



---

# **MONTHLY NOISE REPORT**

## **DeKalb-Peachtree Airport**

### **September 2016**

**PREPARED BY:**

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

***Deputy Airport Director***

**Date: Monday, October 10, 2016**

# Assistant 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>14,070</b>	<b>11,647</b>	<b>11,978</b>
Itinerant	<b>10,744</b>	<b>9,380</b>	<b>9,211</b>
Local	<b>3,326</b>	<b>2,267</b>	<b>2,767</b>
Voluntary Curfew Ops	<b>336</b>	<b>266</b>	<b>281</b>
Prior Authorization (75,000 Pounds)	<b>21</b>	<b>(0)</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*

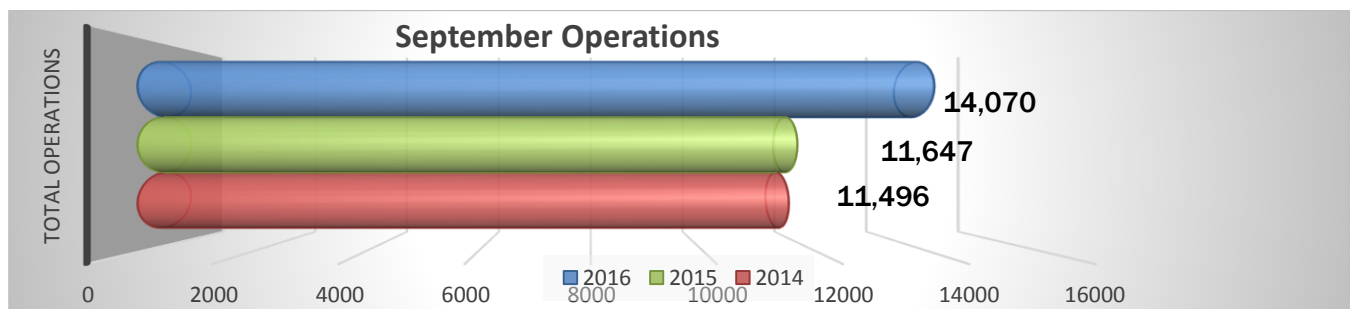
