



# **MONTHLY NOISE REPORT**

## **DeKalb-Peachtree Airport**

**August 2016**

PREPARED BY:

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

***Assistant Airport Director***

**Date: Monday, September 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	13,495	11,598	12,567
Itinerant	9,762	8,771	9,192
Local	3,733	2,827	3,375
Voluntary Curfew Ops	327	271	311
Prior Authorization (75,000 Pounds)	27	(2) Noise disturbance calls were associated with these flights. (4) 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*

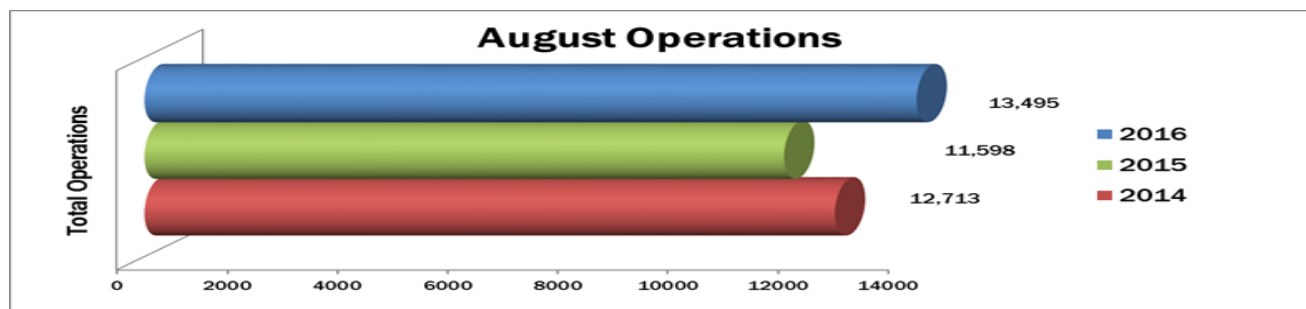
*75,000 pounds*

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

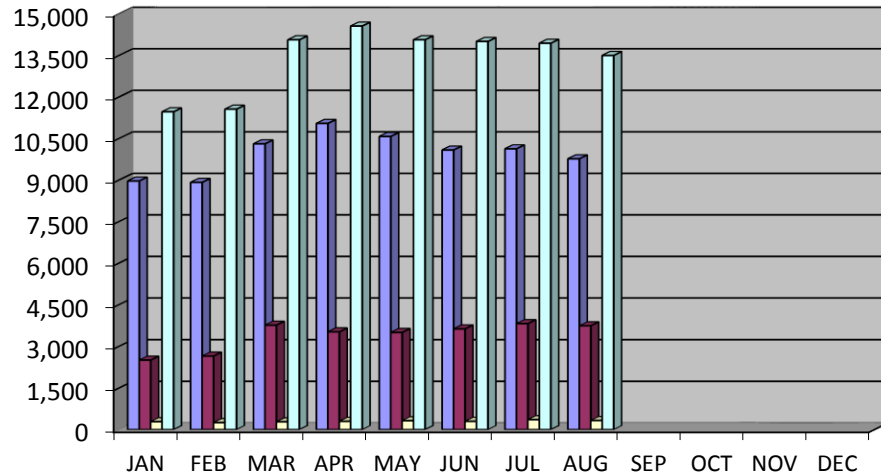
*Non-touch-and-go (regular operations)*

*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

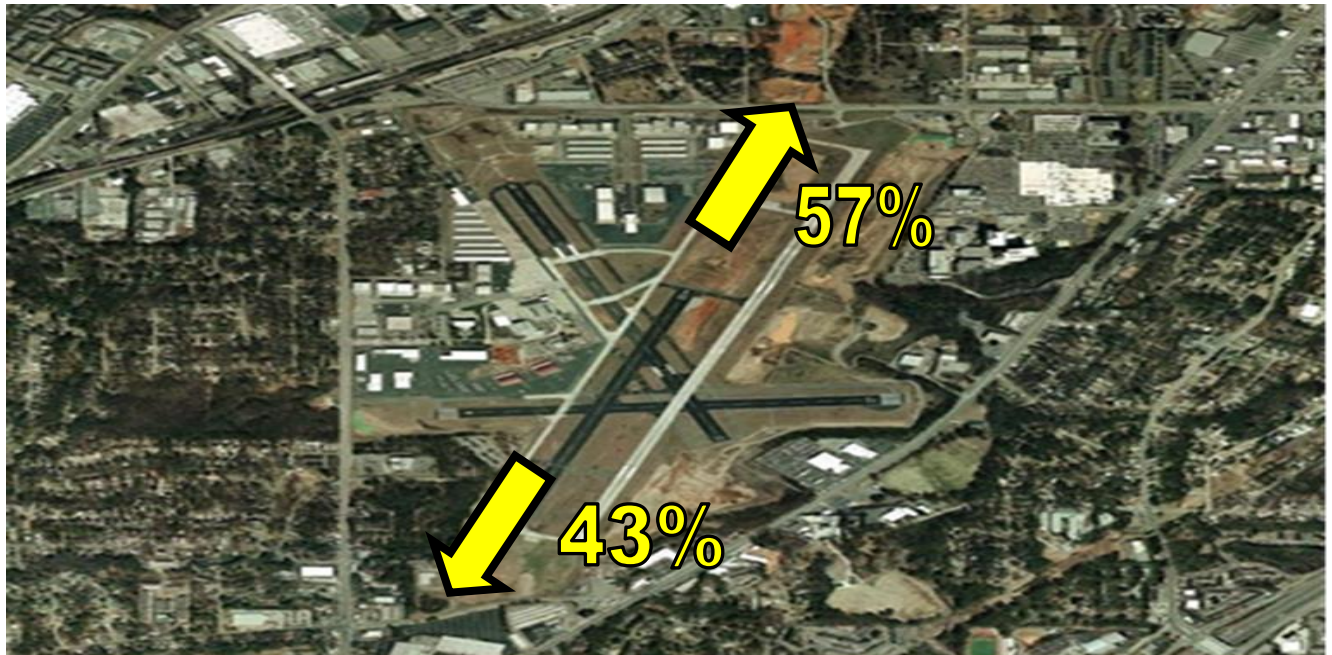


	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Itinerant	8,960	8,910	10,304	11,041	10,568	10,078	10,123	9,762				
Local	2,500	2,645	3,757	3,517	3,495	3,624	3,813	3,733				
Voluntary Curfew	284	253	280	300	321	300	360	327				
Total Operations	11,460	11,555	14,061	14,558	14,063	14,002	13,936	13,495				

