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# **MONTHLY NOISE REPORT**

## **DeKalb Peachtree Airport**

### **November 2016**

**PREPARED BY:**

***Marshall J. Taggart, Jr., C.M.***

***Deputy Airport Director***

***Date: Monday, December 12, 2016***

# Deputy Director's Executive Summary

The DeKalb-Peachtree Airport (PDK) is located in an aircraft noise highly sensitive area surrounded by residential communities. Aircraft noise is noise pollution produced by any aircraft or its components, during various phases of a flight; on the ground while parked such as auxiliary power units; while taxiing; or on run-up from propeller and jet-take-offs. This also can occur underneath and lateral to departure and arrival paths; over-flying while en route; or during landing.

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 bring awareness and develop airport / community partnerships in the surrounding cities of Chamblee, Doraville, Dunwoody, Brookhaven, North Atlanta (including the Buckhead community), and others. The program is a multi-faceted 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 in reaching and maintaining this goal. Community and airport participation, gaining knowledge, and cooperation are the keys to its success.

The purpose of this report is to provide a monthly summary to the airport community and interested persons surrounding, but not limited to: airport operations; noise disturbances, status updates on follow-up letters distributed; and list the overall comments for the month.

## Aircraft Operations

	This Month	This Month, Last Year	5-Year Average for Month
Total Operations	<b>12,265</b>	10,974	11,883
Itinerant	<b>9,401</b>	8,856	9,171
Local	<b>2,864</b>	2,118	2,712
Voluntary Curfew Ops	<b>277</b>	317	294
Prior Authorization (75,000 Pounds)	<b>18</b>	<b>(6)</b> Noise disturbance calls were associated with these flights. <b>(0)</b> Voluntary curfew ops were associated with these flights.	

**Prior Authorization**

**(Section 6-93 County Code)**

**Operation**

**Itinerant**

**Local**

**Voluntary Curfew Ops**

**Aircraft certified by the FAA with a max gross take-off weight greater than**

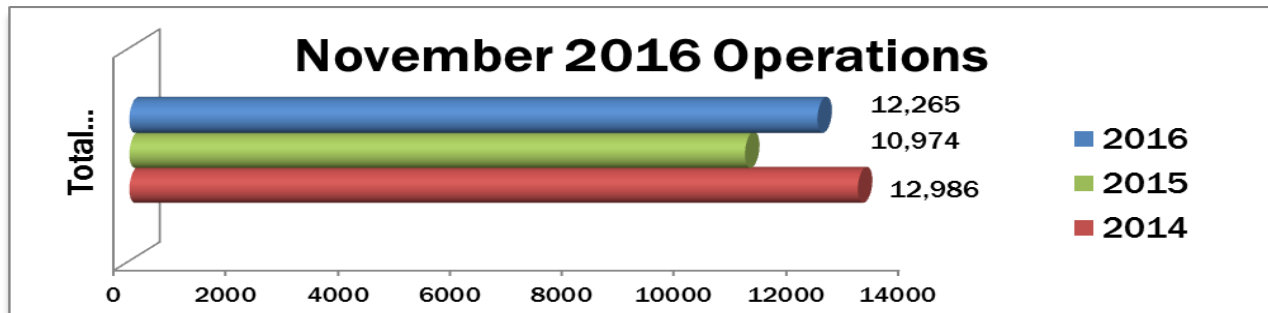
**75,000 pounds**

**One take-off or landing. Touch-and-go counts as two operations**

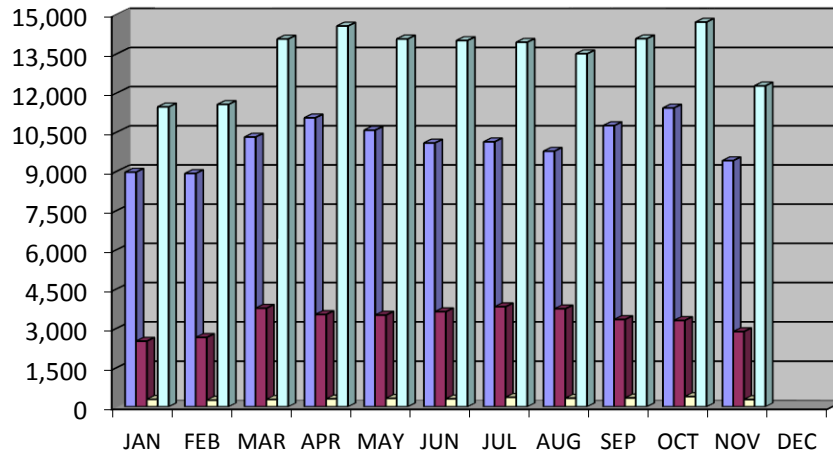
**Non-touch-and-go (regular operations)**

