



Monthly Noise & Operations Report August 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 August occur during all phases of flight. For instance, while aircraft are on the ground, taxiing, operating auxiliary power units (APUs), and conducting run-ups August 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.

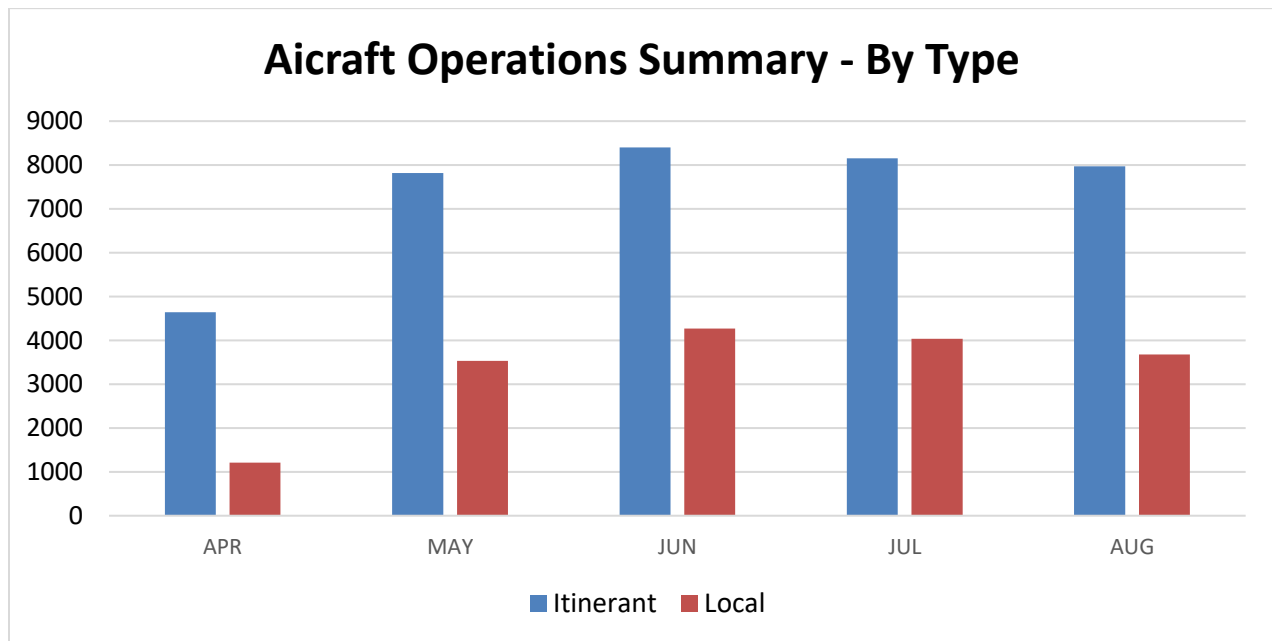
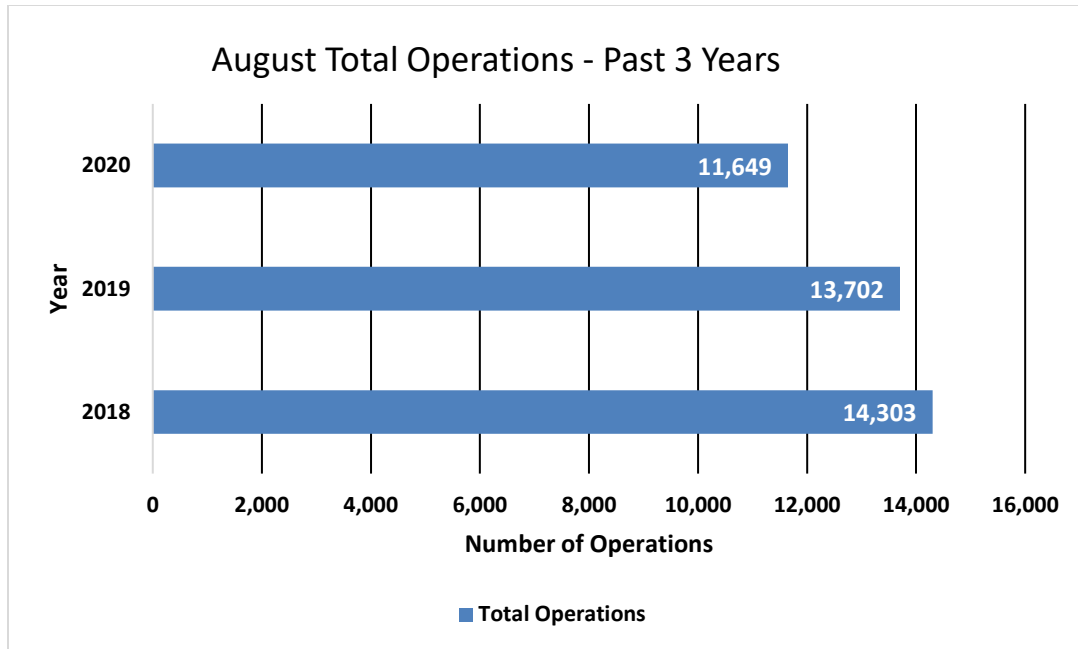
August 2020 Aircraft Operations:

	This Month	This Month, Last Year (August 2019)	% Change from August 2019	5-Year Average for Month
Total Operations	11,649	13,702	-14.98%	13,574
Itinerant	7,971	10,642	-25.10%	9,671
Local	3,678	3,060	20.20%	3,903
Voluntary Curfew Ops	349	324	7.72%	335
Prior Authorization	90	(1) Noise disturbance calls associated with these flights. (3) 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.

