

DVRPC AIRCRAFT OPERATIONS COUNTING PROGRAM

2001/02

Operations for Seven Non-Towered Airports



DVRPC Aircraft Operations Counting Program
2001-02 Operations for Seven Non-Towered Airports

FINAL

December 2002

CASP XVIII

Created in 1965, the Delaware Valley Regional Planning Commission (DVRPC) is an interstate, intercounty and intercity agency that provides continuing, comprehensive and coordinated planning to shape a vision for the future growth of the Delaware Valley region. The region includes Bucks, Chester, Delaware, and Montgomery counties, as well as the City of Philadelphia, in Pennsylvania; and Burlington, Camden, Gloucester and Mercer counties in New Jersey. DVRPC provides technical assistance and services; conducts high priority studies that respond to the requests and demands of member state and local governments; fosters cooperation among various constituents to forge a consensus on diverse regional issues; determines and meets the needs of the private sector; and practices public outreach efforts to promote two-way communication and public awareness of regional issues and the Commission.



Our logo is adapted from the official DVRPC seal, and is designed as a stylized image of the Delaware Valley. The outer ring symbolizes the region as a whole, while the diagonal bar signifies the Delaware River. The two adjoining crescents represent the Commonwealth of Pennsylvania and the State of New Jersey.

DVRPC is funded by a variety of funding sources including federal grants from the U.S. Department of Transportation's Federal Highway Administration (FHWA) and Federal Transit Administration (FTA), the Pennsylvania and New Jersey departments of transportation, as well as by DVRPC's state and local member governments. This study is funded through the continuing aviation system planning grant (CASP XVIII) from the Federal Aviation Administration (FAA). The authors, however, are solely responsible for its findings and conclusions, which may not represent the official views or policies of the funding agencies.

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Foreword

The 2001/2002 DVRPC Aircraft Operations Counting Program has been funded by the Federal Aviation Administration (FAA) under CASP 18. The Counting Program is now in its 17th year and includes all non-towered general aviation and business airports from DVRPC's Regional Airport System Plan (RASP). Six to eight airports are counted during one year. The RASP contains 21 non-towered facilities, so that each facility is counted on a 3 or 4 year interval. All data between 1986 and today is available in report form through DVRPC's Office of Aviation.

The 2001/2002 counting program was significantly disrupted by the events of 9/11/01. Class B airspace restrictions eliminated all operations during the first two weeks following the terrorist attacks and limited the flow of operations for an additional two to four weeks, as well as urging recounts for portions of the second summer survey week. The recounts extended well into the early fall period and fall counts occurred later in the year than usual. This caused a decrease in operations compared to previous counts during this time period, but reflects the impact that 9-11 had on GA airports. Total operations have also decreased due to signs of economic slowdown, previous to 9-11.

Page v and the appendix illustrate the trends observed between the last counts in 1998 and the current 2001/02 survey.

In addition the report provides the Larson & Davis Acoustic Counter Software (ACS) weekly takeoff data as well as the seasonal and annual takeoff and landing totals, extracted from the DVRPC counting software for each surveyed airport in 2001/02. Overall an estimated 175,909 total annual operations were counted for the seven regional airports in this year's counting program, compared to 185,358 total annual operations in the previous 1998 program. This included the same seven regional airports, indicating a 5.1% decrease of total operation for 2001/02.

In some cases, variations to the above described results are found. Operations at the Cecil County Airport have doubled compared to operation losses at other facilities over their previous count. Between the last and current survey at Cecil County the airport underwent a major transformation causing this significant traffic increase. In 2001 the owner of the airport constructed a 3,000 foot new asphalt runway with partial (3/4) taxiway on top of the existing turf strip. In addition new hangar facilities were constructed and new tie-down spaces created. The total based aircraft contingent went up from 23 in 1998 to 40 (and increasing) in 2001/02.

At Cross Keys Airport the spring weekend traffic levels (May counts) are much higher than those recorded during the rest of the year. At most if not all airports in the RASP, seasonal operations levels vary. In the case of Cross Keys, summer counts were impacted by inclement weather periods and equipment failures during recount periods. Therefore, the summer count was pushed into September. Due to 9/11 a second summer count was invalid and could not be used, which triggered the necessity to use the initial first summer count again, as indicated on page 45. To offset potential operation losses during the summer count, due to these circumstances, the high weekend volumes during the spring count were not challenged. Historically Cross Keys has also shown significantly increased weekend operations levels, mainly caused by the strong sky diving operation based permanently at the airport. Regular operations start in the spring and last well into the fall.

