

# 2017 AIRCRAFT OPERATIONS COUNTING PROGRAM

BRANDYWINE

FLYING W

NEW GARDEN

SOUTH JERSEY  
REGIONAL

TRENTON-  
ROBBINSVILLE



**The Delaware Valley Regional Planning Commission** is the federally designated Metropolitan Planning Organization for a diverse nine-county region in two states: Bucks, Chester, Delaware, Montgomery, and Philadelphia in Pennsylvania; and Burlington, Camden, Gloucester, and Mercer in New Jersey.



**DVRPC's vision** for the Greater Philadelphia Region is a prosperous, innovative, equitable, resilient, and sustainable region that increases mobility choices by investing in a safe and modern transportation system; that protects and preserves our natural resources while creating healthy communities; and that fosters greater opportunities for all.

**DVRPC's mission** is to achieve this vision by convening the widest array of partners to inform and facilitate data-driven decision-making. We are engaged across the region, and strive to be leaders and innovators, exploring new ideas and creating best practices.

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## Executive Summary

The Delaware Valley Regional Planning Commission (DVRPC) has conducted aircraft operations counts at the non-towered airports in the 12-county, four-state Delaware Valley Regional Airport System Plan area (RASP) since 1986 (see Figure ES-1). In 2016, the Federal Aviation Administration (FAA) continued funding this program to include four of the 20 non-towered facilities (all general aviation airports and all reliever airports except Northeast Philadelphia are non-towered). Additionally, New Garden airport was added to the 2017 cycle due to construction impacts during the 2016 cycle. From January 2017 to December 2017, the following airports were surveyed: Brandywine, Flying W, South Jersey Regional, and Trenton-Robbinsville. New Garden Airport was surveyed on an extended schedule from February 2016 through December 2017.

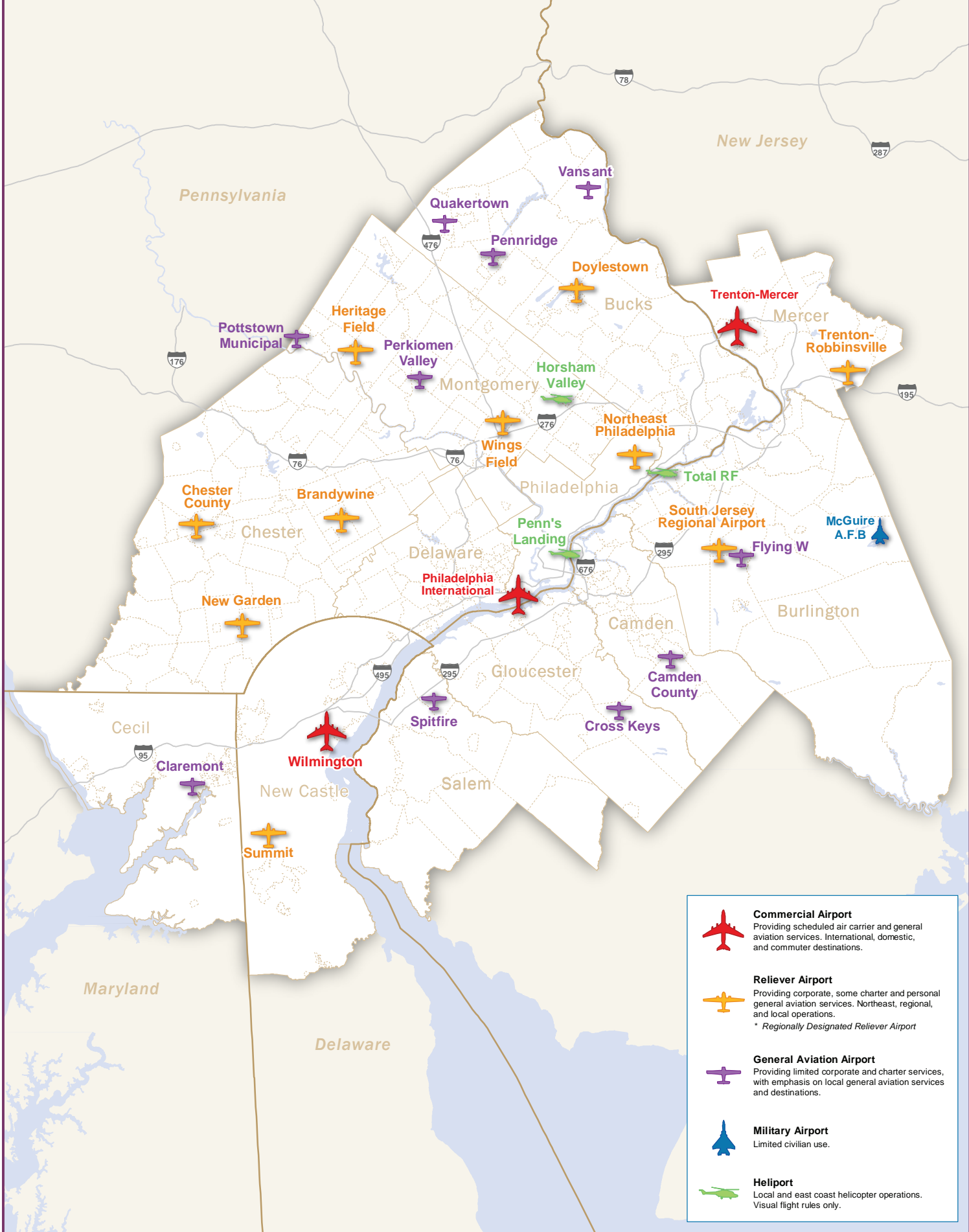
This report uses the Larson Davis Laboratories Acoustic Counter Software to monitor takeoff data at each airport for eight weeks apportioned throughout the year. This data is reviewed and compiled into Airport Activity Reports. The Airport Activity Reports are then used to project seasonal and annual takeoff and landing totals, as estimated by DVRPC counting software, for each surveyed airport during 2017.

In the 2017 counting period, there were 148,534 annual aircraft operations estimated for the five regional airports surveyed. The DVRPC report for the same five airports in the previous counting programs had 157,937 annual aircraft operations, which indicates a six percent decrease in total operations over the previous periods.

Historically DVRPC has counted airports in three fixed sets of airports, cycling one set each year in a series. Each counting period could have an airport counted out of sequence, at the request of our sponsors, but this was a rare event and the airport selected usually went back into its normal sequence for the next count. However, with the change in the FAA only funding the counting of National Plan of Integrated Airport Systems airports, we have had to drop the counting of many of our RASP airports and reset the counting sequence for the remaining airports. This has resulted in the current count cycle having different years of historic comparison for the various airports.

Historic counting data since 1986 is available through the DVRPC Freight and Aviation Programs website at [www.dvrpc.org/Aviation/AircraftTrafficCounts](http://www.dvrpc.org/Aviation/AircraftTrafficCounts).

Figure ES-1: Delaware Valley Regional Airport System



**Commercial Airport**  
 Providing scheduled air carrier and general aviation services. International, domestic, and commuter destinations.

**Reliever Airport**  
 Providing corporate, some charter and personal general aviation services. Northeast, regional, and local operations.  
 \* Regionally Designated Reliever Airport

**General Aviation Airport**  
 Providing limited corporate and charter services, with emphasis on local general aviation services and destinations.

**Military Airport**  
 Limited civilian use.

**Heliport**  
 Local and east coast helicopter operations. Visual flight rules only.



## Annual Operations Summaries

As an integral part of its ongoing aviation planning efforts, DVRPC has conducted aircraft operations counts at non-towered airports in the region since 1986. In 2016, the FAA continued funding this program to include four of the 20 DVRPC RASP facilities. Additionally, New Garden airport was added to the 2017 cycle due to construction impacts during the 2016 cycle. From January 2017 to December 2017, the following airports were surveyed: Brandywine, Flying W, South Jersey Regional, and Trenton-Robbinsville. New Garden Airport was surveyed on an extended schedule from February 2016 through December 2017.

The Annual Operations Summaries provide tabular and graphical displays of annual aircraft operations for fixed-wing aircraft, helicopters, and their combined totals (see pp. 5–7). The data is projected based on the daily flight counts collected during eight one-week sampling periods throughout the year.

The following procedure is applied to all counts during the entire program. Eight one-week counting surveys are taken over the course of one year. These counting surveys are scheduled twice each season at four- to six-week intervals for each airport. At the start of each interval, a DVRPC staff member selects a location near the airport runway to base an LDL 820 Sound Level Meter. The meter is activated by set minimum noise levels only during aircraft takeoff activity; it stores the data, and the staff member retrieves the meter after each week of counts.

After equipment retrieval, the data is downloaded to the Aircraft Counting System software and then checked manually for event-related errors. The Aircraft Counting System report displays weekly aircraft takeoffs (since most propeller landings are nearly silent) by hour and day for each week counted. Finally, the data is entered into and extrapolated by DVRPC counting formulas, which estimate seasonal and annual total takeoffs and landings.

Due to a temporary disruption to the counting program, the spring season counts for this cycle could not be completed. In lieu of modeled activity based on observations during the spring period, an estimation technique was utilized. The long history of aircraft operations counting at DVRPC provided a large sample of seasonal counts for general aviation airports in the region. This data was used to create a methodology of estimation that identified the average proportion of annual operations that occur during the spring months. Given the small sample size for individual airports, all airports were considered together and a common proportion was established for all five airports. The estimated spring proportion based on historic data was found to be 27 percent of annual operations.

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As a result of this estimation technique, the margin of error (MOE) reported for each of the airport activity count estimates is based on the three-season model and is not representative of the MOE for the full annual estimate.

In the 2017 counting period, there were 148,534 annual aircraft operations estimated for the five regional airports. The DVRPC report for the same five airports in the previous counting programs had 157,937 annual aircraft operations, which indicates a six percent decrease in total operations over the previous period.



