



Monthly Noise & Operations Report May 2020

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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.

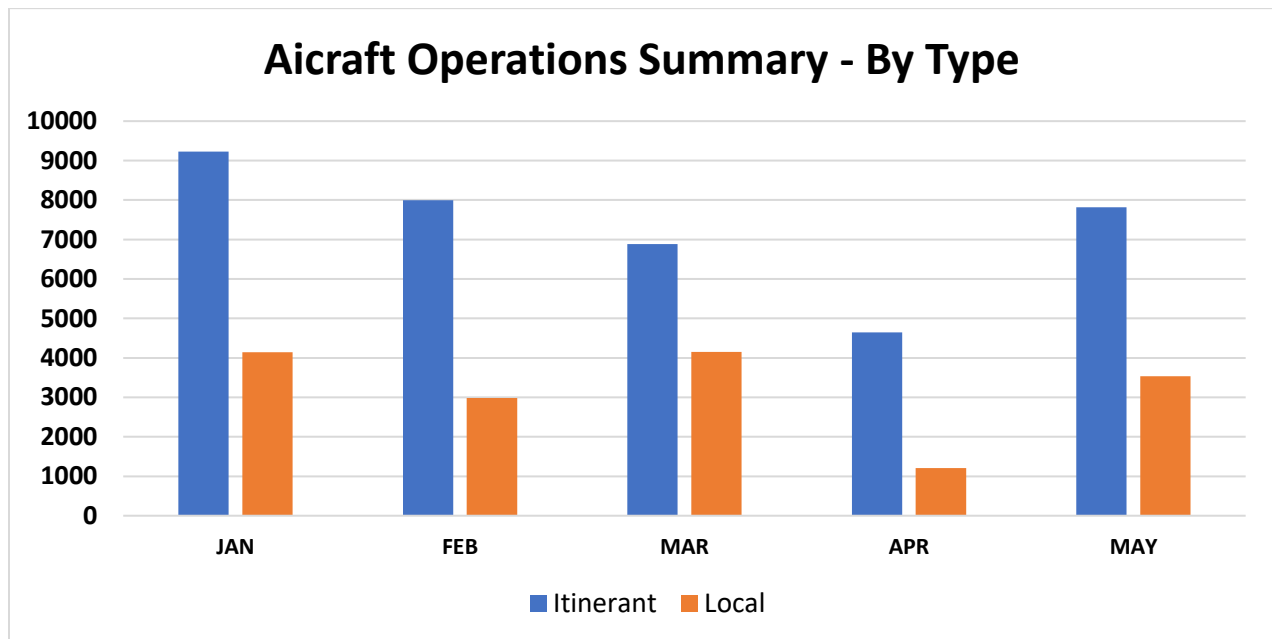
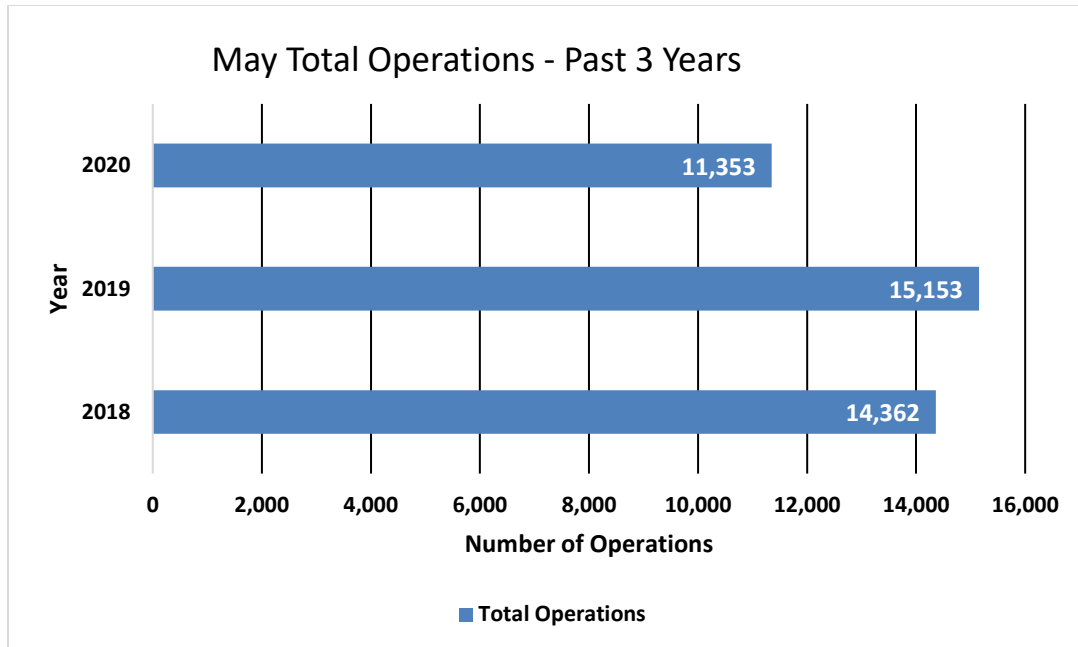
May 2020 Aircraft Operations:

	This Month	This Month, Last Year (May 2019)	% Change from May 2019	5-Year Average for Month
Total Operations	11,353	15,153	-25.08%	13,675
Itinerant	7,819	10,904	-28.29%	9,846
Local	3,534	4,249	-16.83%	3,829
Voluntary Curfew Ops	259	358	-27.65%	341
Prior Authorization	61	(1) Noise disturbance calls associated with these flights. (4) 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.