*75,000 pounds*

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

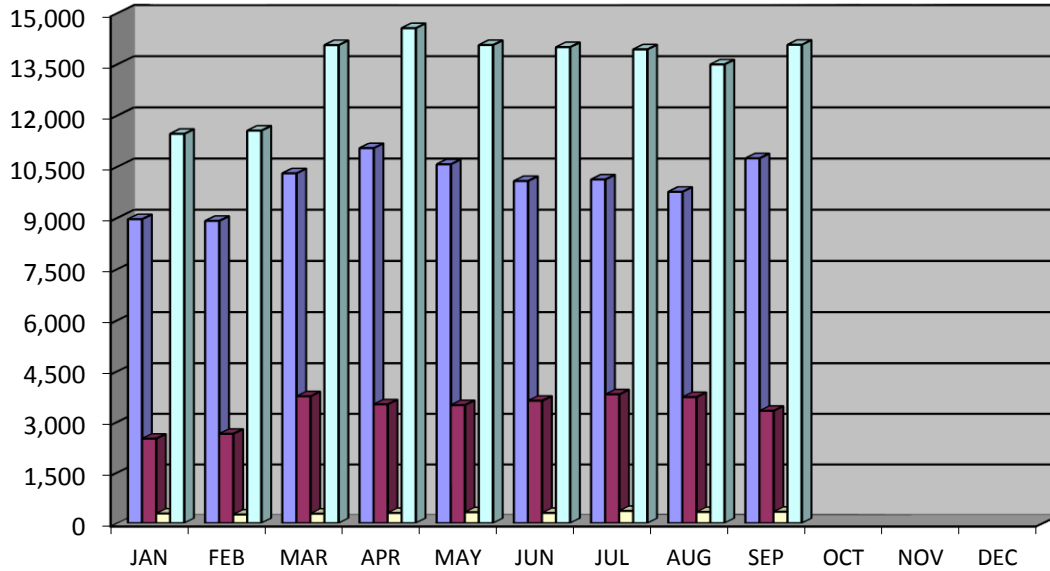
*Non-touch-and-go (regular operations)*

*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

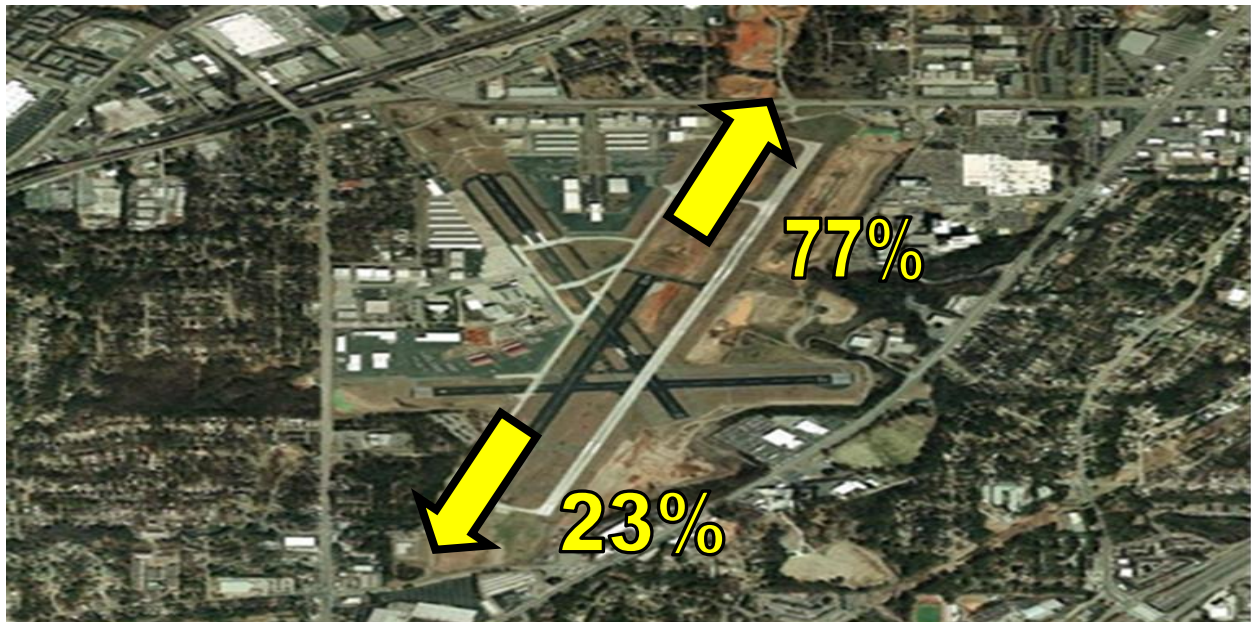


	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Itinerant	8,960	8,910	10,304	11,041	10,568	10,078	10,123	9,762	<b>10,744</b>			
Local	2,500	2,645	3,757	3,517	3,495	3,624	3,813	3,733	<b>3,326</b>			
Voluntary Curfew	284	253	280	300	321	300	360	327	<b>336</b>			
Total Operations	11,460	11,555	14,061	14,558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