## Annual Aircraft Operations

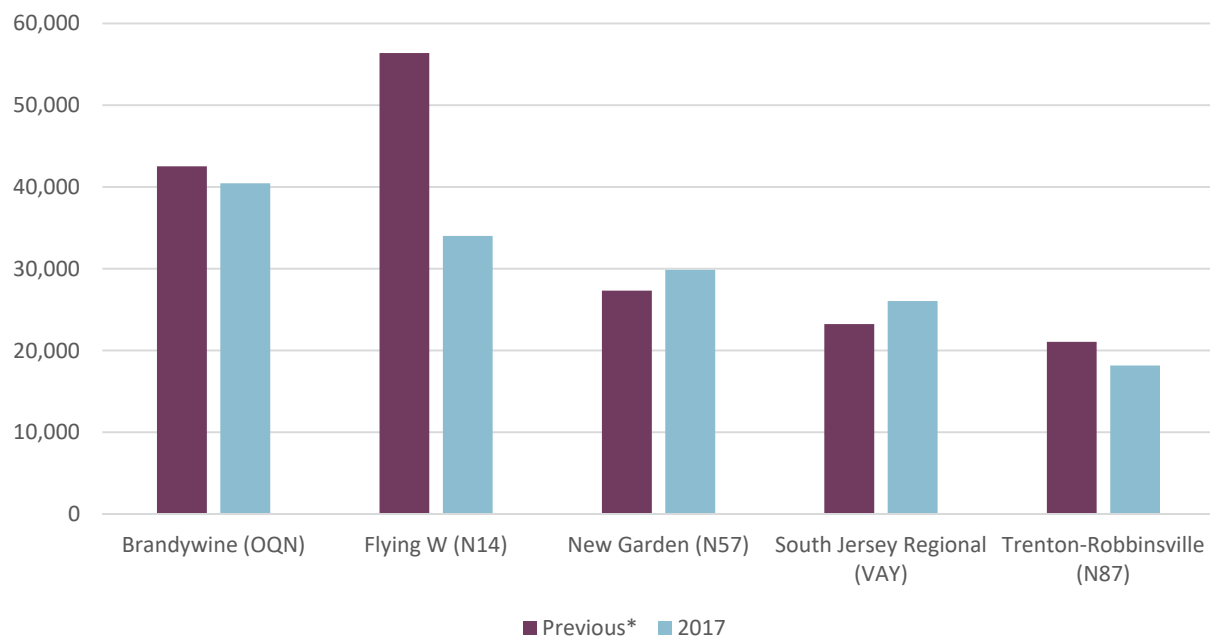
**Table 1: Annual Aircraft Operations Previous Count versus 2017 Count**

Airport	Previous Operations*	2017 Operations	Absolute Change	Percentage Change
Brandywine (OQN)	43,373	40,449	-2,924	-7%
Flying W (N14)	37,282	34,022	-3,260	-9%
New Garden (N57)	33,728	29,863	-3,865	-11%
South Jersey Regional (VAY)	22,490	26,042	3,552	16%
Trenton-Robbinsville (N87)	21,064	18,158	-2,906	-14%
<b>Total Operations</b>	<b>157,937</b>	<b>148,534</b>	<b>-9,403</b>	<b>-6%</b>

Source: DVRPC

\* Previous operations period for N87 is 2013/14; and for OQN, N14, N57, and VAY is 2014/15.

**Figure 1: Annual Aircraft Operations Previous Count versus 2017 Count**



Source: DVRPC

\* Previous operations period for N87 is 2013/14; and for OQN, N14, N57, and VAY is 2014/15.

## Annual Fixed-Wing Operations

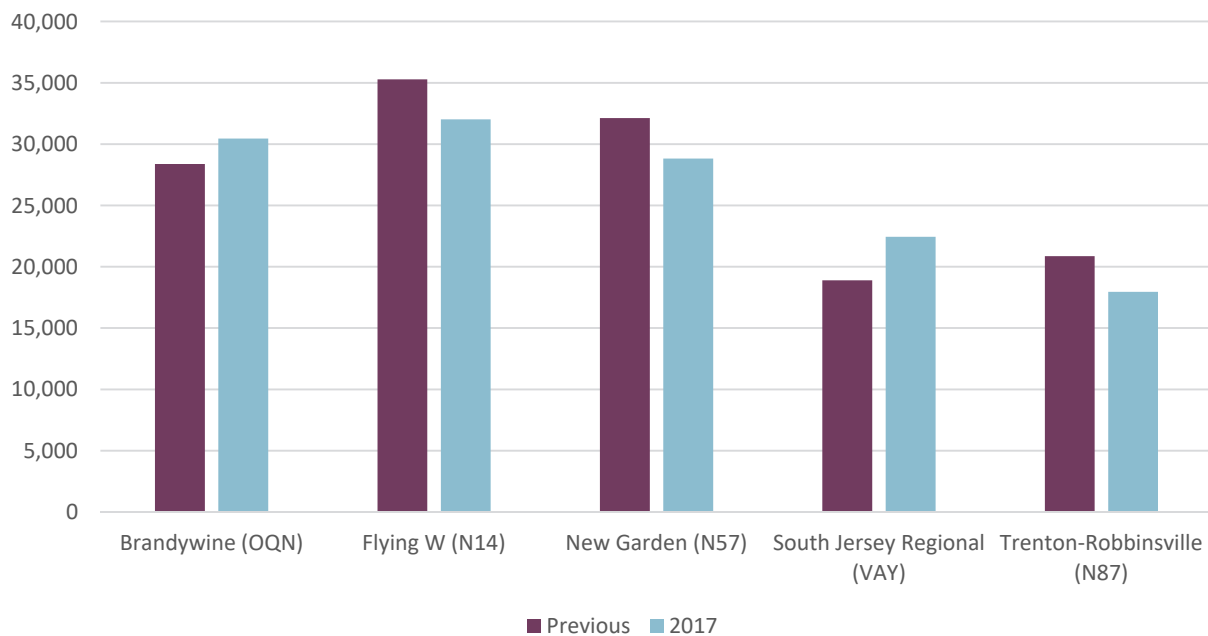
**Table 2: Annual Fixed-Wing Operations Previous Count versus 2017 Count**

Airport	Previous Operations*	2017 Operations	Absolute Change	Percentage Change
Brandywine (OQN)	28,373	30,449	2,076	7%
Flying W (N14)	35,282	32,022	-3,260	-9%
New Garden (N57)	32,128	28,823	-3,305	-10%
South Jersey Regional (VAY)	18,890	22,442	3,552	19%
Trenton-Robbinsville (N87)	20,864	17,958	-2,906	-14%
<b>Total Operations</b>	<b>135,537</b>	<b>131,694</b>	<b>-3,843</b>	<b>-3%</b>

Source: DVRPC

\* Previous operations period for N87 is 2013/14; and for OQN, N14, N57, and VAY is 2014/15.

**Figure 2: Annual Fixed-Wing Operations Previous Count versus 2017 Count**



Source: DVRPC

\* Previous operations period for N87 is 2013/14; and for OQN, N14, N57, and VAY is 2014/15.

## Annual Helicopter Operations

**Table 3: Annual Helicopter Operations Previous Count versus 2017 Count**

Airport	Previous Operations*	2017 Operations	Absolute Change	Percentage Change
Brandywine (OQN)	15,000	10,000	-5,000	-33%
Flying W (N14)	2,000	2,000	0	0%
New Garden (N57)	1,600	1,040	-560	-35%
South Jersey Regional (VAY)	3,600	3,600	0	0%
Trenton-Robbinsville (N87)	200	200	0	0%
<b>Total Operations</b>	<b>22,400</b>	<b>16,840</b>	<b>-5,560</b>	<b>-25%</b>

Source: DVRPC

\* Previous operations period for N87 is 2013/14; and for OQN, N14, N57, and VAY is 2014/15.

**Figure 3: Annual Helicopter Operations Previous Count versus 2017 Count**



Source: DVRPC

\* Previous operations period for N87 is 2013/14; and for OQN, N14, N57, and VAY is 2014/15.

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## Airport Activity Reports

This section of the report displays the weekly activity data collected during the eight one-week counting surveys conducted for each of the five individual airports. Each airport summary provides a brief narrative along with an inventory of based aircraft. The based aircraft data is provided by airport management. When DVRPC has been unable to obtain this information directly from airport management, we have used data from FAA Form 5010, Airport Master Record, available on AirNav.com for the particular airport.

Airport activity summaries list estimated annual flight operations and a seasonal operations chart. Daily takeoffs collected from each airport are displayed in spreadsheet format by season, date, and time of day. All weekly activity data pages express only aircraft takeoffs and do not include the landing phase of flight due to the near silence of propeller landings. At the bottom of each weekly activity data page, subtotals of aircraft activity are also expressed as takeoffs only. In the activity summary, at the beginning of each Airport Activity Report, takeoffs are converted into estimated annual and seasonal operations, which include takeoffs and landings by the DVRPC counting software.

Helicopter data is not collected by the Acoustic Counter Software devices but is prorated from the annual estimate given by the airport operator at the completion of the counting cycle, and it is only expressed as a subtotal for each day.

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## Brandywine Airport (OQN)

**Chester County**

**West Chester, PA 19380**

Runway Orientation: 09/27

Runway Length: 3,347 ft.

**Table 4: Brandywine Airport (OQN) Based Aircraft**

Based Aircraft Fleet Mix	
Single-Engine	95
Multi-Engine	10
Jet	1
Helicopter	7
Glider	0
<b>Total</b>	<b>113</b>

*Source: AirNav.com, 2018*

Brandywine Airport is a privately owned, public-use airport located in Chester County along the Route 202 business corridor. Operations at Brandywine Airport experienced a seven percent decrease since the previous count cycle in 2014/15. However, fixed-wing aircraft operations experienced a seven percent increase over the previous count cycle in 2014/15, offsetting a reported 33 percent decrease in helicopter operations. This activity corresponds with a reduction in based helicopters and fixed-wing aircraft over the same period. These 30,449 fixed-wing operations move activity at Brandywine Airport closer to levels recorded during the 2010/11 count cycle (38,141).



Figure 4: Brandywine Airport (OQN) Aerial Photo



## DVRPC Aircraft Counting Program

Airport: Brandywine Airport (OQN)

County: Chester County, PA

**Table 5: Brandywine Airport (OQN) Annual Summary**

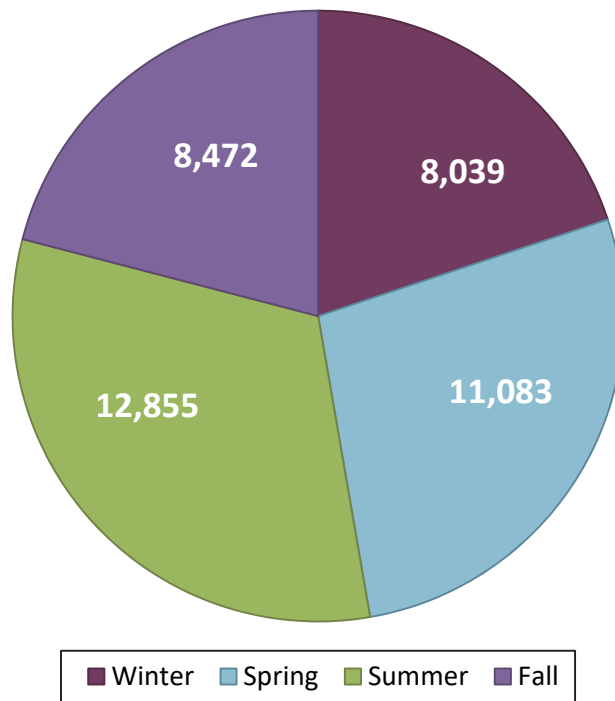
Season	Year	Average Daily Operations	Total Operations	Percentage of Annual Operations
Winter	2017	90.3	8,039	20%
Spring <sup>a</sup>	2017	119.2	11,083	27%
Summer	2017	136.8	12,855	32%
Fall	2017	95.2	8,472	21%
<b>Annual Operations:</b>	<b>2017</b>		<b>40,449</b>	

**Margin of Error: 14 at 95 percent confidence**

Source: DVRPC

<sup>a</sup> Spring counts were estimated at 27 percent of annual operations; values reflect this estimation method.

