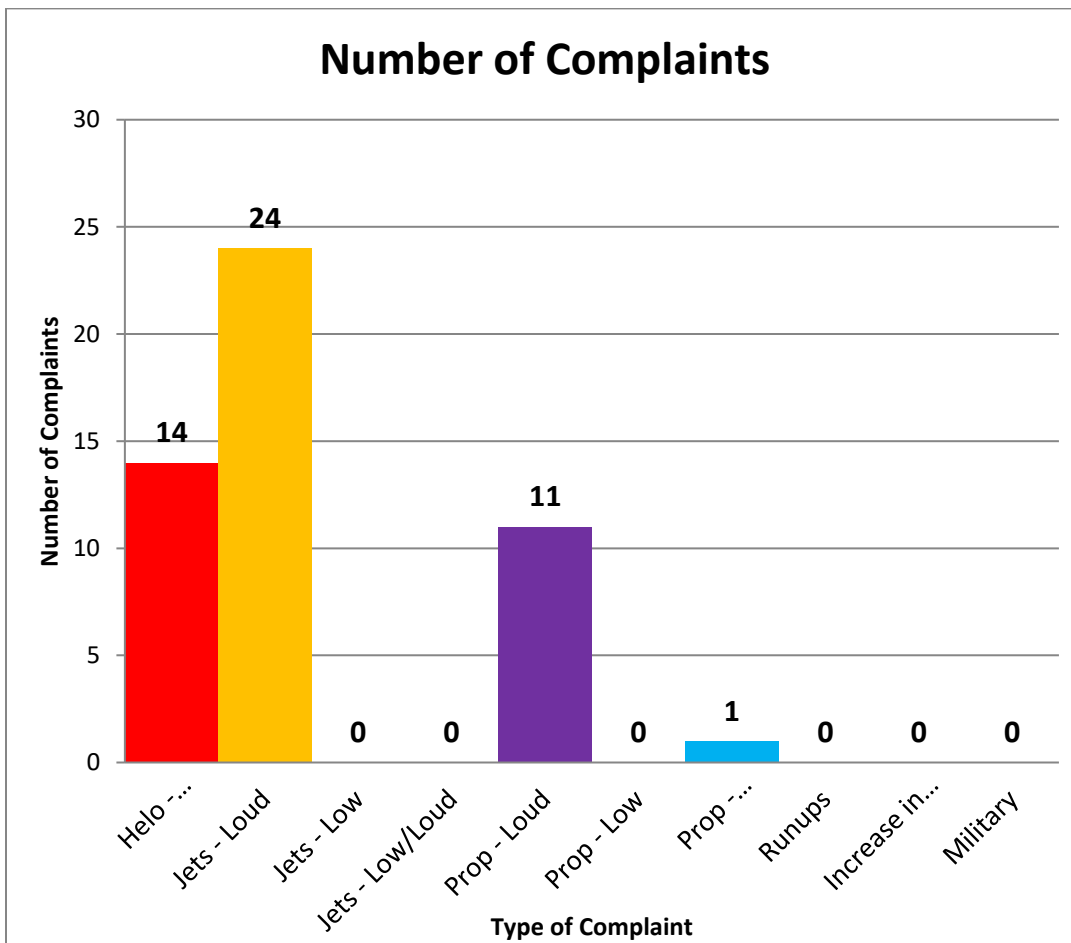
Runway Mode of Operations – April 2020

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.

