



Monthly Noise & Operations Report March 2020

Prepared by:
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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.

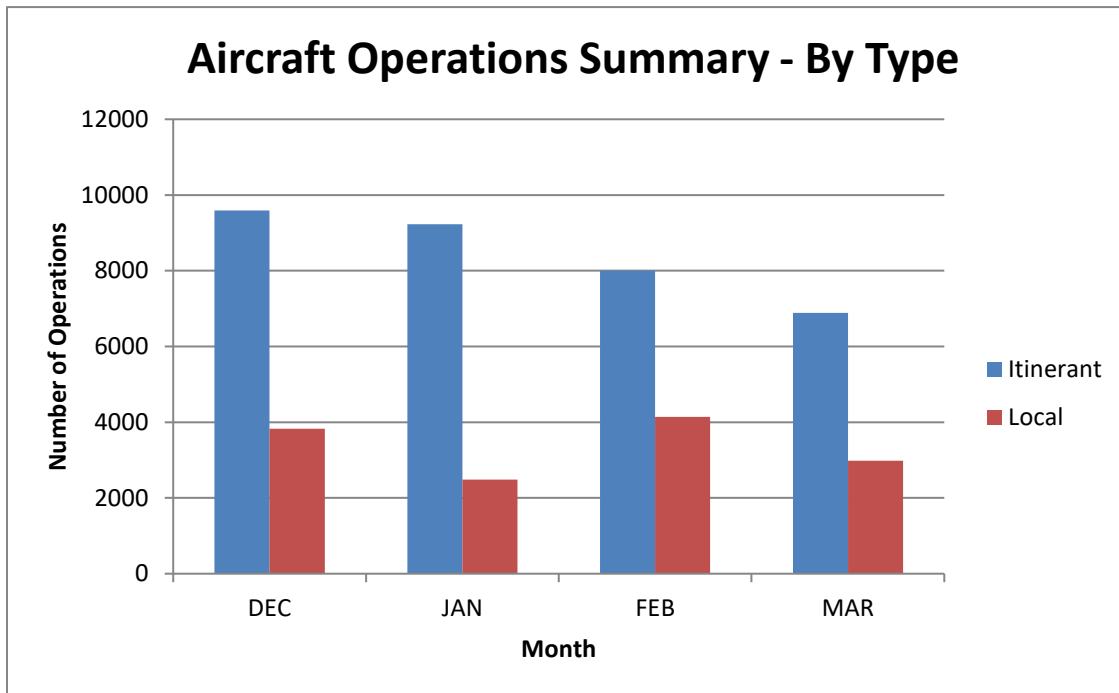
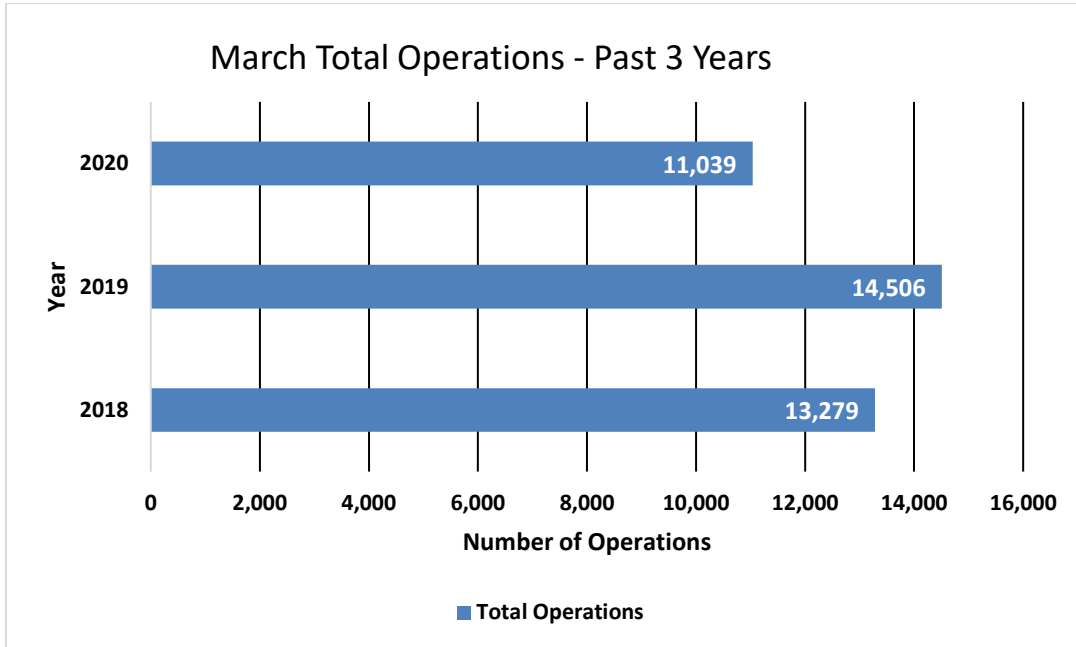
March 2020 Aircraft Operations:

	This Month	This Month, Last Year (March 2019)	% Change from March 2019	5-Year Average for Month
Total Operations	11,039	14,506	-23.90%	12,443
Itinerant	6,886	10,247	-32.80%	9,816
Local	4,153	4,259	-2.49%	3,426
Voluntary Curfew Ops	275	323	-14.86%	325
Prior Authorization	94	(1) Noise disturbance calls associated with these flights. (5) 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.

