



METROPOLITAN WASHINGTON  
AIRPORTS AUTHORITY

2012 Annual Aircraft Noise Report  
for  
Washington Dulles International Airport (IAD)  
and  
Ronald Reagan Washington National Airport (DCA)

In 2012, Washington Dulles International Airport and Ronald Reagan Washington National Airport served approximately 42 million passengers and handled over 600 thousand flight operations.\* The Metropolitan Washington Airports Authority, operator of both airports, frequently receives inquiries about flight operations and aircraft noise. This report provides information regarding flight operations, monitored noise levels, and community complaint statistics associated with Washington Dulles and Reagan National Airports.

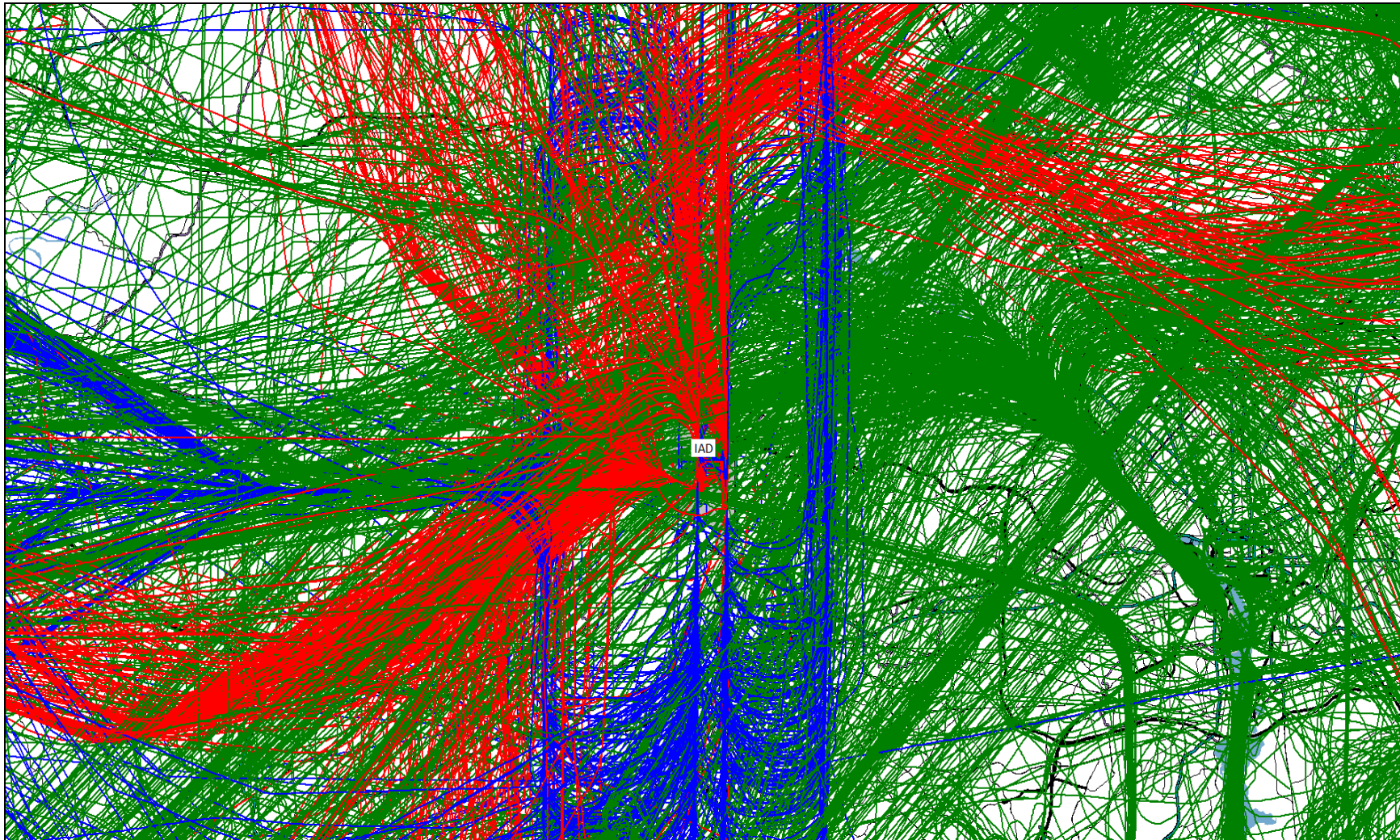
Typical Daily Flight Tracks

On a typical day over 5,000 airplanes will fly in the skies over the Washington region. Most of these flights are to, or from, Washington Dulles, Reagan National, Baltimore Washington, or Andrews Air Force Base. Many flight operations occur at the numerous general aviation airfields in the region. Included are two flight track maps (Figures 1 and 2) which each depict 24-hours of flight activity at each airport. Red lines represent departures, blue lines represent arrivals, and green lines represent overflights that are not using the airport in the figure.

\* For Air Traffic Statistics: visit [www.mwaa.com](http://www.mwaa.com); select IAD or DCA; Air Traffic Statistics.