**Operations within 20 miles of Airport**

**Operations that occur during the hours of (11:00 p.m. and 6:00 a.m.)**



## 2016 Aircraft Operations Summary - By Type

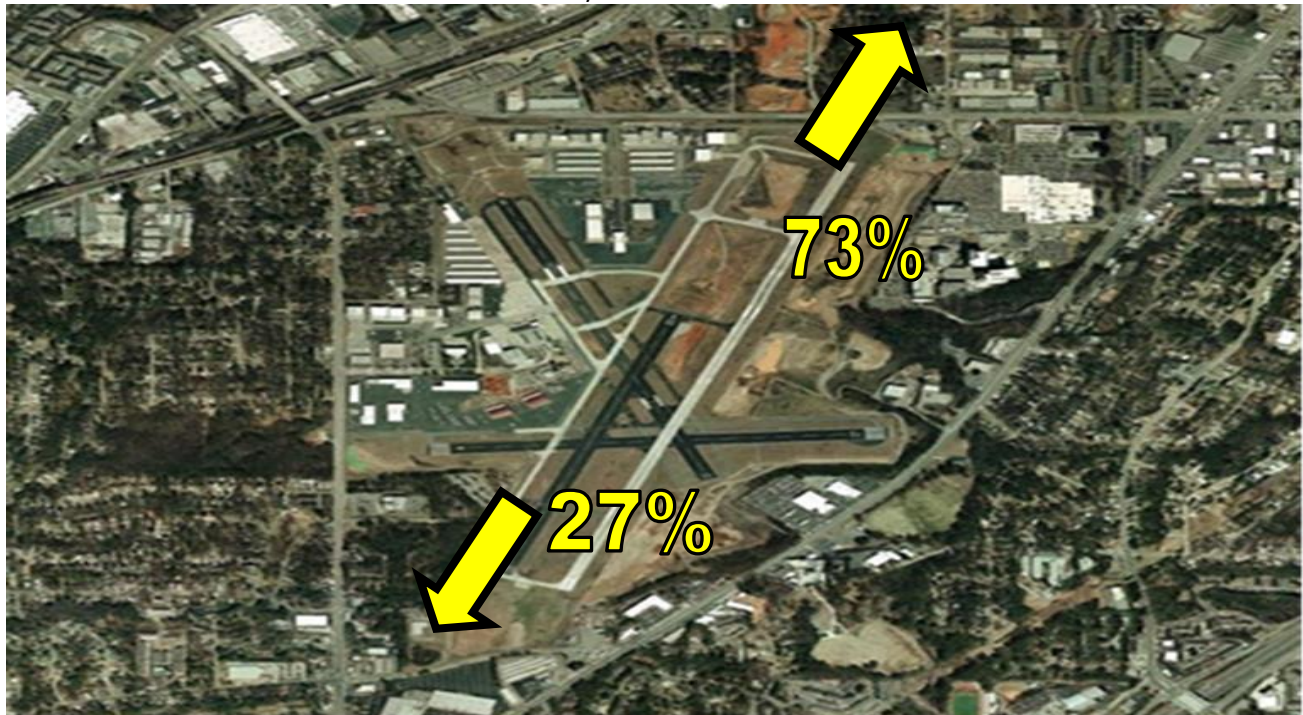


	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Itinerant	8,960	8,910	10,304	11,041	10,568	10,078	10,123	9,762	10,744	11,418	9,401	
Local	2,500	2,645	3,757	3,517	3,495	3,624	3,813	3,733	3,326	3,289	2,864	
Voluntary Curfew	284	253	280	300	321	300	360	327	336	389	294	
Total Operations	11,460	11,555	14,061	14,558	14,063	14,002	13,936	13,495	14,070	14,707	12,265	

2015 Total Operations: **138,251**; 2015 Total Ops as of November 2015 **126,892**; **Total 2016 Ops as of November 2016: 148,172**