May 2020 Aircraft Operations Summary

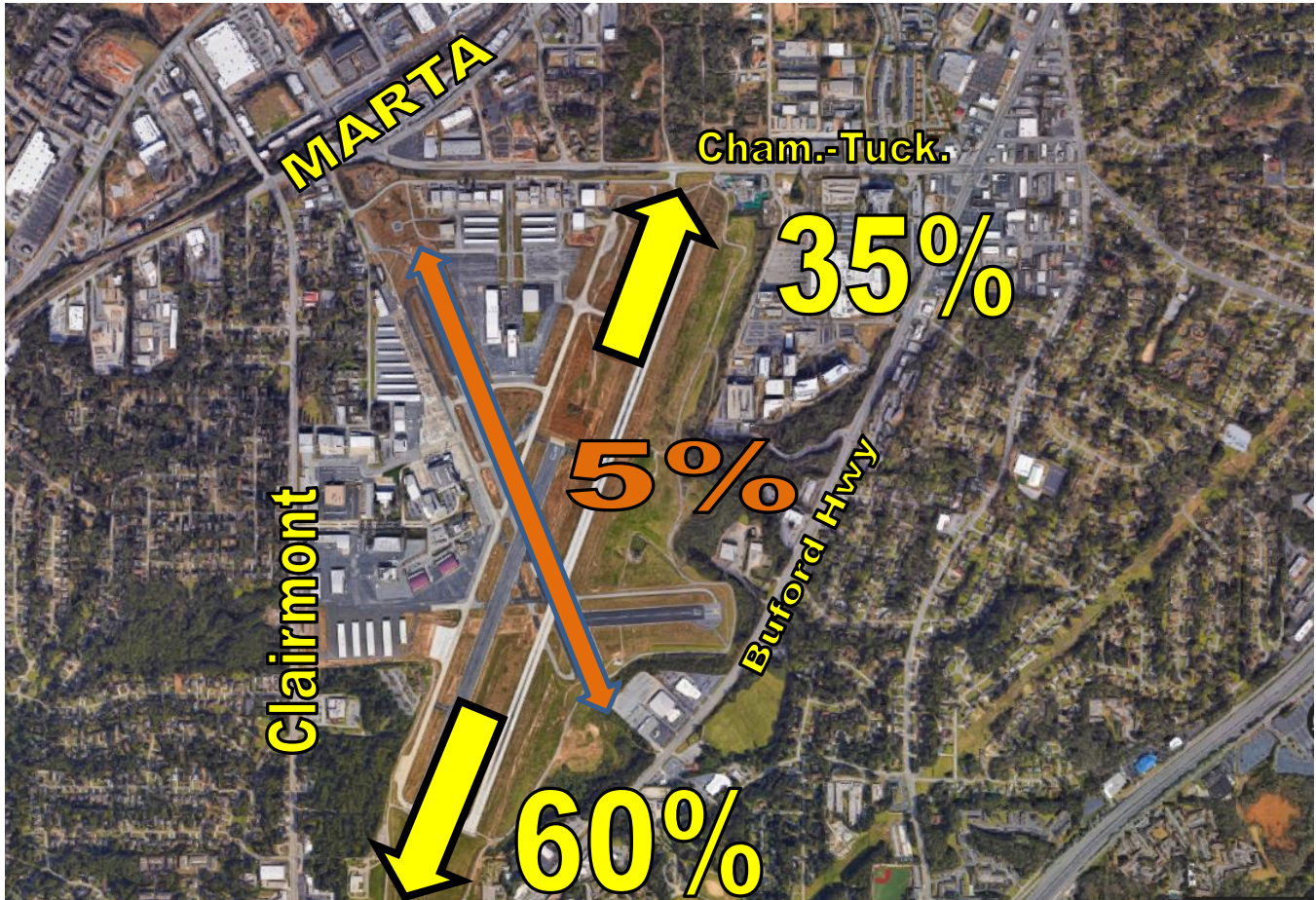


2019 Total Operations	2019 Total Operations as of May 2019	Total 2020 Ops as of May 2020
161,367	63,231	52,604 (-16.81%)

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	7,891	3,534	11,353	259
JUN				
JUL				
AUG				
SEP				
OCT				
NOV				
DEC				