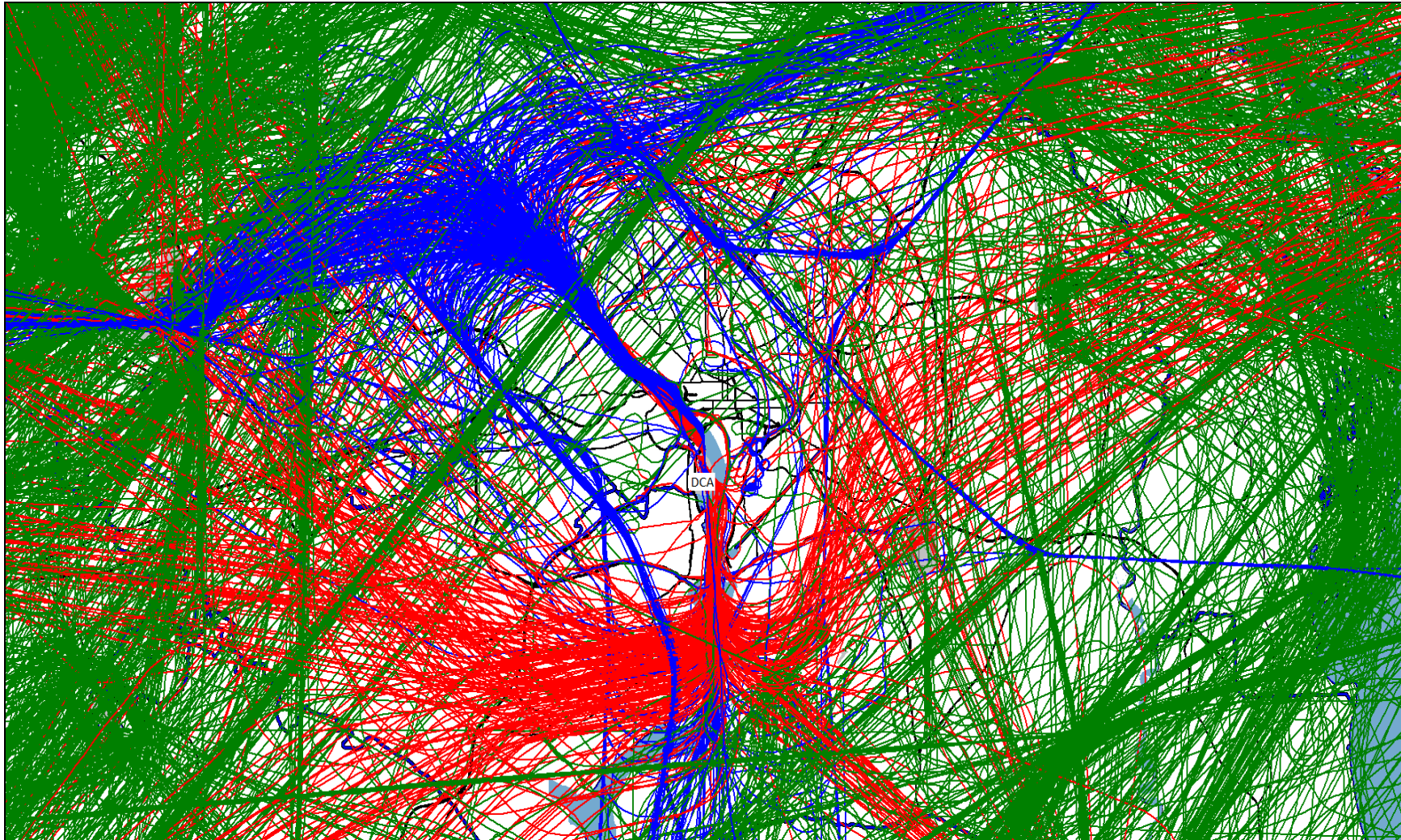
**Figure 1 - Washington Dulles International Airport: Typical 24-hour, mixed flow operations (5772 tracks).**  
Arrivals are in **Blue (549 tracks)**, departures are in **Red (580 tracks)**, and overflights are in **Green (4643 tracks)**.







**Figure 2 – Ronald Reagan Washington National Airport: Typical 24-hour, mixed flow operations (5845 tracks). Arrivals are in Blue (377 tracks), departures are in Red (384 tracks), and overflights are in Green (5084 tracks).**





## Regional Noise Levels

The Airports Authority continuously monitors aircraft and community noise levels for both airports at 35 locations (see Figures 3 and 4). The noise monitoring equipment records noise events and system software analyzes each event to determine whether it was likely caused by an aircraft or the community.

There are several metrics commonly used to evaluate noise. For this report, all noise levels are displayed in DNL. DNL is the day-night average sound level in “A” weighted decibels (dBA). DNL is a 24-hour average that accounts for the maximum levels of noise, the duration of each noise event, and the time each noise event occurred. Each noise event that occurs between 10 pm and 7 am is increased by 10 dB to account for the increased annoyance normally associated with night time noise. This is the Federal Aviation Administration’s preferred metric and is the standard metric for assessing the impact of aircraft noise exposure around airports in the United States.

This report provides three different DNL values for each site. The data in the “Total DNL” column is the logarithmic sum of the aircraft and community DNL noise values. The “Aircraft DNL” column shows the average noise level likely contributed by aircraft operating in the vicinity of the noise monitoring equipment and the “Community DNL” column shows the noise caused by other noise sources in the community.