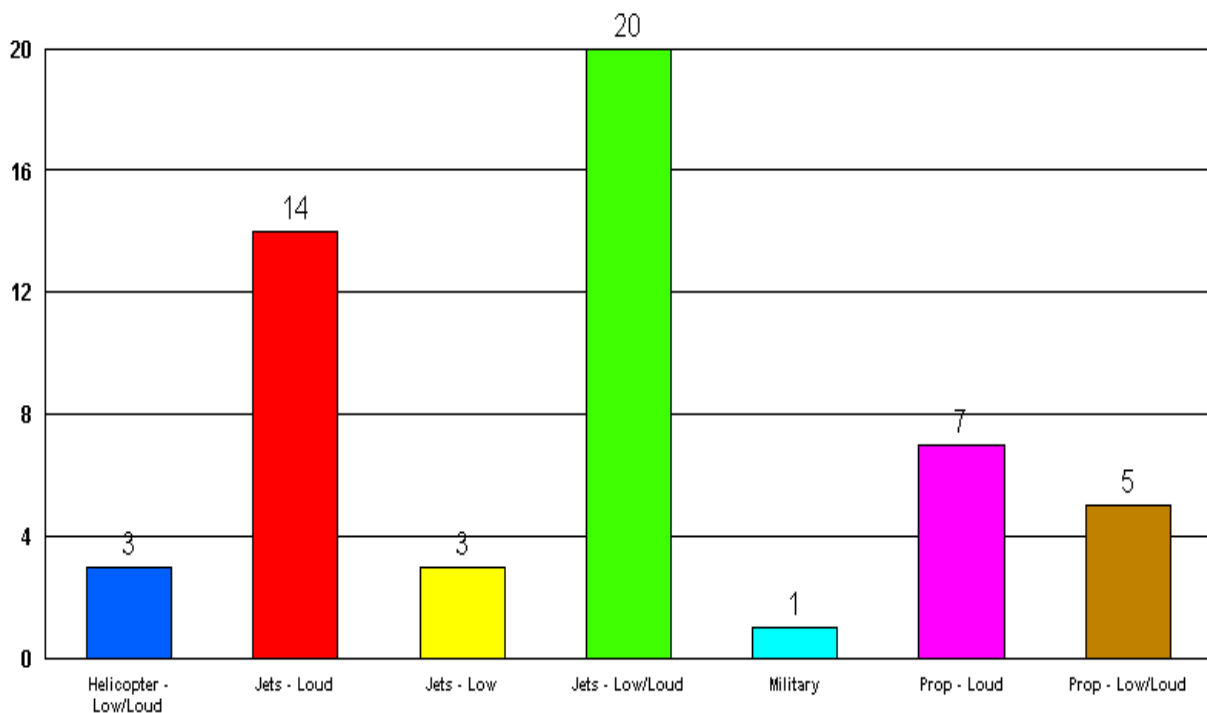
## Runway Mode of Operations

Directional use of runways has a major effect on flight patterns and the areas affected by these flight operations. Weather and wind direction generally determines runway selection. When the tower is open, the FAA Air Traffic Control Tower determines direction use of the runways.



# Noise Disturbance Summary

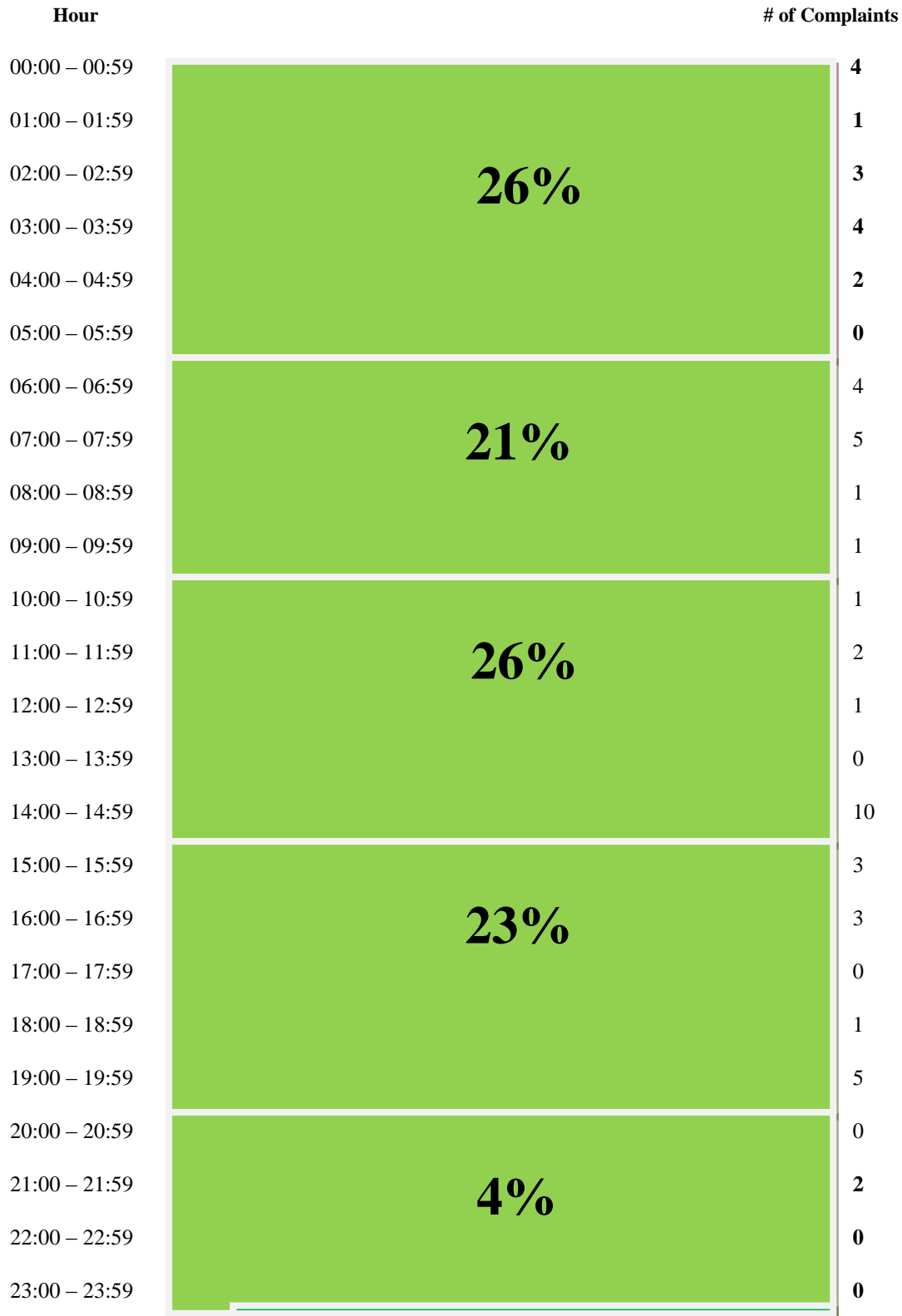
Total complaints for the month	Monthly Complaint Average 2016	Reports per Household <i>(minus top two/Households)</i>	Reports per Household <i>All Inclusive</i>
53	73	1.8	2.3



PDK maintains a hotline that permits residents to report usually, loud aircraft over-flights by dialing: (770) 936-5442 or by e-mail: [pdknoise@dekalbcountyga.gov](mailto:pdknoise@dekalbcountyga.gov).