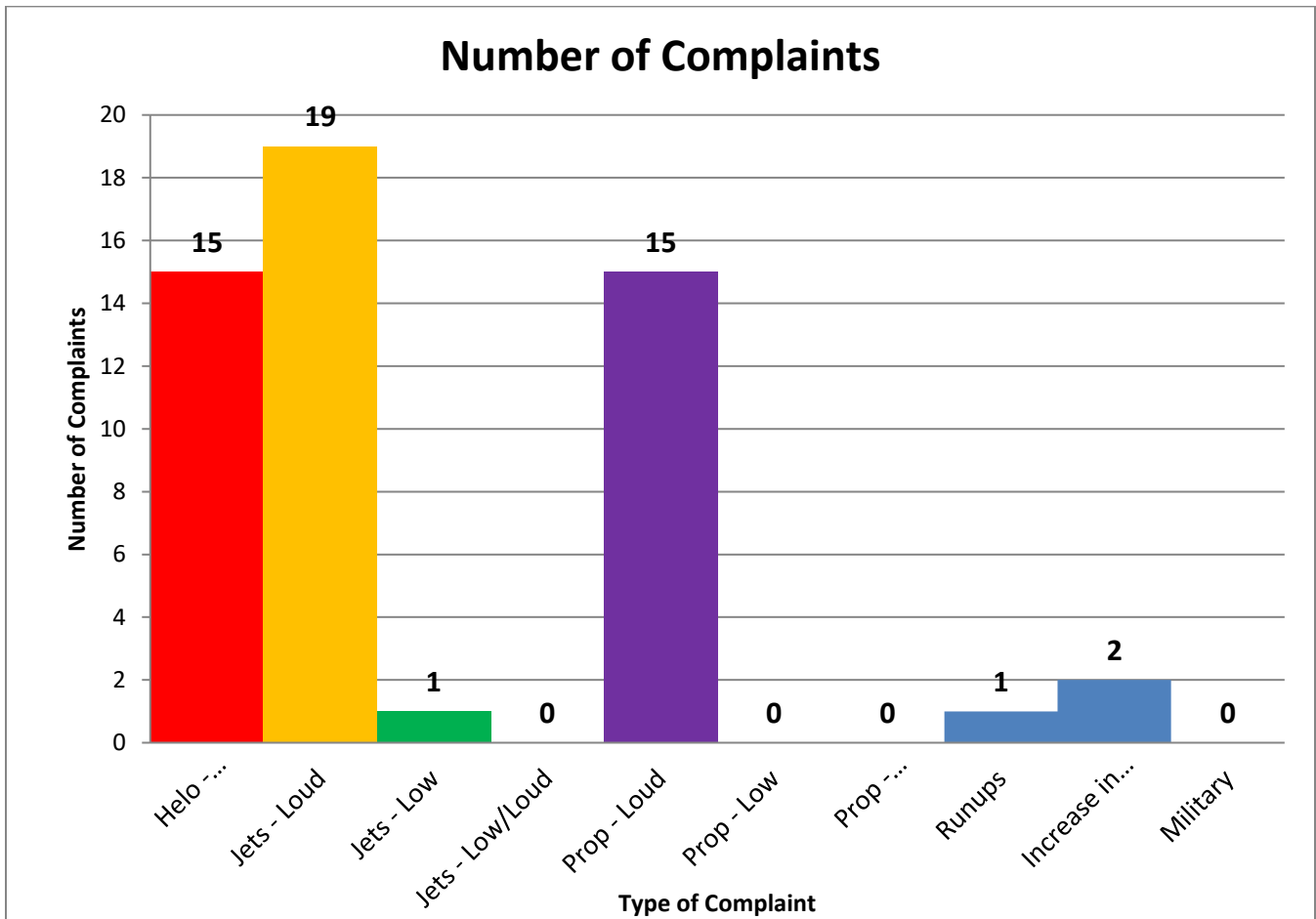
Runway Mode of Operations – May 2020

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.