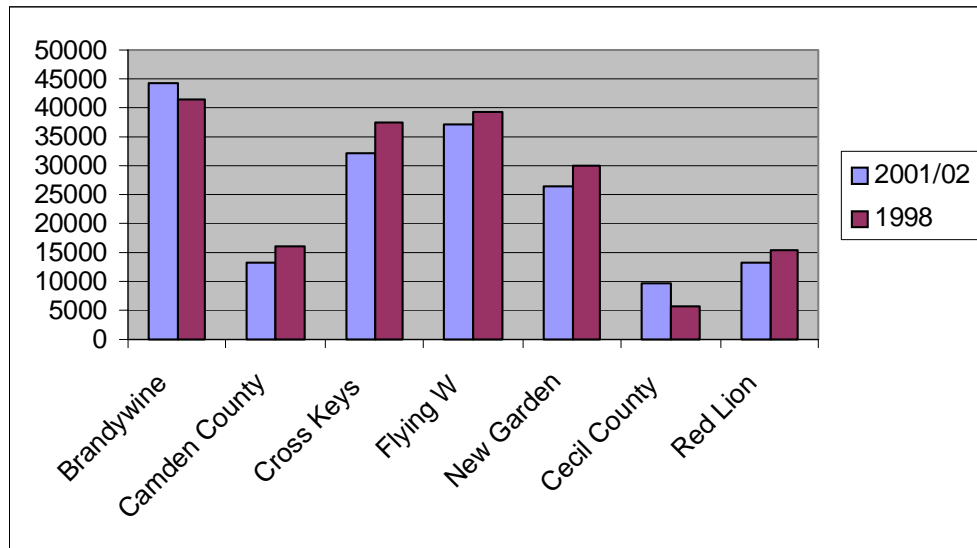
The following procedure is applied to all counts during the entire program. Eight one-week long counting surveys are taken over the course of one calendar year. These counts are scheduled twice each season. A four to six week interval between counts occurs before the equipment is set at the same airport again. Keeping the intervals between setting and resetting of the counters at each airport as consistent as possible ensures the most accurate statistical operations estimate. The LDL 820 Sound Level Meter is activated by set minimum noise levels only during aircraft takeoff activity. The data collected is saved to the LDL 820 memory. Staff collects the equipment after each week of counts. The data is downloaded to the ACS and then checked manually for eventual errors. The ACS report format displays weekly aircraft operations (takeoffs only, since most propeller landings are almost silent) by hour and day for each week counted. Finally the data is entered into and extrapolated by the DVRPC counting software, which forecasts seasonal and annual total takeoffs and landings.

The data is then adjusted in cases where necessary, due to inclement weather conditions and where time restrictions made a recount impossible. In this year's case for the late summer and fall surveys, this impacted normal seasonal operations.

Historic counting data since 1986 is also available for all RASP airports through the Aviation Planning Office. Please contact Reiner Pelzer or Skip Coon at (215) 592-1800, or via e-mail at rpelzer@dvrpc.org, jcoon@dvrpc.org for more information.

Total Annual Operation Estimates (Comparison)

Airport	2001 / 02	1998	Quantity Difference	Percentile Difference
Brandywine	44392	41254	3138	7.61
Camden County	13227	16143	-2916	-18.06
Cross Keys	32056	37540	-5484	-14.61
Flying W	37210	39361	-2151	-5.46
New Garden	26340	30025	-3685	-12.27
Cecil County	9594	5662	3932	69.45
Red Lion	13090	15373	-2283	-14.85
Total Operations	175909	185358	-9449	-5.10



Brandywine Airport

Chester County

West Chester, PA 19380

Runway:	9/27
Runway length:	3370 ft.
Runway type:	Asphalt
Total Based Aircraft:	130

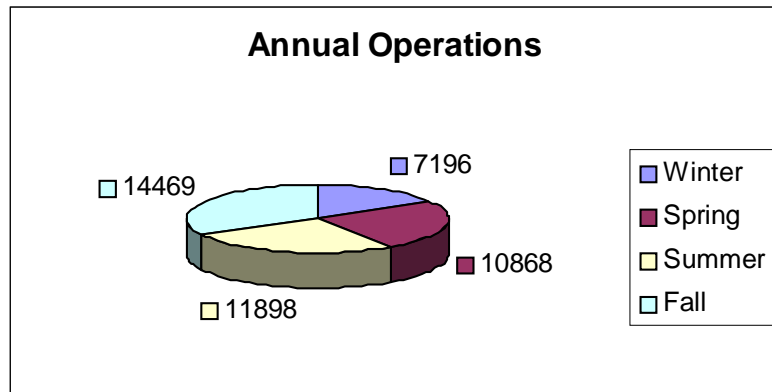
DVRPC Aircraft Counting

Program Annual Summary

Airport: Brandywine

County: **Chester**

Season & Year		Average Daily Operations	Total Seasonal Operations	Percentage of Annual Operations
Winter	2001/02	80.9	7196	16%
Spring	2002	116.9	10868	24%
Summer	2001	126.6	11898	27%
Fall	2001	162.6	14469	33%
Total Annual Operations:			44431	100%
Margin of Error:			9 at 95% Confidence	