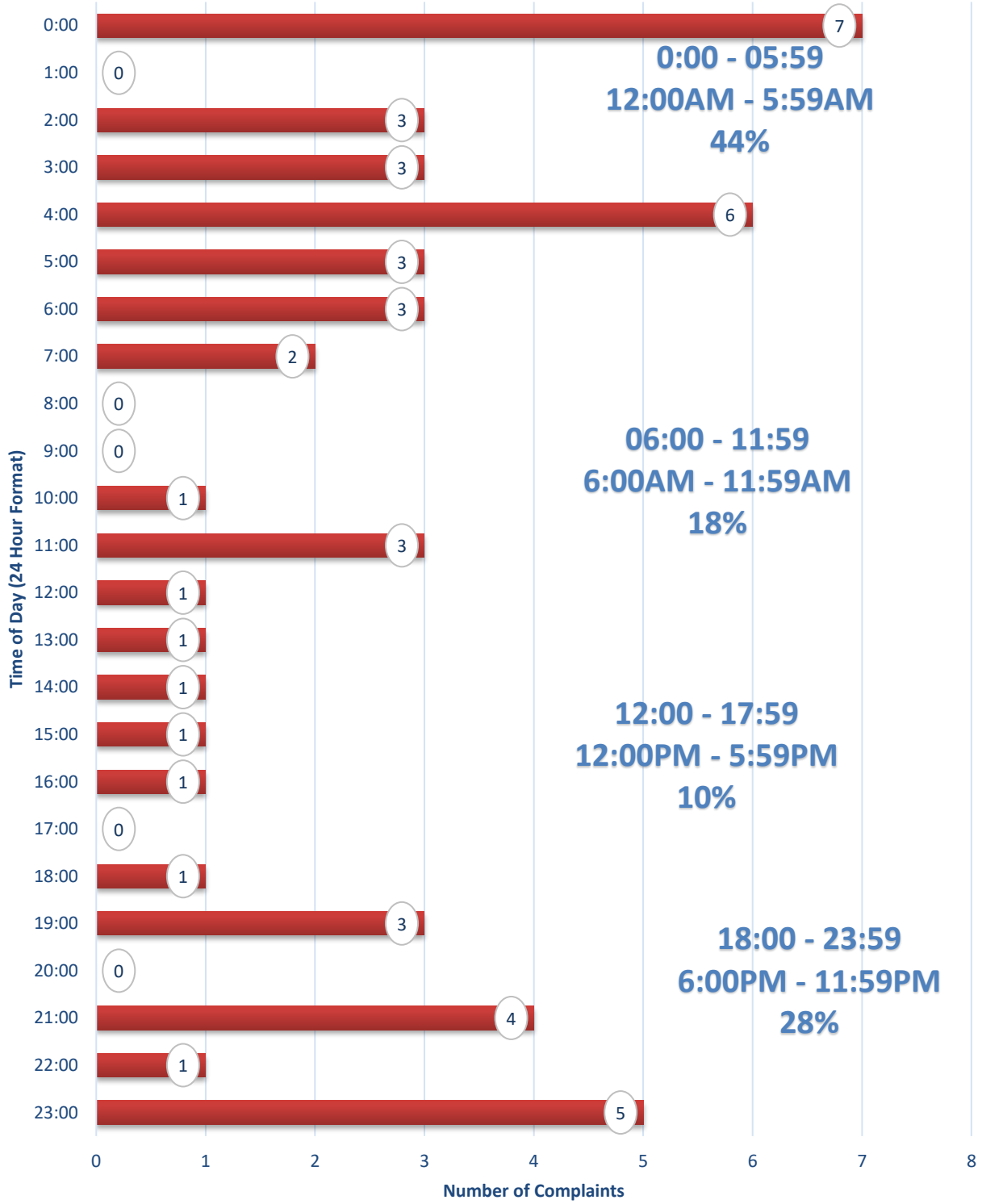


Noise Disturbance Summary

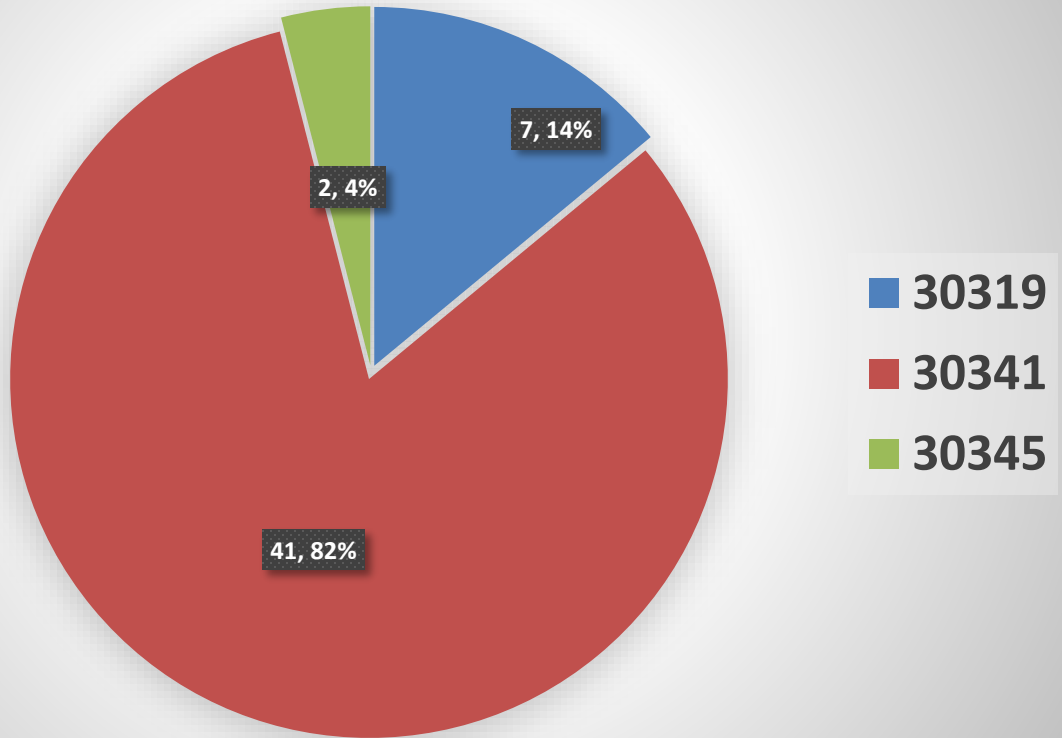
Total complaints for April 2020	Monthly Complaint Average 2020	April 2020 Complaints per Household <i>(minus top two/Households)</i>	April 2020 Complaints per Household <i>All Inclusive</i>
50	118	1.3	5.5