March 2020 Aircraft Operations Summary

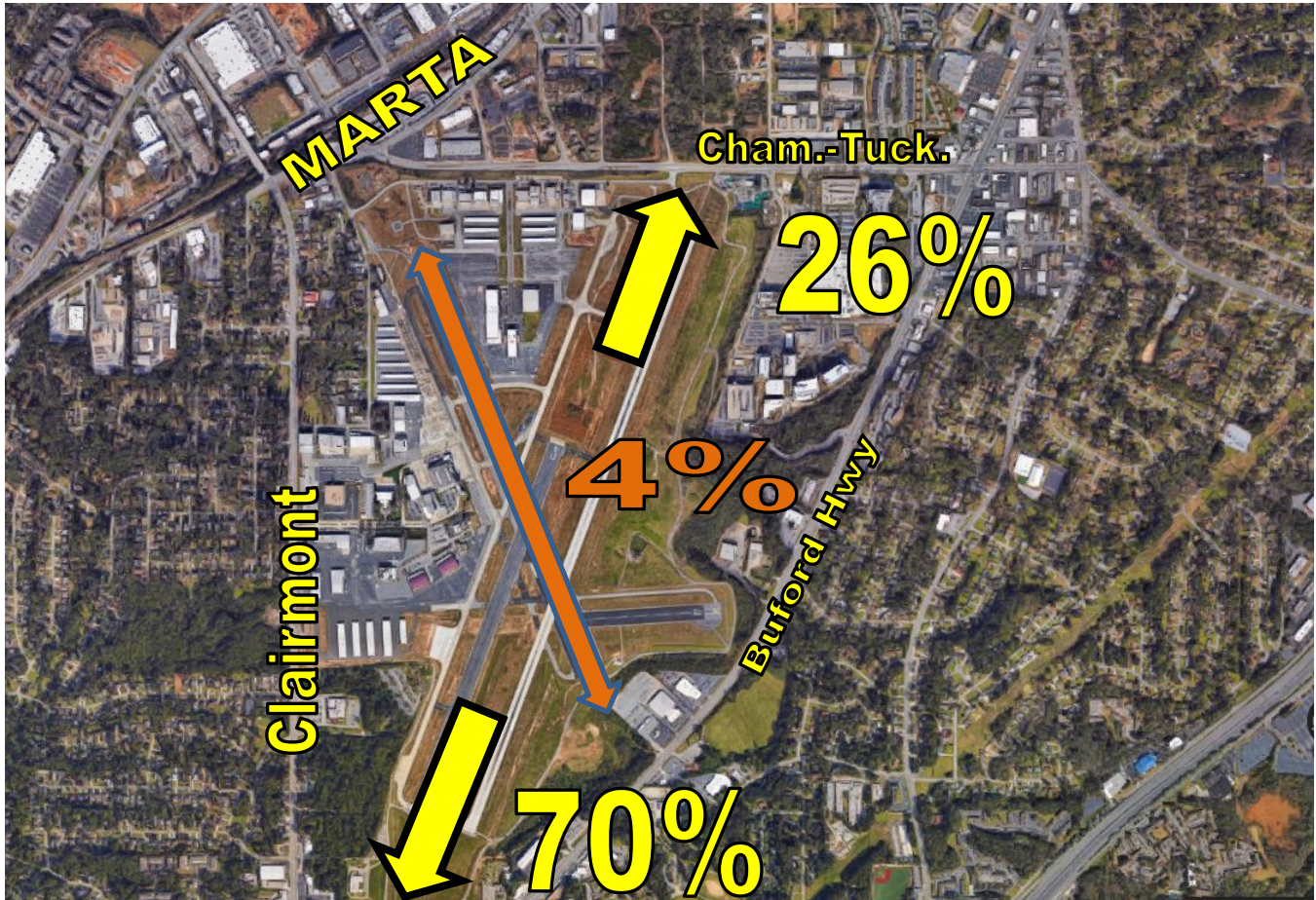


2019 Total Operations	2019 Total Operations as of Mar 2019	Total 2020 Ops as of Mar 2020
161,367	34,612	35,399 (2.27%)

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				
MAY				
JUN				
JUL				
AUG				
SEP				
OCT				
NOV				
DEC				