Weekly Activity Report For: 11 Dec 2001 - 17 Dec 2001
BRA Brandywine Airport

Day->	11-Dec	12-Dec	13-Dec	14-Dec	15-Dec	16-Dec	17-Dec
12 am							
1 am							
2 am							
3 am							
4 am							
5 am							
6 am							
7 am		3			1		
8 am		11			2		
9 am	1	8					
10 am	1	5		2	2		
11 am	7	5	3		7		
12 pm	2	8			1		
1 pm	10	7			2		
2 pm	3	6	1		7		
3 pm	3	6	1	1	3		
4 pm	13	2			1		
5 pm	3				1		
6 pm	1	1					
7 pm	1				1		
8 pm	2						
9 pm	1						
10 pm							
11 pm							
Total							
Events=	48	62	5	3	28	0	0

Total Aircraft Takeoffs = 146

Weekly Activity Report For: 24 Jan 2002 - 30 Jan 2002
 BRA Brandywine Airport

Day->	24-Jan	25-Jan	26-Jan	27-Jan	28-Jan	29-Jan	30-Jan
12 am							
1 am							
2 am							
3 am							
4 am							
5 am						2	
6 am							
7 am		1	2	2	3	2	
8 am		2	8	8	1	7	2
9 am		1	7	5	3	3	
10 am		2	8	8	5	8	2
11 am	3		5	9		3	2
12 pm		1	8	2	3	3	7
1 pm		4	3	11	3	7	3
2 pm	1	2	11	4	4	6	2
3 pm	1	5	8	5	3	13	
4 pm		10	4	4		5	4
5 pm		1		3	1	3	
6 pm		2			2	2	
7 pm		2			1	1	
8 pm					1		
9 pm							
10 pm							
11 pm							
Total							
Events=	5	33	64	61	30	65	22

Total Aircraft Takeoffs = 280

Weekly Activity Report For: 24 Apr 2002 - 30 Apr 2002
 BRA Brandywine Airport

Day->	24-Apr	25-Apr	26-Apr	27-Apr	28-Apr	29-Apr	30-Apr
12 am							
1 am							
2 am							
3 am							
4 am							
5 am			1				
6 am	1		1			1	1
7 am	2	1		3	3	5	
8 am	3	5	1	4	4	1	4
9 am	2		2	16	16	1	3
10 am	1		7	8	8	1	8
11 am	2	1	3	10	10	1	5
12 pm		5	1	10	10	1	6
1 pm		5	2	2	2	5	5
2 pm		1	2	6	6	5	6
3 pm		1	3	6	6	2	2
4 pm	4	5	3	4	4	1	1
5 pm	2	5		3	3	5	
6 pm	7		4	3	3	1	
7 pm	4	5	3	3	3	2	
8 pm	3					5	
9 pm			1			5	
10 pm			1				
11 pm							
Total							
Events=	31	34	35	78	78	42	41

Total Aircraft Takeoffs = 339

Weekly Activity Report For: 24 Apr 2002 - 30 Apr 2002*
 BRA Brandywine Airport

Day->	24-Apr	25-Apr	26-Apr	27-Apr	28-Apr	29-Apr	30-Apr
12 am							
1 am							
2 am							
3 am							
4 am							
5 am			1				
6 am	1		1			1	1
7 am	2	1		3	3	5	
8 am	3	5	1	4	4	1	4
9 am	2		2	16	16	1	3
10 am	1		7	8	8	1	8
11 am	2	1	3	10	10	1	5
12 pm		5	1	10	10	1	6
1 pm		5	2	2	2	5	5
2 pm		1	2	6	6	5	6
3 pm		1	3	6	6	2	2
4 pm	4	5	3	4	4	1	1
5 pm	2	5		3	3	5	
6 pm	7		4	3	3	1	
7 pm	4	5	3	3	3	2	
8 pm	3					5	
9 pm			1			5	
10 pm			1				
11 pm							
Total							
Events=	31	34	35	78	78	42	41

Total Aircraft Takeoffs = 339

*Duplicated count due to 9/11. Recount was not possible, time restrictions.

Weekly Activity Report For: 12 Jul 2001 - 18 Jul 2001
 BRA Brandywine Airport

Day->	12-Jul	13-Jul	14-Jul	15-Jul	16-Jul	17-Jul	18-Jul
12 am							
1 am							
2 am							
3 am							
4 am							
5 am				1	1		
6 am					1		
7 am	2	1	2	1	1	1	3
8 am	3	2	3	2	2		
9 am	11	3	2	4		3	
10 am	3		4	1	3	3	
11am	1	4	3	3	3	2	2
12 pm	4	4	5	6	6	3	1
1 pm		5	2	6	1	2	
2 pm	2	8	1	7	2		
3 pm	1	13	2	2	5	1	1
4 pm	5	2	6	3	6	3	7
5 pm	11	3	5	9	2	1	5
6 pm	9	5	1	5	3	2	
7 pm	7	3	3	9	2	2	5
8 pm	7	3	5	5			1
9 pm	2	2	1				
10 pm			1			2	
11 pm	1			1			
Total							
Events=	69	58	46	65	38	25	25