2015 Total Operations: 138,251 Total 2015 Ops as of September: 103,104 Total 2016 Ops as of September: 121,200

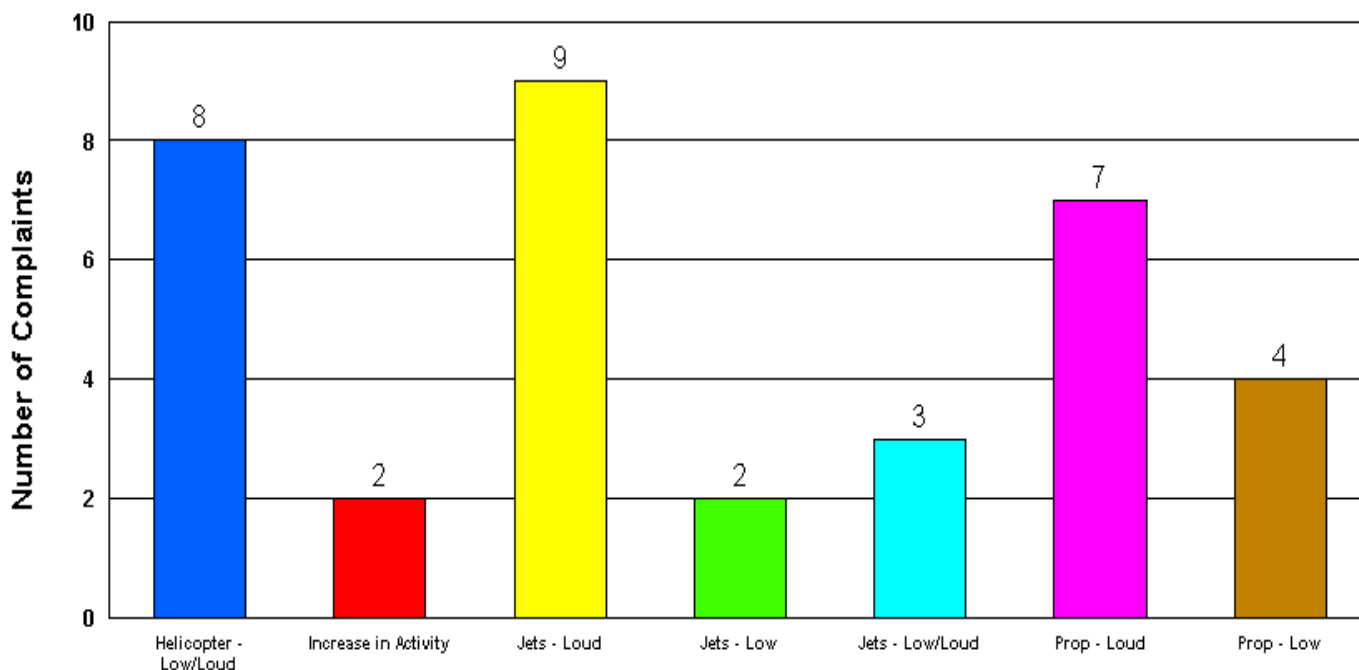
## Runway Mode of Operations

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

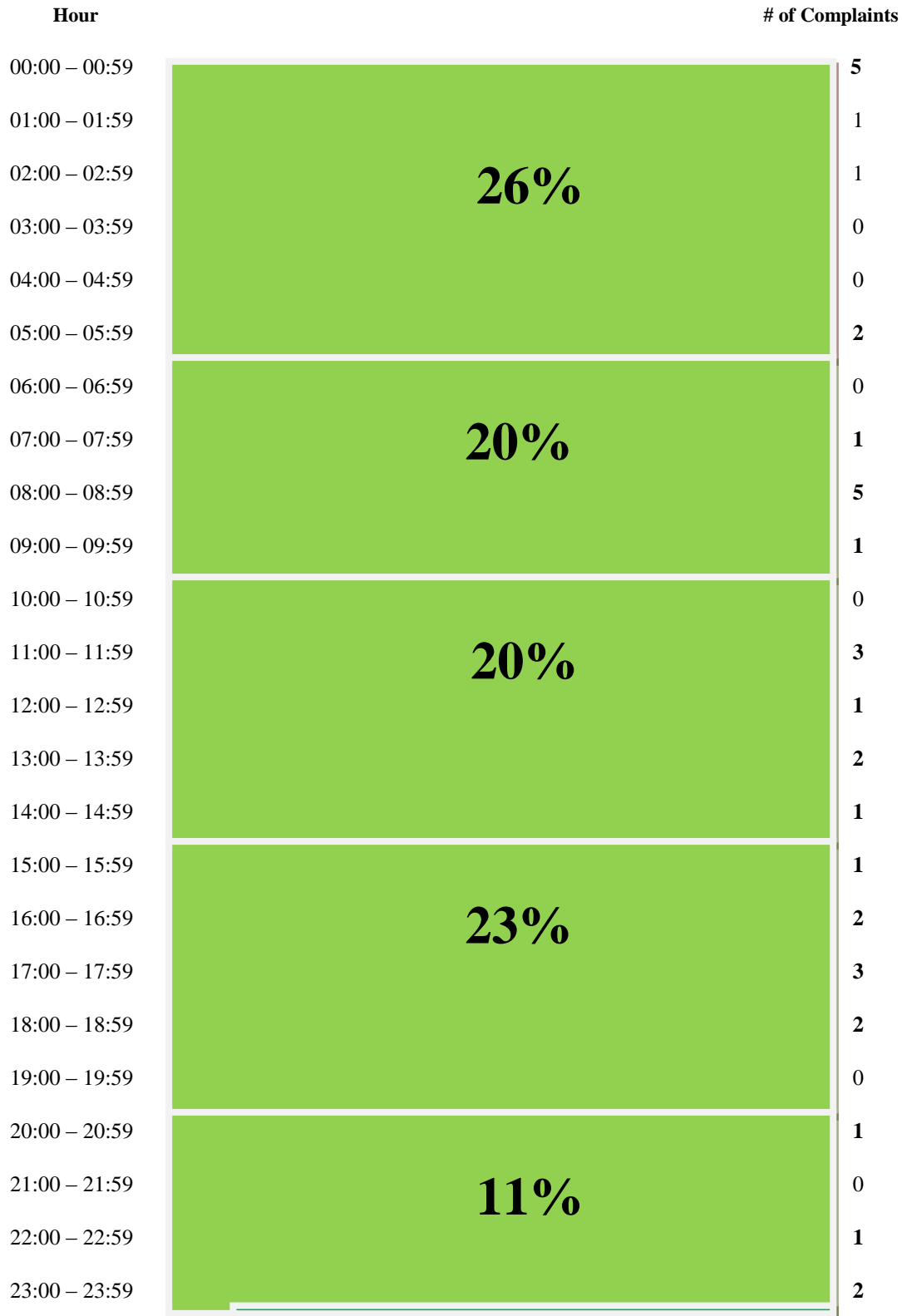
Total complaints for the month	Monthly Complaint Average 2016	Reports per Household <i>(minus top two/Households)</i>	Reports per Household <i>All Inclusive</i>
35	83	1.6	2.3