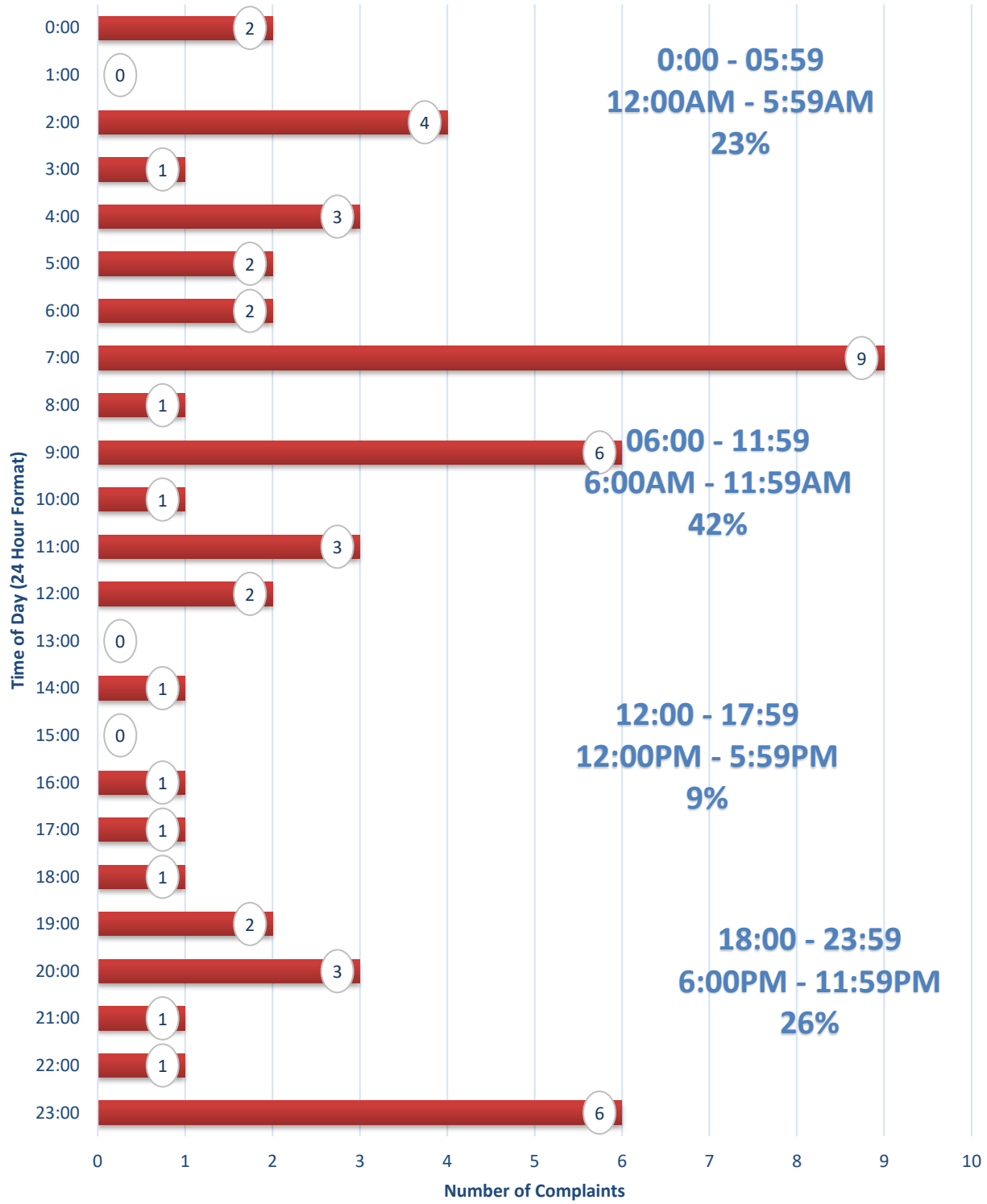


Noise Disturbance Summary

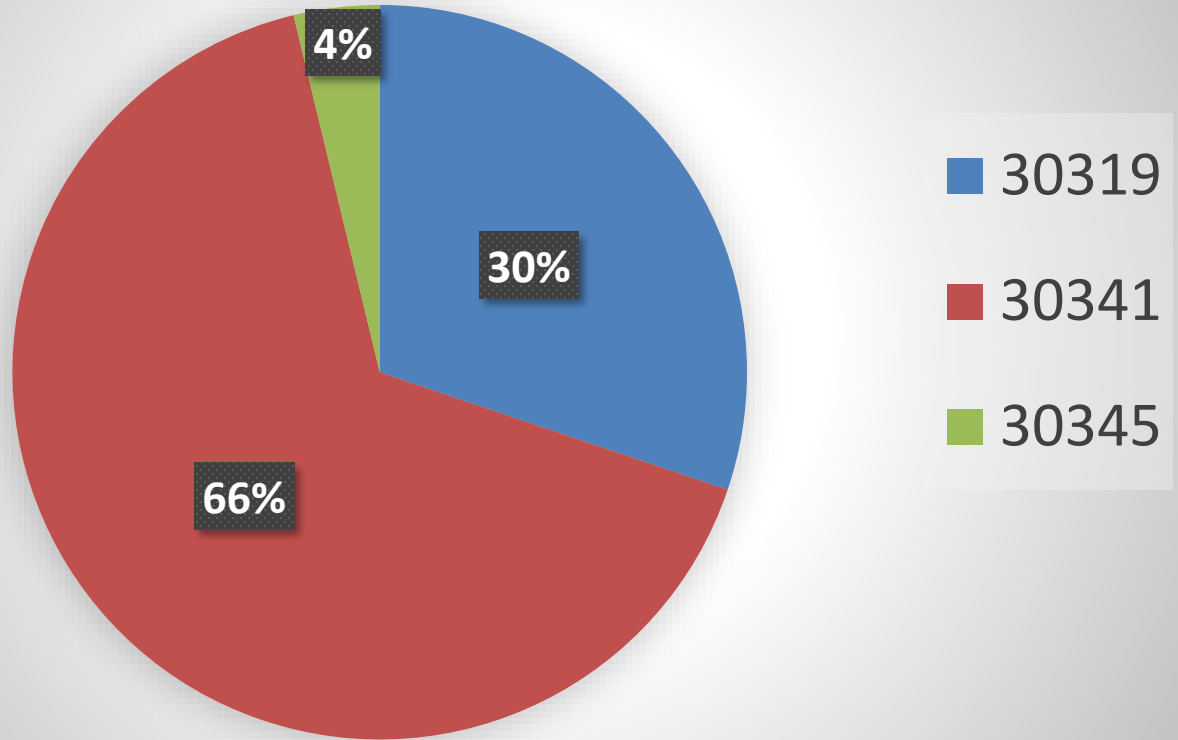
Total complaints for May 2020	Monthly Complaint Average 2020	May 2020 Complaints per Household <i>(minus top two/Households)</i>	May 2020 Complaints per Household <i>All Inclusive</i>
53	105	1.6	5.8