Noise data may not always be available from a particular site due to technical issues associated with the noise monitoring equipment, software, power, communications, and other environmental factors. Data will be excluded when data integrity is compromised. The following data has been excluded from the 2012 report.

### **2012 Excluded Data:**

- **Site 2:** Jul excluded due to microphone calibration issues.
- **Site 8:** Sep-Oct excluded due to phone line issues.
- **Site 11:** May excluded due to microphone calibrations.
- **Site 14:** Aug-Nov excluded due to pest-related hardware issues.
- **Site 16:** Sep -Nov excluded due to microphone calibration issues.
- **Site 18:** Aug-Dec excluded due to firmware issues
- **Site 20:** Oct excluded due to firm ware issues.
- **Site 21:** Aug-Oct excluded due to firm ware issues.
- **Site 24:** Aug-Oct excluded due to firm ware issues.
- **Site 29:** Jan-Mar excluded due to hardware issues.
- **Site 30:** Oct-Dec excluded due to vandalism.
- **Site 39:** Jan-Mar excluded due to hardware issues.
- **Site 40:** Oct excluded due to phone line issues.





# METROPOLITAN WASHINGTON AIRPORTS AUTHORITY

**Figure 3 –Washington Dulles Noise Monitors**



<u>Site</u>	<u>Location</u>
13	Broad Run Farms
14	Arcola
15	Guilford Elementary School
16	Pleasant Valley
18	Ashburn Elementary School
21	Cub Run Elementary School
24	Floris Elementary School
25	Chantilly Post Office
26	Algonkian Elementary School
27	Broad Run High School
28	Aldie Elementary School
29	Union Mill Elementary School
30	London Towne Elementary School
33	Virginia Run Elementary School
34	Westfield High School
35	Crossfield Elementary School
36	Armstrong Elementary School
37	Mercer Middle School
38	Briar Woods High School
39	Stone Bridge High School
40	Sycolin Creek Elementary School



Site #	2012 Month	DNL	DNL-ac	DNL-c
13	Jan	60.1	48.5	59.8
13	Feb	57.6	48.5	57.1
13	Mar	58.4	51.1	57.5
13	Apr	57.8	48.2	57.3
13	May	60.0	50.3	59.5
13	Jun	57.9	49.9	57.1
13	Jul	61.7	51.5	61.2
13	Aug	64.1	50.3	63.9
13	Sep	64.1	50.1	63.9
13	Oct	60.3	51.1	59.7
13	Nov	56.9	46.7	56.5
13	Dec	57.4	48.5	56.8

14	Jan	96.9	62.9	96.9
14	Feb	71.9	63.5	71.2
14	Mar	71.9	63.5	71.2
14	Apr	71.9	63.0	71.3
14	May	72.2	63.4	71.6
14	Jun	72.7	64.4	72.0
14	Jul	72.3	62.8	71.8
14	Aug	NA	NA	NA
14	Sep	NA	NA	NA
14	Oct	NA	NA	NA
14	Nov	NA	NA	NA
14	Dec	72.3	62.8	71.8

15	Jan	59.7	44.1	59.6
15	Feb	59.9	41.6	59.9
15	Mar	60.6	43.3	60.6
15	Apr	60.2	46.5	60.0
15	May	62.9	48.8	62.7
15	Jun	63.4	44.9	63.4
15	Jul	62.9	40.8	62.9
15	Aug	66.2	43.3	66.2
15	Sep	62.7	46.5	62.6
15	Oct	61.7	44.9	61.6
15	Nov	65.3	51.2	65.2
15	Dec	67.6	53.8	67.4

**DNL (Day-Night Level)** is the average noise level of a 24-hour period. DNL accounts for the peak noise levels, noise event duration, and the time a noise event occurred. Noise events occurring between 10 pm and 7 am are artificially increased by 10 dB to account for increased annoyance associated with night time noise.



Site #	2012 Month	DNL	DNL-ac	DNL-c
16	Jan	57.0	50.6	55.8
16	Feb	56.8	47.8	56.2
16	Mar	58.8	51.3	58.0
16	Apr	61.2	52.1	60.7
16	May	61.8	54.4	60.9
16	Jun	59.5	49.9	59.0
16	Jul	63.8	51.0	63.6
16	Aug	66.2	54.2	65.9
16	Sep	NA	NA	NA
16	Oct	NA	NA	NA
16	Nov	NA	NA	NA
16	Dec	56.7	44.2	56.4

18	Jan	68.0	57.9	67.6
18	Feb	68.6	59.5	68.0
18	Mar	69.2	62.7	68.0
18	Apr	68.2	56.9	67.8
18	May	68.7	55.4	68.5
18	Jun	61.7	46.5	61.6
18	Jul	60.3	49.4	60.0
18	Aug	NA	NA	NA
18	Sep	NA	NA	NA
18	Oct	NA	NA	NA
18	Nov	NA	NA	NA
18	Dec	NA	NA	NA

21	Jan	58.3	50.8	57.5
21	Feb	58.4	51.3	57.5
21	Mar	59.0	51.7	58.1
21	Apr	59.9	53.4	58.9
21	May	60.2	52.1	59.4
21	Jun	55.3	45.1	54.9
21	Jul	59.3	51.8	58.5
21	Aug	NA	NA	NA
21	Sep	NA	NA	NA
21	Oct	NA	NA	NA
21	Nov	64.9	59.5	63.4
21	Dec	66.1	62.1	63.9

DNL (Day-Night Level) is the average noise level of a 24-hour period. DNL accounts for the peak noise levels, noise event duration, and the time a noise event occurred. Noise events occurring between 10 pm and 7 am are artificially increased by 10 dB to account for increased annoyance associated with night time noise.