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.

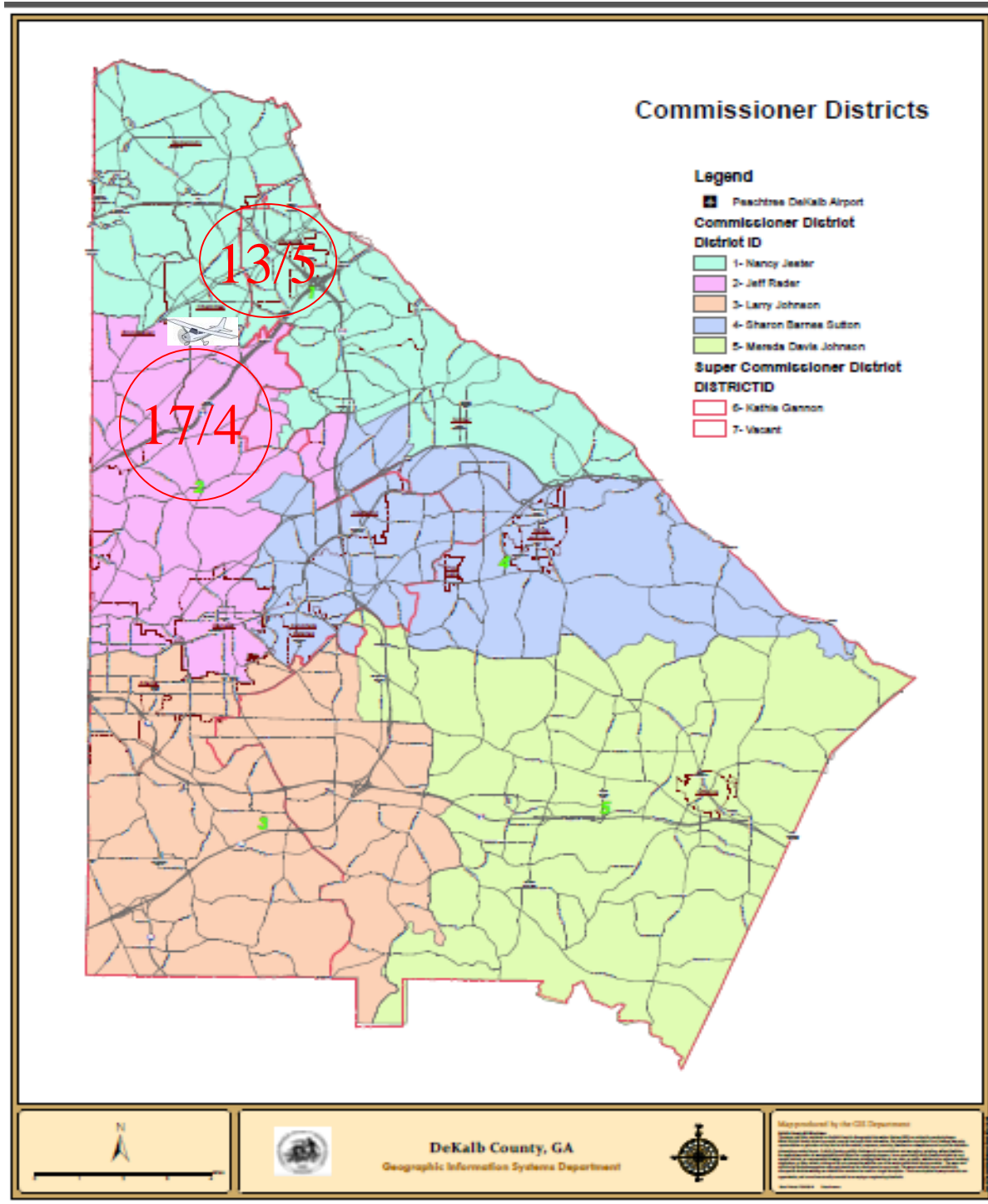
# Complaints by the Hour



## Complainants by Caller

Terry	2652 Cove Cir., NE Brookhaven	3	30345
Feldman	2376 Arrow Cir., Atlanta	9	30341
NA, Carolyn	UNKNOWN	1	NA
Van Meir	2525 Oakvale Place, Tucker	1	30084
Schneeberg	2707 Ashford Rd., NE Atlanta	5	30319
Collier	Peachtree Industrial & Pleasant Hill Road	1	NA
Turnge	3916 Ashford Dunwoody Rd., Atlanta	4	30319
Elliott	1840 Merrimac Ct., NE Atlanta	2	30329
Fox	2423 Woodacres Rd., NE Atlanta	3	30345
Floyd	3622 Carmel Rd., Chamblee	2	30341
Frank	UNKNOWN	1	NA
Pearson	UNKNOWN	1	NA
Kenny	2946 Lavista Rd., Decatur	1	30033
Zip	UNKNOWN, Sandy Springs	1	NA
<b>Number of Complaints:</b>		<b>35</b>	
<b>Number of Complainants:</b>		<b>14</b>	

# Complaints per District



14 Total Number of Complainants / 35 Total Number of Complaints

Zero (0) Unknown complainants; Four (4) Unknown Addresses with One (1) complaint listed for each; One (1) Unknown address located out of the area with One (1) complaint reported.

## Correlation of noise complaints to operations (NOMS)

Name	Offense Start Reported	Flight Time Recorded	Rwy	Op	Equip	Flight ID	NMS	Lmax
Terry	09/03/2016 14:50:00	09/03/2016 14:44:46	21L	A	-	-	NMS3	66.0
Floyd	09/03/2016 16:04:00	09/03/2016 16:03:23	UNK	D	-	-	UNK	UNK