2015 Total Operations: 138,251 Total 2015 Ops as of August: 91,457 Total 2016 Ops as of August: 107,130

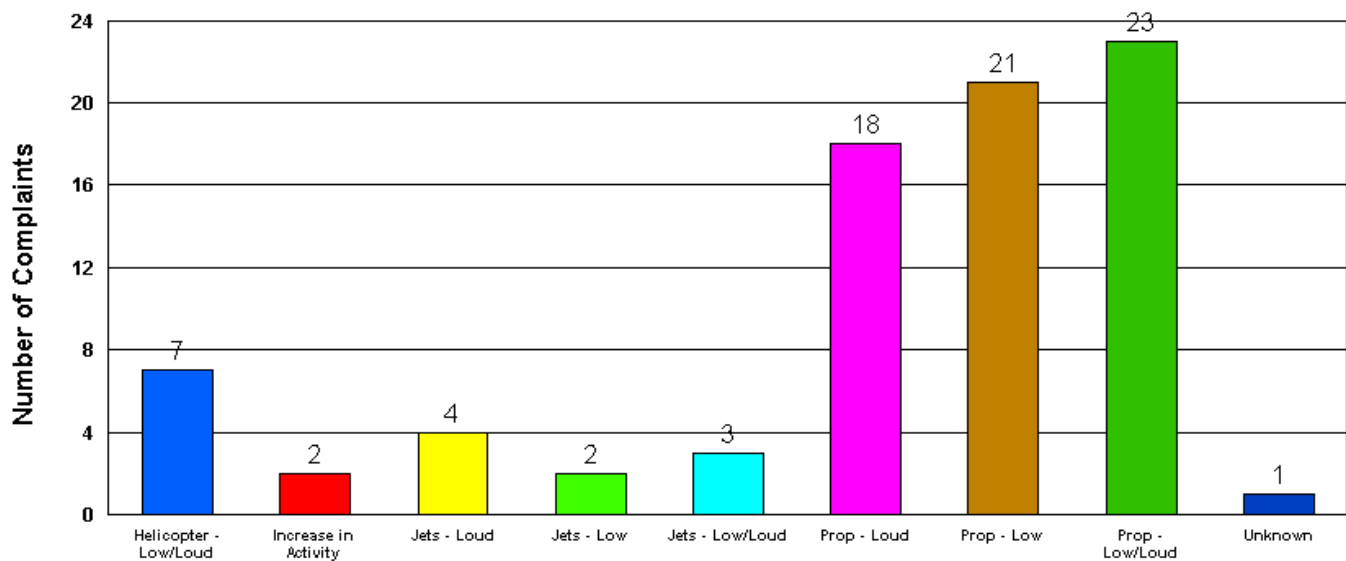
## Runway Mode of Operations

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

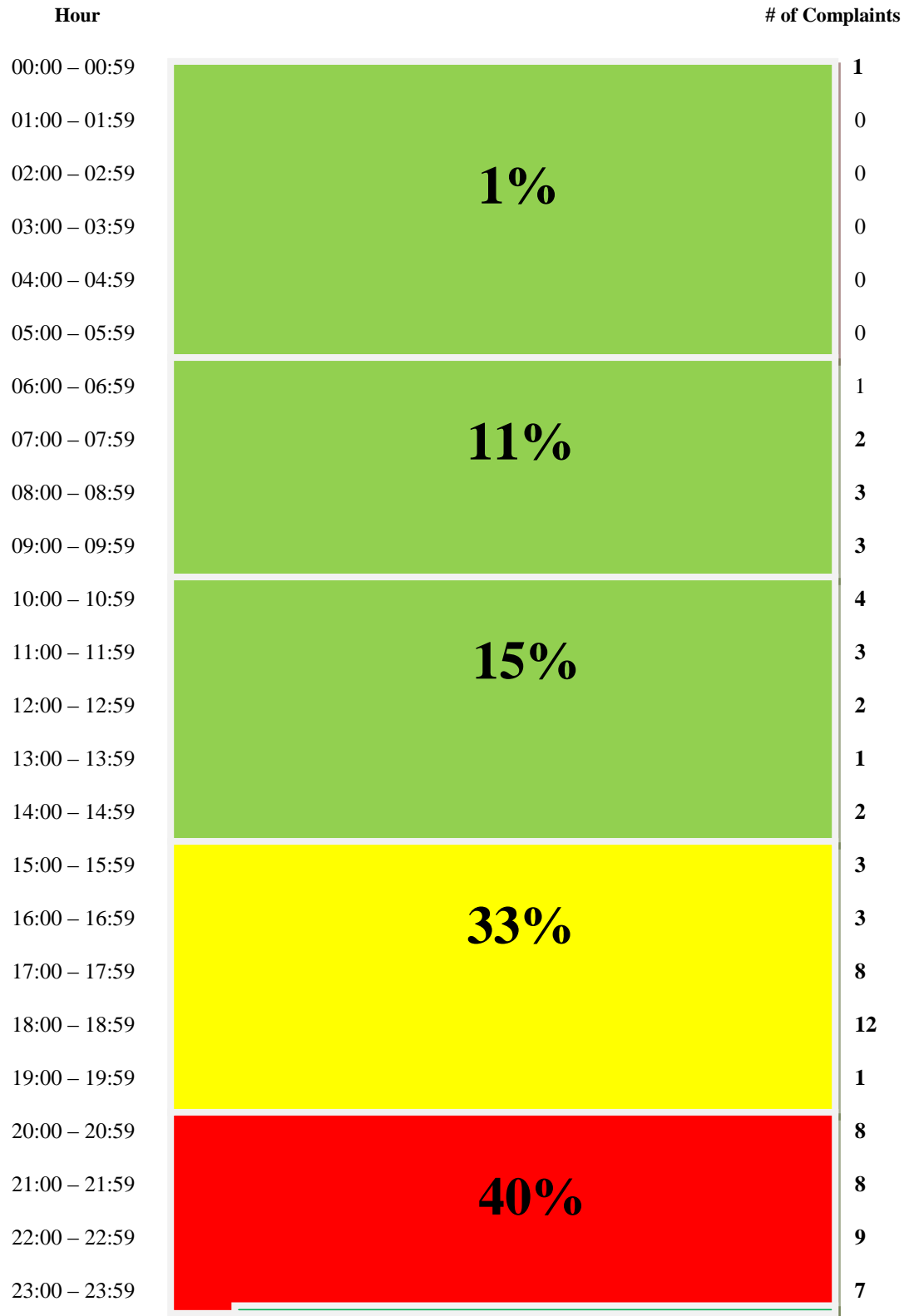
Total complaints for the month	Monthly Complaint Average 2016	Reports per Household <i>(minus top two/Households)</i>	Reports per Household <i>All Inclusive</i>
81	89	1	1.5



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., Assistant Airport Director* for more information regarding the PDK Good Neighbor Program.