August 2020 Aircraft Operations Summary

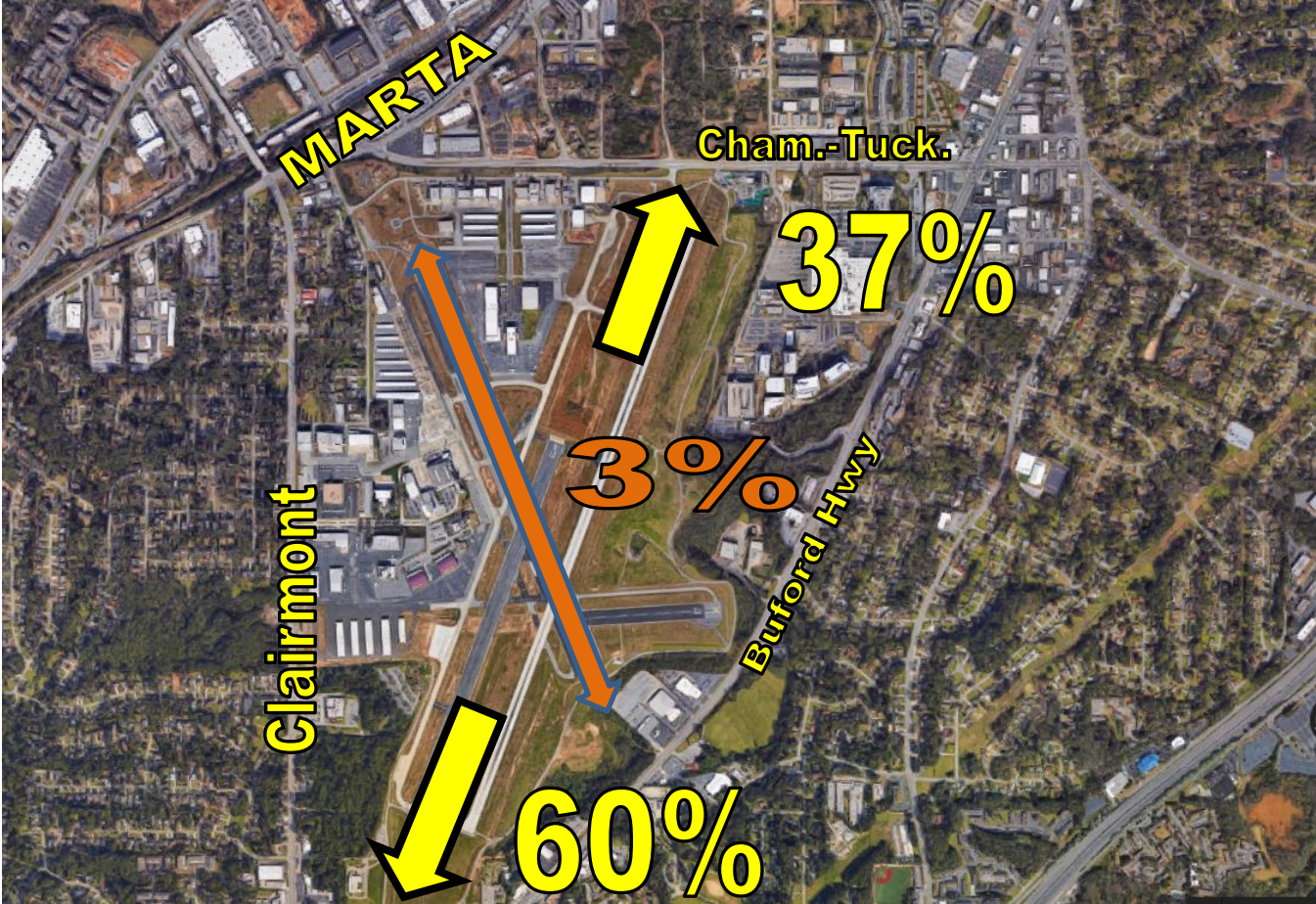


2019 Total Operations	2019 Total Operations as of August 2019	Total 2020 Ops as of August 2020
161,367	105,197	89,110 (-15.29%)

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	8,397	4,269	12,666	355
JUL	8,155	4,036	12,191	355
AUG	7,971	3,678	11,649	349
SEP				
OCT				
NOV				
DEC				