Please contact: *Marshall J. Taggart, Jr., C.M., Deputy Airport Director* for more information regarding the PDK Good Neighbor Program.

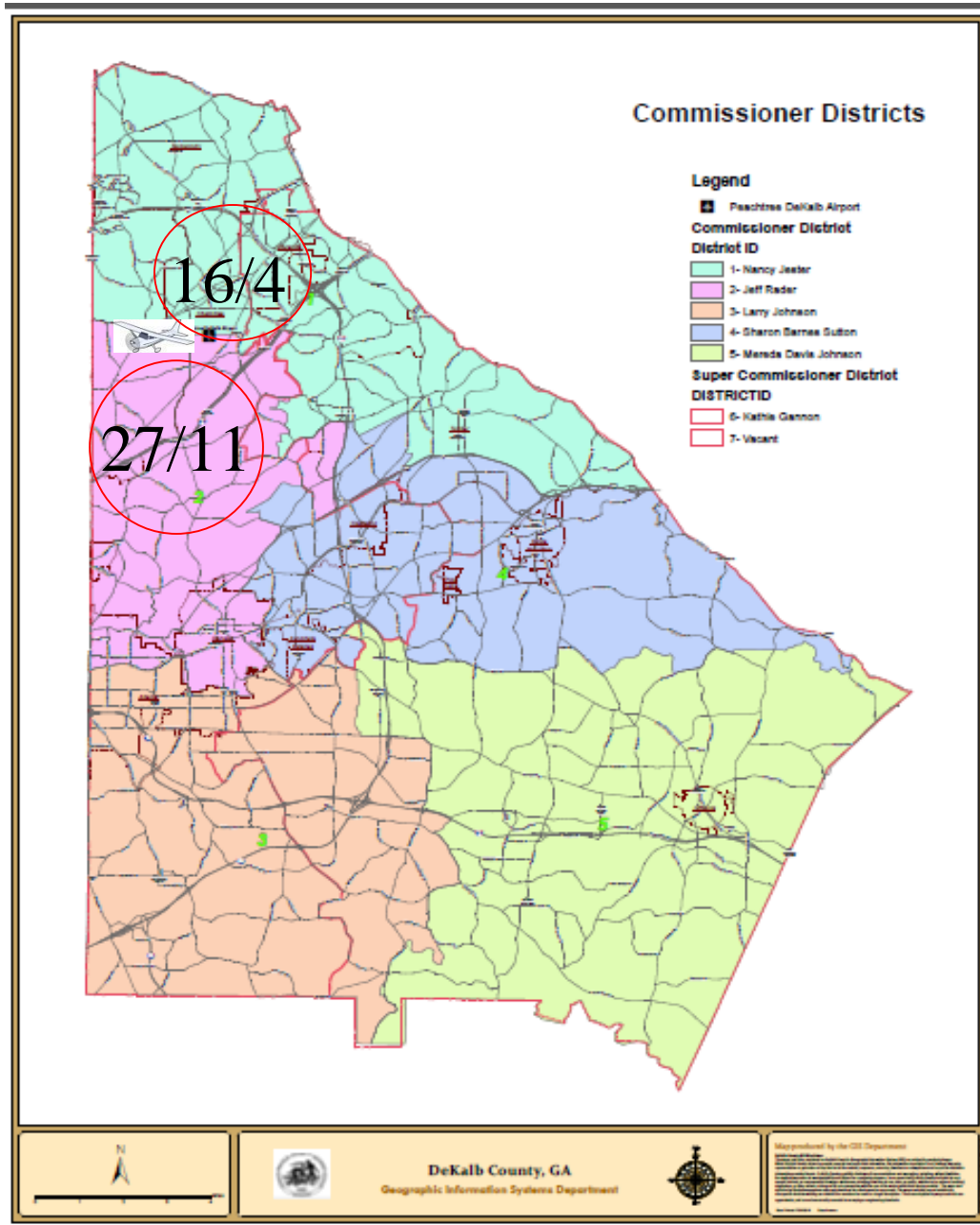
# Complaints by the Hour



## Complainants by Caller

McKey	2445 Flain Knoll Drive NE, Atlanta	1	30345
Terry	2652 Cove Cir. NE, Brookhaven	5	30319
Cox	3044 Lanier Dr NE, Atlanta	1	30319
Feldman	2376 Arrow Cir, Atlanta	9	30341
Degun	4572 Emily Court, Dunwoody	2	30360
Schneeberg	2707 Ashford Rd., Atlanta	1	30319
Turnage	3916 Ashford Dunwoody Rd., Atlanta	4	30319
Linzmeier	1972 Mednenhall St., Chamblee	7	30341
Caldwell	1600 Block of Cotswold Dr. & Cove Cir., Brookhaven	2	30319
Flynt	Alison Dr., Doraville	6	30338
Brooks	2376 Nesbitt Dr., Brookhaven	1	NA
May	2800 Archway Lane, Atlanta	1	30341
McPherson	2743 N. Thompson Rd, Atlanta	1	30341
Anderson	3070 Briarcliff Rd. Atlanta	1	NA
UNKNOWN	17690 Wawona Terrence	1	NA
UNKNOWN	4517 Arling Point, Norcross	1	NA
UNKNOWN	UNKNOWN	1	NA
Walker	UNNNOWN	1	NA
Caneby	UNKNOWN	2	NA
Broone	UNKNOWN	1	NA
Kerns	Bynum Rd. UNKNOWN	2	30350
Yeager	UNKNOWN, Dunwoody	1	NA
Burcell	UNKNOWN	1	NA
<b>Number of Complaints:</b>		<b>53</b>	
<b>Number of Complainants:</b>		<b>23</b>	