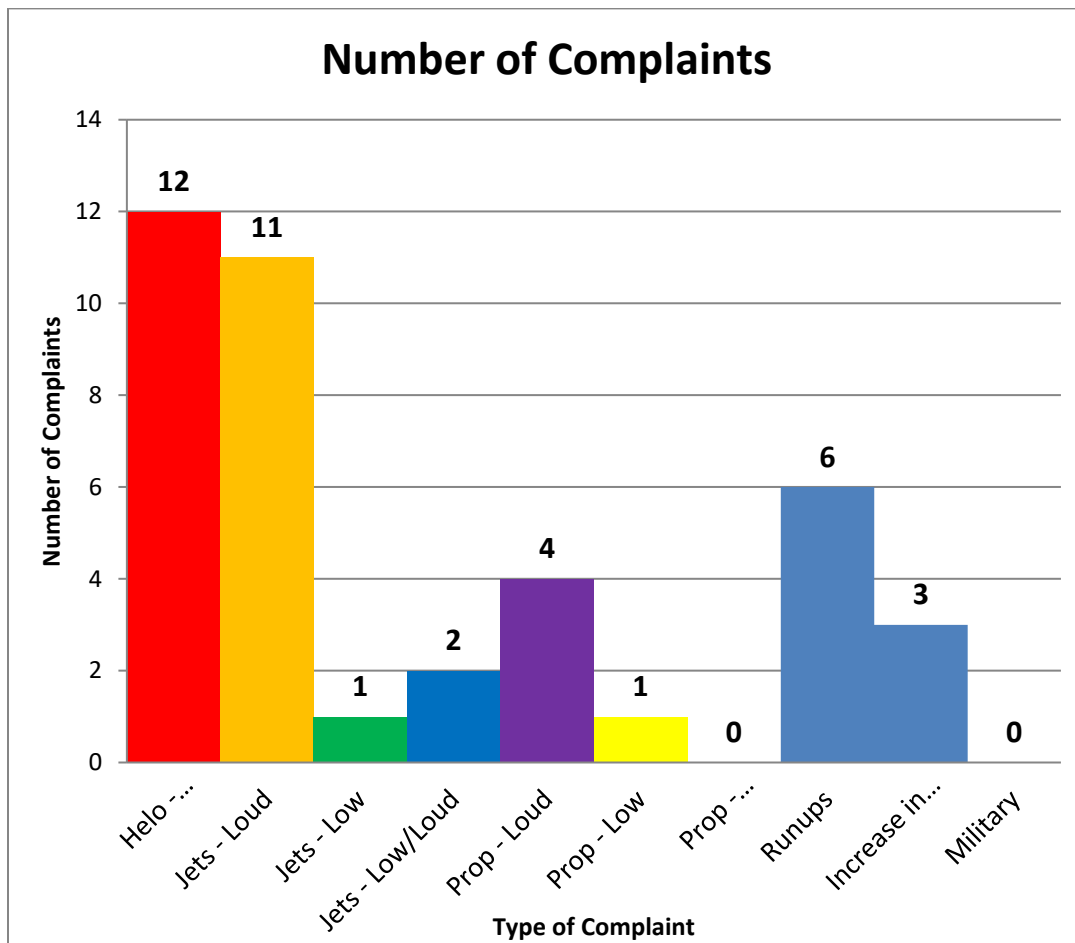
Runway Mode of Operations – March 2020

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.