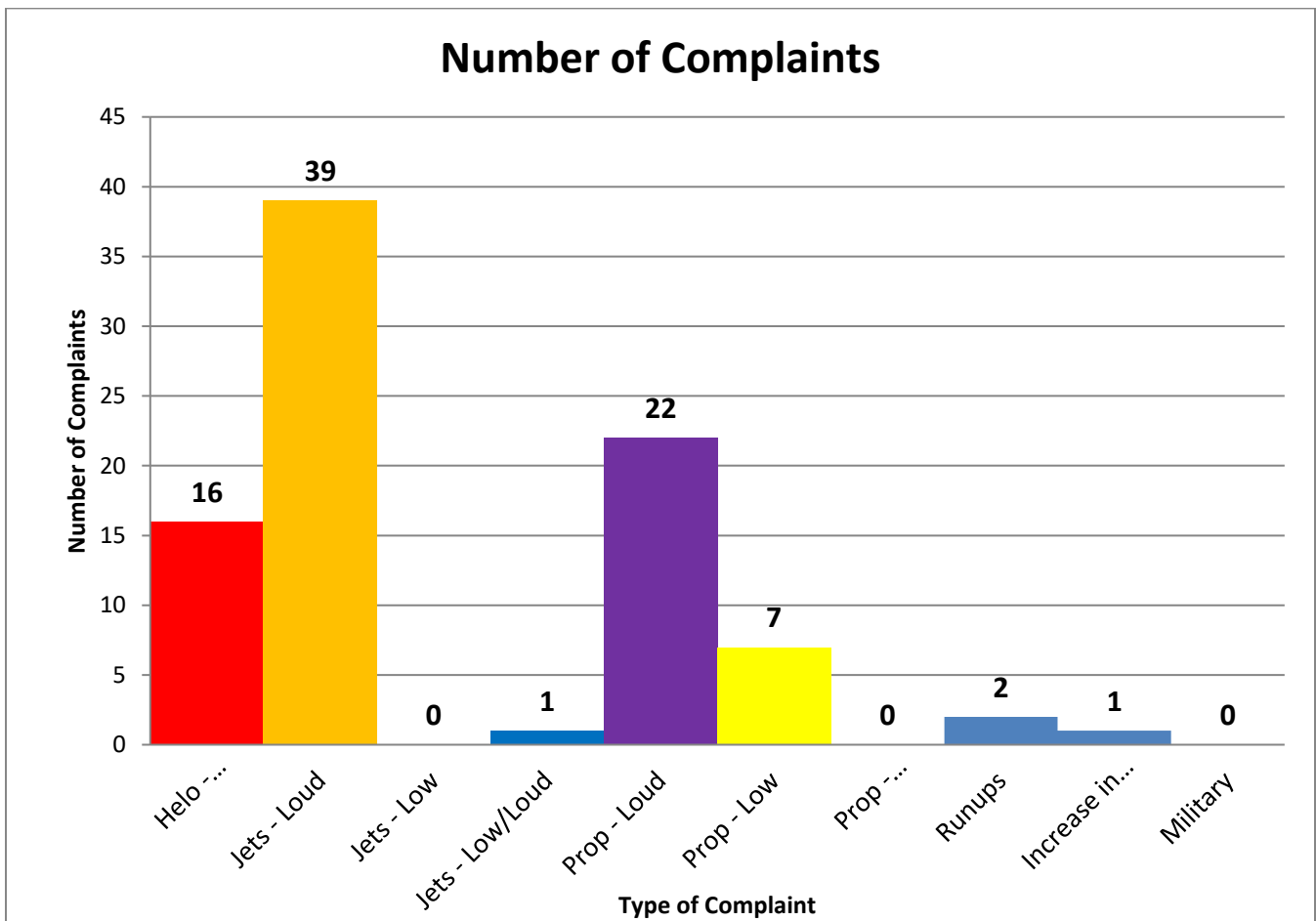
Runway Mode of Operations – August 2020

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.