Site #	2012 Month	DNL	DNL-ac	DNL-c
24	Jan	59.3	43.2	59.2
24	Feb	60.3	47.5	60.1
24	Mar	60.3	51.1	59.7
24	Apr	59.7	45.0	59.5
24	May	61.2	43.9	61.2
24	Jun	62.5	51.3	62.1
24	Jul	62.3	44.2	62.3
24	Aug	NA	NA	NA
24	Sep	NA	NA	NA
24	Oct	NA	NA	NA
24	Nov	67.3	52.9	67.1
24	Dec	63.5	48.3	63.3

25	Jan	63.1	56.1	62.1
25	Feb	63.5	57.4	62.2
25	Mar	63.6	56.8	62.6
25	Apr	63.8	57.0	62.8
25	May	65.4	57.2	64.7
25	Jun	64.1	56.8	63.2
25	Jul	63.4	57.2	62.2
25	Aug	63.8	57.2	62.8
25	Sep	63.3	56.8	62.2
25	Oct	63.4	56.6	62.4
25	Nov	63.8	57.1	62.7
25	Dec	64.0	57.5	62.9

26	Jan	58.1	42.3	58.0
26	Feb	59.6	40.3	59.5
26	Mar	58.7	40.8	58.7
26	Apr	58.0	41.4	57.9
26	May	61.0	37.7	61.0
26	Jun	60.1	40.3	60.1
26	Jul	60.3	41.5	60.3
26	Aug	59.5	41.8	59.5
26	Sep	59.1	39.8	59.1
26	Oct	59.5	41.3	59.5
26	Nov	57.2	37.7	57.1
26	Dec	59.5	39.5	59.5

**DNL (Day-Night Level)** is the average noise level of a 24-hour period. DNL accounts for the peak noise levels, noise event duration, and the time a noise event occurred. Noise events occurring between 10 pm and 7 am are artificially increased by 10 dB to account for increased annoyance associated with night time noise.





Site #	2012 Month	DNL	DNL-ac	DNL-c
27	Jan	57.2	44.7	56.9
27	Feb	58.8	47.5	58.5
27	Mar	56.9	44.5	56.6
27	Apr	56.5	42.9	56.4
27	May	58.7	39.5	58.7
27	Jun	57.8	40.6	57.7
27	Jul	56.7	39.5	56.7
27	Aug	58.2	44.2	58.0
27	Sep	57.9	45.4	57.7
27	Oct	60.3	53.4	59.4
27	Nov	56.2	42.4	56.0
27	Dec	57.1	43.3	56.9

28	Jan	52.8	28.4	52.7
28	Feb	53.0	34.0	53.0
28	Mar	54.7	34.5	54.7
28	Apr	53.9	29.5	53.9
28	May	57.2	31.9	57.2
28	Jun	57.7	30.1	57.7
28	Jul	55.3	37.1	55.3
28	Aug	58.1	37.1	58.1
28	Sep	58.4	36.5	58.4
28	Oct	56.2	38.6	56.1
28	Nov	53.7	38.4	53.6
28	Dec	53.6	37.4	53.5

29	Jan	NA	NA	NA
29	Feb	NA	NA	NA
29	Mar	NA	NA	NA
29	Apr	57.5	51.5	56.2
29	May	61.5	44.1	61.4
29	Jun	63.4	46.5	63.3
29	Jul	63.9	39.8	63.9
29	Aug	61.4	41.3	61.4
29	Sep	61.7	40.9	61.7
29	Oct	58.3	41.0	58.3
29	Nov	55.7	42.6	55.5
29	Dec	56.6	41.6	56.4

**DNL (Day-Night Level)** is the average noise level of a 24-hour period. DNL accounts for the peak noise levels, noise event duration, and the time a noise event occurred. Noise events occurring between 10 pm and 7 am are artificially increased by 10 dB to account for increased annoyance associated with night time noise.



Site #	2012 Month	DNL	DNL-ac	DNL-c
30	Jan	59.1	47.6	58.8
30	Feb	59.8	49.1	59.4
30	Mar	59.7	48.2	59.3
30	Apr	59.8	48.8	59.4
30	May	63.3	50.2	63.1
30	Jun	61.0	49.1	60.7
30	Jul	61.1	49.6	60.7
30	Aug	72.3	68.9	69.7
30	Sep	61.4	39.7	61.4
30	Oct	NA	NA	NA
30	Nov	NA	NA	NA
30	Dec	NA	NA	NA

33	Jan	59.3	36.7	59.2
33	Feb	59.7	41.2	59.7
33	Mar	59.6	38.8	59.6
33	Apr	58.2	37.8	58.1
33	May	64.2	45.4	64.2
33	Jun	58.6	38.4	58.6
33	Jul	59.6	37.3	59.6
33	Aug	59.2	38.2	59.2
33	Sep	59.0	42.1	58.9
33	Oct	59.3	40.7	59.2
33	Nov	58.3	42.3	58.2
33	Dec	58.4	40.0	58.3