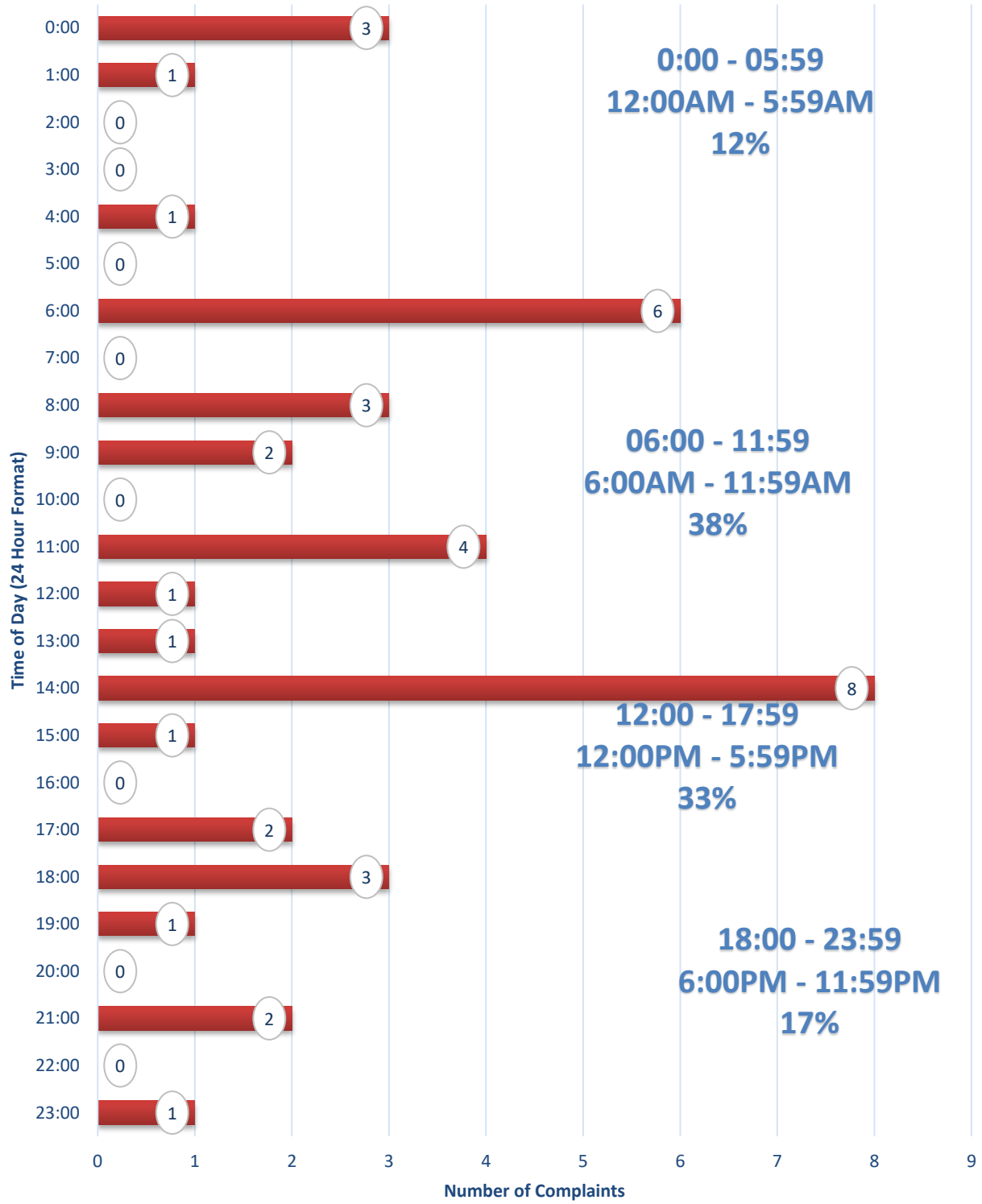


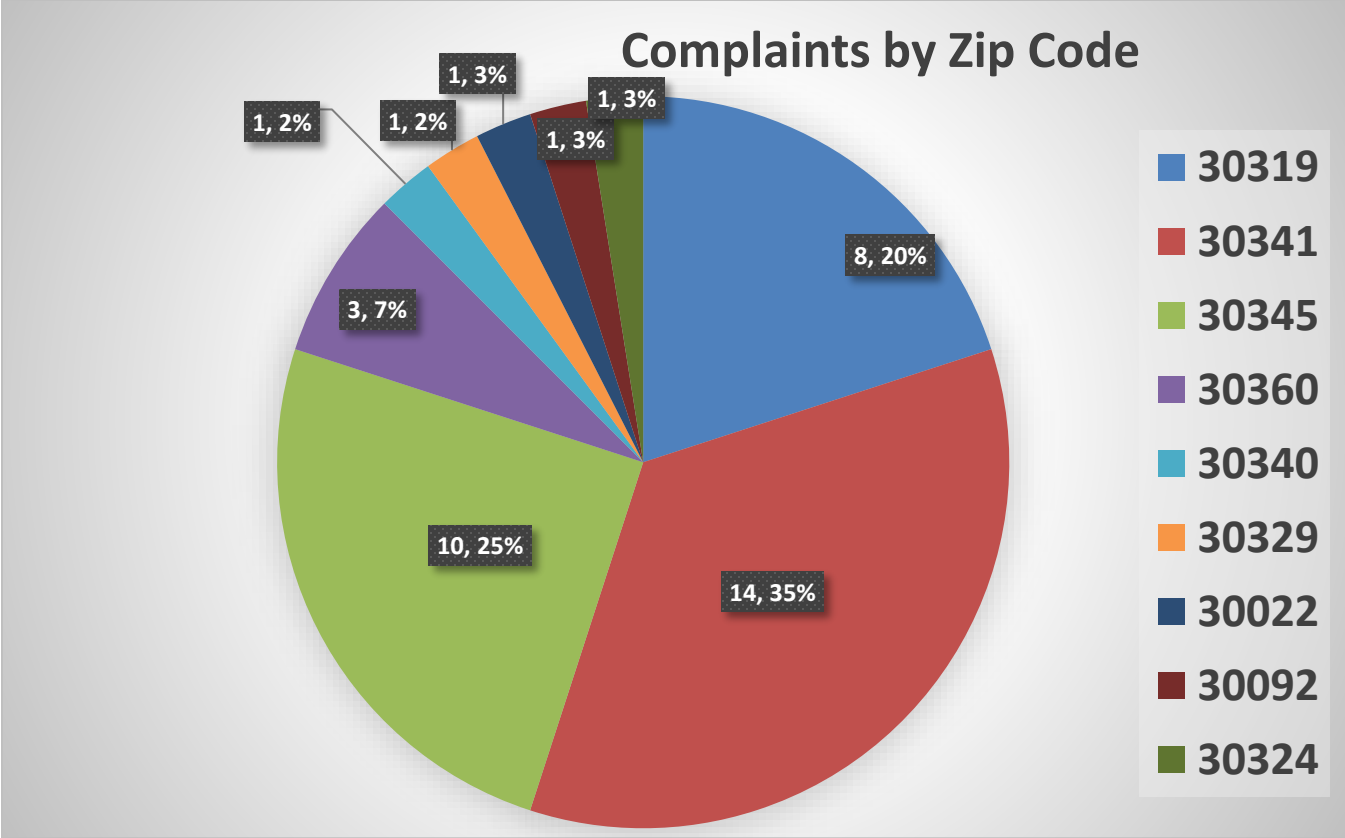
Noise Disturbance Summary

Total complaints for March 2020	Monthly Complaint Average 2020	March 2020 Complaints per Household <i>(minus top two/Households)</i>	March 2020 Complaints per Household <i>All Inclusive</i>
40	141	1.35	1.8