Total Aircraft Takeoffs = 326

Weekly Activity Report For: 04 Jun 2002 - 10 Jun 2002
 BRA Brandywine Airport

Day->	4-Jun	5-Jun	6-Jun	7-Jun	8-Jun	9-Jun	10-Jun
12 am							
1 am							
2 am							
3 am							
4 am							
5 am							
6 am	1	1			2		
7 am	1	2		11	2		1
8 am	1	4		3	11	10	6
9 am	4	4	2	4	9	12	10
10 am	6	4	3	5	8	5	1
11 am	2		2	7	5	5	2
12pm	2	2	8	7	5	8	7
1 pm	2	1	6	6	8	7	
2 pm	1	2	2	7	9	2	3
3 pm	1	1	1	14	6	2	6
4 pm	5	2	1	12	6	7	8
5 pm	7	5		6	2	1	5
6 pm	11	7		11	1	3	1
7 pm	2		1	10	1	4	2
8 pm	2	7		2	1	1	1
9 pm	2			1			
10 pm							
11 pm							
Total							
Events=	50	42	26	106	76	67	53

Total Aircraft Takeoffs = 420

Weekly Activity Report For: 27 Nov 2001 - 03 Dec 2001
 BRA Brandywine Airport

Day->	27-Nov	28-Nov	29-Nov	30-Nov	1-Dec	2-Dec	3-Dec
12 am	1						
1 am							
2 am							
3 am							
4 am							
5 am							
6 am			1				1
7 am	7		1		2	1	2
8 am	11			1	11	8	1
9 am	7	2	10	1	16	9	5
10 am	12		7	10	19	15	8
11 am	4	5	10	1	8	10	10
12 pm	12	6	10	1	5	5	9
1 pm	5	12		1	16	6	1
2 pm	5	14	10	5	10	14	3
3 pm	11	14		2	9	13	3
4 pm	2	14	1	10	12	8	7
5 pm	9			10			5
6 pm		1		10	2	2	
7 pm	1				1	1	2
8 pm	1			1	1	1	
9 pm							
10 pm							
11 pm							
Total							
Events=	88	68	50	53	112	93	57

Total Aircraft Takeoffs = 521

Weekly Activity Report For: 04 Dec 2001 - 10 Dec 2001
 BRA Brandywine Airport

Day->	4-Dec	5-Dec	6-Dec	7-Dec	8-Dec	9-Dec	10-Dec
12 am							
1 am							
2 am							
3 am							
4 am						1	
5 am						1	
6 am							1
7 am	1	6	3	5	1	1	1
8 am	6	15	8	11	11	3	10
9 am	2	8	6	8	16		11
10 am	14	5	8	4	20	3	12
11 am	7	3	4	8	13	2	6
12 pm	3	7	2	3	9	1	8
1 pm	3	8	4	6	5		16
2 pm	12	19	2	8		2	5
3 pm	5	3	5	4		6	7
4 pm	13	2	10	6		1	3
5 pm	3	10	7			4	2
6 pm		2	2	2			1
7 pm	2	4					
8 pm							
9 pm	5						
10 pm							
11 pm							
Total							
Events=	76	92	61	65	75	25	83

Total Aircraft Takeoffs = 477

Camden County Airport

Camden County

Berlin, NJ 08009

Runway:	05/23
Runway length:	3100 ft.
Runway type:	Asphalt
Total Based Aircraft:	32

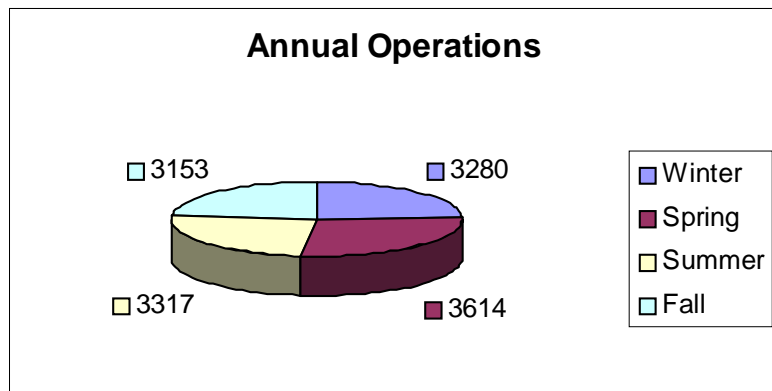
DVRPC Aircraft Counting

Program Annual Summary

Airport: **Camden County**

County: **Camden**

Season & Year		Average Daily Operations	Total Seasonal Operations	Percentage of Annual Operations
Winter	2001/02	36.9	3280	24%
Spring	2002	38.9	3614	27%
Summer	2001	25.9	3317	25%
Fall	2001	35.4	3153	24%
Total Annual Operations:			13418	100%
Margin of Error:			8 at 95% Confidence	



Weekly Activity Report For: 17 Jan 2002 - 23 Jan 2002
 CAM Camden County Airport

Day->	17-Jan	18-Jan	19-Jan	20-Jan	21-Jan	22-Jan	23-Jan
12 am							
1 am							
2 am							
3 am							
4 am							
5 am							
6 am							
7 am		1					
8 am	1	1				1	
9 am	1	3	2		1	2	1
10 am				3		1	
11 am	1		5	8			
12 pm	2	1		1			
1 pm	5		5	1			
2 pm	5	1				2	5
3 pm	1		5	3		4	
4 pm	1	2		3			
5 pm	1	1					5
6 pm	1				1		
7 pm							
8 pm							
9 pm				1			
10 pm							
11 pm							
Total							
Events=	19	10	17	20	2	10	11