34	Jan	61.3	56.3	59.7
34	Feb	63.0	57.6	61.5
34	Mar	61.2	57.0	59.2
34	Apr	61.6	58.2	58.9
34	May	61.7	57.9	59.4
34	Jun	62.9	57.7	61.3
34	Jul	61.7	57.9	59.3
34	Aug	60.8	56.9	58.5
34	Sep	61.3	57.2	59.1
34	Oct	63.0	57.5	61.6
34	Nov	62.6	59.0	60.2
34	Dec	62.8	58.7	60.6

**DNL (Day-Night Level)** is the average noise level of a 24-hour period. DNL accounts for the peak noise levels, noise event duration, and the time a noise event occurred. Noise events occurring between 10 pm and 7 am are artificially increased by 10 dB to account for increased annoyance associated with night time noise.



Site #	2012 Month	DNL	DNL-ac	DNL-c
35	Jan	58.9	35.6	58.9
35	Feb	58.6	38.4	58.5
35	Mar	62.6	36.5	62.6
35	Apr	69.3	45.3	69.3
35	May	64.6	48.9	64.5
35	Jun	68.4	42.3	68.3
35	Jul	67.4	51.5	67.3
35	Aug	66.5	50.5	66.4
35	Sep	58.2	37.2	58.2
35	Oct	59.0	36.4	59.0
35	Nov	59.7	40.7	59.6
35	Dec	60.9	39.6	60.8

36	Jan	59.3	32.4	59.3
36	Feb	59.9	37.8	59.8
36	Mar	59.2	37.5	59.1
36	Apr	59.2	37.3	59.2
36	May	61.1	43.6	61.0
36	Jun	60.4	38.7	60.4
36	Jul	59.3	32.0	59.3
36	Aug	67.2	35.2	67.2
36	Sep	67.2	36.6	67.2
36	Oct	67.3	35.7	67.3
36	Nov	69.0	43.0	69.0
36	Dec	69.2	44.6	69.2

37	Jan	59.4	54.9	57.6
37	Feb	61.3	57.1	59.2
37	Mar	59.9	55.1	58.2
37	Apr	60.4	56.2	58.3
37	May	60.4	55.8	58.6
37	Jun	61.0	56.6	59.0
37	Jul	59.2	55.7	56.7
37	Aug	59.6	55.7	57.2
37	Sep	59.3	54.1	57.7
37	Oct	61.4	54.2	60.5
37	Nov	59.4	55.3	57.3
37	Dec	59.7	53.7	58.5

**DNL (Day-Night Level)** is the average noise level of a 24-hour period. DNL accounts for the peak noise levels, noise event duration, and the time a noise event occurred. Noise events occurring between 10 pm and 7 am are artificially increased by 10 dB to account for increased annoyance associated with night time noise.





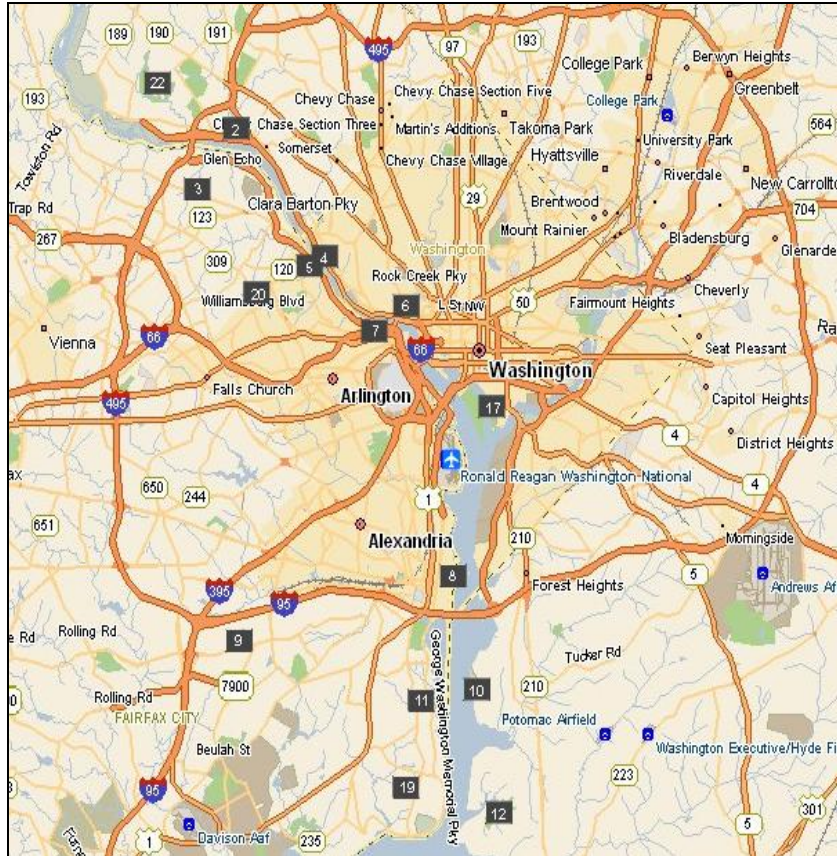
Site #	2012 Month	DNL	DNL-ac	DNL-c
38	Jan	61.1	54.2	60.1
38	Feb	63.0	55.2	62.2
38	Mar	59.3	51.0	58.6
38	Apr	58.8	51.1	58.0
38	May	58.8	52.6	57.6
38	Jun	61.1	49.4	60.7
38	Jul	57.4	48.3	56.9
38	Aug	58.3	48.9	57.8
38	Sep	58.4	51.0	57.5
38	Oct	62.0	49.9	61.8
38	Nov	58.0	50.2	57.2
38	Dec	59.3	50.3	58.8