# Complaints per District



23 Total Number of Complainants / 53 Total Number of Complaints

Six (6) Known complainant with no addresses listed; One (1) Unknown complainant with unknown address listed;  
Two (2) Unknown complainants listed with addresses listed; One (1) Known complaint is located outside of the area.

## Correlation of noise complaints to Operations (NOMS)




Name	Offense Reported by Complainant	Correlated Flight Time Recorded	Rwy	Op Type	AC Type Equip	Flight ID	NMS	Lmax
Turnage	11/02/2016 00:59:00	11/02/2016 01:00:00	UNK	D	AC50	CTL67	UNK	UNK
Turnage	11/02/2016 02:03:00	11/02/2016 01:51:33	UNK	A	UNK	N4450H	UNK	UNK
Linzmeyer	11/02/2016 11:02:00	11/02/2016 10:48:34	21L	A	E559	21L	UNK	UNK
Feldman	11/04/2016 02:13:00	NOT CORRELATED	-	-	-	-	-	-
Feldman	11/04/2016 02:23:00	NOT CORRELATED	-	-	-	-	-	-
Turnage	11/05/2016 00:52:00	11/05/2016 00:51:24	UNK	D	UNK	UNK	UNK	UNK
Linzmeyer	11/05/2016 10:36:00	11/05/2016 10:35:00	UNK	D	UNK	UNK	UNK	UNK
Linzmeyer	11/05/2016 10:40:00	11/05/2016 10:39:00	03L	D	UNK	UNK	UNK	UNK
Flynt	11/08/2016 03:15:00	NOT CORRELATED	-	-	-	-	-	-
Flynt	11/08/2016 03:30:00	NOT CORRELATED	-	-	-	-	-	-
Flynt	11/08/2016 03:45:00	NOT CORRELATED	-	-	-	-	-	-
Flynt	11/08/2016 08:17:00	11/08/2016 08:14:10	03R	UNK	UNK	UNK	UNK	UNK
Linzmeyer	11/08/2016 08:00:00	11/08/2016 08:03:19	03R	D	UNK	UNK	UNK	UNK
Linzmeyer	11/08/2016 12:00:00	11/08/2016 11:51:24	03L	D	C182	N9077C	NMS4	76.1
Linzmeyer	11/08/2016 14:30:00	NOT CORRELATED	-	-	-	-	-	-
Feldman	11/09/2016 00:10:00	NOT CORRELATED	-	-	-	-	-	-
Feldman	11/09/2016 06:47:44	11/09/2016 06:50:16	21L	D	BE40	JTL73	NMS3	84.4
Brooks	11/09/2016 06:59:00	11/09/2016 06:58:16	03L	D	UNK	N619J	UNK	UNK
Anderson	11/09/2016 14:43:00	11/09/2016 14:33:30	UNK	A	C340	N83JA	NMS3	80.5
Walker	11/09/2016 14:58:00	11/09/2016 14:56:02	03R	A	PA32	N5705V	NMS3	79.3
NA	11/09/2016 14:51:00	11/09/2016 14:53:29	03L	A	SR22	IMG105	NMS3	79.3