**Figure 5: Brandywine Airport (OQN) Seasonal Summary**



Source: DVRPC

**OQN–Brandywine Airport**

**February 02, 2017, to February 08, 2017**

**Winter I 2017**

**Weekly Activity Report**

	Thu	Fri	Sat	Sun	Mon	Tue	Wed
	2-Feb	3-Feb	4-Feb	5-Feb	6-Feb	7-Feb	8-Feb
12 AM	-	-	-	-	-	-	-
1 AM	-	-	-	-	-	-	-
2 AM	-	-	-	-	-	-	-
3 AM	-	-	-	-	-	-	-
4 AM	-	-	-	-	-	-	-
5 AM	-	-	-	-	-	-	-
6 AM	1	2	1	-	-	-	-
7 AM	2	3	1	2	2	-	1
8 AM	5	9	5	6	3	1	-
9 AM	2	1	2	4	5	-	1
10 AM	3	3	6	8	3	-	2
11 AM	4	7	5	13	1	-	6
12 PM	2	-	3	5	1	-	1
1 PM	3	4	11	4	2	-	1
2 PM	-	9	7	6	7	2	7
3 PM	1	8	3	2	7	5	4
4 PM	2	8	3	2	-	-	3
5 PM	-	-	1	1	1	-	3
6 PM	-	1	-	-	-	-	1
7 PM	-	-	-	-	-	-	-
8 PM	-	-	-	-	2	-	-
9 PM	-	-	-	-	-	-	-
10 PM	-	-	-	-	-	-	-
11 PM	-	-	-	-	-	-	-

Prorated Daily Helio Activity      13      14      14      14      13      14      14

Total Daily Aircraft Takeoffs      38      69      62      67      47      22      44

Prorated Total Helio Activity      96

Total Fixed-Wing Activity      253

**Total Aircraft Takeoffs      349**

*Source: DVRPC*

**OQN–Brandywine Airport**

**March 03, 2017, to March 09, 2017**

**Winter II 2017**

**Weekly Activity Report**

	Fri	Sat	Sun	Mon	Tue	Wed	Thu
	3-Mar	4-Mar	5-Mar	6-Mar	7-Mar	8-Mar	9-Mar
12 AM	-	-	-	-	-	-	-
1 AM	-	-	-	-	-	-	-
2 AM	-	-	-	-	-	-	-
3 AM	-	-	-	-	-	-	-
4 AM	-	-	-	-	-	-	-
5 AM	-	-	-	-	-	-	1
6 AM	1	1	2	7	-	-	-
7 AM	3	2	1	5	1	-	-
8 AM	4	3	1	3	-	2	-
9 AM	1	1	3	6	-	-	2
10 AM	1	-	3	6	-	-	-
11 AM	1	-	12	6	2	1	-
12 PM	-	1	10	5	1	1	1
1 PM	-	1	4	6	1	2	2
2 PM	3	-	5	1	1	-	3
3 PM	-	-	9	4	2	-	-
4 PM	-	-	7	5	3	1	1
5 PM	-	-	4	6	-	-	1
6 PM	2	-	4	-	2	-	2
7 PM	-	-	1	1	-	-	1
8 PM	-	-	1	-	-	-	-
9 PM	-	-	-	-	-	-	-
10 PM	-	-	-	-	-	-	-
11 PM	-	-	-	-	-	-	-

Prorated Daily Helio Activity      13      14      14      14      13      14      14

Total Daily Aircraft Takeoffs      29      23      81      75      26      21      28

Prorated Total Helio Activity      96

Total Fixed-Wing Activity      187

**Total Aircraft Takeoffs      283**

*Source: DVRPC*

**OQN–Brandywine Airport**

**July 30, 2017, to August 05, 2017**

**Summer I 2017**

Weekly Activity Report

	Sun	Mon	Tue	Wed	Thu	Fri	Sat
	30-Jul	31-Jul	1-Aug	2-Aug	3-Aug	4-Aug	5-Aug
12 AM	-	-	-	1	-	-	-
1 AM	-	-	-	-	-	-	-
2 AM	-	-	-	-	-	-	-
3 AM	-	-	-	-	-	-	-
4 AM	-	-	-	-	-	-	-
5 AM	-	-	-	-	-	-	-
6 AM	-	-	1	-	-	1	-
7 AM	2	1	-	-	1	-	-
8 AM	4	-	3	-	-	-	-
9 AM	9	4	4	3	1	1	-
10 AM	3	8	1	2	7	3	4
11 AM	6	7	11	4	8	6	4
12 PM	7	5	10	7	8	3	-
1 PM	12	9	4	-	4	1	1
2 PM	15	1	11	-	3	5	-
3 PM	6	4	3	1	2	2	1
4 PM	7	1	4	1	8	-	2
5 PM	10	1	3	1	1	3	2
6 PM	1	2	2	-	1	2	-
7 PM	1	2	4	-	-	1	-
8 PM	2	1	4	-	1	1	-
9 PM	3	-	2	-	-	-	4
10 PM	-	-	-	-	-	1	-
11 PM	-	-	-	-	-	-	-

Prorated Daily Helio Activity      13      14      14      14      13      14      14

Total Daily Aircraft Takeoffs      101      60      81      34      58      44      32

Prorated Total Helio Activity      96

Total Fixed-Wing Activity      314

**Total Aircraft Takeoffs      410**

*Source: DVRPC*

**OQN–Brandywine Airport**

**September 10, 2017, to September 16, 2017**

**Summer II 2017**

Weekly Activity Report

	Sun	Mon	Tue	Wed	Thu	Fri	Sat
	10-Sep	11-Sep	12-Sep	13-Sep	14-Sep	15-Sep	16-Sep
12 AM	-	-	-	-	-	-	-
1 AM	-	-	-	-	-	-	-
2 AM	-	-	-	-	-	-	-
3 AM	-	-	-	-	-	-	-
4 AM	-	-	-	-	-	-	-
5 AM	-	-	-	-	-	-	-
6 AM	-	2	1	-	-	-	-
7 AM	1	7	4	1	1	-	-
8 AM	5	1	3	1	2	2	5
9 AM	6	3	1	-	1	4	7
10 AM	21	2	15	2	1	3	8
11 AM	16	9	5	-	-	12	12
12 PM	7	5	4	-	1	3	20
1 PM	4	-	7	-	2	5	5
2 PM	3	6	13	-	13	6	6
3 PM	5	21	7	-	5	5	3
4 PM	6	7	4	-	2	7	2
5 PM	2	16	14	-	8	11	2
6 PM	2	6	9	-	2	8	4
7 PM	3	4	3	1	1	1	-
8 PM	1	1	-	-	1	-	-
9 PM	-	-	-	-	-	-	-
10 PM	-	-	-	-	2	-	1
11 PM	-	-	-	-	-	-	-

Prorated Daily Helio Activity	13	14	14	14	13	14	14
Total Daily Aircraft Takeoffs	95	104	104	19	55	81	89

Prorated Total Helio Activity	96
Total Fixed-Wing Activity	451

**Total Aircraft Takeoffs 547**

Source: DVRPC



**OQN–Brandywine Airport**

**October 06, 2017, to October 12, 2017**

**Fall I 2017**

**Weekly Activity Report**

	Fri	Sat	Sun	Mon	Tue	Wed	Thu
	6-Oct	7-Oct	8-Oct	9-Oct	10-Oct	11-Oct	12-Oct
12 AM	-	-	-	-	1	-	-
1 AM	-	-	-	-	-	-	-
2 AM	-	-	-	-	-	-	-
3 AM	-	-	-	-	-	-	-
4 AM	-	-	-	-	-	-	-
5 AM	-	-	-	-	-	-	-
6 AM	-	-	-	-	-	-	-
7 AM	-	6	1	-	2	1	-
8 AM	-	1	-	-	5	-	1
9 AM	-	7	-	-	2	2	-
10 AM	-	7	-	-	-	1	-
11 AM	-	6	1	-	8	8	-
12 PM	5	13	-	-	6	6	1
1 PM	10	13	-	-	12	9	1
2 PM	3	4	-	-	4	-	-
3 PM	5	-	-	2	7	-	1
4 PM	2	1	-	1	1	-	-
5 PM	10	1	-	-	2	9	-
6 PM	1	2	2	-	13	1	-
7 PM	1	-	-	1	-	-	-
8 PM	1	-	-	-	2	-	-
9 PM	-	-	-	-	1	-	-
10 PM	-	-	-	-	-	-	-
11 PM	-	1	-	-	-	-	-

Prorated Daily Helio Activity	13	14	14	14	13	14	14
Total Daily Aircraft Takeoffs	51	76	18	18	79	51	18

Prorated Total Helio Activity	96
Total Fixed-Wing Activity	215

**Total Aircraft Takeoffs 311**

Source: DVRPC

**OQN–Brandywine Airport**

**November 11, 2017, to November 17, 2017**

**Fall II 2017**

**Weekly Activity Report**

	Sat	Sun	Mon	Tue	Wed	Thu	Fri
	11-Nov	12-Nov	13-Nov	14-Nov	15-Nov	16-Nov	17-Nov
12 AM	-	-	-	-	-	-	1
1 AM	-	-	-	-	-	-	-
2 AM	-	-	-	-	-	-	-
3 AM	-	-	-	-	-	-	-
4 AM	-	-	-	-	-	-	-
5 AM	-	-	-	-	-	-	-
6 AM	-	-	-	-	1	-	1
7 AM	-	-	-	-	1	2	1
8 AM	2	1	-	-	3	5	1
9 AM	5	4	-	2	9	-	3
10 AM	12	12	-	2	11	6	2
11 AM	3	3	-	3	10	-	2
12 PM	3	5	-	2	11	-	1
1 PM	2	8	-	7	14	-	1
2 PM	6	4	-	10	6	1	1
3 PM	5	2	-	6	6	-	6
4 PM	3	14	-	2	7	-	9
5 PM	2	1	-	-	-	-	1
6 PM	1	-	-	1	-	-	-
7 PM	-	-	-	-	-	-	-
8 PM	-	-	-	-	-	-	1
9 PM	-	-	-	-	-	-	-
10 PM	-	-	-	1	-	-	1
11 PM	-	-	-	-	-	-	-

Prorated Daily Helio Activity      13      14      14      14      13      14      14

Total Daily Aircraft Takeoffs      57      68      14      50      92      28      46

Prorated Total Helio Activity      96

Total Fixed-Wing Activity      259

**Total Aircraft Takeoffs      355**

*Source: DVRPC*

---

## Flying W Airport (N14)

**Burlington County**

**Medford, NJ 08055**

Runway Orientation: 01/19

Runway Length: 3,496 ft.

**Table 6: Flying W Airport (N14) Based Aircraft**

Based Aircraft Fleet Mix	
Single-Engine	96
Multi-Engine	6
Jet	0
Helicopter	3
Glider	0
<b>Total</b>	<b>105</b>

*Source: AirNav.com, 2018*

Flying W Airport had an overall decline of nine percent in flight operations this counting cycle. While fixed-wing flight operations declined, they did so at a slower rate than was experienced between the 2010/11 and 2014/15 count cycles.