Terry	09/03/2016 20:59:00	09/03/2016 20:50:07	21R	D	UNK	N1405B	UNK	UNK
Fox	09/05/2016 05:30:14	09/05/2016 05:36:03	03R	A	BE9L	N891AA	NMS3	71.1
Fox	09/06/2016 02:14:58	09/06/2016 02:10:33	21L	A	LJ45	N29ILJ	NMS3	74.4
Fox	09/06/2016 05:30:00	09/06/2016 05:07:01	UNK	D	CN52	UNK	NMS3	73.5
Floyd	09/06/2016 16:10:45	09/06/2016 16:09:53	03L	D	EJA230	F2TH	NMS3	69.8
Feldman	09/07/2016 08:10:45	09/07/2016 08:09:53	03R	A	GLF5	N469SD	NMS4	70.5
Feldman	09/08/16 23:06:00	NOT CORRELATED	-	-	-	-	-	-
Feldman	09/08/2016 23:36:00	09/08/2016 23:36:47	UNK	D	GLF5	N550DX	NMS3	78.4
Feldman	09/09/2016 00:48:00	09/09/2016 00:31:50	21L	D	C208	N208LS	NMS3	74.5
Feldman	09/09/2016 11:06:00	NOT CORRELATED	-	-	-	-	-	-
Feldman	09/09/16 11:36:00	09/09/2016 11:17:55	UNK	D	UNK	UNK	UNK	UNK
Feldman	09/09/2016 12:48:00	09/09/2016 12:42:55	UNK	D	UNK	UNK	UNK	UNK
Zip	09/11/2016 09:42:00	NOT CORRELATED	-	-	-	-	-	-
Patbush	09/11/2016 13:04:00	09/11/2016 13:05:01	UNK	UNK	UNK	UNK	UNK	UNK
Erwin	09/11/2016 13:13:00	09/11/2016 12:37:02	UNK	UNK	UNK	UNK	UNK	UNK
Feldman	09/14/2016 18:41:00	09/14/2016 18:40:02	UNK	A	UNK	UNK	UNK	UNK
Schneeberg	09/15/2016 08:00:00	09/15/2016 07:50:58	UNK	D	UNK	N2AQ	-	-
Schneeberg	09/15/2016 08:13:00	09/15/2016 08:13:24	03L	D	UNK	N891TA	NMS3	68.9
Turnge	09/16/2016 00:45:01	09/16/16 00:55:16	UNK	D	UNK	UNK	UNK	UNK