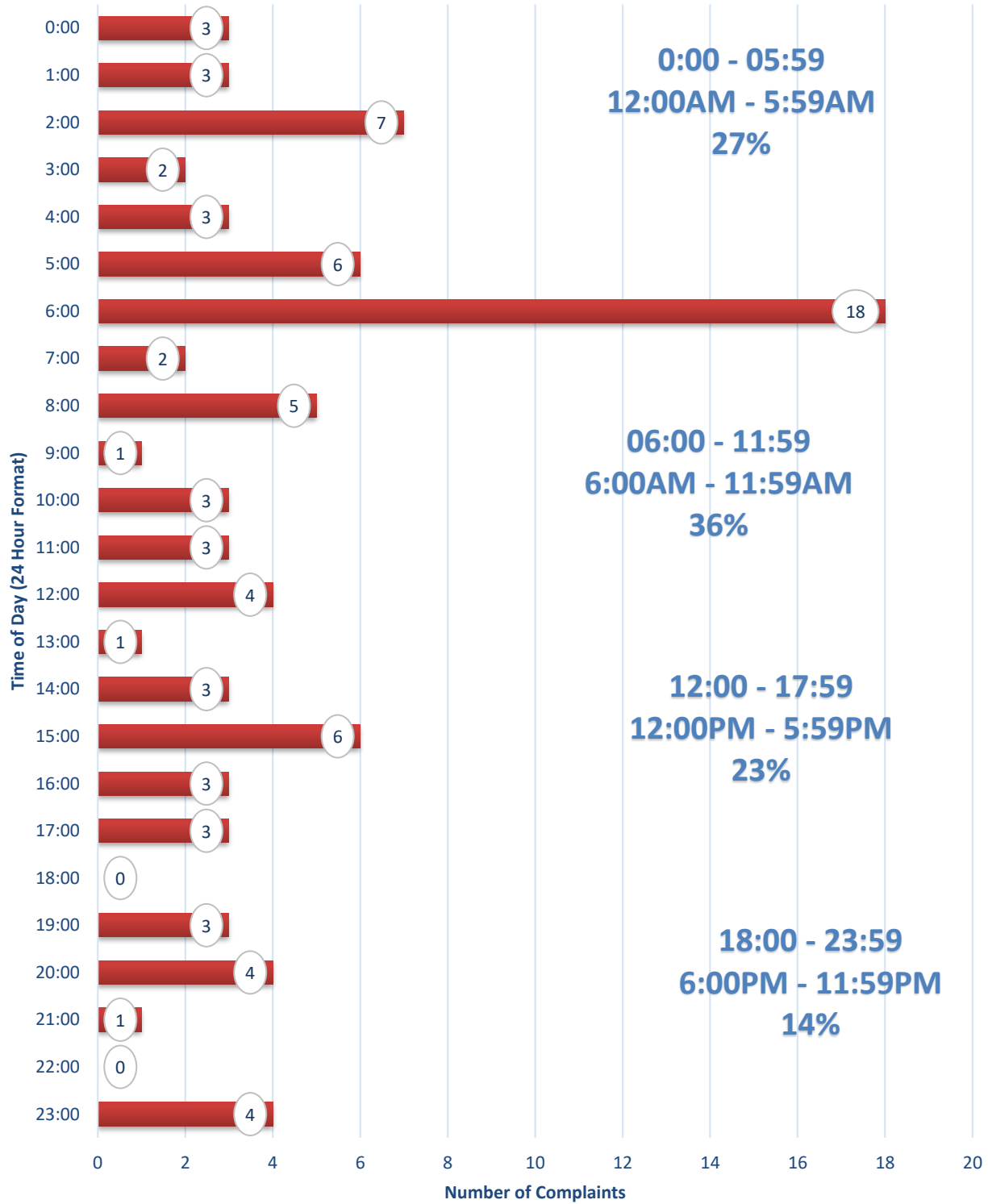


Noise Disturbance Summary

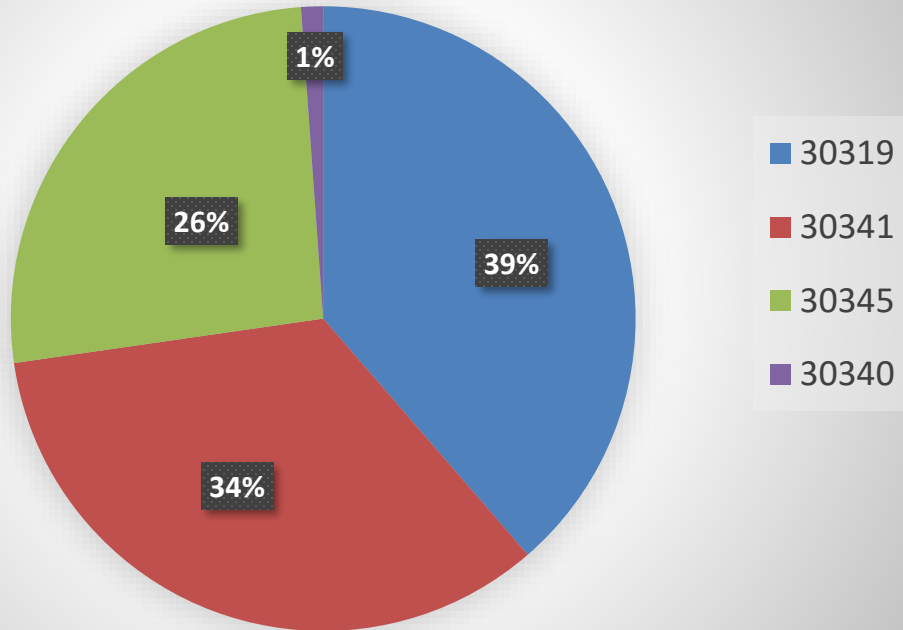
Total complaints for August 2020	Monthly Complaint Average 2020	August 2020 Complaints per Household <i>(minus top two/Households)</i>	August 2020 Complaints per Household <i>All Inclusive</i>
88	102	3.6	7.3



Number of Complaints by Hour



Complaints by Zip Code

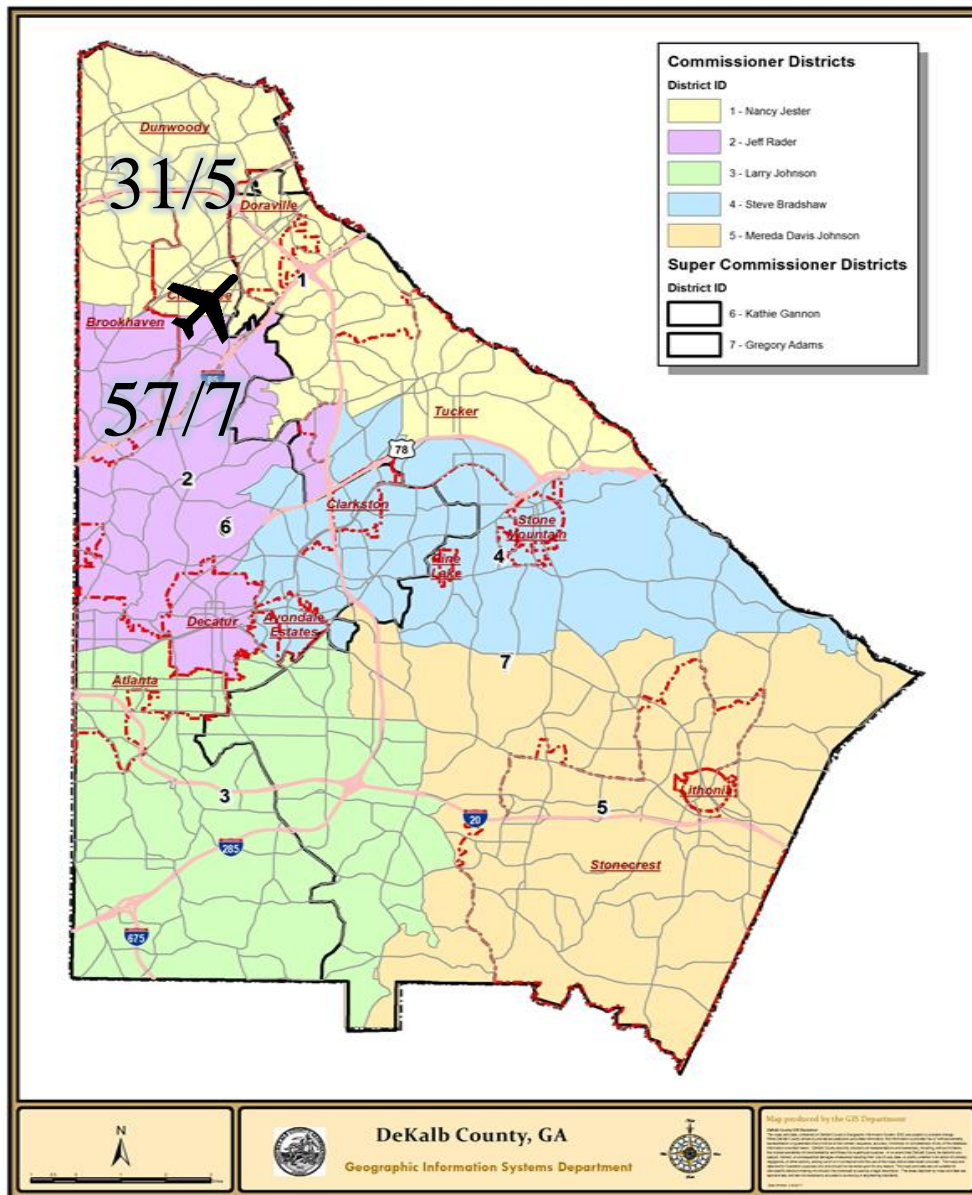


Zip Code Guide		
Zip Code	Community	% of Complaints
30319	Brookhaven	39%
30341	Chamblee - North	34%
30345	Chamblee - South	26%
30340	Doraville	1%