Number of Complaints by Hour



Comaplaints By Zip Code

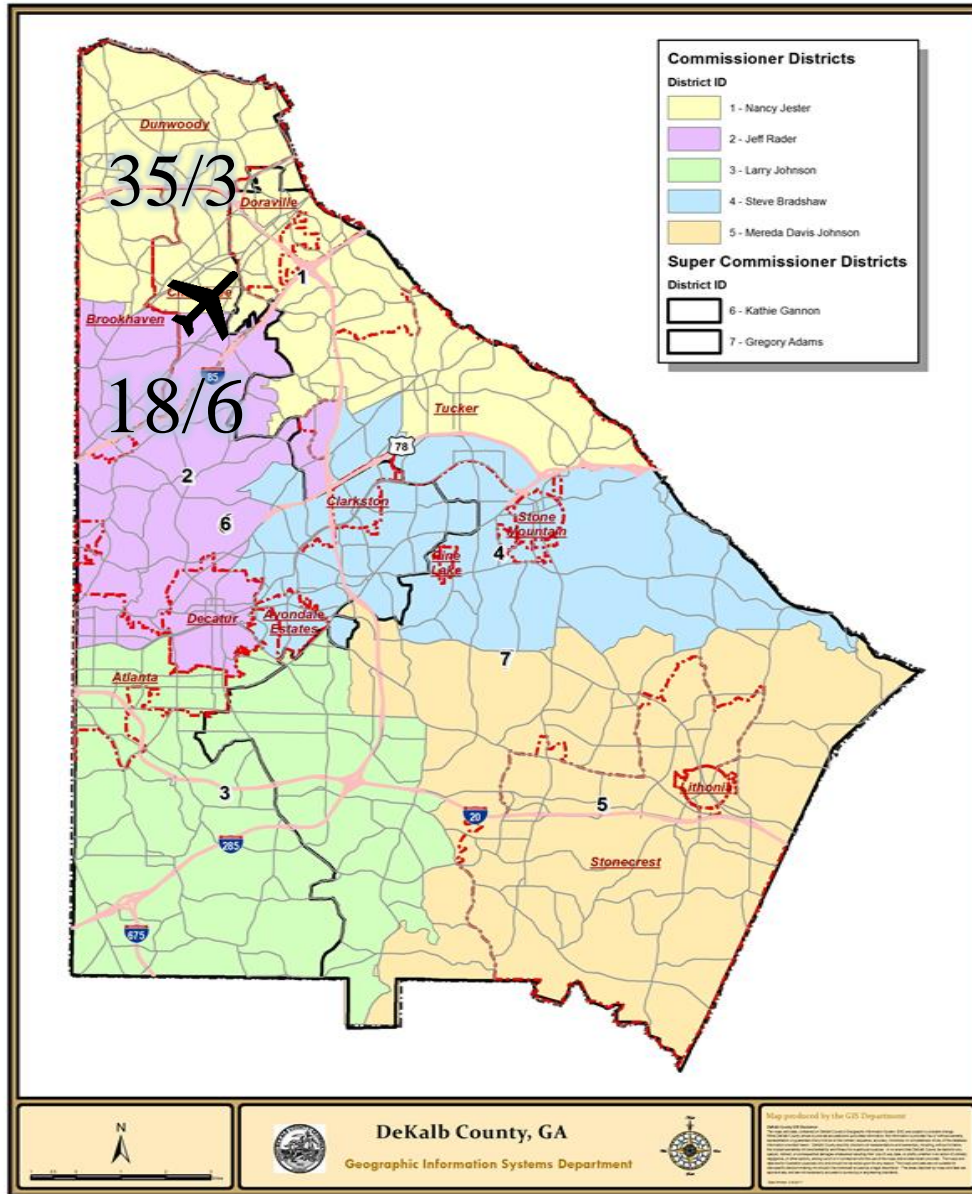


Zip Code Guide		
Zip Code	Community	% of Complaints
30319	Brookhaven	30%
30341	Chamblee - North	66%
30345	Chamblee - South	4%

Complaints by Caller

Name	Address	City	Zip Code	Complaints
Schneeberg	2707 Ashford Rd, NE	Atlanta	30319	4
Masone	2352 Burch Cir NE	Atlanta	30319	2
Anon -1	Dresden Dr	Atlanta	30341	33
Yates	1889 9th Street	Chamblee	30341	1
Davidian	1806 Duke Road	Chamblee	30341	1
Terry	2652 Cove Circle NE	Atlanta	30319	9
Anon - 2	Warwick Cir NE	Chamblee	30345	1
Anon - 3	Groveglan Ct	Atlanta	30345	1
Moss	2360 Drew Valley Road NE	Brookhaven	30319	1

Complaints per Commission District



35/3

18/6

Total Number of Complaints

Total Number of Complainants




53/

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 **49 (92%)** out of **53** complaints:

- **47 or 88.8%** of the noise complaints were found to be **Direct** correlations
- **2 or 3.7 %** were **Indirect** correlations to operations
- **4 or 7.5%** 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.

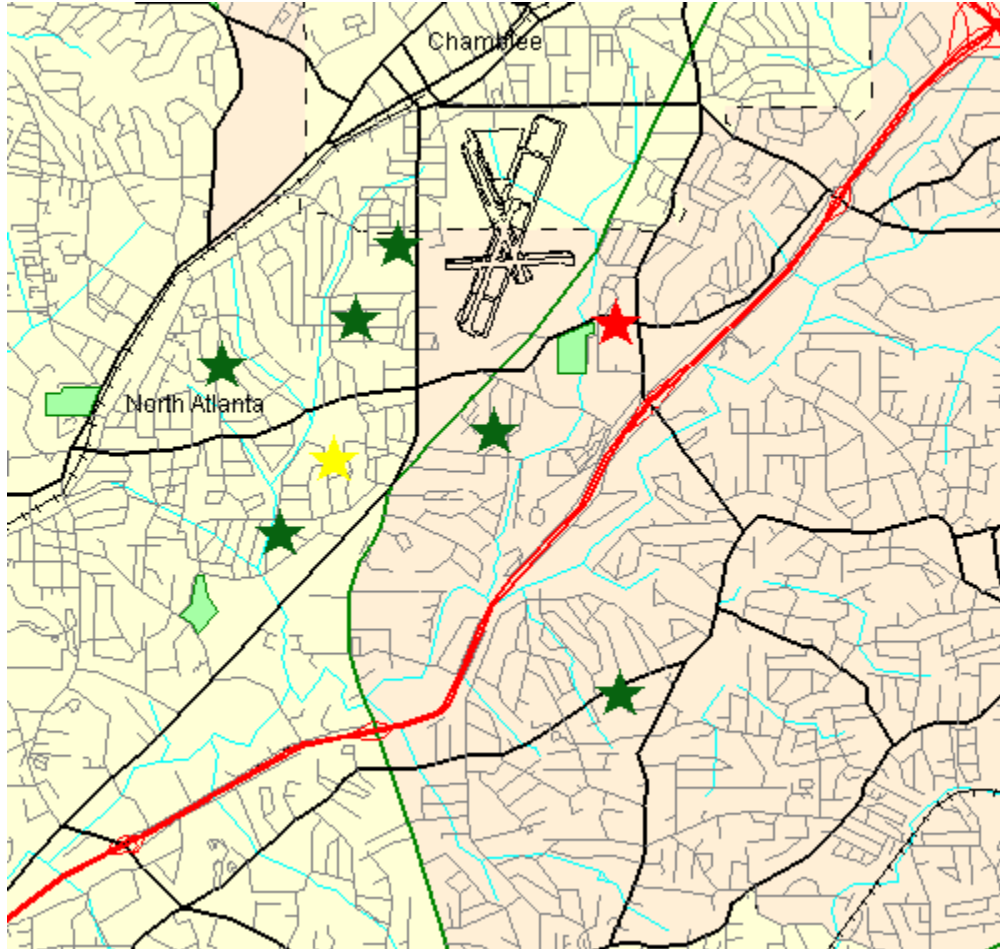
PDK maintains a **hotline** that permits residents to report noise concerns by dialing: **(770) 936-5442** or e-mailing: pdnoise@dekalbcountyga.gov