Total Aircraft Takeoffs = 89

Weekly Activity Report For: 15 Feb 2002 - 21 Feb 2002
 CAM Camden County Airport

Day->	15-Feb	16-Feb	17-Feb	18-Feb	19-Feb	20-Feb	21-Feb
12 am							
1 am							
2 am							
3 am							
4 am							
5 am							
6 am							
7 am							
8 am	1	1	1			5	1
9 am	1	8	1		1		1
10 am		1	2		1	5	
11 am	1	2	1		1		1
12 pm	1	3	4		1	5	2
1 pm	3		3	5	1		5
2 pm		1					5
3 pm	2			5			
4 pm	2	1			4		
5 pm	2	2		5	1		
6 pm							
7 pm							
8 pm							
9 pm							
10 pm							
11 pm							
Total							
Events=	13	19	12	15	10	15	15

Total Aircraft Takeoffs = 99

Weekly Activity Report For: 03 May 2002 - 09 May 2002
 CAM Camden County Airport

Day->	3-May	4-May	5-May	6-May	7-May	8-May	9-May
12 am							
1 am							
2 am							
3 am							
4 am							
5 am							
6 am			1	1			
7 am		1	1				
8 am		2	1	1		1	
9 am	1	3	1		1		5
10 am	1	1	2	5	1	1	
11 am		2	2			4	5
12 pm		1	1	2	1	2	
1 pm	1	2	3	1			5
2 pm		2					
3 pm		1	2		1	2	4
4 pm	5	2		5			
5 pm	5	1	2		2		
6 pm				1	3		
7 pm							
8 pm	1		1				
9 pm	1						
10 pm							
11 pm							
Total							
Events=	15	18	17	16	9	10	19

Total Aircraft Takeoffs = 104

Weekly Activity Report For: 05 Jun 2002 - 11 Jun 2002
 CAM Camden County Airport

Day->	5-Jun	6-Jun	7-Jun	8-Jun	9-Jun	10-Jun	11-Jun
12 am	1						
1 am							
2 am							
3 am							
4 am							
5 am							
6 am					1		
7 am				2		2	
8 am	1		1	1	2	1	
9 am	2				1	5	
10 am			5	1	2		1
11 am			1	3	1	1	
12 pm			1	1	1		2
1 pm				3			1
2 pm			5	3	5	5	
3 pm	2	2	2	2			
4 pm			2	2	5		2
5 pm			2	1		1	1
6 pm		4		1			
7 pm		1			2	1	
8 pm					1		
9 pm				1			
10 pm							
11 pm						1	
Total							
Events=	6	7	19	21	21	17	7

Total Aircraft Takeoffs = 98

Weekly Activity Report For: 03 Jul 2001 - 09 Jul 2001
 CAM Camden County Airport

Day->	3-Jul	4-Jul	5-Jul	6-Jul	7-Jul	8-Jul	9-Jul
12 am							
1 am							
2 am							
3 am							
4 am							
5 am							
6 am					1		
7 am		5					
8 am			1	1	1		2
9 am	1		4	3	1	1	
10 am		1	4	1		3	
11 am			1	1	2	5	2
12 pm	1	1		2	3		
1 pm					1		2
2 pm		5		1	4		
3 pm	2		1		2	2	
4 pm	1	5	1	1		4	
5 pm				2			
6 pm		5		1			
7 pm		1		1		1	
8 pm	1						
9 pm							
10 pm				1			
11 pm							
Total							
Events=	6	23	12	15	15	16	6

Total Aircraft Takeoffs = 93

Weekly Activity Report For: 24 Aug 2001 - 30 Aug 2001
 CAM Camden County Airport

Day->	24-Aug	25-Aug	26-Aug	27-Aug	28-Aug	29-Aug	30-Aug
12 am							
1 am							
2 am							
3 am							
4 am			1				
5 am							
6 am			5				
7 am		1			1		
8 am		2	2			1	
9 am		3			1		1
10 am	1	2	1		1		4
11 am			1		1		
12 pm	1	1	1			2	
1 pm	1	1	5	1			
2 pm		1		1	1		1
3 pm		3	2			1	1
4 pm			2		1	2	2
5 pm	1					1	1
6 pm							
7 pm	1	1	1				
8 pm	1			14		3	
9 pm	1	1				1	
10 pm							
11 pm		1					
Total							
Events=	7	17	21	16	6	11	10