Number of Complaints by Hour



Complaints by Zip Code

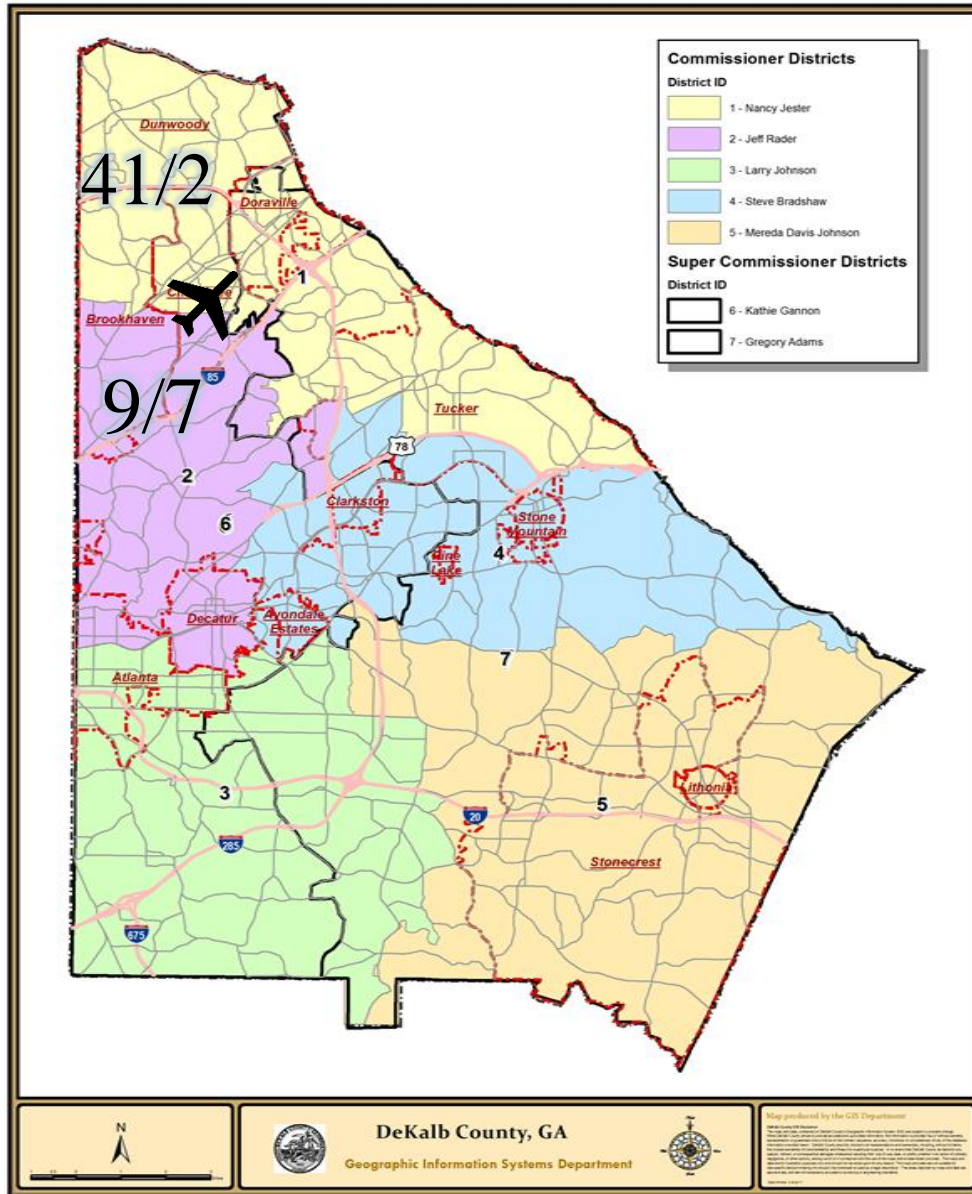


Zip Code Guide		
Zip Code	Community	% of Complaints
30319	Brookhaven	14%
30341	Chamblee - North	82%
30345	Chamblee – South	4%

Complaints by Caller

Name	Address	City	Zip Code	Complaints
Schneeberg	2707 Ashford Rd, NE	Atlanta	30319	3
Stamm	1824 Falling Sky Ct NE	Brookhaven	30319	1
Anon - 1	Dresden Dr	Atlanta	30341	38
Archer	4063 Chippewa Place	Atlanta	30319	1
Barbieri	2659 S Bamby Ln NE	Brookhaven	30319	1
Yates	1889 9th Street	Chamblee	30341	3
Hunnicut	2132 Meadowcliff Dr NE	Atlanta	30345	1
Runestad	2430 Field Way	Brookhaven	30319	1
Fox	2423 Woodacres Rd NE	Atlanta	30345	1

Complaints per Commission District



Total Number of Complaints




Total Number of Complainants

50/
9

There were 0 complainant(s) outside of DeKalb County with 0 complaint(s) total.

Correlation Chart of Noise Complaints to Operations

Chart Legend:

-  = Complaint + high noise event
-  = Complaint + high noise + PDK curfew operation
-  = Complaint + PDK curfew operation

The airport correlated **46 (92%)** out of **50** complaints:

- **44 or 88%** of the noise complaints were found to be **Direct** correlations
- **2 or 4 %** were **Indirect** correlations to operations
- **4 or 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

Name: Name of Complainant

Offense Start: Date/Time of offense to complainant

Flight Time: Actual Date/Time of correlated offense

Rwy: Runway

Op Type: Operation; Approach, Departure, or Overflight

Flight ID: Tail number of aircraft or military call sign

NMS: Noise Monitoring Station

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

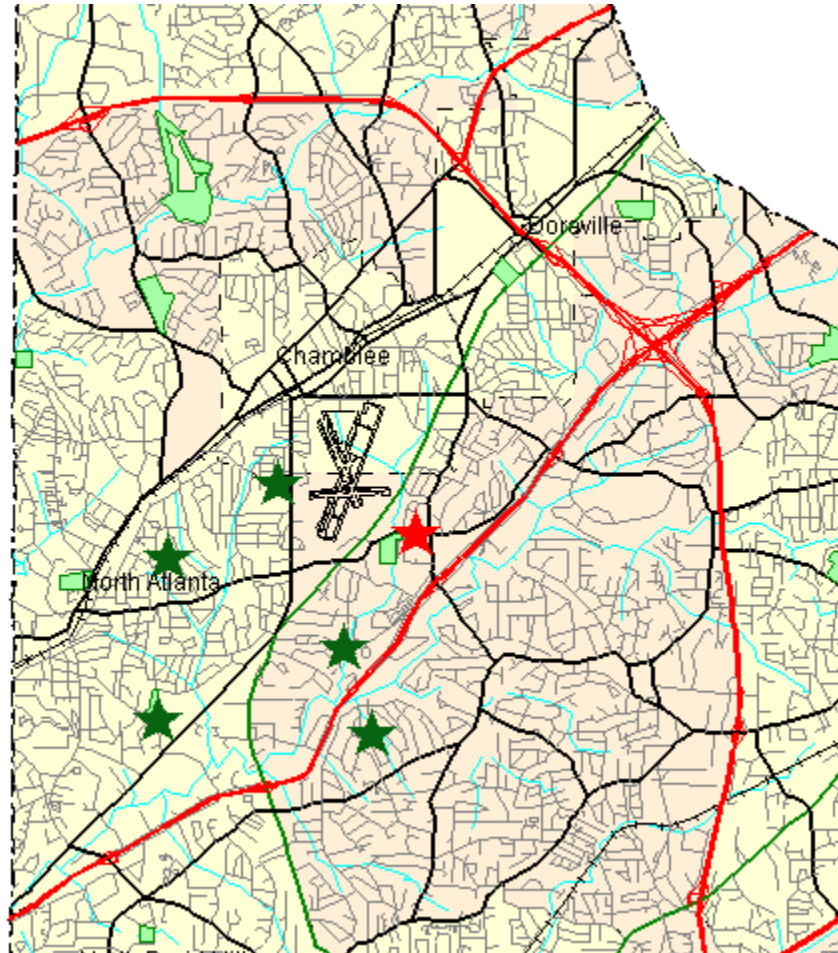
Please contact: *Korey Barnes, Airport Noise and Environmental Analyst*, for more information regarding the PDK Good Neighbor Program at (770) 936-5440 or kbarnes@dekalbcountyga.gov.