Flying W continues to be an important general aviation airport in the region, profiting from the recreational repertoire that it offers and its professional management. Flight operations are bolstered by a large flying club based there, which contributes strongly to flight operations. Free Flight Aviation, which is now based there, has a growing flight school. Flying W Airport is a well-managed facility with a heavy schedule of aircraft fly-ins booked throughout the year, which utilizes the full facilities of Flying W. These facilities include a hotel, swimming pool, restaurant, and snack bar.

Figure 6: Flying W Airport (N14) Aerial Photo



## DVRPC Aircraft Counting Program

Airport: Flying W Airport (N14)

County: Burlington County, NJ

**Table 7: Flying W Airport (N14) Annual Summary**

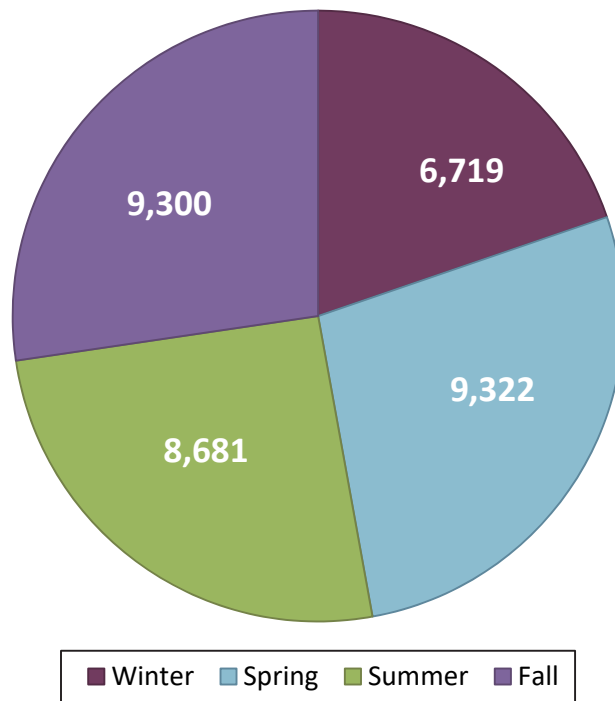
Season	Year	Average Daily Operations	Total Operations	Percentage of Annual Operations
Winter	2017	75.5	6,719	20%
Spring <sup>a</sup>	2017	100.2	9,322	27%
Summer	2017	92.4	8,681	26%
Fall	2017	104.5	9,300	27%
<b>Annual Operations:</b>	<b>2017</b>		<b>34,022</b>	

**Margin of Error: 16 at 95 percent confidence**

Source: DVRPC

<sup>a</sup> Spring counts were estimated at 27 percent of annual operations; values reflect this estimation method.

**Figure 7: Flying W Airport (N14) Seasonal Summary**



Source: DVRPC

**N14–Flying W Airport**

**February 01, 2017, to February 07, 2017**

**Winter I 2017**

**Weekly Activity Report**

	Wed	Thu	Fri	Sat	Sun	Mon	Tue
	1-Feb	2-Feb	3-Feb	4-Feb	5-Feb	6-Feb	7-Feb
12 AM	-	-	-	-	-	-	-
1 AM	-	-	-	-	-	-	-
2 AM	-	-	-	-	-	-	-
3 AM	-	-	-	-	-	-	-
4 AM	-	-	-	-	-	-	-
5 AM	-	-	-	-	-	-	-
6 AM	-	-	-	-	-	-	-
7 AM	1	-	-	-	1	-	-
8 AM	-	1	-	4	1	-	1
9 AM	2	1	1	5	7	2	-
10 AM	2	1	-	5	7	3	-
11 AM	5	-	2	6	12	4	-
12 PM	3	2	2	7	21	3	-
1 PM	1	1	2	1	8	2	-
2 PM	4	2	3	3	8	3	1
3 PM	1	6	1	9	7	9	1
4 PM	1	6	2	8	4	1	7
5 PM	7	1	1	13	6	2	3
6 PM	6	3	-	1	-	-	2
7 PM	1	9	-	1	-	1	-
8 PM	-	-	-	-	-	-	-
9 PM	-	-	-	-	-	-	-
10 PM	-	-	-	-	-	-	-
11 PM	-	-	-	-	-	-	-
Prorated Daily Helio Activity	2	3	3	3	3	3	2
Total Daily Aircraft Takeoffs	36	36	17	66	85	33	17
Prorated Total Helio Activity	19						
Total Fixed-Wing Activity	271						

**Total Aircraft Takeoffs 290**

Source: DVRPC



**N14–Flying W Airport**

**March 03, 2017, to March 09, 2017**

**Winter II 2017**

**Weekly Activity Report**

	Fri	Sat	Sun	Mon	Tue	Wed	Thu
	3-Mar	4-Mar	5-Mar	6-Mar	7-Mar	8-Mar	9-Mar
12 AM	-	-	-	-	-	-	-
1 AM	-	-	-	-	-	-	-
2 AM	-	-	-	-	-	-	-
3 AM	-	-	-	-	-	-	-
4 AM	-	-	-	-	-	-	-
5 AM	-	-	-	-	-	-	-
6 AM	-	-	-	-	-	-	-
7 AM	-	-	-	-	-	-	-
8 AM	1	-	-	-	-	-	1
9 AM	3	6	4	-	-	-	-
10 AM	1	-	13	6	-	2	3
11 AM	7	5	5	10	-	1	5
12 PM	5	1	10	3	11	-	7
1 PM	1	-	2	16	6	1	3
2 PM	2	1	14	6	-	-	3
3 PM	-	-	7	7	4	-	2
4 PM	1	-	4	10	1	-	-
5 PM	1	-	8	-	-	-	1
6 PM	-	-	2	1	-	-	1
7 PM	-	-	-	1	-	-	-
8 PM	-	-	-	-	3	-	-
9 PM	-	-	-	-	-	-	-
10 PM	-	-	-	-	-	-	-
11 PM	-	-	-	-	-	-	-
Prorated Daily Helio Activity	2	3	3	3	3	3	2
Total Daily Aircraft Takeoffs	24	16	72	63	28	7	28
Prorated Total Helio Activity	19						
Total Fixed-Wing Activity	219						

**Total Aircraft Takeoffs 238**

Source: DVRPC

**N14–Flying W Airport**

**August 21, 2017, to August 27, 2017**

**Summer I 2017**

Weekly Activity Report

	Mon	Tue	Wed	Thu	Fri	Sat	Sun
	21-Aug	22-Aug	23-Aug	24-Aug	25-Aug	26-Aug	27-Aug
12 AM	-	-	-	-	-	-	-
1 AM	-	-	-	-	-	-	-
2 AM	-	-	-	-	-	-	-
3 AM	-	-	-	-	-	-	-
4 AM	-	-	-	-	-	-	-
5 AM	-	-	-	-	-	-	-
6 AM	-	-	-	-	-	-	-
7 AM	-	-	2	1	-	-	-
8 AM	2	-	5	2	1	5	1
9 AM	1	-	-	2	1	15	3
10 AM	2	-	3	2	3	15	8
11 AM	6	2	1	5	2	8	5
12 PM	1	6	3	2	4	7	4
1 PM	2	2	6	4	3	3	5
2 PM	5	1	1	1	10	8	5
3 PM	7	-	-	7	6	5	6
4 PM	3	1	2	2	5	5	7
5 PM	20	3	7	3	4	3	11
6 PM	15	8	7	11	2	4	11
7 PM	7	6	7	4	14	1	2
8 PM	-	1	5	1	1	-	3
9 PM	-	-	-	1	2	-	1
10 PM	-	-	-	-	2	-	-
11 PM	-	-	-	-	-	-	-
Prorated Daily Helio Activity	2	3	3	3	3	3	2
Total Daily Aircraft Takeoffs	73	33	52	51	63	82	74
Prorated Total Helio Activity	19						
Total Fixed-Wing Activity	409						
<b>Total Aircraft Takeoffs</b>	<b>428</b>						

Source: DVRPC

**N14–Flying W Airport**

**October 06, 2017, to October 12, 2017**

**Summer II 2017**

**Weekly Activity Report**

	Fri	Sat	Sun	Mon	Tue	Wed	Thu
	6-Oct	7-Oct	8-Oct	9-Oct	10-Oct	11-Oct	12-Oct
12 AM	-	-	-	-	-	-	-
1 AM	-	-	-	-	-	-	-
2 AM	-	-	-	-	-	-	-
3 AM	-	-	-	-	-	-	-
4 AM	-	-	-	-	-	-	-
5 AM	-	-	-	-	-	-	-
6 AM	-	-	-	-	-	-	-
7 AM	-	1	-	-	-	1	-
8 AM	6	-	-	-	-	-	-
9 AM	16	-	-	-	2	4	-
10 AM	2	-	-	-	2	6	-
11 AM	4	2	-	-	2	-	-
12 PM	2	-	-	-	5	7	-
1 PM	2	4	-	-	1	1	-
2 PM	5	7	-	-	1	-	-
3 PM	5	1	-	-	2	4	-
4 PM	-	7	4	-	11	-	-
5 PM	4	11	11	-	20	1	-
6 PM	2	6	4	-	1	2	4
7 PM	4	2	-	-	3	-	1
8 PM	2	1	-	-	-	-	-
9 PM	1	-	-	-	-	-	1
10 PM	1	-	-	-	-	-	-
11 PM	-	-	-	-	-	-	-
Prorated Daily Helio Activity	2	3	3	3	3	3	2
Total Daily Aircraft Takeoffs	58	45	22	3	53	29	8

Prorated Total Helio Activity 19

Total Fixed-Wing Activity 199

**Total Aircraft Takeoffs 218**

Source: DVRPC

**N14–Flying W Airport**

**October 16, 2017, to October 22, 2017**

**Fall I 2017**

Weekly Activity Report

	Mon	Tue	Wed	Thu	Fri	Sat	Sun
	16-Oct	17-Oct	18-Oct	19-Oct	20-Oct	21-Oct	22-Oct
12 AM	-	-	-	-	-	-	-
1 AM	-	-	-	-	-	-	-
2 AM	-	-	-	-	-	-	-
3 AM	-	-	-	-	-	-	-
4 AM	-	-	-	-	-	-	-
5 AM	-	-	-	-	-	-	-
6 AM	-	-	-	-	-	-	-
7 AM	-	1	-	-	1	3	-
8 AM	2	1	1	1	6	4	-
9 AM	-	12	3	4	13	3	-
10 AM	-	6	6	2	3	9	-
11 AM	3	3	5	7	4	12	7
12 PM	2	2	4	4	4	9	11
1 PM	2	4	5	5	6	5	3
2 PM	-	1	9	10	10	13	12
3 PM	-	1	2	6	6	6	18
4 PM	1	1	-	6	7	21	4
5 PM	-	16	7	6	9	15	11
6 PM	-	2	4	9	4	4	3
7 PM	3	-	2	-	-	2	-
8 PM	1	1	2	-	-	-	-
9 PM	-	1	1	-	-	-	1
10 PM	-	-	-	-	-	-	-
11 PM	-	-	-	-	-	-	-
Prorated Daily Helio Activity	2	3	3	3	3	3	2
Total Daily Aircraft Takeoffs	16	55	54	63	76	109	72
Prorated Total Helio Activity	19						
Total Fixed-Wing Activity	426						
<b>Total Aircraft Takeoffs</b>	<b>445</b>						