Complaints by Caller

Name	Address	City	Zip Code	Complaints
Schneeberg	2707 Ashford Rd, NE	Atlanta	30319	29
Van Pelt	1752 Morris Landers Dr NE	Atlanta	30345	1
Anon -1	Dresden Dr	Atlanta	30341	23
Adams	2358 Logan Cir NE	Atlanta	30319	1
Yates	1889 9th Street	Chamblee	30341	3
Friedman	1353 Brookhaven Village Cir NE	Atlanta	30319	2
Gardner	Ensign Drive	Chamblee	30341	1
Terry	2652 Cove Circle NE	Atlanta	30319	1
Miller	3416 Alison Dr	Doraville	30340	1
Joyner	2033 Drew Valley Road NE	Atlanta	30319	1
Fox	Woodacres Rd NE	Atlanta	30345	22
Yin	Kaylen Dr	Chamblee	30341	3

Complaints per Commission District



Total Number of Complaints

88 /




Total Number of Complainants

12

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 **85 (96.6%)** out of **88** complaints:

- **82 or 93.2%** of the noise complaints were found to be **Direct** correlations
- **3 or 3.4%** were **Indirect** correlations to operations
- **3 or 3.4%** 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

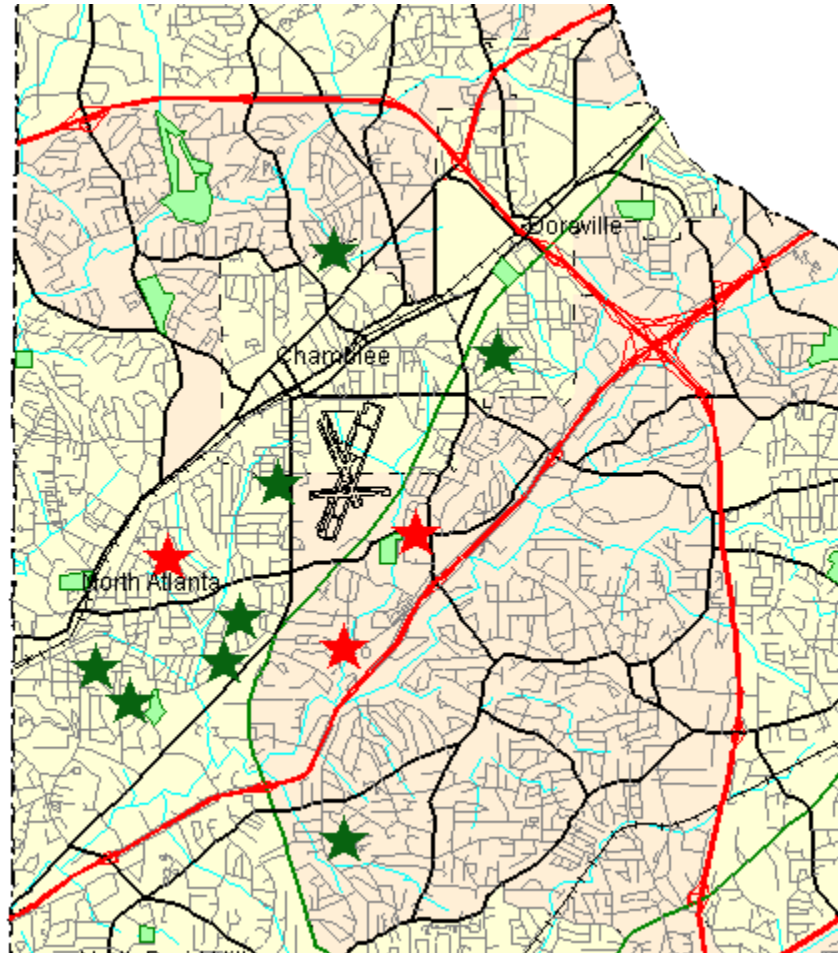
Name	Offense Time	Flight Time	RWY	Ops	Aircraft Type	Aircraft ID	NMS	Lmax
Schneeberg	8/1/2020 8:41	8/1/2020 8:28	21R	D	UNKN	N81771		
Schneeberg	8/1/2020 13:57	8/1/2020 13:55	UNK	D	UNKN	UNKNOWN		
Schneeberg	8/1/2020 15:31	8/1/2020 15:30	UNK	D	UNKN	N608HR		
Schneeberg	8/1/2020 16:01	8/1/2020 15:59	UNK	D	UNKN	N608HR		
Schneeberg	8/1/2020 16:01	8/1/2020 15:59	UNK	D	UNKN	N608HR		
Schneeberg	8/1/2020 20:15	8/1/2020 20:14	UNK	D	UNKN	N608HR		
Joyner	8/2/2020 8:26	8/2/2020 8:29	21R	D	UNKN	N103AV		
Schneeberg	8/2/2020 19:45	8/2/2020 19:40	21R	D	UNKN	VFR		
Fox	8/3/2020 6:10	8/3/2020 6:06	21R	D	S22T	N591GT	NMS03	78.7
Friedman	8/3/2020 7:27	8/3/2020 7:27	21L	D	FA7X	LVT988	NMS02	72.7
Schneeberg	8/3/2020 19:54	8/3/2020 19:56	03L	D	UNKN	N103AV		
Schneeberg	8/4/2020 10:56	8/4/2020 10:55	21R	D	UNKN	N103AV	NMS02	68.3
Schneeberg	8/4/2020 11:02	8/4/2020 11:00	21L	D	UNKN	N504A		
Schneeberg	8/4/2020 11:04	8/4/2020 11:00	21L	D	UNKN	N504A		
Schneeberg	8/4/2020 19:53	8/4/2020 19:29	21R	D	UNKN	N4454R		
Fox	8/5/2020 6:10	8/5/2020 6:05	16	D	UNKN	N2AQ		
Fox	8/5/2020 6:15	8/5/2020 6:05	16	D	UNKN	N2AQ		
Schneeberg	8/5/2020 8:12	8/5/2020 8:10	03R	A	TBM7	N700LT		
Gardner	8/5/2020 12:34	8/5/2020 12:40	03L	D	SR20	N908CB		
Schneeberg	8/5/2020 17:47	8/5/2020 17:45	UNK	D	UNKN	N46CL		
Anon - 1	8/6/2020 0:40	8/6/2020 0:47	03R	D	AC50	CTL67		