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

Name	Offense Time	Flight Time	RWY	Ops	Aircraft Type	Aircraft ID	NMS	Lmax
Anon-1	4/1/2020 3:50	4/1/2020 3:45	03R	D	C525	N525LX		
Anon-1	4/1/2020 4:08	4/1/2020 4:04	03R	D	C208	N208LS		
Anon-1	4/1/2020 6:07	4/1/2020 6:05	16	D	UNKN	N2AQ		
Anon-1	4/1/2020 6:46	4/1/2020 6:42	UNK	D	UNKN	N76PC		
Anon-1	4/1/2020 19:49	4/1/2020 19:51	03R	A	GLF4	N1624K	NMS03	66.9
Anon-1	4/2/2020 0:12	4/2/2020 0:15	03R	A	LJ60	N156DH	NMS03	69
Anon-1	4/2/2020 0:29	4/2/2020 0:28	03R	D	AC50	CTL67		
Anon-1	4/2/2020 2:50	4/2/2020 2:46	21L	D	C208	N208LS	NMS03	76.3
Fox	4/2/2020 6:40	4/2/2020 6:14	16	D	UNKN	N684AE		
Anon-1	4/2/2020 11:42	4/2/2020 11:44	34	A	UNKN	N41HX		
Schneeberg	4/2/2020 18:05	4/2/2020 18:02	UNK	D	UNKN	N46CL		
Runestad	4/2/2020 19:22	4/2/2020 19:26	03R	A	CL35	LXJ592		
Anon-1	4/2/2020 21:38	4/2/2020 21:42	03R	A	UNKN	N68GA		
Anon-1	4/2/2020 22:40	4/2/2020 22:36	21L	D	BE40	N308KP	NMS03	83.3
Anon-1	4/3/2020 7:26	4/3/2020 7:19	21L	D	G280	N280PC	NMS03	79.3
Anon-1	4/3/2020 7:32	4/3/2020 7:27	03R	D	E545	LXJ427	NMS03	74.6
Anon-1	4/4/2020 0:20	4/4/2020 0:19	03R	D	AC50	CTL67		
Anon-1	4/5/2020 21:07	4/5/2020 21:14	03R	A	UNKN	N896T	NMS03	85.8
Anon-1	4/7/2020 23:37							
Anon-1	4/8/2020 0:08	4/8/2020 0:11	34	A	UNKN	N165AE		
Anon-1	4/8/2020 4:26	4/8/2020 4:25	21L	D	C525	N525LX	NMS03	77.3
Hunnicut	4/9/2020 2:24	4/9/2020 2:10	21L	D	BE40	N782TP	NMS04	78.1
Anon-1	4/9/2020 3:11	4/9/2020 3:11	21L	D	C208	N208LS	NMS03	77.3
Stamm	4/9/2020 21:11							
Anon-1	4/10/2020 4:56	4/10/2020 5:06	27L	A	MD11	UNKNOWN		
Anon-1	4/11/2020 5:05	4/11/2020 4:44	03R	D	G280	N270PC		
Anon-1	4/11/2020 5:45							
Anon-1	4/12/2020 0:35	4/12/2020 0:21	UNK	O	UNKN	N445CH		
Anon-1	4/13/2020 11:45	4/13/2020 11:53	21L	A	FA50	N50HN	NMS03	70.6