Source: DVRPC

**N14–Flying W Airport**

**November 11, 2017, to November 17, 2017**

**Fall II 2017**

Weekly Activity Report

	Sat	Sun	Mon	Tue	Wed	Thu	Fri
	11-Nov	12-Nov	13-Nov	14-Nov	15-Nov	16-Nov	17-Nov
12 AM	-	-	-	-	-	-	-
1 AM	-	-	-	-	-	-	-
2 AM	-	-	-	-	-	-	-
3 AM	-	-	-	-	-	-	-
4 AM	-	-	-	-	-	-	-
5 AM	-	-	-	-	-	-	-
6 AM	-	-	-	-	-	-	-
7 AM	-	-	-	-	-	-	-
8 AM	6	-	-	1	1	-	1
9 AM	1	3	-	1	2	1	4
10 AM	7	8	-	4	7	2	2
11 AM	1	1	-	5	3	3	2
12 PM	13	8	-	4	7	2	1
1 PM	6	8	-	7	4	4	1
2 PM	9	10	-	10	3	-	3
3 PM	12	2	-	4	2	2	4
4 PM	26	3	-	-	3	1	5
5 PM	2	4	-	-	1	1	4
6 PM	1	-	-	5	2	-	1
7 PM	4	-	-	2	-	-	1
8 PM	1	2	-	-	-	-	2
9 PM	1	1	-	-	-	-	2
10 PM	-	-	-	-	-	-	-
11 PM	-	-	-	-	-	-	-
Prorated Daily Helio Activity	2	3	3	3	3	3	2
Total Daily Aircraft Takeoffs	92	53	3	46	38	19	35
Prorated Total Helio Activity	19						
Total Fixed-Wing Activity	267						
<b>Total Aircraft Takeoffs</b>	<b>286</b>						

Source: DVRPC

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## New Garden Airport (N57)

**Chester County**

**Toughkenamon, PA 19374**

Runway Orientation: 06/24

Runway Length: 3,695 ft.

**Table 8: New Garden Airport (N57) Based Aircraft**

Based Aircraft Fleet Mix	
Single-Engine	102
Multi-Engine	0
Jet	0
Helicopter	3
Glider	8
Ultralight	3
<b>Total</b>	<b>116</b>

*Source: AirNav.com, 2018*

Municipally owned New Garden Airport (N57) experienced a decrease of 11 percent in total flight operations during this counting cycle. This follows a period of construction disruption and an especially strong period of growth before the previous count cycle in 2014/15. Despite decreased operations, the airport did experience growth in based aircraft and continues to advance projects and programs at the facility. With summer aviation programs for their youth day camps, a strong local Experimental Aircraft Association (EAA) chapter, the Brandywine Soaring Association, Annual Airshow, and a strong schedule of weekend activities, New Garden Airport is an example of a renewed airport.

Figure 8: New Garden Airport (N57) Aerial Photo



## DVRPC Aircraft Counting Program

Airport: New Garden Airport (N57)

County: Chester County, PA

**Table 9: New Garden Airport (N57) Annual Summary**

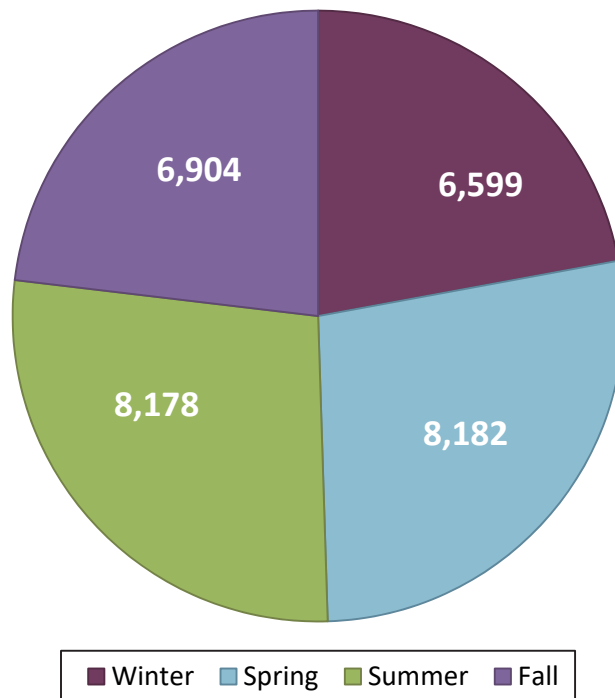
Season	Year	Average Daily Operations	Total Operations	Percentage of Annual Operations
Winter	2016	74.1	6,599	22%
Spring <sup>a</sup>	2017	88.0	8,182	27%
Summer	2017	87.0	8,178	27%
Fall	2017	77.6	6,904	23%
<b>Annual Operations:</b>	<b>2017</b>		<b>29,863</b>	

**Margin of Error: 20 at 95 percent confidence**

Source: DVRPC

<sup>a</sup> Spring counts were estimated at 27 percent of annual operations; values reflect this estimation method.

**Figure 9: New Garden Airport (N57) Seasonal Summary**



Source: DVRPC

**N57–New Garden Airport**

**February 02, 2016, to February 08, 2016**

**Winter I 2016**

**Weekly Activity Report**

	Tue	Wed	Thu	Fri	Sat	Sun	Mon
	2-Feb	3-Feb	4-Feb	5-Feb	6-Feb	7-Feb	8-Feb
12 AM	-	-	-	-	-	-	-
1 AM	-	-	-	-	-	-	-
2 AM	-	-	-	-	-	-	-
3 AM	-	-	-	-	-	-	-
4 AM	-	-	-	-	-	-	-
5 AM	-	-	-	-	-	-	-
6 AM	-	-	-	-	-	-	-
7 AM	1	-	-	-	1	-	-
8 AM	2	-	-	-	2	1	-
9 AM	-	-	-	-	1	-	7
10 AM	1	-	-	-	2	-	2
11 AM	3	-	-	5	3	9	11
12 PM	6	-	6	3	4	7	5
1 PM	1	-	3	-	-	8	5
2 PM	7	-	2	-	4	5	3
3 PM	7	-	2	-	4	17	2
4 PM	4	-	1	1	5	5	-
5 PM	-	-	-	1	2	2	1
6 PM	1	-	-	-	2	-	-
7 PM	-	-	-	-	-	-	-
8 PM	-	-	-	-	-	-	-
9 PM	-	-	-	-	-	-	-
10 PM	-	-	-	-	-	-	-
11 PM	-	-	-	-	-	-	-

Prorated Daily Helio Activity	2	1	1	2	1	2	1
Total Daily Aircraft Takeoffs	35	1	15	12	31	56	37

Prorated Total Helio Activity	10
Total Fixed-Wing Activity	177

**Total Aircraft Takeoffs 187**

Source: DVRPC

**N57–New Garden Airport**

**March 03, 2016, to March 09, 2016**

**Winter II 2016**

Weekly Activity Report

	Thu	Fri	Sat	Sun	Mon	Tue	Wed
	3-Mar	4-Mar	5-Mar	6-Mar	7-Mar	8-Mar	9-Mar
12 AM	-	-	-	-	-	-	-
1 AM	-	-	-	-	-	-	-
2 AM	-	-	-	-	-	-	-
3 AM	-	-	-	-	-	-	-
4 AM	-	-	-	-	-	-	-
5 AM	-	-	-	-	-	-	-
6 AM	-	-	1	-	-	1	-
7 AM	1	-	-	2	1	2	1
8 AM	1	-	-	10	-	3	2
9 AM	3	-	6	3	-	5	2
10 AM	4	-	2	8	1	1	6
11 AM	2	-	8	9	-	5	3
12 PM	4	-	11	2	-	1	7
1 PM	5	-	11	8	2	2	-
2 PM	6	-	8	15	1	3	4
3 PM	4	-	14	6	5	5	22
4 PM	6	1	5	12	2	4	5
5 PM	4	-	5	9	4	7	1
6 PM	1	-	-	3	7	3	1
7 PM	-	-	-	-	-	-	1
8 PM	-	-	-	-	-	-	1
9 PM	-	-	-	-	-	-	-
10 PM	-	-	-	1	-	-	-
11 PM	-	-	-	-	-	-	-
Prorated Daily Helio Activity	2	1	1	2	1	2	1
Total Daily Aircraft Takeoffs	43	2	72	90	24	44	57
Prorated Total Helio Activity	10						
Total Fixed-Wing Activity	322						

**Total Aircraft Takeoffs 332**

Source: DVRPC

**N57–New Garden Airport**

**July 29, 2017, to August 04, 2017**

**Summer I 2017**

Weekly Activity Report

	Sat	Sun	Mon	Tue	Wed	Thu	Fri
	29-Jul	30-Jul	31-Jul	1-Aug	2-Aug	3-Aug	4-Aug
12 AM	-	-	-	-	-	-	-
1 AM	-	-	-	-	-	-	-
2 AM	-	-	-	-	-	-	-
3 AM	-	-	-	-	-	-	-
4 AM	-	-	-	-	-	-	-
5 AM	-	-	-	-	-	-	-
6 AM	-	2	-	-	-	-	1
7 AM	-	3	-	-	-	-	-
8 AM	-	3	-	-	1	1	-
9 AM	-	7	-	1	-	10	5
10 AM	5	13	6	-	1	5	2
11 AM	3	7	6	-	-	-	5
12 PM	2	5	3	-	1	4	-
1 PM	2	6	4	-	-	3	5
2 PM	3	10	10	-	-	7	-
3 PM	-	8	3	-	-	2	4
4 PM	5	3	6	1	1	3	2
5 PM	7	6	4	3	-	-	2
6 PM	2	4	7	6	-	1	1
7 PM	1	5	12	10	-	-	-
8 PM	-	2	4	3	-	-	-
9 PM	-	-	3	4	-	-	-
10 PM	-	-	-	2	-	-	-
11 PM	-	-	-	-	-	-	-
Prorated Daily Helio Activity	2	1	1	2	1	2	1
Total Daily Aircraft Takeoffs	32	85	69	32	5	38	28
Prorated Total Helio Activity	10						
Total Fixed-Wing Activity	279						