Name	Offense Start Reported	Flight Time Recorded	Rwy	Op	Equip	Flight ID	NMS	Lmax
Terry	09/17/16 17:10:00	09/17/2016 17:10:49	21L	D	UNK	N81771	NMS3	76.6
Feldman	09/19/16 15:59:01	UNK	UNK	UNK	UNK	UNK	UNK	UNK
Turnge	09/20/16 00:45:00	NOT CORRELATED	-	-	-	-	-	-
Turnge	09/20/16 00:55:00	NOT CORRELATED	-	-	-	-	-	-
Turnge	09/20/16 00:56:00	NOT CORRELATED	-	-	-	-	-	-
Elliott	09/20/16 07:28:00	09/20/2016 07:41:55	UNK	D	G750	EJA906	NMS4	70.5
Pearson	09/20/16 18:00:00	09/20/2016 18:01:59	03L	D	UNK	N306BZ	NMS3	66.4
Schneeberg	09/23/16 08:07:00	09/23/2016 08:10:58	UNK	D	UNK	N2AQ	NMS3	60.4
Elliott	09/23/16 08:42:00	09/23/2016 08:43:48	UNK	D	UNK	UNK	UNK	UNK
Carolyn	09/23/16 11:45:00	NOT CORRELATED	-	-	-	-	-	-
Kenny	09/27/16 01:27:00	09/27/2016 01:05:19	UNK	A	LJ35	N384CF	UNK	UNK
Schneeberg	09/27/16 17:03:00	09/27/2016 16:44:18	UNK	UNK	UNK	UNK	NMS3	68.7
Schneeberg	09/27/16 17:16:02	09/27/2016 17:09:35	UNK	UNK	UNK	UNK	-	-
Collier	09/30/16 22:00:00	NOT CORRELATED	-	-	-	-	-	-

### Legend:

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

The airport correlated **35** complaints; **14 (40%)** of the noise complaints to be **direct** correlations. Of the **35** noise complaints, **13 (37%)** were **indirect** correlations to operations and **8 (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-up).