Anon - 1	8/6/2020 0:58	8/6/2020 0:47	03R	D	AC50	CTL67		
Anon - 1	8/8/2020 23:55	8/8/2020 23:55	21L	D	GLF4	N685MF	NMS03	77.1
Anon - 1	8/9/2020 0:07	8/9/2020 0:07	UNK	D	UNKN	N423AE		
Anon - 1	8/9/2020 1:19	8/9/2020 1:16	UNK	O	UNKN	N445CH		
Anon - 1	8/9/2020 1:40	8/9/2020 1:40	21L	D	LJ45	JRT51	NMS03	72.9
Anon - 1	8/9/2020 6:02	8/9/2020 6:09	26R	A	B753	UNKNOWN		
Van Pelt	8/9/2020 9:55	8/9/2020 9:52	21L	D	UNKN	N278EH	NMS04	70.1
Anon - 1	8/10/2020 5:50	8/10/2020 5:51	21L	D	BE40	JTL73	NMS03	76.9
Fox	8/10/2020 5:52	8/10/2020 5:51	21L	D	BE40	JTL73	NMS03	76.9
Anon - 1	8/10/2020 6:14	8/10/2020 6:13	21L	D	CL35	LXJ583	NMS03	77.1
Fox	8/10/2020 6:14	8/10/2020 6:13	21L	D	CL35	LXJ583	NMS03	77.1
Friedman	8/11/2020 6:27	8/11/2020 6:26	UNK	D	C56X	N690XL	NMS02	74.9
Anon - 1	8/12/2020 2:42	8/12/2020 2:42	21L	D	AC50	CTL67	NMS03	72.4
Fox	8/12/2020 2:42	8/12/2020 2:42	21L	D	AC50	CTL67	NMS03	72.4
Anon - 1	8/12/2020 2:50	8/12/2020 2:50	21L	A	GLEX	MPECL		
Fox	8/12/2020 5:49	8/12/2020 5:49	21L	D	BE9L	N329GS	NMS03	77.5
Fox	8/12/2020 5:50	8/12/2020 5:51	21L	D	C680	EJA361	NMS03	74.5
Yin	8/12/2020 11:41							
Fox	8/13/2020 5:52	8/13/2020 5:39	21L	D	C68A	EJA548	NMS03	70.2
Schneeberg	8/13/2020 12:29	8/13/2020 12:27	UNK	D	UNKN	N2AQ		
Schneeberg	8/13/2020 15:02	8/13/2020 14:55	03L	A	P28A	N81771		
Schneeberg	8/13/2020 15:04	8/13/2020 15:17	03L	A	UNKN	N256AT		
Terry	8/15/2020 10:58	8/15/2020 10:47	21L	D	BE58	N1566W	NMS03	76.1

Schneeberg	8/15/2020 15:51	8/15/2020 15:53	21L	D	DA42	N430PS		
Schneeberg	8/15/2020 17:54	8/15/2020 17:34	21R	D	UNKN	N103AV		
Schneeberg	8/15/2020 21:48	8/15/2020 21:45	UNK	D	UNKN	N608HR		
Fox	8/16/2020 6:09	8/16/2020 6:23	03L	D	P28A	N140SB		
Schneeberg	8/16/2020 8:45	8/16/2020 8:28	03L	T	UNKN	N6919J		
Schneeberg	8/16/2020 20:13	8/16/2020 20:18	03L	A	UNKN	N629LT	NMS02	66.2
Anon - 1	8/17/2020 2:16	8/17/2020 2:15	03R	D	AC50	CTL101		
Fox	8/17/2020 5:23	8/17/2020 5:27	03R	A	BE9L	N329GS	NMS03	74.7
Fox	8/17/2020 6:06	8/17/2020 6:03	UNK	D	UNKN	N2AQ		
Fox	8/17/2020 6:12	8/17/2020 6:08	21R	D	UNKN	N7784G		
Yin	8/17/2020 10:10							
Anon - 1	8/18/2020 2:57	8/18/2020 3:00	UNK	A	C560	N154JK	NMS03	69.9
Anon - 1	8/18/2020 3:57	8/18/2020 3:52	03R	D	C560	N154JK	NMS03	72.3
Anon - 1	8/18/2020 4:47	8/18/2020 4:54	26L	A	B763	UNKNOWN		
Anon - 1	8/18/2020 6:15	8/18/2020 6:12	UNK	D	UNKN	N76PC		
Adams	8/19/2020 7:30	8/19/2020 7:28	21R	T	UNKN	N9054S	NMS02	73.9
Schneeberg	8/19/2020 8:14	8/19/2020 7:59	21R	T	UNKN	N7664F		
Yates	8/19/2020 17:52	8/19/2020 18:07	21L	A	C56X	DPJ47		
Fox	8/20/2020 4:48	8/20/2020 4:42	21L	D	BE58	FNX1393	NMS03	76.9
Schneeberg	8/20/2020 14:09	8/20/2020 14:08	UNK	T	C560	N500FZ		
Anon - 1	8/20/2020 23:52	8/20/2020 23:50	21L	A	P28A	N103AV		
Anon - 1	8/21/2020 20:22	8/21/2020 20:04	UNK	O	UNKN	UNKNOWN		
Yates	8/22/2020 14:33	8/22/2020 14:37	21L	A	C510	N979PC		