**Total Aircraft Takeoffs 289**

Source: DVRPC



**N57–New Garden Airport**

**September 10, 2017, to September 16, 2017**

**Summer II 2017**

Weekly Activity Report

	Sun	Mon	Tue	Wed	Thu	Fri	Sat
	10-Sep	11-Sep	12-Sep	13-Sep	14-Sep	15-Sep	16-Sep
12 AM	-	-	-	-	-	-	-
1 AM	-	-	-	-	-	-	-
2 AM	-	-	-	-	-	-	-
3 AM	-	-	-	-	-	-	-
4 AM	-	-	-	-	-	-	-
5 AM	-	-	-	-	-	-	-
6 AM	-	-	1	-	-	-	-
7 AM	-	-	17	-	-	-	-
8 AM	7	1	4	-	-	-	2
9 AM	2	10	4	-	-	-	5
10 AM	3	4	1	-	-	-	6
11 AM	12	2	8	-	1	3	1
12 PM	4	2	1	-	-	-	6
1 PM	2	1	5	-	-	4	6
2 PM	9	4	-	-	1	1	5
3 PM	11	6	1	-	1	2	3
4 PM	14	14	7	-	1	3	7
5 PM	19	3	9	4	1	1	1
6 PM	8	3	5	-	1	10	1
7 PM	-	7	6	-	5	2	3
8 PM	-	-	-	-	-	-	3
9 PM	-	-	-	-	-	3	-
10 PM	-	-	-	-	-	-	-
11 PM	-	-	-	-	-	-	-
Prorated Daily Helio Activity	2	1	1	2	1	2	1
Total Daily Aircraft Takeoffs	93	58	70	6	12	31	50
Prorated Total Helio Activity	10						
Total Fixed-Wing Activity	310						

**Total Aircraft Takeoffs 320**

Source: DVRPC

**N57–New Garden Airport**

**October 07, 2017, to October 13, 2017**

**Fall I 2017**

**Weekly Activity Report**

	Sat	Sun	Mon	Tue	Wed	Thu	Fri
	7-Oct	8-Oct	9-Oct	10-Oct	11-Oct	12-Oct	13-Oct
12 AM	-	-	-	-	-	-	-
1 AM	-	-	-	-	-	-	-
2 AM	-	-	-	-	-	-	-
3 AM	-	-	-	-	-	-	-
4 AM	-	-	-	-	-	-	-
5 AM	-	-	-	-	-	-	-
6 AM	-	-	-	-	-	-	-
7 AM	-	-	-	-	-	-	-
8 AM	1	-	-	-	4	-	3
9 AM	3	-	-	7	11	1	6
10 AM	9	-	-	6	7	-	7
11 AM	18	-	-	4	14	-	10
12 PM	6	-	1	-	1	-	4
1 PM	11	-	-	-	5	-	3
2 PM	19	-	-	-	-	-	2
3 PM	6	-	-	5	1	1	9
4 PM	2	-	-	7	1	3	1
5 PM	1	-	-	13	-	4	-
6 PM	-	-	-	8	-	1	-
7 PM	-	-	-	-	-	1	-
8 PM	-	-	-	-	-	-	-
9 PM	-	-	-	-	-	-	-
10 PM	-	-	-	-	-	-	-
11 PM	-	-	-	-	-	-	-

Prorated Daily Helio Activity	2	1	1	2	1	2	1
Total Daily Aircraft Takeoffs	78	1	2	52	45	13	46

Prorated Total Helio Activity	10
Total Fixed-Wing Activity	227

**Total Aircraft Takeoffs 237**

Source: DVRPC



**N57–New Garden Airport**

**November 09, 2017, to November 15, 2017**

**Fall II 2017**

**Weekly Activity Report**

	Thu	Fri	Sat	Sun	Mon	Tue	Wed
	9-Nov	10-Nov	11-Nov	12-Nov	13-Nov	14-Nov	15-Nov
12 AM	-	-	-	-	-	-	-
1 AM	-	-	-	-	-	-	-
2 AM	-	-	-	-	-	-	-
3 AM	-	-	-	-	-	-	-
4 AM	-	-	-	-	-	-	-
5 AM	-	-	-	-	-	-	-
6 AM	-	-	-	-	-	-	-
7 AM	-	-	1	1	1	-	-
8 AM	-	-	1	2	-	1	1
9 AM	-	1	4	2	-	7	2
10 AM	-	2	3	9	-	4	4
11 AM	-	1	2	17	-	11	9
12 PM	5	1	7	5	-	3	5
1 PM	3	1	26	1	-	6	10
2 PM	9	-	10	13	-	6	10
3 PM	5	-	3	8	-	4	3
4 PM	10	-	12	9	-	3	8
5 PM	2	-	1	10	-	1	2
6 PM	1	-	-	-	-	4	1
7 PM	-	-	-	1	-	1	-
8 PM	-	-	-	-	-	-	-
9 PM	-	-	-	-	-	-	-
10 PM	-	-	-	-	-	-	-
11 PM	-	-	-	-	-	-	-

Prorated Daily Helio Activity	2	1	1	2	1	2	1
Total Daily Aircraft Takeoffs	37	7	71	80	2	53	56

Prorated Total Helio Activity	10
Total Fixed-Wing Activity	296

**Total Aircraft Takeoffs 306**

Source: DVRPC

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## South Jersey Regional Airport (VAY)

**Burlington County**

**Lumberton, NJ 08060**

Runway Orientation: 08/26

Runway Length: 3,881 ft.

**Table 10: South Jersey Regional Airport (VAY) Based Aircraft**

Based Aircraft Fleet Mix	
Single-Engine	94
Multi-Engine	9
Jet	0
Helicopter	2
Glider	0
<b>Total</b>	<b>105</b>

*Source: AirNav.com, 2018*

South Jersey Regional Airport is owned by the New Jersey Department of Transportation. It is a public-use airport located four miles west of Mount Holly in Burlington County. South Jersey Regional's overall flight operations increased by 16 percent for this counting period compared to the previous counting period.

There are many active aircraft businesses located at South Jersey Regional Airport, such as:

- The Runway Café—restaurant and snack shop;
- Aero Club of New Jersey;
- Air Victory Museum—military aircraft displayed; and
- BP Air—an aircraft repair facility that offers major airframe and engine repairs.

Combined, these successful operations are responsible for maintaining a healthy business climate at South Jersey Regional Airport.

Figure 10: South Jersey Regional Airport (VAY) Aerial Photo



## DVRPC Aircraft Counting Program

Airport: South Jersey Regional Airport (VAY)

County: Burlington County, NJ

**Table 11: South Jersey Regional Airport (VAY) Annual Summary**

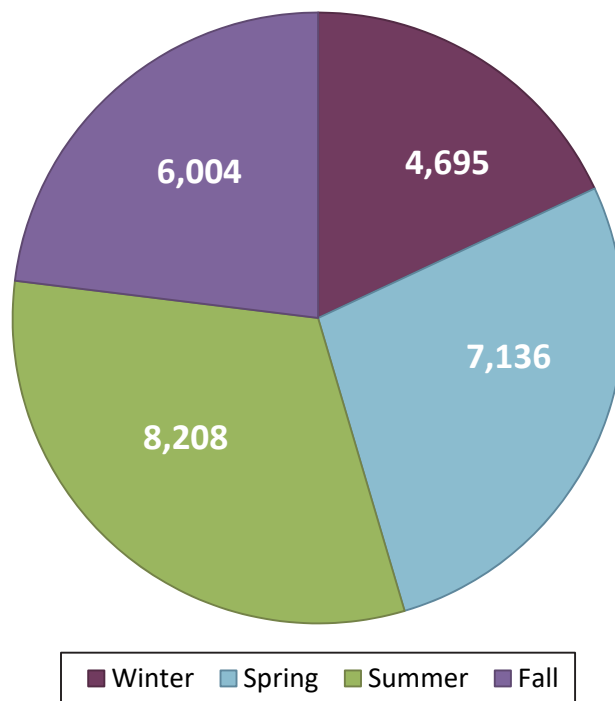
Season	Year	Average Daily Operations	Total Operations	Percentage of Annual Operations
Winter	2017	52.7	4,695	18%
Spring <sup>a</sup>	2017	76.7	7,136	27%
Summer	2017	87.3	8,208	32%
Fall	2017	67.5	6,004	23%
<b>Annual Operations:</b>	<b>2017</b>		<b>26,042</b>	

**Margin of Error: 14 at 95 percent confidence**

Source: DVRPC

<sup>a</sup> Spring counts were estimated at 27 percent of annual operations; values reflect this estimation method.

**Figure 11: South Jersey Regional Airport (VAY) Seasonal Summary**



Source: DVRPC

VAY–South Jersey Regional Airport

February 01, 2017, to February 07, 2017

Winter I 2017

Weekly Activity Report

	Wed 1-Feb	Thu 2-Feb	Fri 3-Feb	Sat 4-Feb	Sun 5-Feb	Mon 6-Feb	Tue 7-Feb
12 AM	-	-	-	-	-	-	-
1 AM	-	-	-	-	-	-	-
2 AM	-	-	-	-	-	-	-
3 AM	-	-	-	-	-	-	-
4 AM	-	-	-	-	-	-	-
5 AM	-	-	-	-	-	-	-
6 AM	-	-	-	-	-	-	-
7 AM	-	-	-	-	-	-	-
8 AM	-	2	-	-	-	1	1
9 AM	-	1	3	5	5	3	2
10 AM	-	-	1	3	3	2	-
11 AM	-	4	6	1	8	3	-
12 PM	-	1	1	2	6	1	-
1 PM	3	-	1	2	1	-	-
2 PM	5	4	6	2	2	3	-
3 PM	6	-	7	1	5	3	-
4 PM	6	2	3	2	7	1	1
5 PM	4	-	-	-	1	-	-
6 PM	-	-	-	-	-	-	1
7 PM	-	-	-	2	-	1	-
8 PM	-	-	-	-	-	-	-
9 PM	-	-	-	-	-	-	-
10 PM	-	-	-	-	-	-	-
11 PM	-	-	-	-	-	-	-

Prorated Daily Helio Activity	5	5	5	5	5	5	5
Total Daily Aircraft Takeoffs	29	19	33	25	43	23	10

Prorated Total Helio Activity	35
Total Fixed-Wing Activity	147

**Total Aircraft Takeoffs 182**

Source: DVRPC

VAY–South Jersey Regional Airport

March 03, 2017, to March 09, 2017

Winter II 2017

Weekly Activity Report

	Fri	Sat	Sun	Mon	Tue	Wed	Thu
	3-Mar	4-Mar	5-Mar	6-Mar	7-Mar	8-Mar	9-Mar
12 AM	-	-	-	-	-	-	-
1 AM	-	-	-	-	-	-	-
2 AM	-	-	-	-	-	-	-
3 AM	-	-	-	-	-	-	-
4 AM	-	-	-	-	-	-	-
5 AM	-	-	-	-	-	-	-
6 AM	-	-	-	-	-	-	-
7 AM	-	-	-	-	-	-	4
8 AM	2	-	1	2	1	-	2
9 AM	3	6	5	1	-	-	3
10 AM	5	-	4	3	1	2	1
11 AM	1	3	2	7	-	-	2
12 PM	2	-	4	4	1	-	5
1 PM	-	1	4	14	1	1	3
2 PM	-	2	7	-	2	-	-
3 PM	1	1	3	2	-	1	1
4 PM	-	1	7	4	-	-	3
5 PM	-	-	2	-	1	-	1
6 PM	-	-	-	-	2	1	3
7 PM	4	-	-	-	-	-	1
8 PM	-	-	-	1	-	-	-
9 PM	1	-	-	-	-	-	-
10 PM	-	-	-	-	-	-	-
11 PM	-	-	-	-	-	-	-
Prorated Daily Helio Activity	5	5	5	5	5	5	5
Total Daily Aircraft Takeoffs	24	19	44	43	14	10	34
Prorated Total Helio Activity	35						
Total Fixed-Wing Activity	153						