**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; **A** Approach **D** Departure **O** Overflight

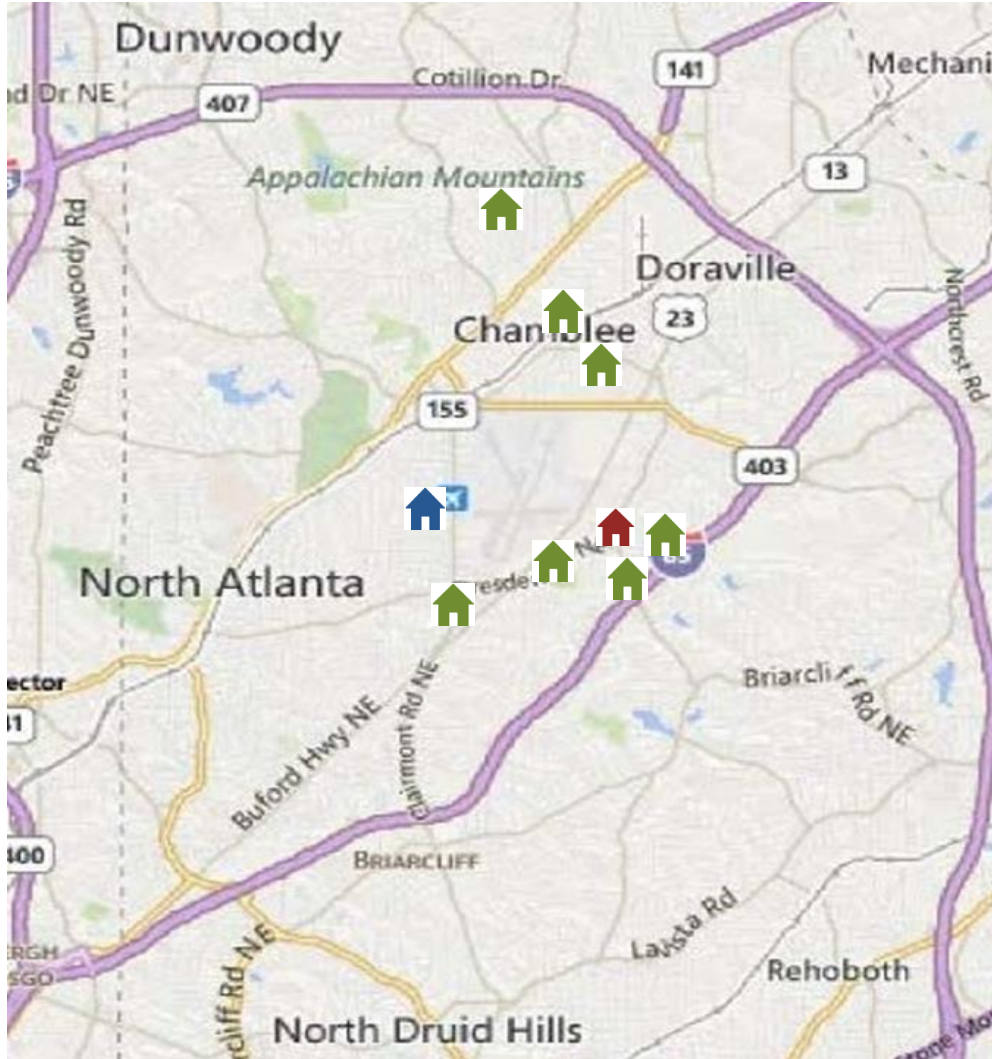
**Equip:** Type Aircraft




**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

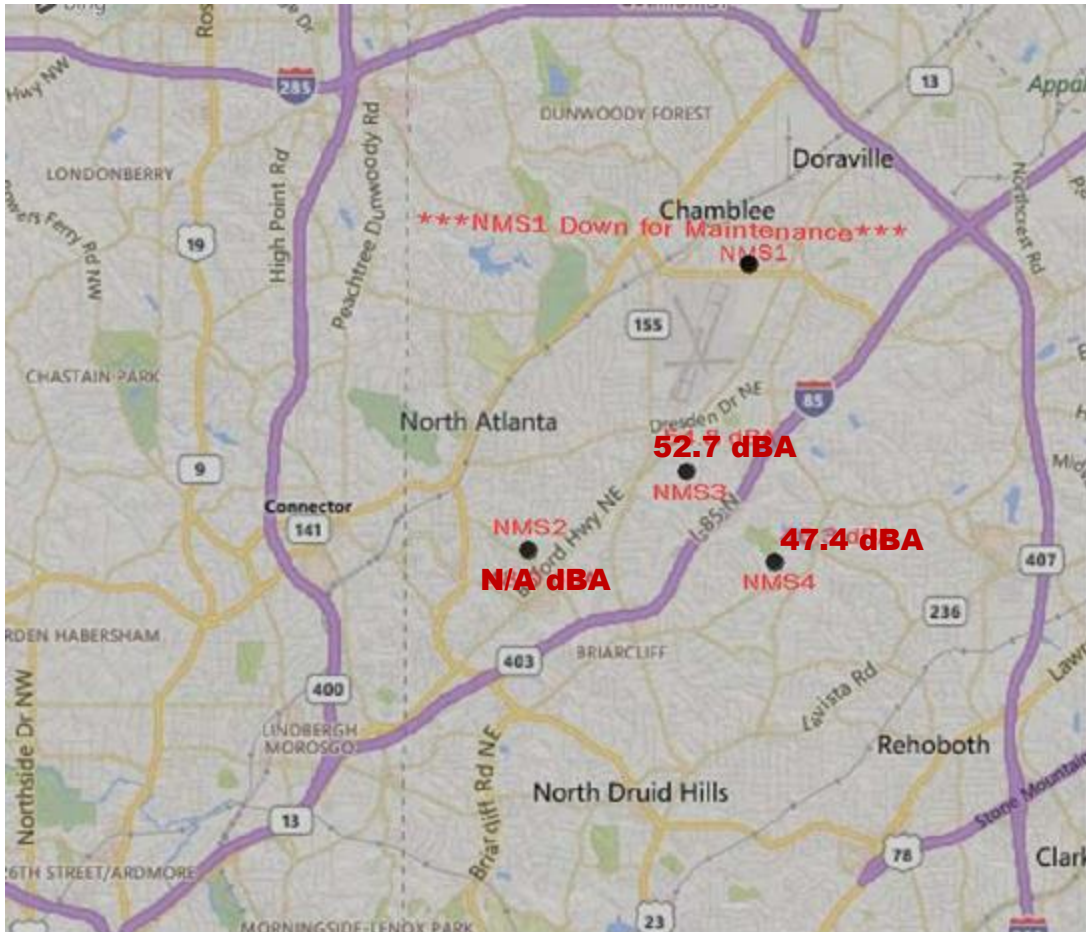



  
 < or = 4
 
  
 > & < 8
 
  
 >

\*\*\***Four (4)** Unknown Complainant Addresses; Also, **One (1)** Complainant with address outside disturbance area.