39	Jan	NA	NA	NA
39	Feb	NA	NA	NA
39	Mar	NA	NA	NA
39	Apr	59.6	46.1	59.4
39	May	64.4	43.2	64.4
39	Jun	65.6	44.5	65.6
39	Jul	60.8	41.8	60.7
39	Aug	60.8	44.9	60.6
39	Sep	59.1	44.3	59.0
39	Oct	60.0	43.7	59.9
39	Nov	58.1	43.9	58.0
39	Dec	58.7	43.6	58.6

40	Jan	55.2	42.9	54.9
40	Feb	56.0	43.2	55.7
40	Mar	56.1	45.3	55.7
40	Apr	55.1	40.1	55.0
40	May	58.2	44.2	58.0
40	Jun	56.8	42.0	56.7
40	Jul	57.3	42.5	57.1
40	Aug	57.3	42.7	57.2
40	Sep	56.9	39.2	56.9
40	Oct	NA	NA	NA
40	Nov	54.1	41.8	53.8
40	Dec	55.8	41.3	55.6

**DNL (Day-Night Level)** is the average noise level of a 24-hour period. DNL accounts for the peak noise levels, noise event duration, and the time a noise event occurred. Noise events occurring between 10 pm and 7 am are artificially increased by 10 dB to account for increased annoyance associated with night time noise.

**Figure 4 – Reagan National Noise Monitors**



<u>Site</u>	<u>Location</u>
<b>2</b>	Cabin John
<b>3</b>	Langley Forest
<b>4</b>	Potomac Palisades
<b>5</b>	Chain Bridge
<b>6</b>	Georgetown
<b>7</b>	Rosslyn
<b>8</b>	Old Town
<b>9</b>	Springfield
<b>10</b>	Fort Foote
<b>11</b>	Marlan Forest
<b>12</b>	Tantallon
<b>17</b>	Southwest, D.C.
<b>19</b>	North Mt. Vernon
<b>20</b>	Dumbarton
<b>22</b>	Avenel
<b>23</b>	Great Falls Elementary School – retired



Site #	2012 Month	DNL	DNL-ac	DNL-c
2	Jan	56.8	42.6	56.7
2	Feb	57.2	43.1	57.0
2	Mar	57.9	45.5	57.6
2	Apr	58.5	43.8	58.4
2	May	64.4	47.1	64.4
2	Jun	66.4	42.1	66.4
2	Jul	NA	NA	NA
2	Aug	64.4	41.5	64.4
2	Sep	62.5	39.6	62.5
2	Oct	59.5	41.2	59.4
2	Nov	57.9	42.6	57.8
2	Dec	57.5	41.8	57.4

3	Jan	55.5	41.0	55.4
3	Feb	55.6	43.8	55.3
3	Mar	55.8	43.6	55.5
3	Apr	57.0	46.6	56.6
3	May	59.1	49.8	58.5
3	Jun	58.1	45.2	57.9
3	Jul	59.8	47.5	59.5
3	Aug	64.0	46.3	63.9
3	Sep	61.8	47.1	61.6
3	Oct	59.7	48.0	59.3
3	Nov	59.3	46.1	59.1
3	Dec	57.0	46.9	56.5

4	Jan	61.8	54.6	60.9
4	Feb	61.1	54.7	60.0
4	Mar	62.1	54.9	61.2
4	Apr	68.7	55.5	68.5
4	May	73.7	59.6	73.5
4	Jun	66.2	55.0	65.9
4	Jul	61.8	53.7	61.0
4	Aug	64.4	55.3	63.8
4	Sep	69.5	57.0	69.2
4	Oct	61.6	54.4	60.6
4	Nov	63.9	55.7	63.2
4	Dec	60.9	54.9	59.7

**DNL (Day-Night Level)** is the average noise level of a 24-hour period. DNL accounts for the peak noise levels, noise event duration, and the time a noise event occurred. Noise events occurring between 10 pm and 7 am are artificially increased by 10 dB to account for increased annoyance associated with night time noise.