**Total Aircraft Takeoffs 188**

Source: DVRPC

VAY–South Jersey Regional Airport

July 30, 2017, to August 05, 2017

Summer I 2017

Weekly Activity Report

	Sun	Mon	Tue	Wed	Thu	Fri	Sat
	30-Jul	31-Jul	1-Aug	2-Aug	3-Aug	4-Aug	5-Aug
12 AM	-	-	-	-	-	-	-
1 AM	-	-	-	-	-	-	-
2 AM	-	-	-	-	-	-	-
3 AM	-	-	-	-	-	-	-
4 AM	-	-	-	-	-	-	-
5 AM	-	-	-	-	-	-	-
6 AM	-	1	-	-	-	-	-
7 AM	3	3	2	-	1	4	-
8 AM	1	1	5	2	-	4	-
9 AM	4	6	1	8	3	2	1
10 AM	18	4	2	3	-	2	5
11 AM	10	6	5	6	1	1	3
12 PM	5	4	1	1	8	1	4
1 PM	5	-	-	-	3	3	6
2 PM	5	2	4	4	-	1	6
3 PM	7	5	1	-	1	5	5
4 PM	5	1	3	1	1	2	2
5 PM	6	1	-	-	3	4	3
6 PM	4	6	3	-	1	-	6
7 PM	7	1	1	-	1	2	3
8 PM	1	1	-	2	2	5	1
9 PM	2	-	3	-	-	-	-
10 PM	-	-	-	-	1	-	-
11 PM	-	-	-	-	-	-	-
Prorated Daily Helio Activity	5	5	5	5	5	5	5
Total Daily Aircraft Takeoffs	88	47	36	32	31	41	50

Prorated Total Helio Activity 35

Total Fixed-Wing Activity 290

**Total Aircraft Takeoffs 325**

Source: DVRPC



VAY–South Jersey Regional Airport

September 09, 2017, to September 15, 2017

Summer II 2017

Weekly Activity Report

	Sat	Sun	Mon	Tue	Wed	Thu	Fri
	9-Sep	10-Sep	11-Sep	12-Sep	13-Sep	14-Sep	15-Sep
12 AM	-	-	-	-	-	-	-
1 AM	-	-	-	-	-	-	-
2 AM	-	-	-	-	-	-	-
3 AM	-	-	-	-	-	-	-
4 AM	-	-	-	-	-	-	-
5 AM	-	-	-	-	-	-	-
6 AM	-	-	1	1	-	-	-
7 AM	2	-	1	-	-	-	1
8 AM	6	-	-	-	-	1	-
9 AM	7	8	1	5	8	3	2
10 AM	14	5	1	1	1	1	8
11 AM	8	2	-	6	-	2	11
12 PM	2	6	1	6	-	-	1
1 PM	3	4	1	6	-	2	6
2 PM	15	3	3	7	-	1	1
3 PM	1	5	2	7	-	1	1
4 PM	2	2	2	1	-	4	2
5 PM	1	2	5	3	-	-	3
6 PM	4	2	5	1	-	1	3
7 PM	3	-	3	5	2	-	1
8 PM	-	-	1	1	-	-	-
9 PM	-	-	-	-	-	-	-
10 PM	-	-	-	1	-	-	-
11 PM	-	-	-	-	-	-	-
Prorated Daily Helio Activity	5	5	5	5	5	5	5
Total Daily Aircraft Takeoffs	73	44	32	56	16	21	45

Prorated Total Helio Activity 35

Total Fixed-Wing Activity 252

**Total Aircraft Takeoffs 287**

Source: DVRPC

VAY–South Jersey Regional Airport

October 06, 2017, to October 12, 2017

Fall I 2017

Weekly Activity Report

	Fri	Sat	Sun	Mon	Tue	Wed	Thu
	6-Oct	7-Oct	8-Oct	9-Oct	10-Oct	11-Oct	12-Oct
12 AM	-	-	-	-	-	-	-
1 AM	-	-	-	-	-	-	-
2 AM	-	-	-	-	-	-	-
3 AM	-	-	-	-	-	-	-
4 AM	-	-	-	-	-	-	-
5 AM	-	-	-	-	-	-	-
6 AM	-	1	-	1	-	2	-
7 AM	-	-	-	1	1	-	-
8 AM	3	2	-	-	1	-	-
9 AM	1	8	-	-	4	3	-
10 AM	6	8	1	-	3	1	2
11 AM	4	4	-	-	4	1	6
12 PM	3	9	-	-	5	2	4
1 PM	1	5	1	-	3	1	8
2 PM	-	4	-	1	1	1	-
3 PM	9	3	1	-	-	5	5
4 PM	11	2	4	1	5	3	3
5 PM	3	5	-	1	5	1	3
6 PM	1	2	1	-	2	1	-
7 PM	1	1	-	-	-	-	-
8 PM	-	-	-	-	-	-	-
9 PM	1	-	-	-	1	-	-
10 PM	1	1	-	-	-	-	1
11 PM	-	-	-	-	-	-	-
Prorated Daily Helio Activity	5	5	5	5	5	5	5
Total Daily Aircraft Takeoffs	50	60	13	10	40	26	37
Prorated Total Helio Activity	35						
Total Fixed-Wing Activity	201						

**Total Aircraft Takeoffs 236**

Source: DVRPC

**VAY–South Jersey Regional Airport**

**November 11, 2017, to November 17, 2017**

**Fall II 2017**

Weekly Activity Report

	Sat	Sun	Mon	Tue	Wed	Thu	Fri
	11-Nov	12-Nov	13-Nov	14-Nov	15-Nov	16-Nov	17-Nov
12 AM	-	-	-	-	-	-	-
1 AM	-	-	-	-	-	-	-
2 AM	-	-	-	-	-	-	-
3 AM	-	-	-	-	-	-	-
4 AM	-	-	-	-	-	-	-
5 AM	-	-	-	-	-	-	-
6 AM	-	-	-	-	-	2	-
7 AM	2	-	-	-	1	-	-
8 AM	3	4	-	1	-	-	-
9 AM	4	2	1	3	3	4	2
10 AM	9	3	-	4	6	2	1
11 AM	7	4	-	1	15	2	-
12 PM	1	10	-	1	4	3	-
1 PM	3	5	-	1	2	2	-
2 PM	8	2	-	1	6	1	1
3 PM	7	4	-	3	2	2	1
4 PM	9	10	4	-	1	-	4
5 PM	-	1	-	-	-	-	1
6 PM	-	-	-	-	1	-	-
7 PM	-	1	-	-	2	3	-
8 PM	-	3	-	-	1	2	-
9 PM	1	-	-	-	1	-	-
10 PM	-	1	-	-	-	-	-
11 PM	-	-	-	-	-	-	-
Prorated Daily Helio Activity	5	5	5	5	5	5	5
Total Daily Aircraft Takeoffs	59	55	10	20	50	28	15

Prorated Total Helio Activity	35
Total Fixed-Wing Activity	202

**Total Aircraft Takeoffs 237**

Source: DVRPC

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## Trenton-Robbinsville Airport (N87)

**Mercer County**

**Robbinsville, NJ 08691**

Runway Orientation: 11/29

Runway Length: 4,275 ft.

**Table 12: Trenton-Robbinsville Airport (N87) Based Aircraft**

Based Aircraft Fleet Mix	
Single-Engine	31
Multi-Engine	2
Jet	0
Helicopter	0
Glider	0
<b>Total</b>	<b>33</b>

*Source: AirNav.com, 2018*

Trenton-Robbinsville Airport is a privately owned, public-use airport located one mile east of Robbinsville, in Mercer County. Trenton-Robbinsville's overall flight operations decreased by 14 percent for this counting period compared to the 2013/14 period. This continues a downward trend of operations at Trenton-Robbinsville.

There are many active aircraft businesses located at Trenton-Robbinsville airport, such as:

- Posey Brothers, a specialist in the care and restoration of antique aircraft;
- Reese Aircraft (KD Aviation), a highly regarded aircraft painting business that has been based at Trenton-Robbinsville airport since 1981;
- Air-Mods, a specialized Mooney aircraft repair facility that offers repairs and custom modifications to Mooney, as well as other aircraft; and
- Air-Mods Flight Center, a flight instruction and aircraft rentals business.

Combined, these successful businesses are responsible for maintaining a healthy business climate at Trenton-Robbinsville airport.

Figure 12: Trenton-Robbinsville Airport (N87) Aerial Photo



## DVRPC Aircraft Counting Program

Airport: Trenton-Robbinsville Airport (N87)

County: Mercer County, NJ

**Table 13: Trenton-Robbinsville Airport (N87) Annual Summary**

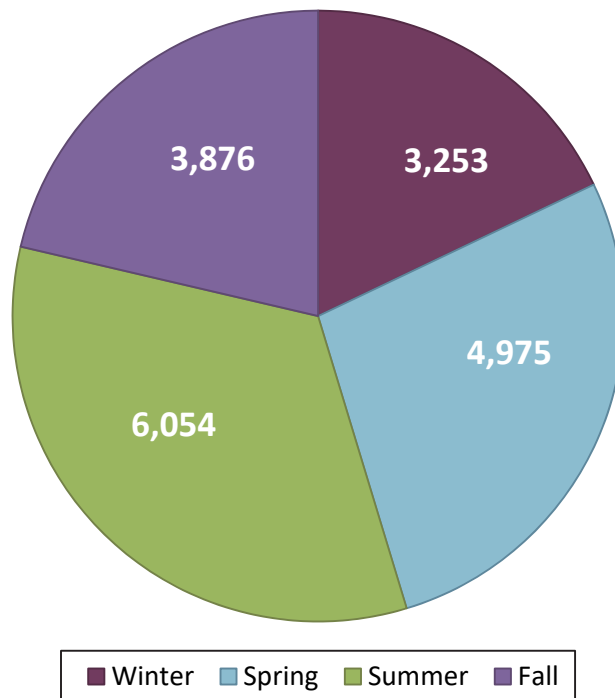
Season	Year	Average Daily Operations	Total Operations	Percentage of Annual Operations
Winter	2017	36.5	3,253	18%
Spring <sup>a</sup>	2017	53.5	4,975	27%
Summer	2017	64.4	6,054	33%
Fall	2017	43.5	3,876	21%
<b>Annual Operations:</b>	<b>2017</b>		<b>18,158</b>	

**Margin of Error: 18 at 95 percent confidence**

Source: DVRPC

<sup>a</sup> Spring counts were estimated at 27 percent of annual operations; values reflect this estimation method.