Anon-1	4/14/2020 4:27	4/14/2020 4:16	21L	D	C560	N900PS	NMS03	83.5
Anon-1	4/14/2020 23:47	4/14/2020 23:56	34	A	UNKN	N7109C		
Anon-1	4/15/2020 4:22	4/15/2020 4:29	26R	A	A306	UNKNOWN		
Schneeberg	4/16/2020 12:39	4/16/2020 12:21	UNK	O	UNKN	N336AE		
Anon-1	4/16/2020 14:58	4/16/2020 14:57	UNK	D	UNKN	UNKNOWN		
Schneeberg	4/17/2020 11:02	4/17/2020 10:59	16	D	UNKN	N5QV		
Yates	4/17/2020 15:20	4/17/2020 15:21	21L	A	C560	N265CM		
Archer	4/19/2020 13:08							
Anon-1	4/19/2020 23:13	4/19/2020 22:49	21L	D	GLF4	N685MF		
Yates	4/20/2020 10:20	4/20/2020 10:30	34	A	S22T	N99HS		
Anon-1	4/21/2020 2:54	4/21/2020 2:51	16	D	C208	N208LS		
Anon-1	4/23/2020 0:59	4/23/2020 0:57	03R	D	UNKN	UNKNOWN		
Anon-1	4/23/2020 23:36	4/23/2020 23:38	21L	A	GLF4	N598GS		
Yates	4/24/2020 19:56	4/24/2020 19:53	UNK	D	UNKN	UNKNOWN		
Barbieri	4/25/2020 16:40							
Anon-1	4/26/2020 5:46	4/26/2020 5:24	21L	D	LJ35	N131AJ	NMS03	81.7
Anon-1	4/27/2020 0:20	4/27/2020 0:21	03R	A	GLF4	TFF909	NMS03	67.6
Anon-1	4/28/2020 3:03	4/28/2020 3:08	16	D	C208	N208LS		
Anon-1	4/29/2020 21:07	4/29/2020 21:11	21L	A	C560	N154JK	NMS03	69.3
Anon-1	4/30/2020 4:05	4/30/2020 4:04	21L	D	C560	N154JK	NMS03	84
Anon-1	4/30/2020 23:19	4/30/2020 23:24	UNK	A	UNKN	N4488H		

Disturbance Location Pin Map – April 2020



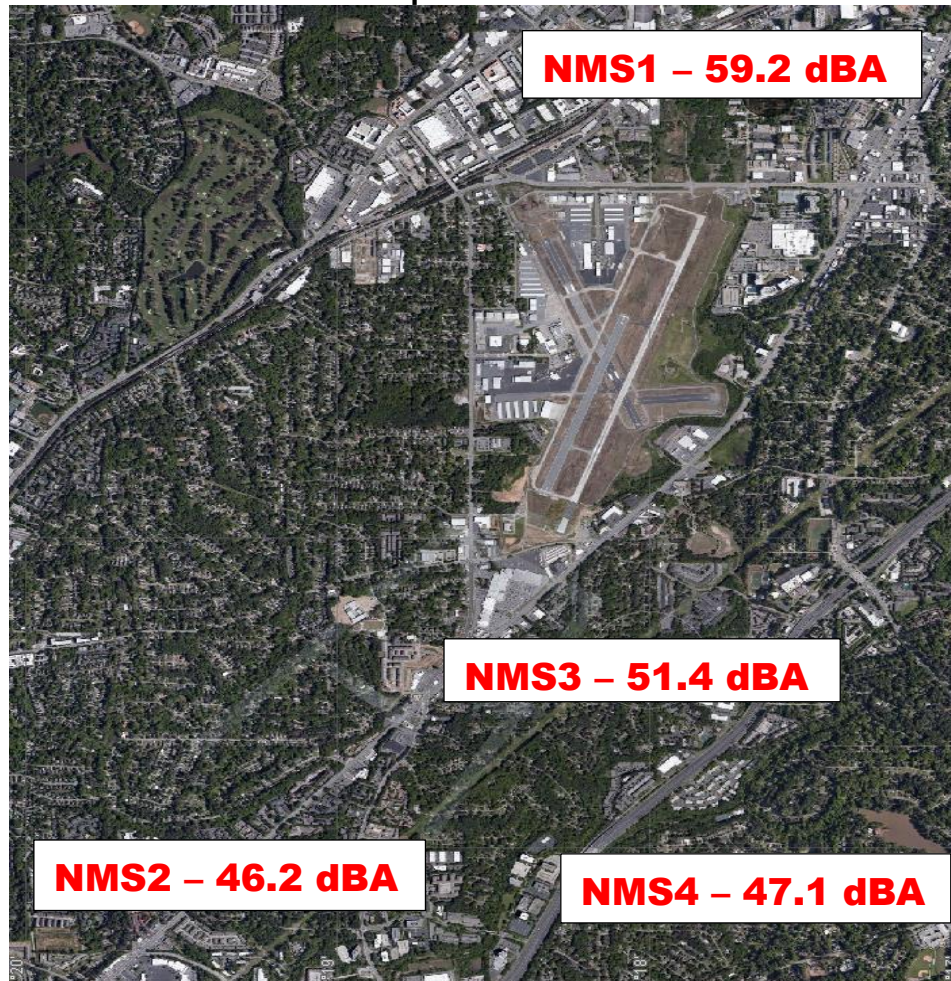
- ★ 1-5 Complaints
- ★ 6-10 Complaints
- ★ 11+ Complaints