Number of Complaints by Hour



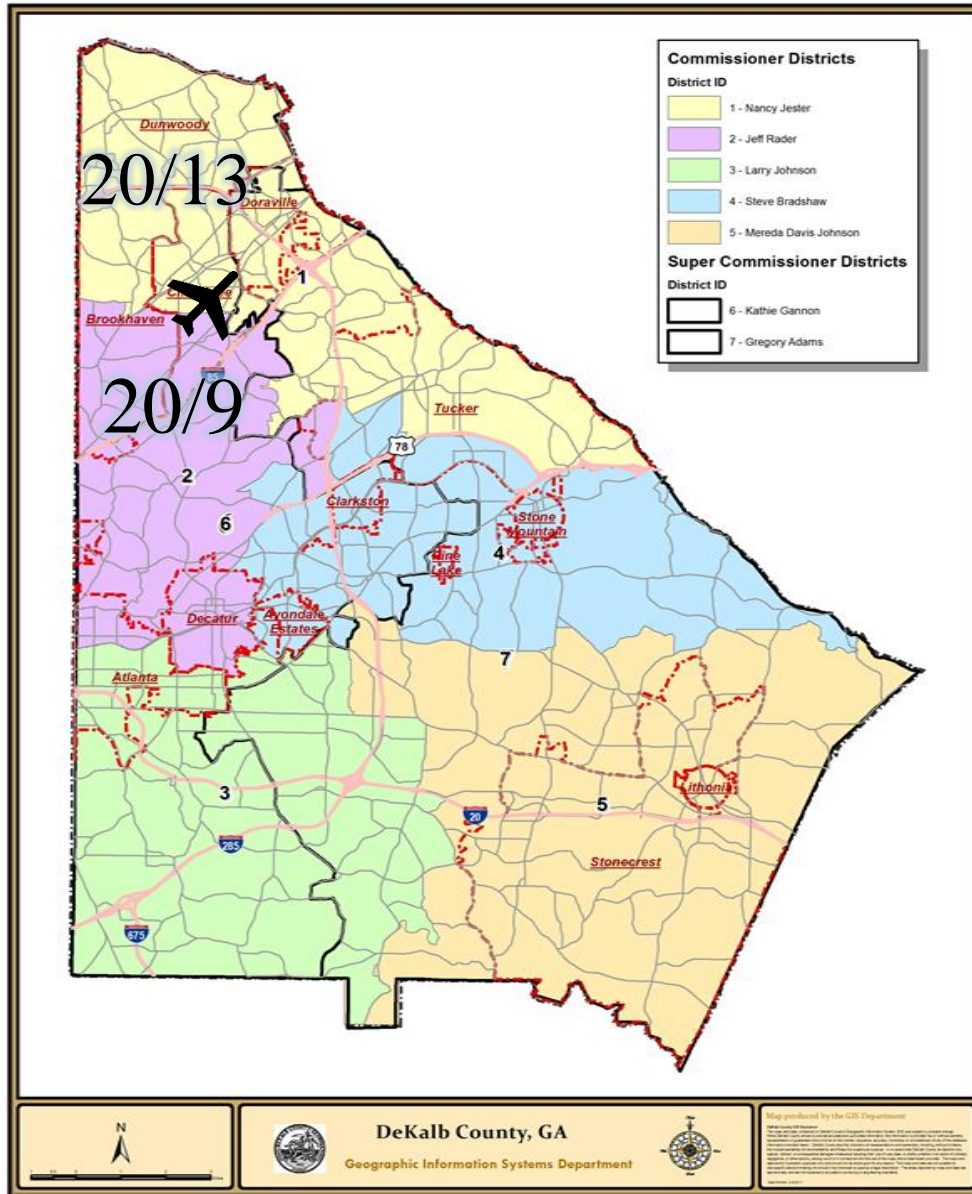


Zip Code Guide		
Zip Code	Community	% of Complaints
30319	Brookhaven	20%
30341	Chamblee - North	35%
30345	Chamblee - South	25%
30360	Doraville	7%
30340	Tucker	2%
30329	Druid Hills	2%
30022	Johns Creek	3%
30092	Peachtree Corners	3%
30324	Atlanta	3%

Complaints by Caller

Name	Address	City	Zip Code	Complaints
Schneeberg	2707 Ashford Rd, NE	Atlanta	30319	1
Anon-2	Falling Sky Ct NE	Brookhaven	30319	1
Nagel	3905 Winters Hill Drive	Atlanta	30360	3
Anon-1	Dresden Dr	Atlanta	30341	3
Dawson	2359 Woodside Way	Chamblee	30341	2
Koeth	2010 Woodsdale Road	Atlanta	30324	1
Robertson	1969 Variations Dr NE	Atlanta	30329	1
Archer	4063 Chippewa Place	Atlanta	30319	1
Purushothaman	230 WATERS MILL TRL	Alpharetta	30022	1
Yates	1889 9th Street	Chamblee	30341	7
Friedman	1353 Brookhaven Village Cir NE	Atlanta	30319	1
Hunnicut	2132 Meadowcliff Dr NE	Atlanta	30345	1
McLeroy	6178 Brookwood Rd	Peachtree Corners	30092	1
Prines-Valley	3423 Alison Dr	Doraville	30340	1
Terry	2652 Cove Circle NE	Atlanta	30319	2
Hartman	2952 Villa Esta Dr	Chamblee	30341	1
Novotny	1029 Fairway Estates	Brookhaven	30319	1
Penn	3039 Skyland Dr NE	Chamblee	30341	1
Fox	2423 Woodacres Rd NE	Atlanta	30345	6
Douglas	2427 Coosawattee Dr NE	Atlanta	30319	1
Philips	2442 Wentworth Dr NE	Atlanta	30345	2
Mosler	1918 Gregory Run Ne	Atlanta	30345	1

Complaints per Commission District



Total Number of Complaints

40/




Total Number of Complainants

22

There were 2 complainant(s) outside of DeKalb County with 2 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 **30 (75%)** out of **40** complaints:

- **30 or 75%** of the noise complaints were found to be **Direct** correlations
- **0 or 0 %** were **Indirect** correlations to operations
- **10 or 25%** 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