(Total: **Fourteen (14)** Complainants / **Nine (9)** 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 **240 (71%)** of the **336** operations during the voluntary curfew period (11 PM-6 AM) during the month of **September 2016**; **208** of the **336** operations were identified as MEDEVAC and/or emergency flights.

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

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

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

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

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

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

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

**35** complaints were received during **September, 2016**.

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

## **This Month (N #'s)**

10 Aircraft with 2 operations (897CW, 90FC, 928CS, 418GJ, 555WZ, 769SD, 750CK, 735XL, **60PC**, **203GT**)

3 Aircraft with 2 Operations (112WJ, 510MG, **68DA**)

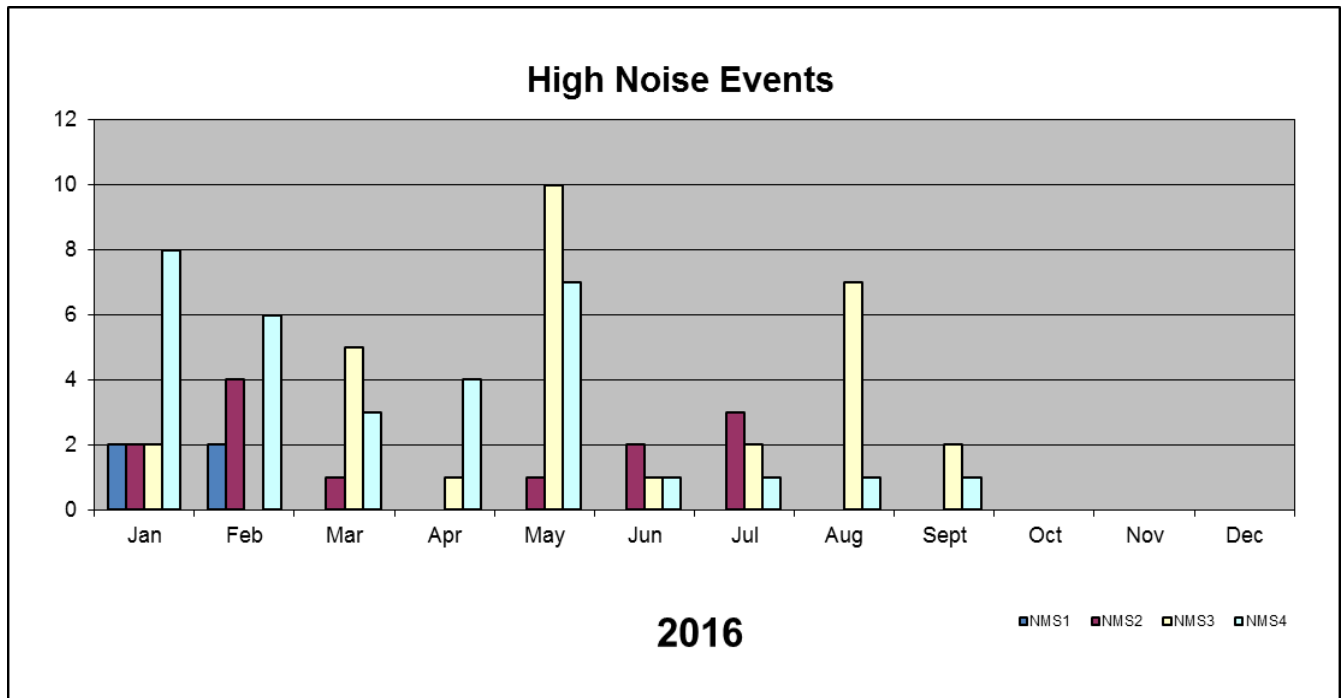
2 Aircraft with 4 Operations (99VS, **891AA**)

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

**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 **(1) advisory letter** will be sent this month for aircraft identified as exceeding PDK's high noise event threshold.



## August (N#s)

2 Aircraft with 0 High Noise Events (N660, UNKNOWN)

## September (N#s)

2 Aircraft with 1 High Noise Event (UNKNOWN, N894JH)

**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: 