# Complaints by the Hour

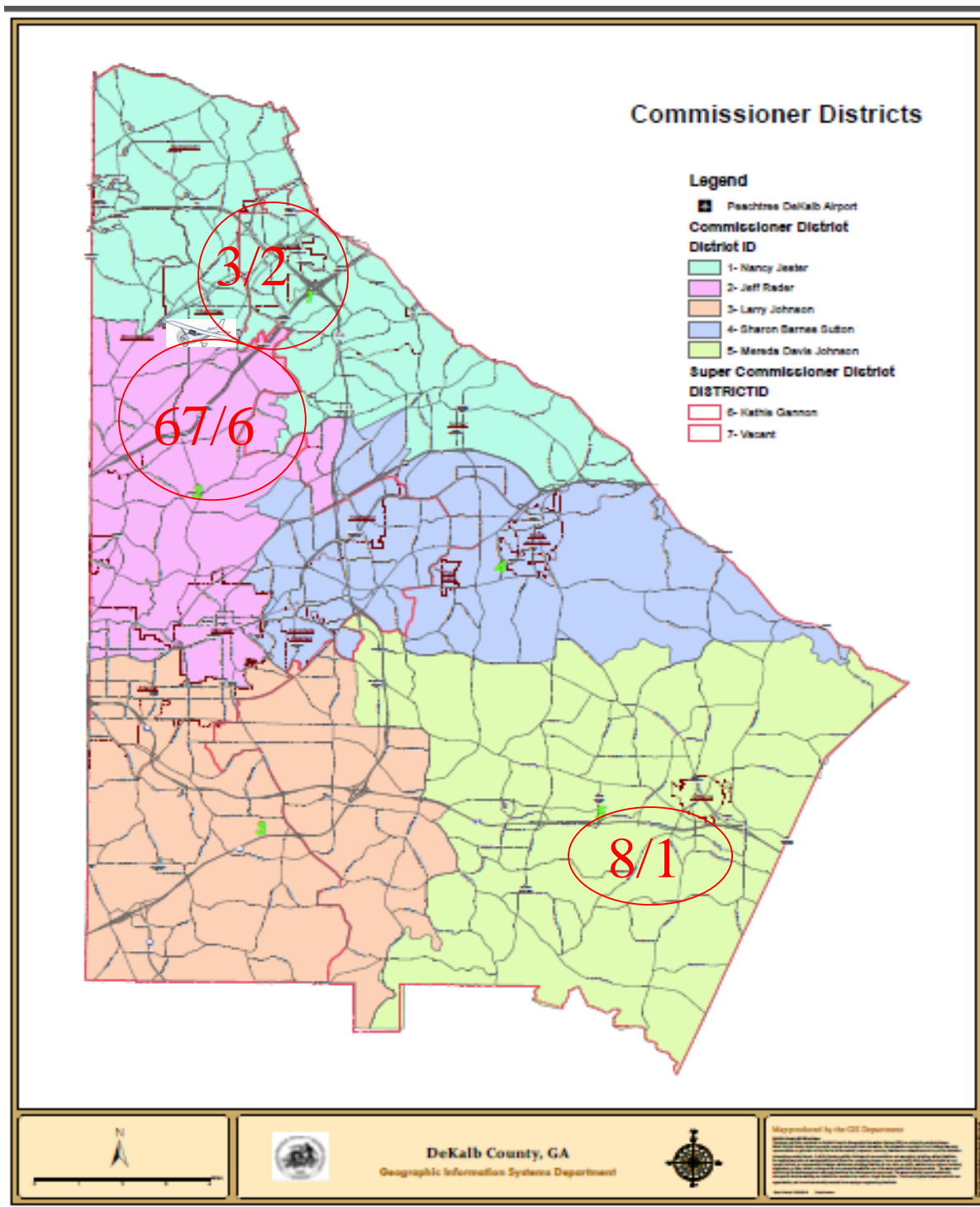


## Complainants by Caller

<b>Terry</b>	<b>2652 Cove Circle, N.E., Brookhaven</b>	<b>59</b>	<b>30319</b>
<b>Feldman</b>	<b>2376 Arrow Circle, Atlanta</b>	<b>4</b>	<b>30341</b>
<b>Flajon</b>	<b>3622 Carmel Rd., Chamblee</b>	<b>1</b>	<b>30341</b>
<b>Bealer</b>	<b>1984 Jordan Terrace, Atlanta</b>	<b>2</b>	<b>30345</b>
<b>Foretich</b>	<b>280 Willow Grade Point, Johns Creek</b>	<b>1</b>	<b>30022</b>
<b>Stovall</b>	<b>2517 Drew Valley Rd., Atlanta</b>	<b>1</b>	<b>30319</b>
<b>Brooks</b>	<b>2743 Redding Rd., NE, Atlanta</b>	<b>1</b>	<b>30319</b>
<b>Garner</b>	<b>3752 Ashton Dr., Chamblee</b>	<b>2</b>	<b>30341</b>
<b>Wright</b>	<b>5656 Bohemia Circle, Stone Mountain</b>	<b>8</b>	<b>30049</b>
<b>Anderson</b>	<b>2188 Clairmont Terrace, Atlanta</b>	<b>1</b>	<b>NA</b>
<b>Marlow</b>	<b>UNKNOWN</b>	<b>1</b>	<b>NA</b>
<b>Number of Complaints:</b>		<b>81</b>	
<b>Number of Complainants:</b>		<b>11</b>	



# Complaints per District



81 Total Number of Complaints / 11 Total Number of Complainants

\*\*\*Zero (0) Unknown Complainants; Two (2) Unknown Address with Two (2) Complaints listed; One (1) Known Address outside of the District with One (1) Complaint listed \*\*\*