Total Aircraft Takeoffs = 88

Weekly Activity Report For: 24 Oct 2001 - 30 Oct 2001
 CAM Camden County Airport

Day->	24-Oct	25-Oct	26-Oct	27-Oct	28-Oct	29-Oct	30-Oct
12 am							
1 am							
2 am							
3 am							
4 am							
5 am							
6 am							
7 am						2	
8 am	5			2			2
9 am		2		2	10		
10 am	5						
11 am			10			2	
12 pm	5		2				
1 pm					2	4	
2 pm		4			2		
3 pm	2			4	2	4	
4 pm		4				2	
5 pm		2					
6 pm		6					
7 pm							
8 pm							
9 pm							
10 pm						2	
11 pm							
Total							
Events=	17	18	12	8	16	16	2

Total Aircraft Takeoffs = 89

Weekly Activity Report For: 24 Oct 2001 - 30 Oct 2001**
 CAM Camden County Airport

Day->	24-Oct	25-Oct	26-Oct	27-Oct	28-Oct	29-Oct	30-Oct
12 am							
1 am							
2 am							
3 am							
4 am							
5 am							
6 am							
7 am						2	
8 am	5			2			2
9 am		2		2	10		
10 am	5						
11 am			10			2	
12 pm	5		2				
1 pm					2	4	
2 pm		4			2		
3 pm	2			4	2	4	
4 pm		4				2	
5 pm		2					
6 pm		6					
7 pm							
8 pm							
9 pm							
10 pm						2	
11 pm							
Total							
Events=	17	18	12	8	16	16	2

Total Aircraft Takeoffs = 89

** Duplicated count due to 9/11. Recount was not possible, time restrictions.

Cecil County Airport

Cecil County

Elkton, MD 21922

Runway:	13/31
Runway length:	3000 ft.
Runway type:	Asphalt
Total Based Aircraft:	40

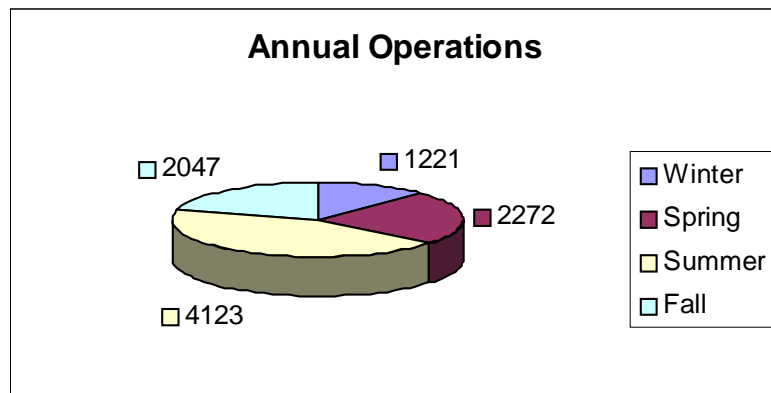
DVRPC Aircraft Counting

Program Annual Summary

Airport: **Cecil County**

County: **Cecil**

Season & Year		Average Daily Operations	Total Seasonal Operations	Percentage of Annual Operations
Winter	2001/02	13.7	1221	13%
Spring	2002	24.4	2272	24%
Summer	2001	43.9	4123	43%
Fall	2001	23.0	2047	21%
Total Annual Operations:			9662	100%
Margin of Error:			18 at 95% Confidence	



Weekly Activity Report For: 31 Jan 2002 - 06 Feb 2002
CEC Cecil County Airport

Day->	31-Jan	1-Feb	2-Feb	3-Feb	4-Feb	5-Feb	6-Feb
12 am							
1 am							
2 am							
3 am							
4 am							
5 am							
6 am							
7 am							
8 am	1						
9 am	2		1				
10 am	1		1	2			
11 am	1		1	2			
12 pm	1		1				1
1 pm							
2 pm				1		1	
3 pm			3	2			
4 pm			8				1
5 pm							
6 pm							
7 pm							
8 pm							
9 pm							
10 pm							
11 pm							
Total Events=	6	0	15	7	0	1	2

Total Aircraft Takeoffs = 31

Weekly Activity Report For: 21 Mar 2002 - 27 Mar 2002
 CEC Cecil County Airport

Day->	21-Mar	22-Mar	23-Mar	24-Mar	25-Mar	26-Mar	27-Mar
12 am							
1 am							
2 am		1					
3 am							
4 am							
5 am							
6 am							
7 am	2		1				
8 am							1
9 am	4			2			
10 am		2	1	5	1		1
11 am	4		1	1			
12 pm	1		1	2			
1 pm	3			1	1		
2 pm			1	3			1
3 pm	1	1	1	2	1		
4 pm				1			1
5 pm	3			7	2		1
6 pm							
7 pm				1			
8 pm							
9 pm							
10 pm							
11 pm							
Total							
Events=	18	4	6	25	5	0	5

Total Aircraft Takeoffs = 63

Weekly Activity Report For: 10 May 2001 - 16 May 2001
 CEC Cecil County Airport

Day->	10-May	11-May	12-May	13-May	14-May	15-May	16-May
12 am							
1 am							
2 am							
3 am							
4 am							
5 am							
6 am							
7 am							
8 am							
9 am		1		2			
10 am		2			3		
11 am		2	3				4
12 pm	1		1	2		1	2
1 pm			1	1			
2 pm	1	1				2	
3 pm		2	1				
4 pm	4				2	2	4
5 pm	2			1			1
6 pm	1		2		2		
7 pm			1				2
8 pm	1						
9 pm							
10 pm							
11 pm							
Total							
Events=	10	8	9	6	7	5	13