**Figure 13: Trenton-Robbinsville Airport (N87) Seasonal Summary**



Source: DVRPC

**N87–Trenton-Robbinsville Airport**

**February 01, 2017, to February 07, 2017**

**Winter I 2017**

Weekly Activity Report

	Wed	Thu	Fri	Sat	Sun	Mon	Tue
	1-Feb	2-Feb	3-Feb	4-Feb	5-Feb	6-Feb	7-Feb
12 AM	-	-	-	-	-	-	-
1 AM	-	-	-	-	-	-	-
2 AM	-	-	-	-	-	-	-
3 AM	-	-	-	-	-	-	-
4 AM	-	-	-	-	-	-	-
5 AM	-	-	-	-	-	-	-
6 AM	-	-	-	-	-	-	-
7 AM	1	1	-	-	-	1	1
8 AM	-	-	-	1	-	1	-
9 AM	3	1	-	6	-	-	1
10 AM	5	4	-	4	1	3	3
11 AM	3	-	-	16	-	1	-
12 PM	1	-	2	5	1	4	1
1 PM	1	1	1	4	-	-	1
2 PM	-	-	5	3	-	3	1
3 PM	3	-	4	1	1	1	2
4 PM	-	1	2	-	3	5	6
5 PM	-	-	4	2	-	12	3
6 PM	-	-	1	-	-	-	2
7 PM	2	-	-	-	-	-	-
8 PM	1	-	-	1	-	-	-
9 PM	-	-	-	-	-	-	-
10 PM	-	-	-	-	-	-	-
11 PM	-	-	-	-	-	-	-
Prorated Daily Helio Activity	1	-	-	-	-	-	1
Total Daily Aircraft Takeoffs	21	8	19	43	6	31	22
Prorated Total Helio Activity	2						
Total Fixed-Wing Activity	148						

**Total Aircraft Takeoffs 150**

Source: DVRPC



**N87–Trenton-Robbinsville Airport**

**March 03, 2017, to March 09, 2017**

**Winter II 2017**

Weekly Activity Report

	Fri	Sat	Sun	Mon	Tue	Wed	Thu
	3-Mar	4-Mar	5-Mar	6-Mar	7-Mar	8-Mar	9-Mar
12 AM	-	-	-	-	-	-	-
1 AM	-	-	-	-	-	-	-
2 AM	-	-	-	-	-	-	-
3 AM	-	-	-	-	-	-	-
4 AM	-	-	-	-	-	-	-
5 AM	-	-	-	-	-	-	-
6 AM	-	-	-	-	-	-	-
7 AM	-	-	-	-	-	-	-
8 AM	1	-	-	-	-	-	1
9 AM	-	5	-	-	-	1	-
10 AM	3	-	2	-	-	-	1
11 AM	2	2	3	-	-	-	2
12 PM	3	1	3	3	1	4	-
1 PM	1	-	2	1	-	-	3
2 PM	-	1	1	1	1	-	3
3 PM	-	-	3	4	1	2	5
4 PM	-	-	1	8	5	-	2
5 PM	-	-	1	6	-	-	-
6 PM	-	-	6	-	-	-	1
7 PM	-	-	3	1	-	-	1
8 PM	-	-	-	1	-	-	-
9 PM	-	-	-	-	-	-	-
10 PM	-	-	-	1	-	-	-
11 PM	-	-	-	-	-	-	-
Prorated Daily Helio Activity	1	-	-	-	-	-	1
Total Daily Aircraft Takeoffs	11	9	25	26	8	7	20
Prorated Total Helio Activity	2						
Total Fixed-Wing Activity	104						

**Total Aircraft Takeoffs 106**

Source: DVRPC

**N87–Trenton-Robbinsville Airport**

**July 28, 2017, to August 03, 2017**

**Summer I 2017**

Weekly Activity Report

	Fri	Sat	Sun	Mon	Tue	Wed	Thu
	28-Jul	29-Jul	30-Jul	31-Jul	1-Aug	2-Aug	3-Aug
12 AM	-	-	-	-	-	-	-
1 AM	-	-	-	-	-	-	-
2 AM	-	-	-	-	-	-	-
3 AM	-	-	-	-	-	-	-
4 AM	-	-	-	-	-	-	-
5 AM	-	-	-	-	-	-	-
6 AM	-	-	-	1	-	3	-
7 AM	-	2	1	5	1	2	-
8 AM	-	1	8	2	4	4	4
9 AM	-	-	4	2	2	11	5
10 AM	-	1	9	5	2	9	-
11 AM	1	1	7	10	1	2	-
12 PM	3	-	4	6	6	3	4
1 PM	10	-	2	7	4	5	3
2 PM	5	-	2	6	4	-	7
3 PM	4	-	3	5	3	2	2
4 PM	11	-	3	6	12	-	-
5 PM	6	-	1	12	5	-	-
6 PM	3	-	1	3	1	1	-
7 PM	-	-	2	2	-	1	-
8 PM	-	-	1	-	1	-	-
9 PM	-	-	-	-	-	-	-
10 PM	-	-	-	-	-	-	-
11 PM	-	-	-	-	-	-	-

Prorated Daily Helio Activity	1	-	-	-	-	-	1
Total Daily Aircraft Takeoffs	44	5	48	72	46	43	26

Prorated Total Helio Activity	2
Total Fixed-Wing Activity	282

**Total Aircraft Takeoffs 284**

Source: DVRPC

**N87–Trenton-Robbinsville Airport**

**September 09, 2017, to September 15, 2017**

**Summer II 2017**

**Weekly Activity Report**

	Sat	Sun	Mon	Tue	Wed	Thu	Fri
	9-Sep	10-Sep	11-Sep	12-Sep	13-Sep	14-Sep	15-Sep
12 AM	-	-	-	-	-	-	-
1 AM	-	-	-	-	-	-	-
2 AM	-	-	-	-	-	-	-
3 AM	-	-	-	-	-	-	-
4 AM	-	-	-	-	-	-	-
5 AM	-	-	-	-	-	-	-
6 AM	-	-	-	-	-	-	-
7 AM	-	-	2	-	-	-	-
8 AM	1	2	-	-	-	-	-
9 AM	-	-	1	2	1	-	-
10 AM	3	6	1	-	6	-	2
11 AM	4	-	-	5	-	2	2
12 PM	6	2	-	1	2	1	1
1 PM	4	2	-	2	1	2	3
2 PM	6	1	2	3	-	2	-
3 PM	1	1	2	2	-	2	2
4 PM	2	5	4	6	3	1	1
5 PM	1	2	9	7	3	1	1
6 PM	-	-	8	4	-	6	2
7 PM	-	-	2	-	-	2	1
8 PM	-	-	2	-	-	-	-
9 PM	-	-	-	-	-	-	-
10 PM	-	-	1	-	-	-	-
11 PM	-	-	-	-	-	-	-
Prorated Daily Helio Activity	1	-	-	-	-	-	1
Total Daily Aircraft Takeoffs	29	21	34	32	16	19	16
Prorated Total Helio Activity	2						
Total Fixed-Wing Activity	165						

**Total Aircraft Takeoffs 167**

Source: DVRPC

**N87–Trenton-Robbinsville Airport**

**October 06, 2017, to October 12, 2017**

**Fall I 2017**

Weekly Activity Report

	Fri	Sat	Sun	Mon	Tue	Wed	Thu
	6-Oct	7-Oct	8-Oct	9-Oct	10-Oct	11-Oct	12-Oct
12 AM	-	-	-	-	-	-	-
1 AM	-	-	-	-	-	-	-
2 AM	-	-	-	-	-	-	-
3 AM	-	-	-	-	-	-	-
4 AM	-	-	-	-	-	-	-
5 AM	-	-	-	-	-	-	-
6 AM	-	-	-	-	-	-	-
7 AM	-	-	-	-	7	-	-
8 AM	-	-	-	-	-	1	-
9 AM	1	1	-	-	1	1	-
10 AM	3	5	-	-	4	1	1
11 AM	1	3	-	-	1	8	-
12 PM	2	11	-	-	3	2	-
1 PM	3	3	-	-	1	1	-
2 PM	1	4	-	-	4	2	1
3 PM	-	3	-	-	9	3	1
4 PM	3	-	1	-	10	-	-
5 PM	-	-	-	-	8	-	-
6 PM	-	-	-	-	5	-	-
7 PM	-	-	-	-	3	-	-
8 PM	4	1	-	1	-	-	-
9 PM	-	3	-	-	-	-	-
10 PM	-	-	-	1	-	-	-
11 PM	-	-	-	-	-	-	-
Prorated Daily Helio Activity	1	-	-	-	-	1	-
Total Daily Aircraft Takeoffs	19	34	1	2	56	20	3
Prorated Total Helio Activity	2						
Total Fixed-Wing Activity	133						
<b>Total Aircraft Takeoffs</b>	<b>135</b>						

Source: DVRPC

**N87–Trenton-Robbinsville Airport**

**November 11, 2017, to November 17, 2017**

**Fall II 2017**

Weekly Activity Report

	Sat	Sun	Mon	Tue	Wed	Thu	Fri
	11-Nov	12-Nov	13-Nov	14-Nov	15-Nov	16-Nov	17-Nov
12 AM	-	-	-	-	-	-	-
1 AM	-	-	-	-	-	-	-
2 AM	-	-	-	-	-	-	-
3 AM	-	-	-	-	-	-	-
4 AM	-	-	-	-	-	-	-
5 AM	-	-	-	-	-	-	-
6 AM	-	-	-	-	-	-	-
7 AM	-	-	-	5	-	-	1
8 AM	-	2	-	3	-	-	4
9 AM	-	1	-	1	1	-	4
10 AM	-	1	-	-	-	-	2
11 AM	4	3	1	3	1	-	-
12 PM	1	3	-	7	-	4	5
1 PM	11	4	-	6	6	-	-
2 PM	11	8	-	6	8	-	4
3 PM	6	6	-	1	10	1	6
4 PM	2	3	-	1	4	-	4
5 PM	-	-	-	-	-	-	1
6 PM	1	-	-	-	-	-	-
7 PM	-	-	-	-	-	-	-
8 PM	-	-	-	-	-	-	-
9 PM	-	-	-	-	-	-	1
10 PM	-	-	-	-	-	-	-
11 PM	-	-	-	-	-	-	-
Prorated Daily Helio Activity	1	-	-	-	-	-	1
Total Daily Aircraft Takeoffs	37	31	1	33	30	5	33
Prorated Total Helio Activity	2						
Total Fixed-Wing Activity	168						

**Total Aircraft Takeoffs 170**

Source: DVRPC

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Geographic Area Covered: Burlington County and Mercer County in New Jersey; Chester County in Pennsylvania.

Key Words: Aircraft Operations, Helicopter Operations, Airports, Fixed-Wing Airplane, Rotorcraft, Takeoffs, Landings, Count, Activity, Estimate, Seasonal, Annual, Acoustic Counter, Based Aircraft, Runway Length

Abstract: This technical report presents aircraft operations estimates for five non-towered airports in the Delaware Valley aviation planning area. Acoustic counts were taken at each airport, starting in February 2017 and ending in December 2017; each sample covered seven continuous days. The samples were extrapolated over the entire year, and the results are presented in this report. Results are used by multiple sources to monitor aircraft activity levels in the Delaware Valley and as a base for planning and forecasting documents.

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