Name	Offense Reported by Complainant	Correlated Flight Time Recorded	Rwy	Op	AC Type Equip	Flight ID	NMS	Lmax
NA	11/09/2016 14:54:00	11/09/2016 14:53:29	03L	A	SR22	UMG105	NMS3	79.3
Kerns	11/09/2016 14:54:00	NOT CORRELATED	-	-	-	-	-	-
McPherson	11/09/2016 14:57:00	11/09/2016 14:30:30	UNK	D	UNK	UNK	UNKN	UNK
Caneby	11/09/2016 15:00:00	11/09/2016 15:00:02	UNK	UNK	UNK	UNK	UNK	UNK
Kerns	11/09/2016 15:02:00	11/09/2016 15:02:11	03R	A	UNK	UNK	UNK	UNK
Caneby	11/09/2016 15:58:00	11/09/2016 15:57:21	03R	A	PC12	CNS121	NMS3	69.1
Feldman	11/09/2016 16:44:00	11/09/2016 16:05:14	03R	A	SR22	N3925R	UNK	UNK
McKey	11/09/2016 16:45:00	11/09/2016 16:35:02	03R	A	SR22	N3925R	UNK	UNK
Schneeberg	11/10/2016 07:30:00	NOT CORRELATED	UNK	-	-	-	-	-
Terry	11/10/2016 08:40:00	11/10/2016 07:56:11	34	D	UNK	N2AQ	NMS3	71.2
Terry	11/10/2016 14:41:00	11/10/2016 14:23:11	03L	D	UNK	N6919J	NMS3	70
Terry	11/10/2016 19:16:00	NOT CORRELATED	-	-	-	-	-	-
Terry	11/10/2016 19:24:00	11/10/2016 19:20:38	03R	D	UNK	UNK	UNK	UNK
Terry	11/10/2016 19:36:00	11/10/2016 19:24:42	03R	A	UNK	UNK	UNK	UNK
Linzmeyer	11/11/2016 11:52:00	11/11/2016 11:47:27	03L	NA	UNK	N348D	NMS4	67.4
Cox	11/11/2016 16:41:00	11/11/2016 16:30:39	UNK	D	UNK	UNK	NMS3	69.5
Yeager	11/12/2016 06:34:00	11/12/16 06:33:19	UNK	D	F2TH	EJA223	NA	NA
NA	11/14/2016 22:32:00	11/14/2016 22:25:06	21R	D	N140SB	UNK	UNK	UNK
Caldwell	11/15/2016 07:00:00	11/15/2016 07:01:04	UNK	D	UNK	UNK	UNK	UNK
Calwell	11/15/2016 07:25:00	11/15/2016 01:17:21	UNK	D	C421	N517MH	UNK	UNK
Broone	11/18/2016 14:50:00	11/18/2016 14:49:42	21L	D	PC12	N357JK	UNK	UNK
Degun	11/18/2016 18:50:00	11/18/2016 18:46:32	16	UNK	UNK	UNK	UNK	UNK
Degun	11/18/2016 19:40:00	11/18/2016 19:33:50	21L	A	B350	GAJ862	UNK	UNK
Feldman	11/20/2016 21:18:00	NOT CORRELATED	-	-	-	-	-	-
Feldman	11/21/2016 03:54:00	NOT CORRELATED	-	-	-	-	-	-

Name	Offense Reported by Complainant	Correlated Flight Time Recorded	Rwy	Op	AC Type Equip	Flight ID	NMS	Lmax
Burcell	11/21/2016 06:00:00	11/21/2016 06:01:20	UNK	D	UNK	N2AQ	UNK	UNK
Feldman	11/21/2016 07:30:00	11/21/2016 07:30:41	03R	A	UNK	UNK	UNK	UNK
Flynt	11/22/2016 01:00:00	11/22/2016 01:05:48	21L	A	CL30	N773RC	UNK	UNK
Flynt	11/22/2016 04:45:00	11/22/2016 04:43:23	03R	D	BE9L	N891AA	UNK	UNK
Feldman	11/25/2016 06:50:00	11/25/2016 06:06:03	16	D	UNK	UNK	UNK	UNK
Turnage	11/27/2016 00:37:00	11/27/2016 00:38:25	UNK	A	UNK	N445CH	UNK	UNK
May	11/28/2016 04:30:00	11/28/2016 04:30:07	34	D	UNK	4450AJ	UNK	UNK

**Legend:**

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

The airport correlated (**53**) complaints: (**10 or 19%**) of the noise complaints were found to be **direct** correlations complaints; (**31 or 58%**) were **indirect** correlations to operations; and (**12 or 23%**) were **not correlated**.