Anon - 1	8/23/2020 4:10	8/23/2020 4:08	16	D	COL3	N1334X		
Schneeberg	8/23/2020 12:58	8/23/2020 12:42	21L	D	E55P	EJA416		
Yin	8/25/2020 1:06							
Fox	8/25/2020 6:38	8/25/2020 6:33	21L	D	J328	UJC130	NMS03	80
Anon - 1	8/25/2020 23:11	8/25/2020 23:03	03R	D	C525	N525LX		
Fox	8/26/2020 3:24	8/26/2020 3:14	21L	D	C208	N414CY	NMS03	71.2
Fox	8/26/2020 6:19	8/26/2020 6:05	21L	D	SR22	N553LB	NMS03	72.4
Anon - 1	8/27/2020 2:44	8/27/2020 2:20	16	D	C208	N414CY		
Anon - 1	8/27/2020 2:45	8/27/2020 2:20	16	D	C208	N414CY		
Fox	8/27/2020 6:05	8/27/2020 6:03	16	D	UNKN	N2AQ		
Fox	8/27/2020 6:11	8/27/2020 6:00	21R	D	UNKN	N704RB		
Schneeberg	8/27/2020 20:04	8/27/2020 19:51	21R	D	UNKN	N314GT	NMS02	67.2
Fox	8/28/2020 6:20	8/28/2020 5:51	21L	D	G280	N82CW	NMS03	72.1
Yates	8/28/2020 14:33	8/28/2020 14:29	21L	A	P28A	N385D		
Schneeberg	8/28/2020 15:56	8/28/2020 15:54	21L	D	UNKN	UNKNOWN		
Schneeberg	8/28/2020 16:00	8/28/2020 15:59	UNK	D	UNKN	UNKNOWN		
Anon - 1	8/28/2020 23:27	8/28/2020 23:32	21L	A	GLF4	DCM4212		
Miller	8/29/2020 15:28	8/29/2020 15:09	UNK	O	UNKN	N91DK		
Schneeberg	8/30/2020 12:59	8/30/2020 12:30	21R	D	UNKN	N435JM		
Fox	8/31/2020 6:10	8/31/2020 6:07	21L	D	S22T	N23SB	NMS03	81.8
Fox	8/31/2020 6:20	8/31/2020 6:07	21L	D	S22T	N23SB	NMS03	81.8

Disturbance Location Pin Map – August 2020



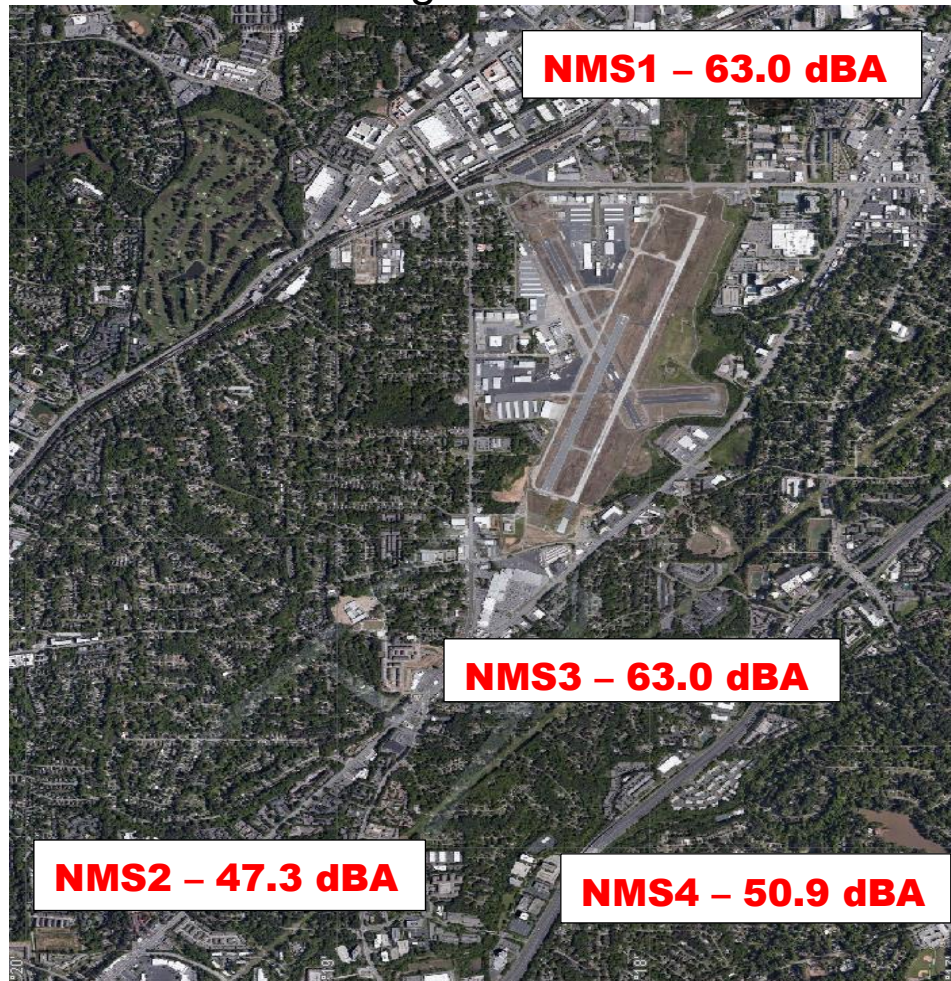
-  1-5 Complaints
-  6-10 Complaints
-  11+ Complaints

Complainants with Complaints Total

(0 Complainant(s) outside of DeKalb County)

Monthly Noise Levels at Monitors

August 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 **348 (99.7%)** of the **349** operations during the voluntary curfew period (11PM-6AM) during the month of **August 2020**. Of the **348** identified operations, **206 (59%)** 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, **82 one-time** operations were conducted during this period.
- Out of the *identified* operations, **267 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:

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

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

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

Complaints received from operations conducted during the voluntary curfew period:

88 complaints were received during **August 2020**.

28 (31.2%) 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 – August 2020 N#'s (Multi-Use):

26 Aircraft with 2 Operations (N72GR, N610RL, N350KM, **N93LF, LBQ782**, CTL101, N777ZL, FNX1393, **N895CR**, N258SB, **N296AE, N133LN**, KFS44, N1334X, **N72SG**, N91853, N7784G, KFS69, N857CB, N54854, **N179SF**, N608HR, N504A, **N407LS, N412GJ, N355AE**)