Name	Offense Time	Flight Time	RWY	Ops	Aircraft Type	Aircraft ID	NMS	Lmax
Anon-1	5/1/2020 2:24	5/1/2020 2:32	03R	A	C208	N208LS	NMS03	71.7
Anon-1	5/1/2020 5:39	5/1/2020 5:29	03R	D	C525	N525LX	NMS03	70.5
Terry	5/2/2020 9:48	5/2/2020 9:33	21R	D	C172	N61942		
Terry	5/2/2020 9:53	5/2/2020 9:41	21R	D	UNKN	N2974T		
Yates	5/2/2020 21:13	5/2/2020 21:05	21R	D	UNKN	N349SB	NMS03	75.1
Anon-1	5/3/2020 12:22	5/3/2020 12:37	UNK	A	UNKN	N543BZ		
Anon-1	5/4/2020 2:46	5/4/2020 2:50	21L	A	C560	N154JK	NMS03	69.2
Terry	5/5/2020 7:11	5/5/2020 6:57	21R	D	UNKN	N236D		
Terry	5/5/2020 7:15	5/5/2020 6:58	21L	D	H25B	N499PA	NMS03	71.9
Terry	5/5/2020 7:18	5/5/2020 6:58	21L	D	H25B	N499PA	NMS03	71.9
Terry	5/5/2020 7:24	5/5/2020 7:28	21R	D	PC12	N22NG		
Terry	5/5/2020 7:28	5/5/2020 7:28	21R	D	PC12	N22NG		
Terry	5/5/2020 7:34	5/5/2020 7:04	21R	D	UNKN	N322CA		
Terry	5/5/2020 7:40	5/5/2020 7:11	21R	D	P28A	N534A		
Anon-1	5/6/2020 7:12	5/6/2020 7:05	03R	D	G280	N86CW		
Schneeberg	5/6/2020 16:46	5/6/2020 16:40	UNK	A	UNKN	N165AE	NMS02	75.2
Anon-1	5/7/2020 10:39	5/7/2020 10:42	34	A	UNKN	N427TJ		
Anon-1	5/7/2020 22:39	5/7/2020 22:42	21L	A	GLF4	N102BQ	NMS03	78.1
Anon-1	5/7/2020 23:16	5/7/2020 22:49	03R	D	CL35	LXJ588		
Davidian	5/8/2020 0:53	5/8/2020 0:52	03R	D	LJ31	N211RN		
Anon-1	5/9/2020 2:55	5/9/2020 2:52	03R	D	UNKN	CTL67		
Anon-1	5/9/2020 2:58	5/9/2020 2:41	03R	D	C208	N208LS	NMS03	78.9
Anon-1	5/10/2020 0:55							
Anon-1	5/10/2020 7:41	5/10/2020 7:34	03L	D	UNKN	N676A		
Anon-1	5/10/2020 14:37	5/10/2020 14:32	21L	D	GLF4	N444QC		
Anon-1	5/11/2020 9:36	5/11/2020 9:35	34	A	BE58	N80XX		
Anon-1	5/11/2020 9:55	5/11/2020 9:50	03R	D	UNKN	N335R		
Anon-1	5/14/2020 6:06	5/14/2020 6:04	16	D	UNKN	N2AQ		
Anon-1	5/14/2020 9:14	5/14/2020 9:14	21L	D	GLF5	N103AK	NMS03	71.4