Site #	2012 Month	DNL	DNL-ac	DNL-c
5	Jan	60.4	52.8	59.6
5	Feb	61.2	54.4	60.2
5	Mar	62.1	54.5	61.2
5	Apr	61.5	53.5	60.7
5	May	62.3	55.6	61.2
5	Jun	61.8	54.5	60.9
5	Jul	62.3	54.0	61.6
5	Aug	64.8	55.1	64.3
5	Sep	63.4	54.6	62.7
5	Oct	61.9	54.6	61.0
5	Nov	61.8	54.4	61.0
5	Dec	61.3	54.3	60.4

6	Jan	61.2	51.4	60.7
6	Feb	61.2	51.9	60.6
6	Mar	63.3	53.1	62.8
6	Apr	65.1	53.8	64.8
6	May	65.6	51.6	65.4
6	Jun	64.5	48.3	64.4
6	Jul	63.0	48.0	62.9
6	Aug	63.8	50.6	63.6
6	Sep	63.6	53.3	63.2
6	Oct	62.8	49.6	62.6
6	Nov	60.8	50.3	60.4
6	Dec	60.1	49.2	59.7

7	Jan	62.3	57.8	60.4
7	Feb	62.6	58.5	60.4
7	Mar	64.3	59.3	62.6
7	Apr	68.8	60.4	68.1
7	May	66.9	60.0	65.9
7	Jun	64.6	59.6	63.0
7	Jul	64.9	59.6	63.3
7	Aug	67.5	60.4	66.5
7	Sep	66.2	59.4	65.2
7	Oct	64.1	59.9	61.9
7	Nov	65.2	60.7	63.2
7	Dec	63.4	60.0	60.7

**DNL (Day-Night Level)** is the average noise level of a 24-hour period. DNL accounts for the peak noise levels, noise event duration, and the time a noise event occurred. Noise events occurring between 10 pm and 7 am are artificially increased by 10 dB to account for increased annoyance associated with night time noise.



Site #	2012 Month	DNL	DNL-ac	DNL-c
8	Jan	62.1	56.3	60.8
8	Feb	62.3	57.1	60.7
8	Mar	62.3	57.0	60.8
8	Apr	62.4	57.1	60.9
8	May	63.9	58.9	62.2
8	Jun	62.8	57.6	61.2
8	Jul	62.6	56.4	61.4
8	Aug	63.6	58.2	62.1
8	Sep	NA	NA	NA
8	Oct	NA	NA	NA
8	Nov	61.7	54.8	60.7
8	Dec	62.2	57.3	60.5

9	Jan	59.3	39.3	59.3
9	Feb	59.8	41.6	59.8
9	Mar	60.1	42.8	60.0
9	Apr	61.0	40.9	61.0
9	May	63.7	49.0	63.5
9	Jun	61.4	39.7	61.4
9	Jul	59.7	37.4	59.7
9	Aug	61.6	40.3	61.6
9	Sep	62.0	38.6	62.0
9	Oct	62.5	41.0	62.5
9	Nov	61.0	47.3	60.9
9	Dec	59.9	43.1	59.8

10	Jan	61.4	52.8	60.8
10	Feb	61.8	54.0	61.0
10	Mar	61.5	52.9	60.9
10	Apr	61.8	53.8	61.1
10	May	63.2	54.3	62.6
10	Jun	62.0	53.9	61.3
10	Jul	63.0	52.8	62.5
10	Aug	63.9	53.8	63.5
10	Sep	64.1	53.3	63.8
10	Oct	62.5	53.4	61.9
10	Nov	61.6	51.5	61.2
10	Dec	61.6	53.6	60.8

**DNL (Day-Night Level)** is the average noise level of a 24-hour period. DNL accounts for the peak noise levels, noise event duration, and the time a noise event occurred. Noise events occurring between 10 pm and 7 am are artificially increased by 10 dB to account for increased annoyance associated with night time noise.



Site #	2012 Month	DNL	DNL-ac	DNL-c
11	Jan	61.2	47.6	61.0
11	Feb	55.8	43.1	55.6
11	Mar	59.0	46.8	58.7
11	Apr	58.1	46.9	57.8
11	May	NA	NA	NA
11	Jun	57.9	43.9	57.8
11	Jul	59.1	43.6	59.0
11	Aug	61.4	44.7	61.3
11	Sep	62.3	46.3	62.2
11	Oct	59.8	50.7	59.2
11	Nov	58.4	48.2	58.0
11	Dec	57.9	46.2	57.6

12	Jan	57.1	36.5	57.1
12	Feb	57.5	36.6	57.4
12	Mar	57.9	39.9	57.8
12	Apr	58.0	44.8	57.8
12	May	60.5	48.6	60.2
12	Jun	59.7	46.2	59.5
12	Jul	60.6	47.1	60.4
12	Aug	61.8	45.8	61.7
12	Sep	63.0	48.7	62.8
12	Oct	59.8	42.8	59.7
12	Nov	58.8	46.5	58.6
12	Dec	60.3	45.7	60.2

17	Jan	63.3	57.0	62.1
17	Feb	62.8	56.9	61.4
17	Mar	62.7	57.9	61.0
17	Apr	63.3	58.7	61.4
17	May	88.7	56.9	88.7
17	Jun	62.2	56.7	60.7
17	Jul	63.1	56.6	62.0
17	Aug	61.1	55.8	59.6
17	Sep	61.8	55.7	60.5
17	Oct	63.2	55.9	62.3
17	Nov	62.5	56.5	61.2
17	Dec	64.2	57.1	63.3

**DNL (Day-Night Level)** is the average noise level of a 24-hour period. DNL accounts for the peak noise levels, noise event duration, and the time a noise event occurred. Noise events occurring between 10 pm and 7 am are artificially increased by 10 dB to account for increased annoyance associated with night time noise.