## Correlation of noise complaints to operations (NOMS)

Name	Offense Start Reported	Flight Time Recorded	Rwy	Op	Equip	Flight ID	NMS	Lmax
Foretich	08/01/2016 11:15:14	08/01/2016 11:15:41	UNK	A	FA50	N50HN	NMS3	60.17
Terry	08/01/2016 22:08:36	NOT CORRELATED	-	-	-	-	-	-
Terry	08/01/2016 22:10:36	NOT CORRELATED	-	-	-	-	-	-
Terry	08/01/2016 17:01:56	08/01/2016 16:58:20	21L	D	LJ75	N40PC	UNK	UNK
Terry	08/02/2016 17:15:46	08/02/2016 17:12:54	UNK	A	C56X	N170SD	UNK	UNK
Wright	08/04/2016 18:18:02	08/04/2016 18:23:05	UNK	O	TBM8	N850WD	UNK	UNK
Terry	08/04/2016 20:38:12	08/04/2016 20:40:29	21L	A	UNK	N945CP	UNK	UNK
Terry	08/04/2016 20:38:12	08/04/2016 20:36:40	21L	A	B530	N7400PC	UNK	UNK
Terry	08/04/2016 20:39:01	08/04/2016 20:36:53	UNK	D	C208	N208LS	UNK	UNK
Terry	08/04/2016 20:43:02	NOT CORRELATED	-	-	-	-	-	-
Terry	08/04/2016 22:06:46	NOT CORRELATED	-	-	-	-	-	-
Terry	08/04/2016 22:08:23	NOT CORRELATED	-	-	-	-	-	-
Terry	08/04/2016 22:11:04	08/04/2016 22:10:12	UNK	D	GALX	N917DP	NMS3	-
Terry	08/04/2016 22:13:33	08/04/2016 22:16:17	UNK	D	UNK	UNK	NMS4	-
Terry	08/05/2016 08:51:00	08/05/2016 08:55:00	UNK	D	BE58	N58TG	-	-
Terry	08/05/2016 08:53:12	08/05/2016 08:57:11	UNK	O	FA10	N35CD	-	-
Terry	08/05/2016 15:51:05	08/05/2016 15:41:24	21L	A	C25A	N5235T	-	-
Terry	08/05/2016 15:53:48	08/05/2016 15:41:42	UNK	D	UNK	N60DC	-	-
Terry	08/05/2016 15:54:48	08/05/2016 15:59:58	UNK	D	BE20	N410RT	-	-
Terry	08/05/2016 16:44:01	08/05/2016 16:42:12	21L	UNK	UNK	UNK	-	-
Terry	08/05/2016 17:10:59	08/05/2016 17:04:30	UNK	A	C56X	UNK	-	-
Terry	08/05/2016 17:11:22	08/05/2016 17:02:00	UNK	O	CL30	UNK	-	-
Wright	08/05/2016 18:18:02	08/05/2016 18:19:12	UNK	O	EA50	N45DJ	-	-






Name	Offense Start Reported	Flight Time Recorded	Rwy	Op	Equip	Flight ID	NMS	Lmax
Terry	08/05/2016 23:22:28	08/05/2016 23:24:53	UNK	D	-	N208LS	-	-
Garner	08/06/2016 18:05:25	08/06/2016 18:18:19	03R	D	C560	N475JC	-	-
Wright	08/06/2016 18:18:02	08/06/2016 18:20:54	UNK	O	C750	EJA913	-	-
Wright	08/06/2016 18:19:02	08/06/2016 18:36:07	UNK	O	UNK	UNK	-	-
Wright	08/06/2016 18:20:02	08/06/2016 18:37:01	UNK	O	UNK	UNK	-	-
Terry	08/06/2016 23:32:05	08/06/2016 23:41:38	21L	D	UNK	N81771	NMS3	73.8
Terry	08/06/2016 23:54:02	08/06/2016 23:57:42	21R	UNK	SR22	N66OMK	NMS3	94.7
Terry	08/07/2016 13:51:02	08/07/2016 13:45:12	UNK	UNK	UNK	-	-	-
Terry	08/07/2016 14:23:21	08/07/2016 14:15:23	21L	D	UNK	N686AC	NMS3	79.7
Terry	08/07/2016 14:23:21	08/07/2016 14:17:20	21R	D	UNK	UNK	-	-
Terry	08/09/2016 18:21:26	08/09/2016 18:22:49	UNK	A	UNK	ANF743	NMS3	73
Terry	08/09/2016 18:24:26	08/09/2016 18:23:18	UNK	A	C56X	N186XL	NMS3	71.6
Terry	08/09/2016 18:27:41	08/09/2016 18:24:59	UNK	D	LJ45	RIX617	-	-
Terry	08/09/2016 18:33:13	08/09/2016 18:21:24	21R	A	PC12	N401SM	-	-
Terry	08/09/2016 20:55:03	08/09/2016 20:22:13	UNK	A	BE40	UNK	-	-
Terry	08/09/2016 21:29:00	08/09/2016 21:28:04	21L	D	UNK	N18841	NMS3	76.1
Terry	08/09/2016 21:58:02	08/09/2016 21:51:35	21L	A	UNK	EJA347	-	-
Bealer	08/11/2016 23:15:06	08/11/2016 23:10:56	21L	D	GLF4	N904TS	NMS3	78.7
Bealer	08/11/2016 23:18:59	08/11/2016 23:08:27	21L	D	GLEK	N789RR	-	-
Wright	08/13/2016 10:38:09	08/13/2016 10:18:51	21R	D	UNK	N18WD	NMS3	73.1
Feldman	08/13/2016 10:38:09	08/13/2016 10:36:30	21L	A	GLF4	N102AK	NMS3	70.2
Wright	08/13/2016 18:30:05	08/13/2016 18:32:45	UNK	O	SR22	N322MC	NMS3	67.5
Wright	08/13/2016 18:30:07	08/13/2016 18:36:45	UNK	O	SR22	N322MC	NMS3	67.5
Terry	08/14/2016 09:04:26	08/14/2016 09:01:33	UNK	D	E50P	N37RN	-	-