Anon-1	5/14/2020 23:23	5/14/2020 23:19	03R	A	P32R	N349SB		
Anon-1	5/15/2020 4:11	5/15/2020 4:04	21L	D	C208	N208LS	NMS03	69.8
Anon-2	5/16/2020 20:30	5/16/2020 20:29	21L	D	GLF4	N685MF	NMS03	85.9
Masone	5/19/2020 9:55	5/19/2020 9:41	21R	D	S22T	N918DT	NMS02	79
Anon-1	5/21/2020 3:08	5/21/2020 3:07	16	D	C208	N208LS		
Anon-1	5/22/2020 6:06	5/22/2020 6:04	34	D	UNKN	N2AQ		
Anon-1	5/23/2020 4:33	5/23/2020 4:25	21L	D	C525	N525JW	NMS03	77.1
Anon-1	5/23/2020 11:29	5/23/2020 11:04	16	D	UNKN	N7109C		
Anon-1	5/23/2020 11:43	5/23/2020 11:45	21L	A	E55P	EJA434		
Anon-1	5/23/2020 11:51	5/23/2020 11:55	21L	A	UNKN	N7664F		
Anon-3	5/23/2020 12:57	5/23/2020 12:50	21L	D	C560	N905LC		
Schneeberg	5/23/2020 19:41	5/23/2020 19:38	21R	D	UNKN	N206TJ	NMS02	71.1
Schneeberg	5/23/2020 20:10	5/23/2020 20:08	21R	T	UNKN	N206TJ		
Schneeberg	5/26/2020 17:52	5/26/2020 17:40	21L	D	UNKN	N428JD		
Anon-1	5/26/2020 23:28							
Anon-1	5/26/2020 23:38							
Moss	5/27/2020 4:41							
Anon-1	5/28/2020 23:04	5/28/2020 23:01	UNK	O	UNKN	N887AE		
Masone	5/29/2020 8:00	5/29/2020 7:55	21R	D	UNKN	N744A		
Anon-1	5/30/2020 5:07	5/30/2020 4:49	21L	D	E55P	N300GV		
Anon-1	5/30/2020 18:46	5/30/2020 18:50	03L	A	SR20	N871CD		
Anon-1	5/30/2020 19:46	5/30/2020 19:53	03R	A	C56X	N83GB		
Anon-1	5/30/2020 20:38	5/30/2020 20:17	UNK	O	UNKN	N1006V		

Anon-1	5/30/2020 23:11	5/30/2020 23:27	03R	D	C421	N41019		
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Disturbance Location Pin Map – May 2020



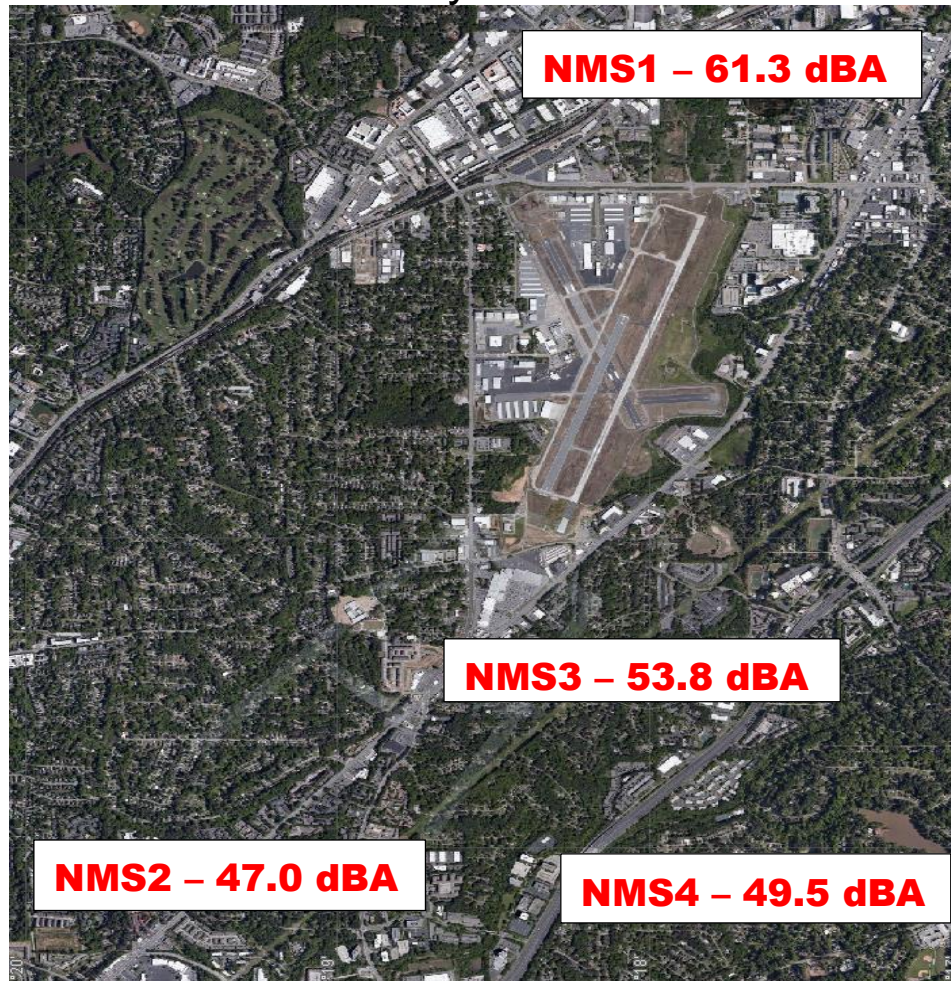
- ★ 1-5 Complaints
- ★ 6-10 Complaints
- ★ 11+ Complaints

Complainants with Complaints Total

(0 Complainant(s) outside of DeKalb County)

Monthly Noise Levels at Monitors

May 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 **259 (100%)** of the **259** operations during the voluntary curfew period (11PM-6AM) during the month of **May 2020**. Of the **259** identified operations, **171 (66%)** 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, **39 one-time** operations were conducted during this period.
- Out of the *identified* operations, **220 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:

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

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

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

Complaints received from operations conducted during the voluntary curfew period:

53 complaints were received during **May 2020**.