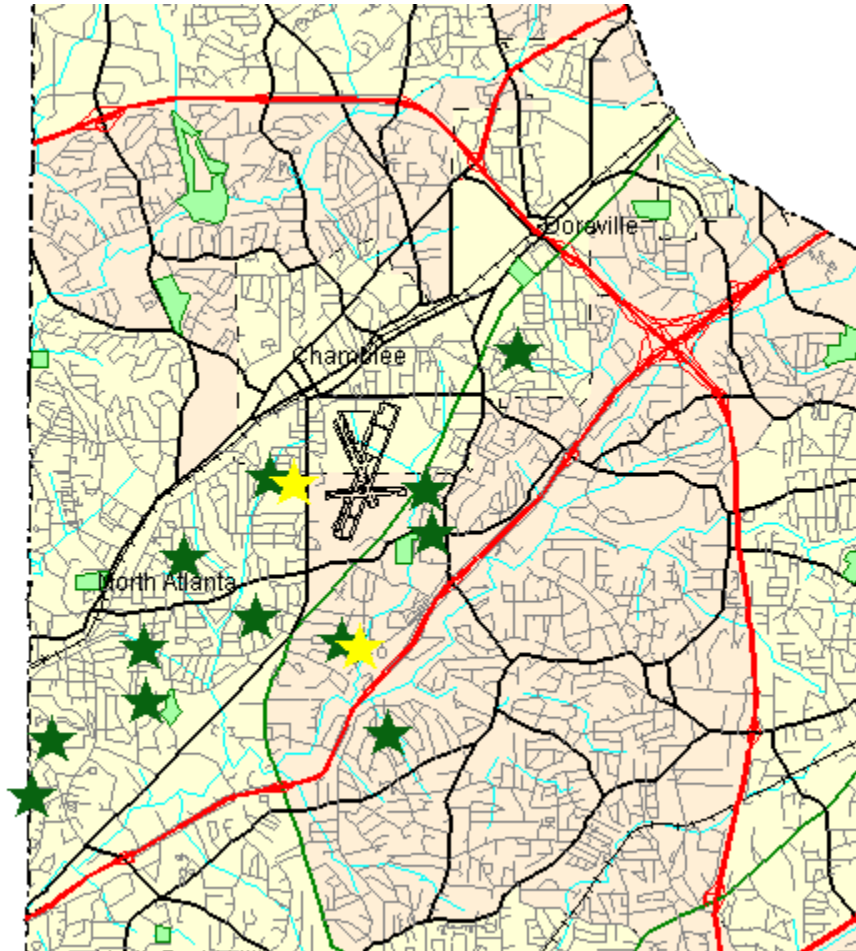
Please contact: *Korey Barnes, Airport Noise and Environmental Analyst*, for more information regarding the PDK Good Neighbor Program at (770) 936-5440 or kbarnes@dekalbcountyga.gov.

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
Fox	3/1/2020 4:10							
Hartman	3/1/2020 14:23	3/1/2020 14:32	21R	A	UNKN	N495AU		
Anon-1	3/1/2020 14:53	3/1/2020 15:04	21R	A	UNKN	N3196Y		
Philips	3/1/2020 19:11	3/1/2020 19:06	21L	D	GLF5	PEG4		
Friedman	3/3/2020 18:23	3/3/2020 18:22	21L	D	G150	N101RX	NMS02	81.1
McLeroy	3/4/2020 14:45							
Nagel	3/4/2020 14:46	3/4/2020 14:51	21L	A	C680	N47SC		
Yates	3/5/2020 23:32	3/5/2020 23:29	21L	A	G280	N270PC		
Mosler	3/7/2020 0:12							
Penn	3/7/2020 0:48	3/7/2020 0:48	03R	D	AC50	CTL67		
Yates	3/9/2020 1:43							
Anon-2	3/9/2020 21:44							
Schneeberg	3/10/2020 9:53	3/10/2020 9:48	21R	D	UNKN	N568K		
Dawson	3/10/2020 11:00							
Dawson	3/10/2020 11:03							
Anon-1	3/10/2020 11:20	3/10/2020 11:19	21L	D	B350	GAJ805	NMS03	71.8
Robertson	3/11/2020 18:25							
Nagel	3/13/2020 14:37	3/13/2020 14:38	21L	A	BE30	N740PC		
Novotny	3/14/2020 12:19	3/14/2020 12:22	UNK	T	UNKN	N608HR		
Yates	3/15/2020 8:03	3/15/2020 8:07	03R	A	C560	N154JK		
Yates	3/15/2020 8:50	3/15/2020 8:52	03R	D	P28A	N589A		
Nagel	3/15/2020 17:20	3/15/2020 17:20	21L	A	GLF3	N330WR		
Fox	3/18/2020 6:10	3/18/2020 6:05	UNK	D	UNKN	N2AQ		
Fox	3/18/2020 6:48	3/18/2020 6:48	21L	D	C550	N695TA	NMS03	81.5