Terry	08/14/2016 09:04:26	08/14/2016 09:03:51	21R	D	UNK	N81771	NMS3	69.2
Name	Offense Start Reported	Flight Time Recorded	Rwy	Op	Equip	Flight ID	NMS	Lmax
Feldman	08/16/2016 22:52:26	08/16/2016 22:51:54	21R	D	UNK	UNK	UNK	-
Feldman	08/16/2016 22:53:26	08/16/2016 22:56:02	21R	D	UNK	UNK	UNK	-
Feldman	08/17/2016 17:10:19	08/17/2016 17:10:36	21L	D	LJ75	N16PC	NMS3	73.1
Terry	08/17/2016 17:19:27	08/17/2016 17:18:37	UNK	D	FA50	N512JB	NMS3	80.6
Terry	08/17/2016 17:20:17	08/17/2016 17:30:50	UNK	D	UNK	UNK	UNK	UNK
Terry	08/17/2016 17:45:44	08/17/2016 17:47:02	21L	D	GLF4	N500PC	UNK	UNK
Terry	08/17/2016 23:20:02	08/17/2016 23:19:39	UNK	D	UNK	N885EW	UNK	UNK
Terry	08/17/2016 23:22:02	08/17/2016 23:19:39	UNK	D	UNK	N885EW	UNK	UNK
Terry	08/18/2016 14:30:18	08/18/2016 14:33:49	UNK	D	PC12	UNK	UNK	UNK
Terry	08/18/2016 20:00:05	08/18/2016 20:04:20	E509	D	E50P	N700AJ	NMS3	74.8
Marlow	08/18/2016 20:00:05	08/18/2016 20:05:25	UNK	D	UNK	UNK	NMS3	76.8
Terry	08/18/2016 20:26:23	08/18/2016 20:47:05	UNK	D	PC12	CNS181	-	-
Terry	08/19/2016 06:54:02	08/19/2016 06:55:55	UNK	D	C560	N933SP	-	-
Terry	08/19/2016 07:49:43	08/19/2016 07:37:09	UNK	D	PC12	N228JD	NMS3	70.5
Terry	08/19/2016 07:49:43	08/19/2016 07:50:15	UNK	D	SR22	N32MC	-	-
Terry	08/19/2016 21:08:16	08/19/2016 21:04:17	21L	D	UNK	UNK	-	-
Terry	08/19/2016 21:15:03	08/19/2016 21:25:18	21L	D	PA31	N312CD	NMS3	67.1
Terry	08/19/2016 21:16:53	08/19/2016 21:24:20	21R	D	UNK	UNK	-	-
Terry	08/20/2016 08:50:02	08/20/2016 08:55:23	21L	D	C172	N73924	NMS3	68.2
Terry	08/21/2016 21:42:26	08/21/2016 21:33:16	21L	D	UNK	N872UP	NMS3	74.1
Terry	08/21/2016 21:44:26	08/21/2016 21:48:02	UNK	D	SR22	NN597CP	NMS3	71.2
Terry	08/27/2016 21:44:26	08/27/2106 21:42:37	21L	UNK	UNK	UNK	-	-
Terry	08/27/2016 09:04:02	08/27/2016 09:08:07	21L	D	C56X	EJA655	NMS3	72.2

Stovall	08/27/2016 10:03:43	08/27/2016 10:09:05	21L	UNK	UNK	UNK	-	-
Terry	08/27/2016 11:15:48	08/27/2016 11:10:27	21R	D	UNK	N103AV	NMS3	81.5
Name	Offense Start Reported	Flight Time Recorded	Rwy	Op	Equip	Flight ID	NMS	Lmax
Terry	08/27/2016 11:17:44	08/27/2016 11:14:46	21R	D	H25B	UNK	-	-
Terry	08/27/2016 12:55:03	08/27/2016 12:54:39	21R	D	-	N214HL	NMS3	80.1
Anderson	08/28/2016 12:55:03	08/28/2016 12:49:39	03L	D	-	N599M	NMS3	85.9
Brooks	08/28/2016 19:47:18	08/28/2016 19:43:30	03L	D	UNK	UNK	NMS3	84
Flajon	08/31/2016 16:17:03	08/31/2016 16:15:13	03L	D	UNK	N599M	NMS3	-
Terry	08/31/2016 22:35:25	08/31/2016 22:46:55	UNK	D	PRD9	RGLF4	-	-

### Legend:

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

The airport correlated **81; 73 (90%)** of the noise complaints to be **direct** correlations. Of the **81** noise complaints, **3 (4%)** were **indirect** correlations to operations and **5 (6%)** 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**pproach **D**eparture **O**verflight