**Direct** = Linked to a specific flight operation over a house/monitor (NOMS correlation).

**Indirect** = Not linked to a specific flight operation (take-off thrust, reverse thrust; maintenance run-ups).

**Not Correlated** = There was no noise event to tie to NOMS or Manual.

**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:** Operation; Approach Departure Overflight

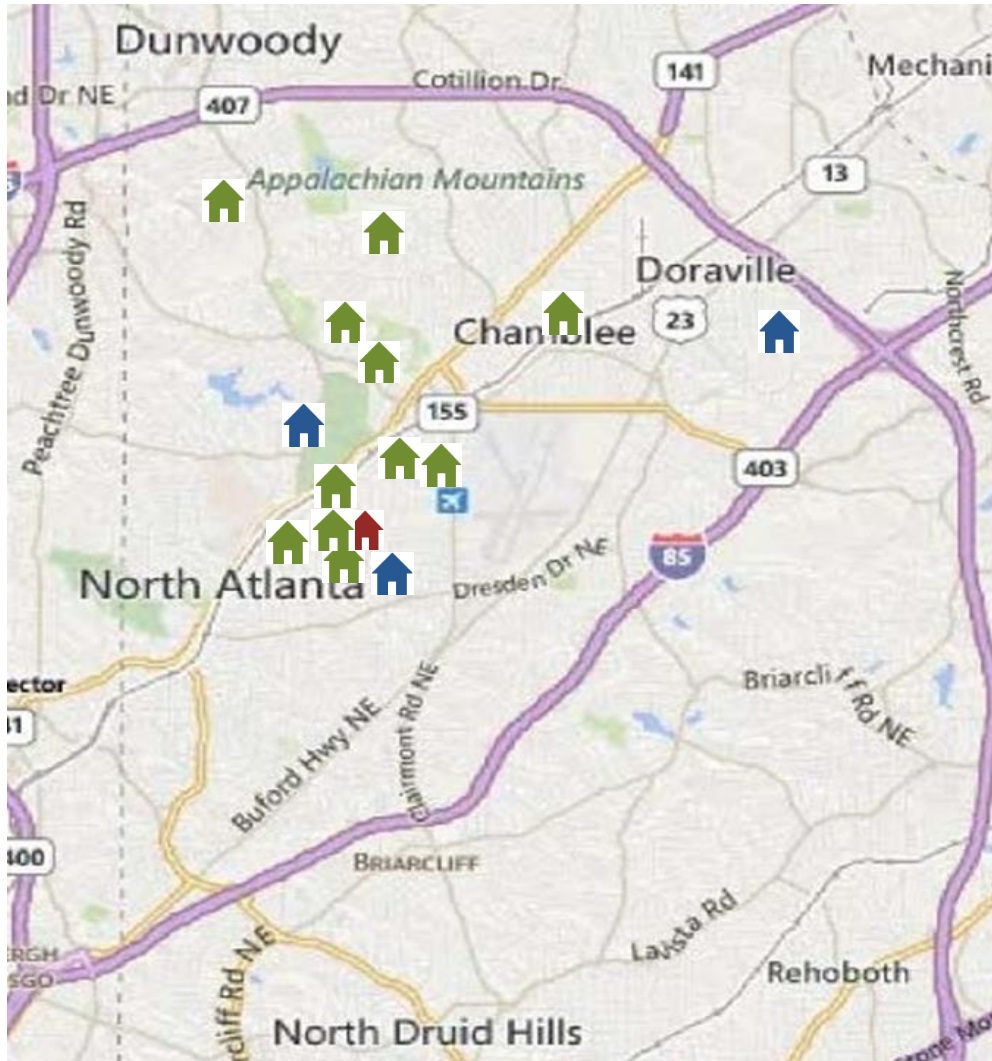
**Equip:** Type Aircraft




**Flight ID:** Tail number of aircraft or military call sign

**NMS:** Noise Monitoring Station

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

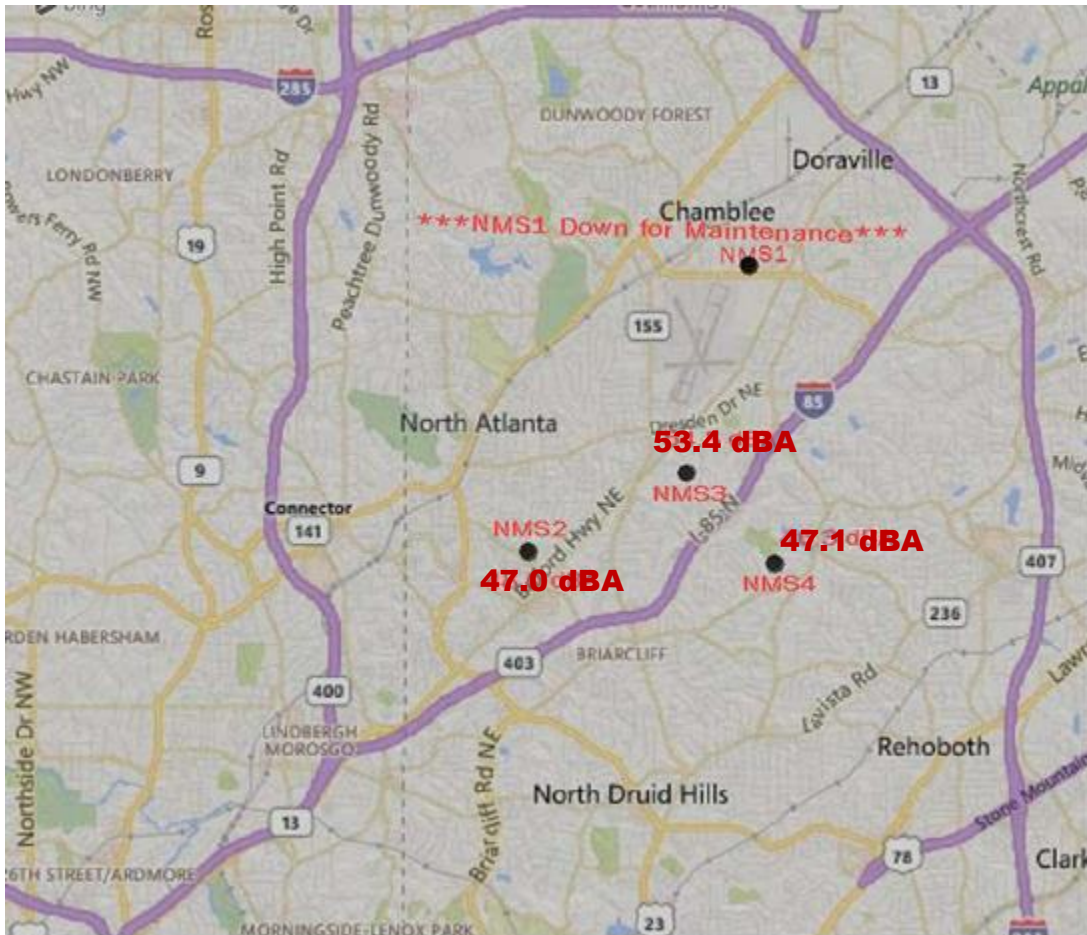
# Disturbance Location Pin Map



  $< \text{ or } = 4$       $> \& < 8$       $>$

Total: **(Twenty-Three (23))** Complainants / with **Fifteen (15)** known complainants located on pin map)

# Monthly 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.*
- *Lmax – 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:**

The airport identified a total of **202 (73%)** of the **277** operations during the voluntary curfew period (*11 PM-6 AM*) during the month of **November 2016**; **187** of the **277** operations were identified as MEDEVAC and/or emergency flights.