Fox	3/18/2020 6:56	3/18/2020 6:55	21L	D	C25B	DPJ329	NMS03	75.1
Douglas	3/18/2020 18:17	3/18/2020 18:17	21R	D	UNKN	N103AV		
Yates	3/18/2020 21:25	3/18/2020 21:29	21L	D	GLF4	XGN290	NMS03	80.8
Archer	3/19/2020 13:08							
Yates	3/19/2020 17:51	3/19/2020 17:48	21R	T	UNKN	N160EU	NMS03	76.5
Yates	3/20/2020 0:48	3/20/2020 0:59	03R	D	AC50	CTL67		
Koeth	3/21/2020 14:22	3/21/2020 14:21	UNK	A	GLF4	JTL268		
Fox	3/22/2020 6:10	3/22/2020 5:57	21L	A	LJ75	N16PC		
Anon-1	3/25/2020 15:00	3/25/2020 15:02	UNK	A	GLF4	N444QC		
Prines-Valley	3/26/2020 14:45	3/26/2020 14:50	UNK	A	PA32	N4176X	NMS01	80.1
Terry	3/27/2020 14:41	3/27/2020 14:24	21R	D	UNKN	N322CA		
Philips	3/28/2020 8:32	3/28/2020 8:25	21R	D	BE33	N3827Q	NMS03	74.2
Purushothaman	3/28/2020 9:28							
Terry	3/28/2020 11:14	3/28/2020 11:19	21L	D	BE36	N2317V	NMS03	72.5
Fox	3/31/2020 6:17	3/31/2020 6:10	21L	D	UNKN	N553LB	NMS03	77.9
Hunnicut	3/31/2020 6:20	3/31/2020 6:10	21L	D	UNKN	N553LB	NMS04	78.1

Disturbance Location Pin Map – March 2020



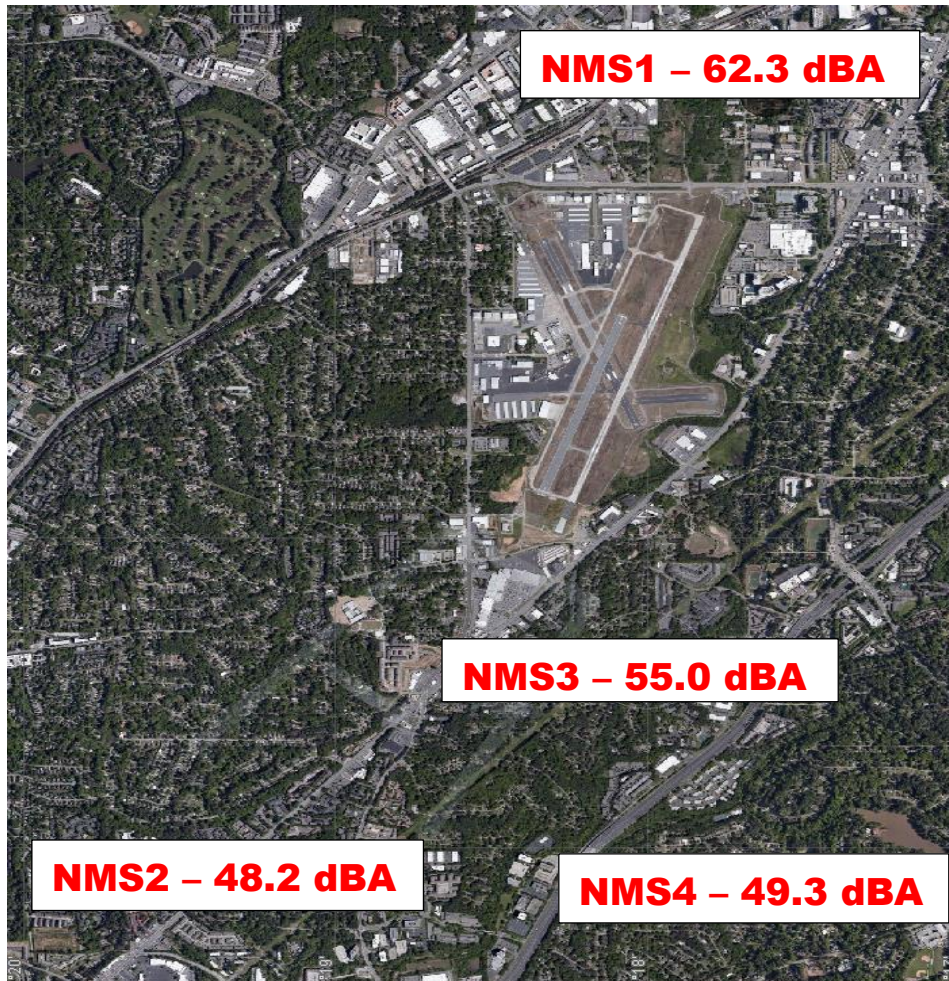
- ★ 1-5 Complaints
- ★ 6-10 Complaints
- ★ 11+ Complaints

Complainants with Complaints Total

(2 Complainant(s) outside of DeKalb County)

Monthly Noise Levels at Monitors

March 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 **273 (99.26%)** of the **275** operations during the voluntary curfew period (11PM-6AM) during the month of **March 2020**. Of the **273** identified operations, **174 (63.7%)** 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, **57 one-time** operations were conducted during this period.
- Out of the *identified* operations, **216 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:

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

36 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:

184 complaints were received during **March 2020**.