Site #	2012 Month	DNL	DNL-ac	DNL-c
20	Jan	53.9	43.7	53.5
20	Feb	54.0	41.6	53.8
20	Mar	54.9	40.8	54.8
20	Apr	56.5	42.8	56.3
20	May	60.5	49.9	60.2
20	Jun	57.1	41.6	56.9
20	Jul	58.6	45.1	58.4
20	Aug	62.9	42.4	62.9
20	Sep	63.2	46.5	63.1
20	Oct	NA	NA	NA
20	Nov	56.3	45.2	55.9
20	Dec	54.3	39.9	54.2

22	Jan	54.6	39.7	54.5
22	Feb	55.1	41.1	55.0
22	Mar	55.2	42.7	54.9
22	Apr	56.1	45.1	55.7
22	May	58.1	44.4	57.9
22	Jun	56.8	47.7	56.3
22	Jul	57.9	42.0	57.8
22	Aug	57.2	42.0	57.0
22	Sep	56.1	42.7	55.9
22	Oct	56.6	42.1	56.4
22	Nov	55.1	37.2	55.0
22	Dec	55.9	43.4	55.6

**DNL (Day-Night Level)** is the average noise level of a 24-hour period. DNL accounts for the peak noise levels, noise event duration, and the time a noise event occurred. Noise events occurring between 10 pm and 7 am are artificially increased by 10 dB to account for increased annoyance associated with night time noise.

## **2012 Complaint Summary** - (Details on pages 19-21)

### **Washington Dulles Airport:**

274 complaints were received from 98 callers;

- 112 of these complaints were received from 5 callers.

### **Reagan National Airport:**

892 complaints were received from 106 callers;

- 575 of these complaints came from 2 callers.

**2012: Washington Dulles International Airport  
Noise Complaint Counts**

ST	City	# of Callers	# of Complaints
MD	Darnestown	1	1
	Gaithersburg	1	1
	Poolesville	1	18
	Potomac	1	1
	Rockville	1	1
	<b>Total:</b>	<b>5</b>	<b>22</b>

VA	Aldie	5	13
	Ashburn	30	62
	Bristow	1	1
	Centreville	2	3
	Chantilly	20	133
	Fairfax	4	6
	Great Falls	2	2
	Haymarket	1	1
	Herndon	2	4
	Leesburg	3	3
	Manassas	1	1
	Middleburg	1	1
	Oakton	3	3
	Potomac Falls	1	1
	Reston	3	3
	South Riding	6	6
	Sterling	4	5
	Stone Ridge	1	1
	The Plains	1	1
	Winchester	2	2
	<b>Total:</b>	<b>93</b>	<b>252</b>

<b>2012 Total:</b>	<b>98</b>	<b>274</b>
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**2012: Ronald Reagan Washington National Airport  
Noise Complaint Counts**

ST	City	Quad	# of Callers	# of Complaints
DC	Washington	NW	21	264
		SE	2	3
		SW	4	7
		Unknown	1	1
		<b>Total:</b>	<b>28</b>	<b>275</b>

MD	Accokeek		1	3
	Beltsville		1	2
	Bethesda		3	7
	Ft Washington		1	1
	Gaithersburg		1	1
	Kensington		2	2
	Potomac		1	1
	<b>Total:</b>		<b>10</b>	<b>17</b>

VA	Alexandria		15	60
	Arlington		36	445
	Falls Church		1	1
	McLean		14	90
	Springfield		2	4
	<b>Total:</b>		<b>68</b>	<b>600</b>

<b>2012 Total:</b>		<b>106</b>	<b>892</b>
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## 2012 Noise Complaint Statistics

### Washington Dulles International Airport

# of Callers	Complaints per Caller	# of Complaints	% of All Callers	% of All Complaints
73	1	73	74.5%	26.6%
10	2	20	10.2%	7.3%
2	3	6	2.0%	2.2%
2	5	10	2.0%	3.6%
1	6	6	1.0%	2.2%
1	7	7	1.0%	2.6%
2	8	16	2.0%	5.8%
1	9	9	1.0%	3.3%
1	11	11	1.0%	4.0%
1	14	14	1.0%	5.1%
1	18	18	1.0%	6.6%
1	25	25	1.0%	9.1%
1	26	26	1.0%	9.5%
1	33	33	1.0%	12.0%

### Ronald Reagan Washington National Airport

# of Callers	Complaints per Caller	# of Complaints	% of All Callers	% of All Complaints
62	1	62	58.5%	7.0%
13	2	26	12.3%	2.9%
8	3	24	7.5%	2.7%
5	4	20	4.7%	2.2%
2	5	10	1.9%	1.1%
3	6	18	2.8%	2.0%
1	7	7	0.9%	0.8%
1	8	8	0.9%	0.9%
1	9	9	0.9%	1.0%
1	11	11	0.9%	1.2%
1	12	12	0.9%	1.3%
2	13	26	1.9%	2.9%
1	16	16	0.9%	1.8%
1	18	18	0.9%	2.0%
1	19	19	0.9%	2.1%
1	31	31	0.9%	3.5%
1	205	205	0.9%	23.0%
1	370	370	0.9%	41.5%