Total Aircraft Takeoffs = 58

Weekly Activity Report For: 24 Apr 2002 - 30 Apr 2002
 CEC Cecil County Airport

Day->	24-Apr	25-Apr	26-Apr	27-Apr	28-Apr	29-Apr	30-Apr
12 am							
1 am							
2 am							
3 am							
4 am							
5 am	1						
6 am	2						3
7 am	2		1				1
8 am	4						1
9 am				1			1
10 am			3	1			1
11 am			2	2			1
12 pm			2	2			1
1 pm	2		4	1			
2 pm	2		2	1			1
3 pm				3			
4 pm	2		1	2		1	2
5 pm	2		2	9			
6 pm	2			1			
7 pm	2		1	1		1	
8 pm	5					3	
9 pm							
10 pm							
11 pm			1				
Total							
Events=	26	0	19	24	0	5	12

Total Aircraft Takeoffs = 86

Weekly Activity Report For: 12 Jul 2001 - 18 Jul 2001
 CEC Cecil County Airport

Day->	12-Jul	13-Jul	14-Jul	15-Jul	16-Jul	17-Jul	18-Jul
12 am							
1 am							
2 am							
3 am							
4 am							
5 am							
6 am							
7 am							
8 am	2	1					
9 am	4	2		1	1		
10 am		1	2	1			
11 am	1	2	1	7	1	1	
12 pm	1	2	4				1
1 pm	1	2	2	1	1		
2 pm		2	2	3			3
3 pm	1	1	7	6			
4 pm	1	2	8	4	2	1	
5 pm	5	1	8	6			
6 pm	3	2	4	7			2
7 pm	2		3	2	4		5
8 pm	1		1		1		3
9 pm			1				
10 pm							
11 pm							
Total							
Events=	22	18	43	38	10	16	0

Total Aircraft Takeoffs = 147

Weekly Activity Report For: 28 May 2002 - 03 Jun 2002
 CEC Cecil County Airport

Day->	28-May	29-May	30-May	31-May	1-Jun	2-Jun	3-Jun
12 am							
1 am							
2 am							
3 am							
4 am							
5 am							
6 am	1						
7 am	1				1		
8 am	6	2			4	1	1
9 am	8		2	1	5		8
10 am	1	6	4	9	11	7	4
11 am	1			4	2	1	4
12 pm		2	1				3
1 pm	1		1		1	1	
2 pm	3	1	1	1	2		1
3 pm					1		
4 pm	1		2		1	3	2
5 pm			7		1	2	3
6 pm		1	2		1	1	2
7 pm						1	
8 pm		1	1			2	
9 pm							
10 pm		1		8			
11 pm							
Total							
Events=	23	14	21	23	30	19	28

Total Aircraft Takeoffs = 158

Weekly Activity Report For: 30 Nov 2001 - 6 Dec 2001
 CEC Cecil County Airport

Day->	30-Nov	1-Dec	2-Dec	3-Dec	4-Dec	5-Dec	6-Dec
12 am							
1 am							
2 am							
3 am							
4 am							
5 am							
6 am	1						
7 am	4						
8 am					1		
9 am		4	3	3		1	
10 am		2	3	1		1	1
11 am		3	1	1		3	1
12 pm	1	5		5			1
1 pm	1	10		5	1		3
2 pm		6		5		2	1
3 pm		6		1	2	1	
4 pm			1				
5 pm							
6 pm				1		2	
7 pm				2			
8 pm							
9 pm							
10 pm							
11 pm							
Total							
Events=	7	36	8	24	4	10	7

Total Aircraft Takeoffs = 96

Weekly Activity Report For: 10 Dec 2001 - 16 Dec 2001
 CEC Cecil County Airport

Day->	10-Dec	11-Dec	12-Dec	13-Dec	14-Dec	15-Dec	16-Dec
12 am							
1 am							
2 am							
3 am							
4 am							
5 am							
6 am							
7 am							
8 am							
9 am		2		1		2	
10 am	1	1			1	6	
11 am	2	1		1	2	4	
12 pm				1		1	
1 pm			1			1	
2 pm		1		1	1	2	
3 pm			5	5		7	2
4 pm	1		5			2	
5 pm			1				
6 pm						1	
7 pm							
8 pm							
9 pm							
10 pm	1						
11 pm							
Total							
Events=	5	5	12	9	4	26	2

Total Aircraft Takeoffs = 63

Cross Keys Airport

Gloucester County

Williamstown, NJ 08094

Runway:	09/27
Runway length:	3503 ft.
Runway type:	Asphalt
Total Based Aircraft:	68