Complainants with Complaints Total

(2 Complainant(s) outside of DeKalb County)

Monthly Noise Levels at Monitors

April 2020



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 **197 (99.49%)** of the **198** operations during the voluntary curfew period (11PM-6AM) during the month of **April 2020**. Of the **197** identified operations, **141 (71.5%)** were classified as **medical transport (e.g., Med-Evac) or other critical flights**. These aircraft are identified in **red bold font** below.

- Out of the *identified* operations, **34 one-time** operations were conducted during this period.
- Out of the *identified* operations, **163 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:

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

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

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

Complaints received from operations conducted during the voluntary curfew period:

50 complaints were received during **April 2020**.

29 (58%) complaints were received for operations conducted during the voluntary curfew period (**including** those complaints that were found to be non-correlated or indirect).

This Month – April 2020 N#'s (Multi-Use):

15 Aircraft with 2 Operations (**N895CR, N525LX, N131AJ**, N154JK, **N553AE**, N156DH, N9868VM N179SF, N500TH, **N309CJ, N539RM**, N336AE, **N891AA, OLV750, CTE816, N900PS**)

3 Aircraft with 3 Operations (**CTE491, N377P**, N9686M)

3 Aircraft with 4 Operations (**N355AE**, N165AE, **CTE585**)

2 Aircraft with 6 Operations (N103AV)

1 Aircraft with 11 Operations (**N445CH**)

1 Aircraft with 37 Operations (**CTL67**)

1 Aircraft with 55 Operations (**N208LS**)

Last Month – March 2020 N#'s (Multi-Use):

23 Aircraft with 2 Operations (N63AE, EJA501, N418DL, N156DH, N525LX, N245PE, N179SF, EJA341, N423AE, N911AL, N4TL, CTE816, N553AE, N900PS, N683GA, N94AD, N401SM, N949SA, N349D, EJA649, N349SB, N30LP, N304JT)