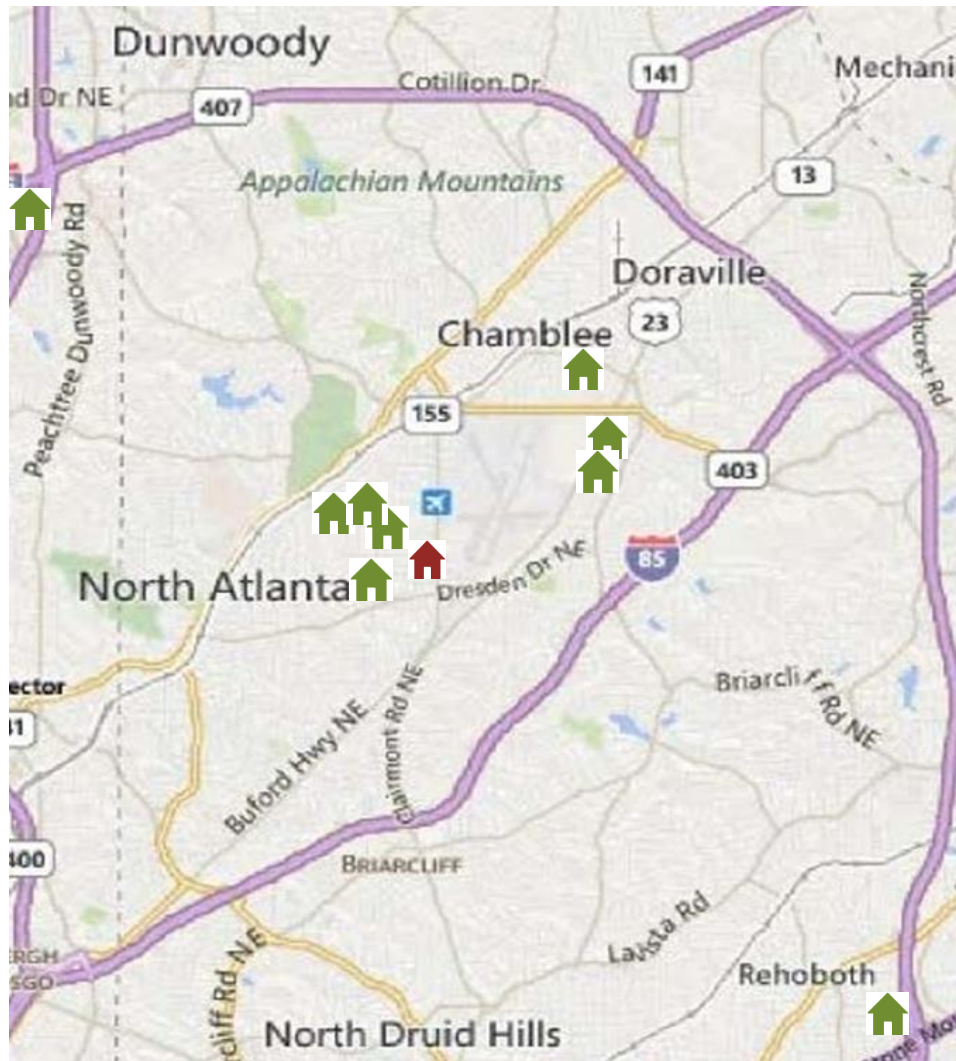
**Equip:** Type Aircraft




**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

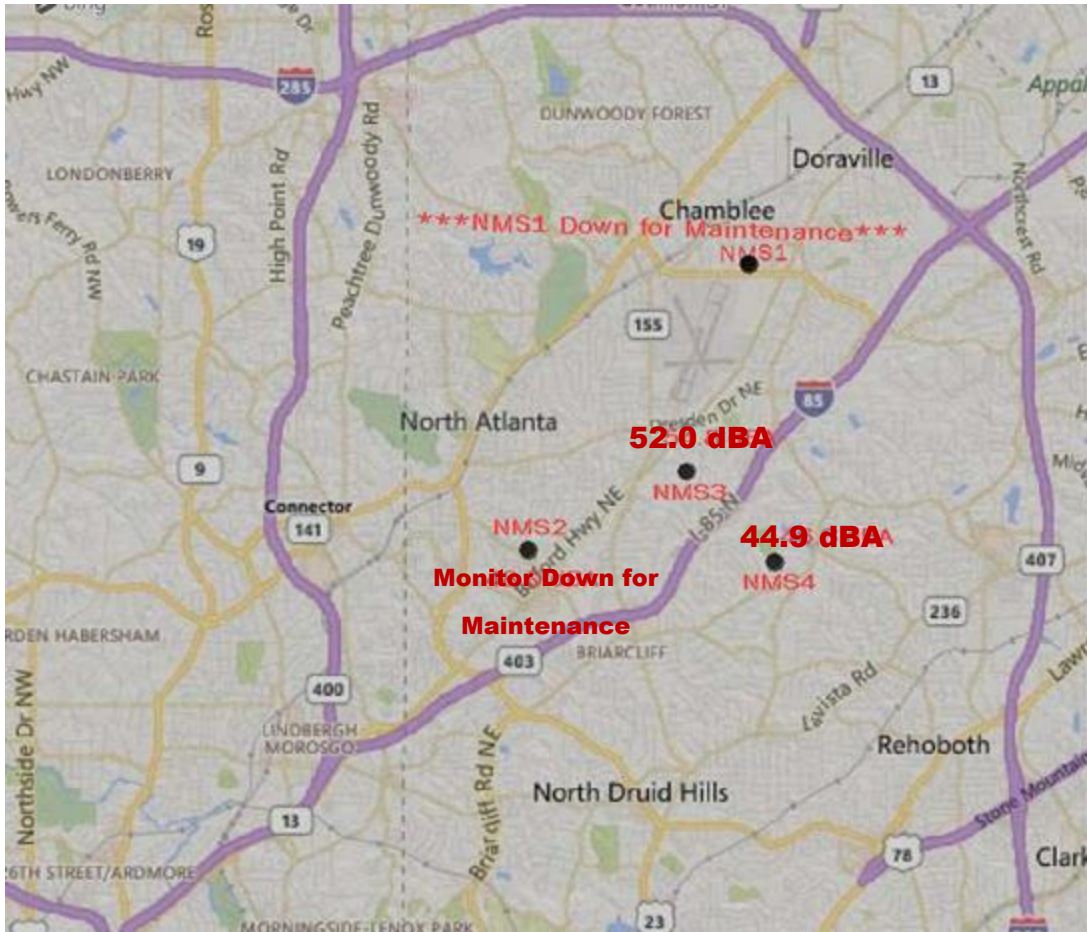




  
 < or = 4    > & < 8    >

\*\*\***One (1)** Unknown Complainant Address; Also, **Two (2)** Complainants with Addresses Outside Disturbance Area.

(Total: **Eleven (11)** Complainants / **Eight (8)** 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 **290 (89%)** of the **327** operations during the voluntary curfew period (11 PM-6 AM) during the month of August **2016**; **202** of the **327** operations were identified as MEDEVAC and/or emergency flights.

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

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

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

**290** 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.

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

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