4 Aircraft with 3 Operations (**N649AE**, N421ZZ, **CTL397**, N154JK)

3 Aircraft with 4 Operations (N140SB, N81771, **N377P**)

3 Aircraft with 5 Operations (**N423AE, EMD28, N445CH**)

4 Aircraft with 6 Operations (N685MF, **N525LX, N329GS, SKQ44**)

1 Aircraft with 7 Operations (N6919J)

1 Aircraft with 9 Operations (N103AV)

1 Aircraft with 14 Operations (**N208LS**)

1 Aircraft with 32 Operations (**SKQ31**)

1 Aircraft with 42 Operations (**CTL67**)

1 Aircraft with 48 Operations (**N414CY**)

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

26 Aircraft with 2 Operations (N773RC, N26889, **N900PS**, N1080H, N75CS, **CTE816**, N888WD, N4488H, N919DS, JLG97, **N649AE**, **N464RM**, EJM132, N414VA, N885GT, N500TH, N236D, **N525JW**, **N911UG**, KFS44, **N939TW**, N553LB, N58BE, **N445CH**, AUD91, **N423AE**)

4 Aircraft with 3 Operations (**CTE491**, N322CA, N154JK, N349SB,)

3 Aircraft with 4 Operations (N7664F, DCM6007, **SKQ44**)

4 Aircraft with 5 Operations (**N365LH**, **N407LS**, N140SB, N482A)

1 Aircraft with 6 Operations (N449A)

3 Aircraft with 7 Operations (**N329GS**, **N525LX**, **N891AA**)

1 Aircraft with 10 Operations (**N208LS**)

2 Aircraft with 11 Operations (**N377P**, N103AV)

1 Aircraft with 25 Operations (**SKQ31**)

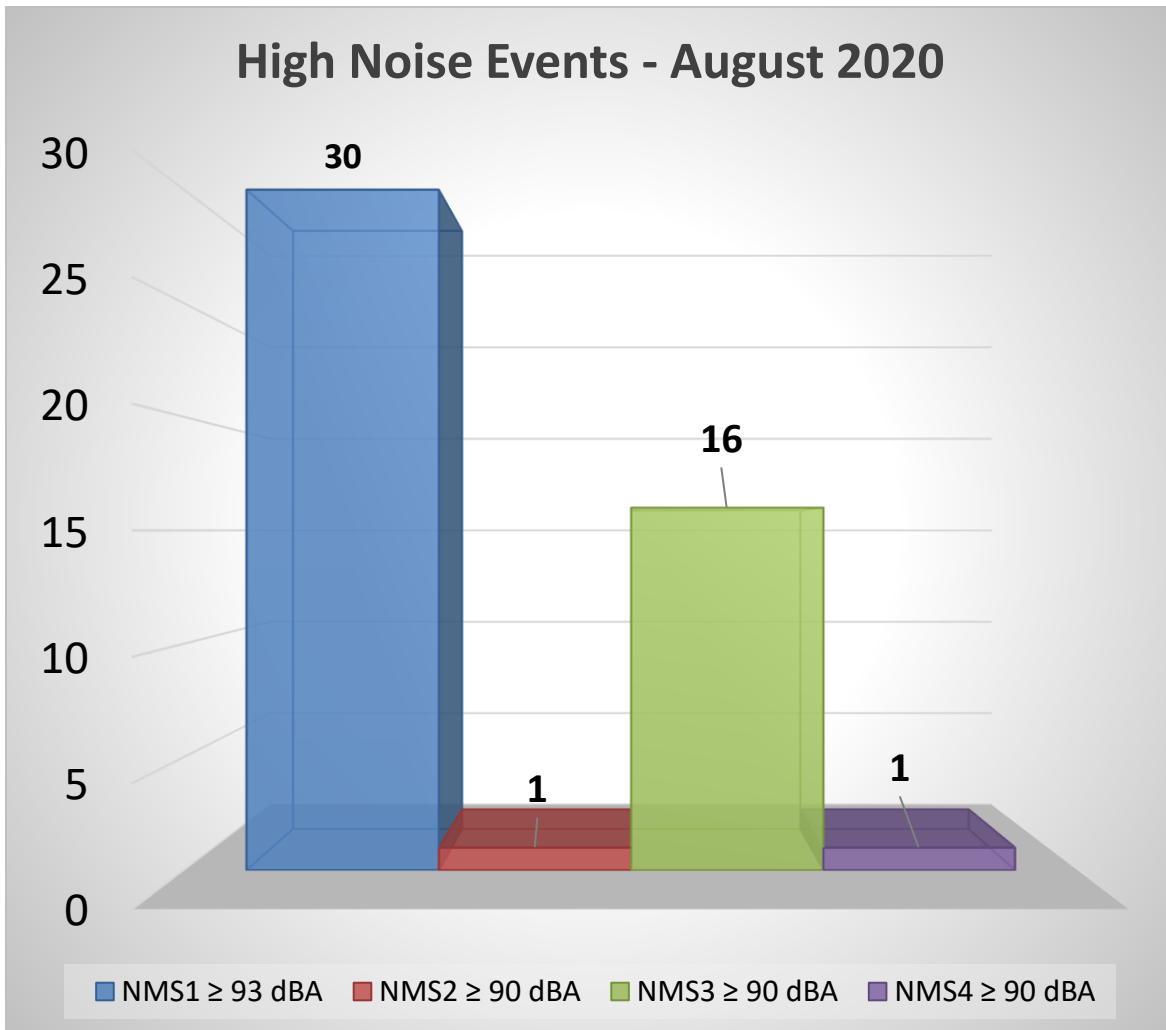
1 Aircraft with 40 Operations (**CTL67**)

1 Aircraft with 42 Operations (**N414CY**)

A total of **142** advisory letters were sent to aircraft operators flying during the voluntary curfew period in the month of **August** 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 **48** advisory letters were sent out this month for aircraft identified as Exceeding PDK's high noise event threshold.



August 2020

6 Aircraft with 2 High Noise Event (N30WR, N99VS, N116RW, N789HA, N272TX, N420QS)

1 Aircraft with 3 High Noise Events (N58DH)

July 2020

10 Aircraft with 2 High Noise Event (N800EM, N533GT, N321MS, TMC449, N541S, JTL58, N116TT, N116RW, N5208K, N500TH)

4 Aircraft with 3 High Noise Events (N499PA, N50HN, N73924, N372MZ)

1 Aircraft with 4 High Noise Events (M487LX)

1 Aircraft with 9 High Noise Events (N103AV)

Comments/Concerns?

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