18 (34%) 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 – May 2020 N#'s (Multi-Use):

27 Aircraft with 2 Operations (FTD509, **N694PD, N179SF, EMD28**, N13MS, N211RN, N558MT, **N262TX**, N683GA, **N296AE, N189PP**, N300GV, N500FZ, **N309CJ, N539RM**, N120HF, N5QV, N84400, N181CC, **N355AE, N684AE, N887AE**, N704RB, **CTE615**, N428JD, N349SB, VET430)

5 Aircraft with 3 Operations (**N445CH**, N322CA, N7664F, N154JK, N61942)

4 Aircraft with 4 Operations (CTE491, N103AV, **N649AE, CTE816**)

2 Aircraft with 5 Operations (PHJ56, **N525JW**)

1 Aircraft with 6 Operations (**SKQ44**)

1 Aircraft with 8 Operations (**SKQ43**)

1 Aircraft with 10 Operations (**N525LX**)

1 Aircraft with 15 Operations (**N414CY**)

1 Aircraft with 41 Operations (**CTL67**)

1 Aircraft with 45 Operations (**N208LS**)

Last Month – March 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)

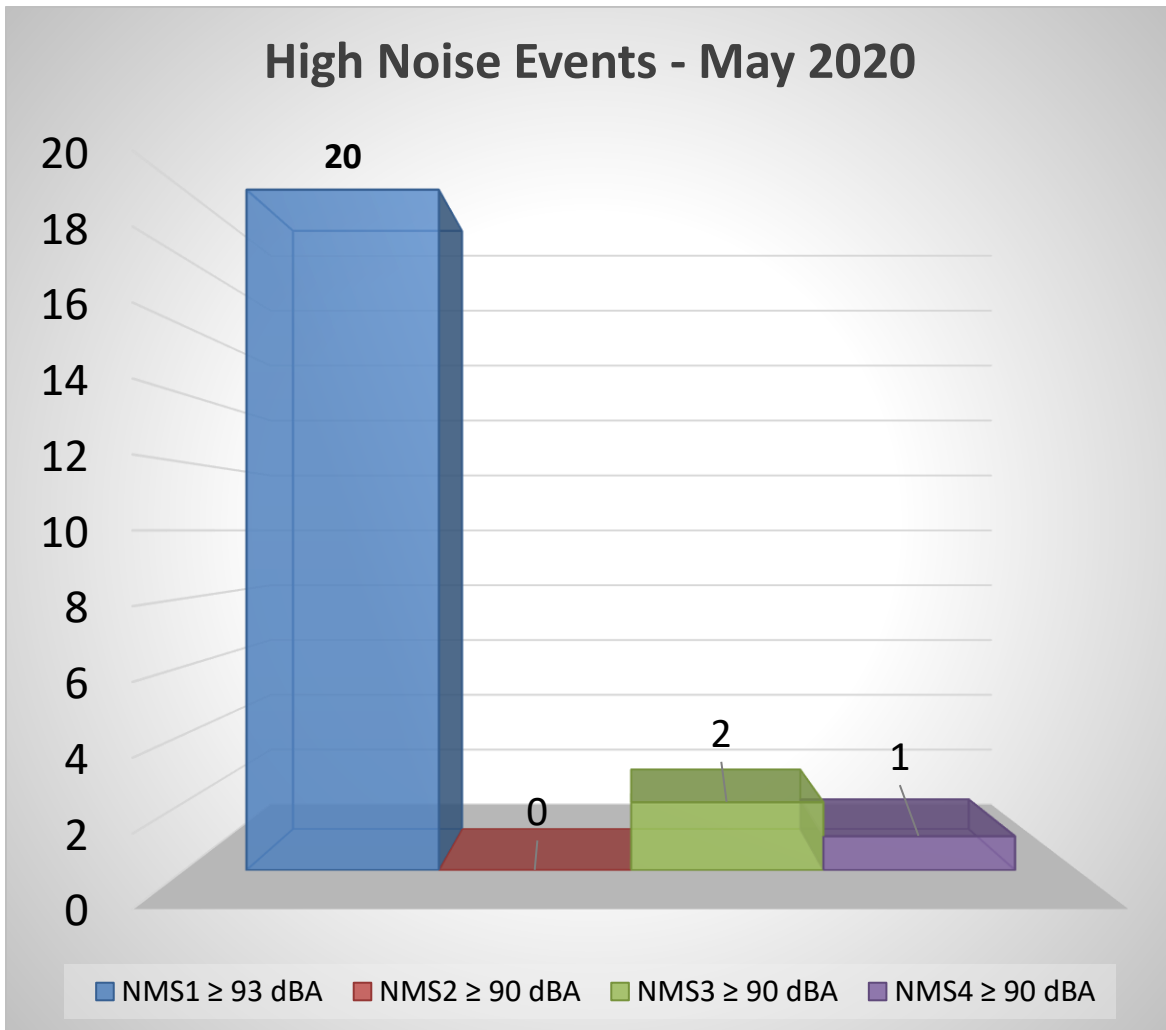
1 Aircraft with 37 Operations (CTL67)

1 Aircraft with 55 Operations (N208LS)

A total of **88** advisory letters were sent to aircraft operators flying during the voluntary curfew period in the month of **May** 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 **23** advisory letters were sent out this month for aircraft identified as Exceeding PDK's high noise event threshold.



May 2020

18 Aircraft with 1 High Noise Event (N977LC, N727KB, N581RS, JTL58, N900QC, N330WR, N103AV, N434BZ, N671GG, N472GJ, N791CP, N495AU, N9644M, N499PA, XAICU, XAMMI, N541S, N518SB)

1 Aircraft with 2 High Noise Events (DCM3541)

1 Aircraft with 3 High Noise Events (N611RW)

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)

Comments/Concerns?

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