**81** complaints were received during **August, 2016**.

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

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

15 Aircraft with 2 operations ( 897CW, 921BA, 928CS, 971PD, 555WZ, 769SD, 750CK, 735XL, 60PC, 203GT, 194TR, 203GT, 371CF, **771MG, 77WY**)

5 Aircraft with 3 Operations (112WJ, 376SP, 732WB, 510MG, 4428U)

3 Aircraft with 4 Operations (9362M, 258MR, 365LH)

2 Aircraft with 6 Operations (5208K, 891AA)

1 Aircraft with 5 Operations (**626DS**)

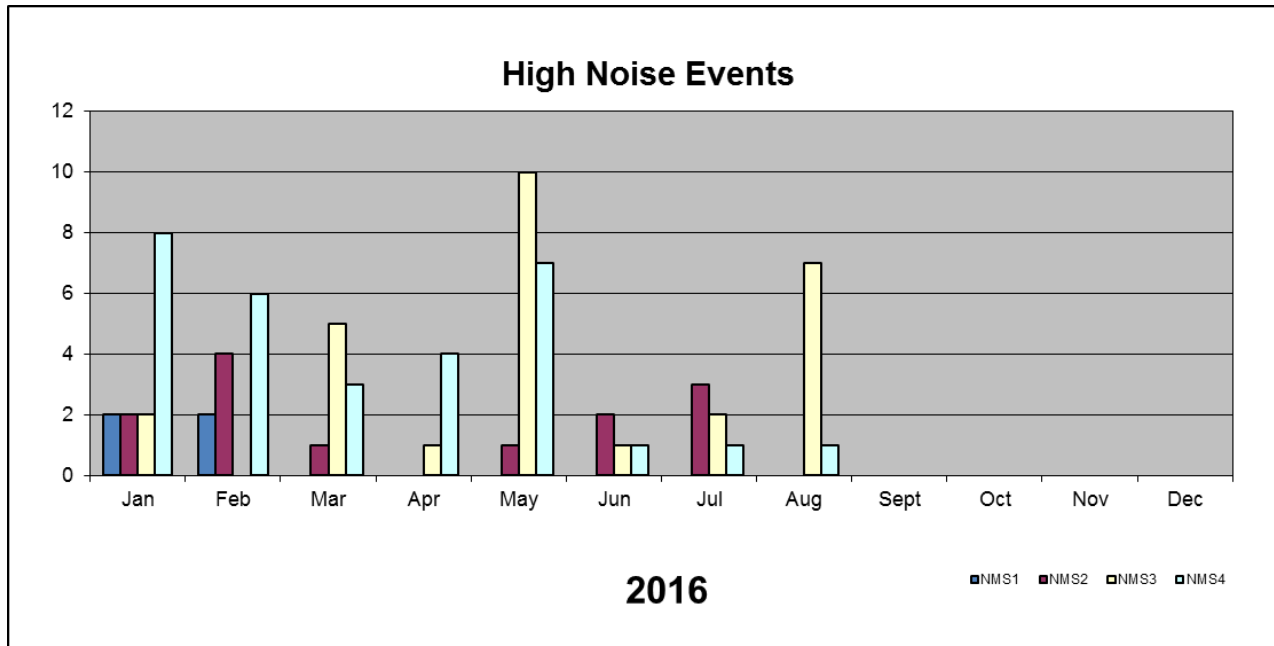
2 Aircraft with 10 Operations (**677ST, 683DA**)

**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.



## July (N#s)

6 Aircraft with 1 High Noise Events (N2AQ, N6919J, UNKNOWN, N892M, 44828U, 904P)

## August (N#s)

2 Aircraft with 1 High Noise Events (N660MK, 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 [pdnoise@dekalbcountyga.gov](mailto:pdnoise@dekalbcountyga.gov). Follow us on Facebook: 