2 Aircraft with 3 Operations (N423AE, N895CR)

3 Aircraft with 4 Operations (N826AC, N16PC, N154JK)

2 Aircraft with 6 Operations (CTE585)

1 Aircraft with 16 Operations (SKQ43)

1 Aircraft with 39 Operations (CTL67)

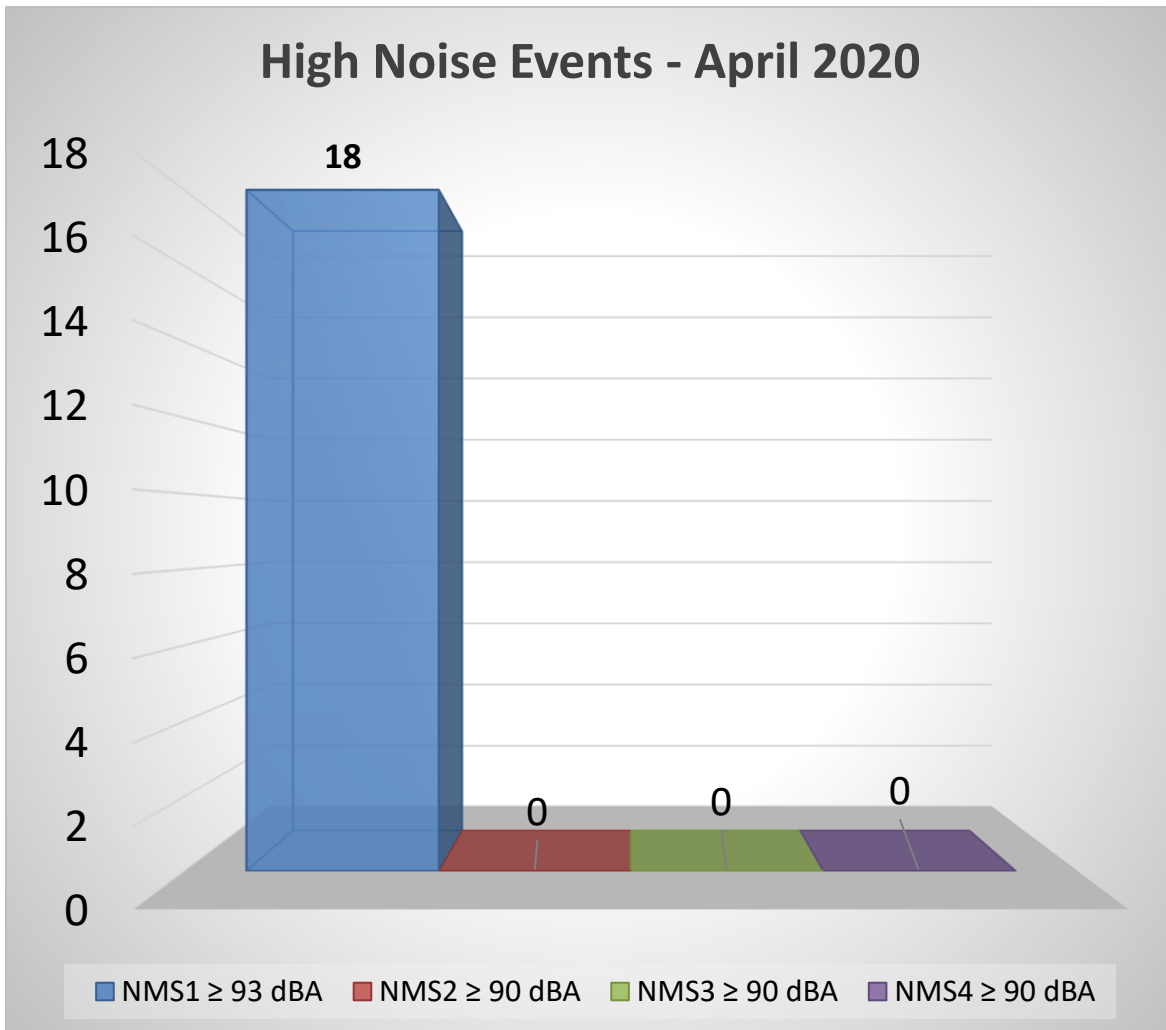
1 Aircraft with 59 Operations (N208LS)

4 Aircraft with 8 Operations (N103AV, N445CH, EMD28, SKQ44)

A total of **55** advisory letters were sent to aircraft operators flying during the voluntary curfew period in the month of **April** 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 **18** advisory letters were sent out this month for aircraft identified as Exceeding PDK's high noise event threshold.



April 2020

9 Aircraft with 1 High Noise Event (JTL58, N685MF, N683GA, N730CJ, N500TH, N325CA, TIV56, N524LR, N591GT)

1 Aircraft with 3 High Noise Events (N896T)

1 Aircraft with 6 High Noise Events (N50HN)

March 2020

35 Aircraft with 1 High Noise Event (TFF980, N725WF, N682GA, EJM790, N823MC, JTL480, EJA532, N500FZ, N103AV, N68GA, N114HC, N800TH, N116RW, N977LC, N1D, DCM4068, N200WL, N501RP, N236D, N525F, N27GA, N683GA, N30WR, N711P, N323P, N77ME, N330WR, N8176R, N359BC, N891SH, N36EE, N990MM, N400WF, N428JD, N499PA)

1 Aircraft with 2 High Noise Events (N50HN)

1 Unknown Aircraft

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.