**183** “one time” operations were conducted during this period.

**9** were multi-time operations conducted during this period, i.e. an operator conducting **2** or more operations during this period.

- **Operators Identified / Multi-Use:**

**202** operators were identified using the airport during the voluntary curfew period.

**48** Operators were identified using the airport during the voluntary curfew period for 2 or more times during the month.

**18** operators were identified as MEDEVAC and/or emergency flights.

- **Complaints received from operations conducted during the voluntary curfew period:**

**53** complaints were received during **November, 2016**.

**19** complaints were received for operations conducted during the voluntary curfew period.

## **This Month's – November 2016 (N #'s)**

**4 Aircraft with 2 operations (771MG, 203GT)**

**1 Aircraft with 4 Operations (716TC)**

**2 Aircraft with 4 Operations (112WJ, 376SP, 510MG)**

**1 Aircraft with 3 Operations (626DS)**

## **Last Month's – October 2016 (N#'s)**

**1 Aircraft with 2 Operations** (897CW)

**4 Aircraft with 3 Operation** (112WJ, 376SP, 732WB, **510MG**)

**2 Aircraft with 4 Operations** (103AV, 8830N)

**2 Aircraft with 5 Operations** (5208K, 560LC)

**1 Aircraft with 4 Operations** (626DS)

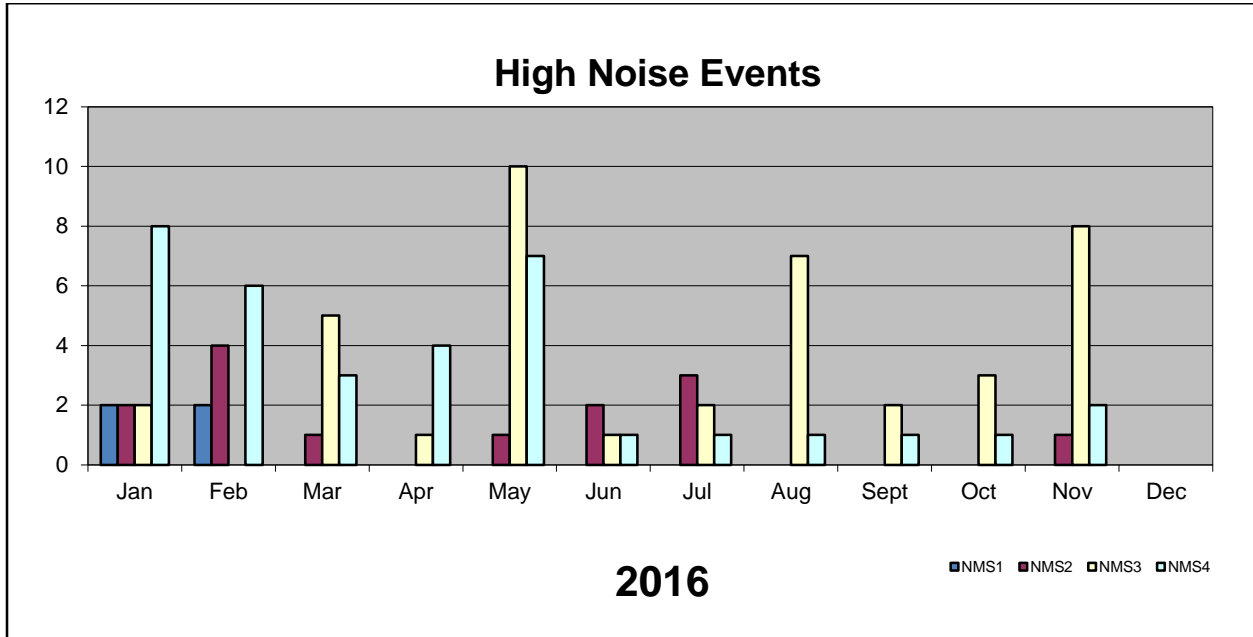
**6 Aircraft with 3 Operations** (677ST, 205CM, 891AA, 750CK, 60PC, **897CW**)

**2 Aircraft with 6 Operations** (411ET, 716TC)

**Note:** The bold face N#'s represent MEDEVAC, Medical related flights, or Law Enforcement.

# 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, NMS 2, 3, & 4 are located in residential areas and are set at **90 dBA Lmax** or greater. A total of **(2) advisory letters** will be sent this month for aircraft identified as exceeding PDK's high noise event threshold(s).



November (N#S)

2 Aircraft with 1 High Noise Events (JTL73, N83JA)

October (N#s)

3 Aircraft with 0 High Noise Events (N377, N124TF UNKNOWN)

**Note:** The bold face N#'s represent MEDEVAC, Medical related flights, or Law Enforcement.

**We welcome your feedback!!**

Please visit [www.pdkairport.org](http://www.pdkairport.org) for all your airport information or you may contact the airport about noise concerns at [pdknoise@dekalbcountyga.gov](mailto:pdknoise@dekalbcountyga.gov). Follow us on Facebook: 