68 (37%) 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 – 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**)

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

20 Aircraft with 2 Operations (N179SF, N600CH, N541S, **N900PS**, N133PE, N859PL, **LBQ865**, N60612, 553LB, 617BZ, N102SW, **N119AE**, N767XT, **LBQ875**, N365GA, N305PL, N288SF, N905FJ)

4 Aircraft with 3 Operations (JTL480, **N423AE**, N131EA, N81P)

1 Aircraft with 12 Operations (**SKQ44**)

3 Aircraft with 4 Operations (**EMD28**, **CTE615**, N2AQ)

1 Aircraft with 17 Operations (**SKQ43**)

2 Aircraft with 5 Operations (**N525LX**, **N895CR**)

1 Aircraft with 40 Operations (**CTL67**)

1 Aircraft with 8 Operations (N103AV)

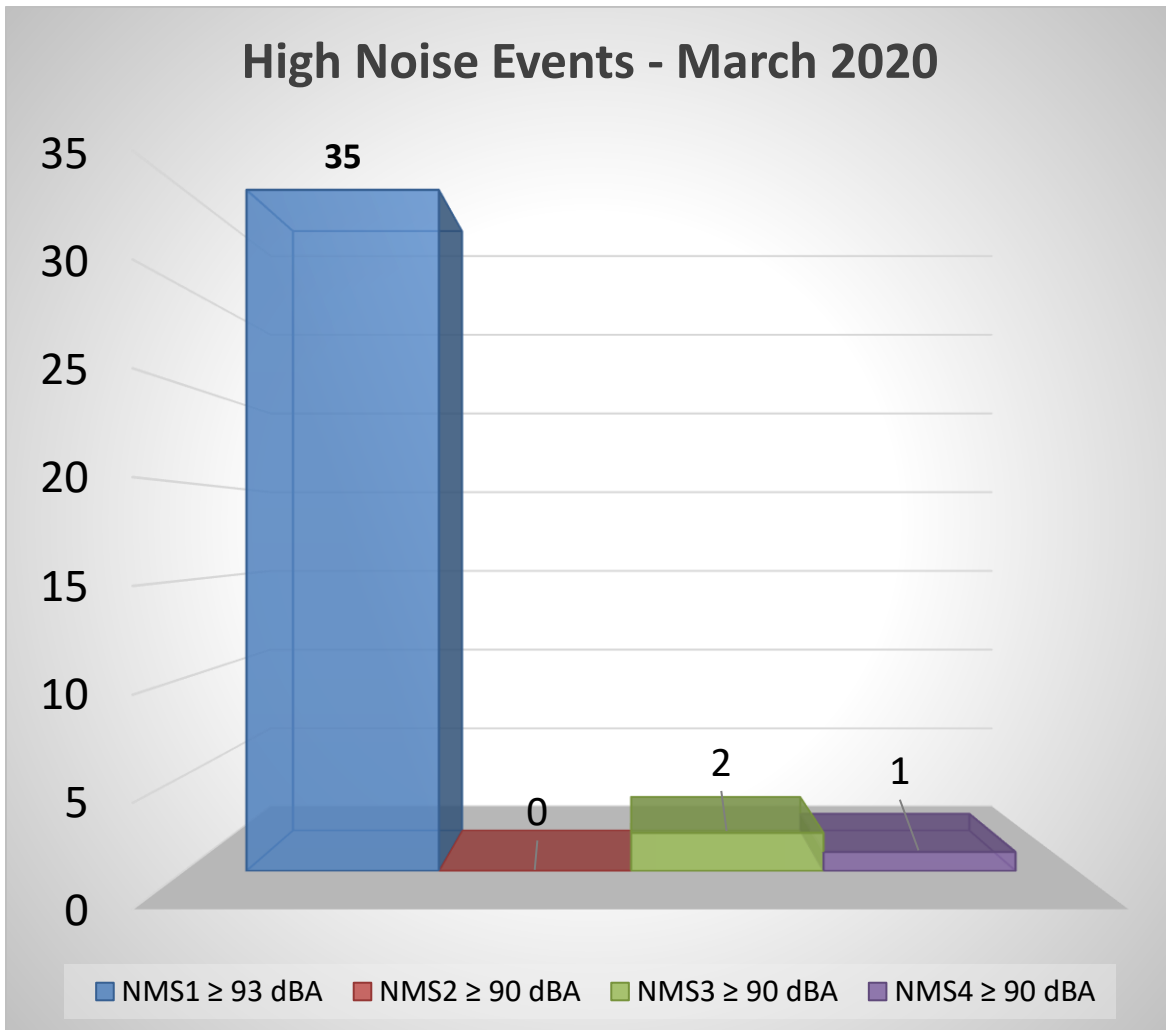
1 Aircraft with 10 Operations (**N445CH**)

1 Aircraft with 53 Operations (**N208LS**)

A total of **99** advisory letters were sent to aircraft operators flying during the voluntary curfew period in the month of **March** 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 **42** advisory letters were sent out this month for aircraft identified as Exceeding PDK's high noise event threshold.



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

February 2020

37 Aircraft with 1 High Noise Event (N905FJ, N588CC, N434BZ, FNX1176, EJA653, GTH505, DCM1210, JTL118, N500GF, JTL73, EJA319, LXJ378, N8834M, N1097Z, UJC522, N116RW, N365EG, N129CJ, N450EF, N150TC, N568K, N183MS, N609MH, N228PG, N735XL, N741MM, N800EM, N262CW, N831VP, N26NJ, N900QC, N270PC, TMC450, N27GA, UJC523, CTL67, N351GC)

2 Aircraft with 2 High Noise Events (NJ725WF, N791CP)

1 Aircraft with 3 High Noise Events (N30WR)

1 Aircraft with 4 High Noise Events (CTL67)

1 Aircraft unknown

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.