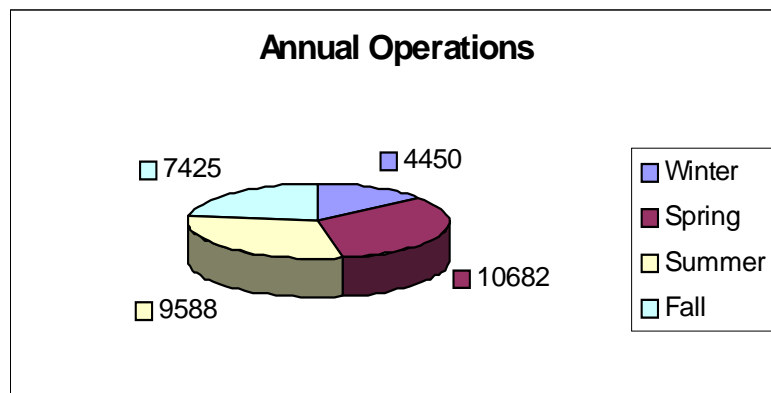
DVRPC Aircraft Counting

Program Annual Summary

Airport: **Cross Keys**

County: **Gloucester**

Season & Year		Average Daily Operations	Total Seasonal Operations	Percentage of Annual Operations
Winter	2001/02	50.0	4450	14%
Spring	2002	114.9	10682	33%
Summer	2001	102.0	9588	30%
Fall	2001	83.4	7425	23%
Total Annual Operations:			32145	100%
Margin of Error:			17 at 95% Confidence	



Weekly Activity Report For: 17 Jan 2002 - 23 Jan 2002
 CRO Cross Keys Airport

Day->	17-Jan	18-Jan	19-Jan	20-Jan	21-Jan	22-Jan	23-Jan
12 am							
1 am							
2 am							
3 am							
4 am							
5 am							
6 am							
7 am							
8 am	5		2	5			5
9 am		5	1		2		
10 am	5	2	2	5	1	2	5
11 am		2	5	2	5	5	
12 pm		2		2		2	5
1 pm		2	5	1		1	
2 pm		5		2	5	1	5
3 pm			5	1	2	2	
4 pm				2	1	5	
5 pm			5	5		1	
6 pm							
7 pm	1			5			
8 pm	1						
9 pm							
10 pm							
11 pm							
Total							
Events=	12	18	25	30	16	19	20

Total Aircraft Takeoffs = 140

Weekly Activity Report For: 15 Feb 2002 - 21 Feb 2002
 CRO Cross Keys Airport

Day->	15-Feb	16-Feb	17-Feb	18-Feb	19-Feb	20-Feb	21-Feb
12 am							
1 am							
2 am							
3 am							
4 am							
5 am							
6 am			1				
7 am		2	5				
8 am		5	1	5	1		
9 am	5	11	3	1	1		
10 am	2	5	4	5	1		1
11 am	1	4	2		1	5	3
12 pm	3	3	1	5			3
1 pm	7	4	5		1	5	1
2 pm	4		2	5	2		5
3 pm	2		4		6	5	
4 pm	3		5		5		5
5 pm	7				6	5	
6 pm	3				4		
7 pm							
8 pm							
9 pm							
10 pm							
11 pm					1		
Total							
Events=	37	34	33	21	29	20	18

Total Aircraft Takeoffs = 192

Weekly Activity Report For: 01 May 2001 - 07 May 2001
 CRO Cross Keys Airport

Day->	1-May	2-May	3-May	4-May	5-May	6-May	7-May
12 am							
1 am							
2 am							
3 am							
4 am							
5 am							
6 am							
7 am							3
8 am			2		6	4	
9 am		3	5	1	18	6	3
10 am				2	23	10	1
11 am				3	26	8	1
12 pm		1	4	2	14	7	4
1 pm	5	2	3	1	13	16	6
2 pm	3	1	6	4	9	7	4
3 pm	2	1	5	5	10	6	1
4 pm	4	3	7	7	5	8	2
5 pm	7	1	6	8	7	5	10
6 pm	4	3	5	7	2	4	2
7 pm	3	2	1	3	4	3	2
8 pm	1	1		1	3	1	2
9 pm				1			
10 pm				1			
11 pm			1				
Total							
Events=	29	18	45	46	140	85	41

Total Aircraft Takeoffs = 404

Weekly Activity Report For: 02 May 2002 - 08 May 2002
 CRO Cross Keys Airport

Day->	2-May	3-May	4-May	5-May	6-May	7-May	8-May
12 am							
1 am							
2 am							
3 am							
4 am							
5 am							
6 am							
7 am			3	3	1		
8 am			14		2		
9 am			23	15	8	10	5
10 am			19	14	7	4	5
11 am			18	17	3	4	1
12 pm			11	16	4	4	1
1 pm			10	5	5	2	7
2 pm		1	11	8		4	15
3 pm			7	9	2	3	6
4 pm			7	7		2	2
5 pm			10	7		2	1
6 pm			4	5	1		5
7 pm			6	3			5
8 pm			7				
9 pm			1				
10 pm							
11 pm							
Total							
Events=	0	1	151	109	33	35	53

Total Aircraft Takeoffs = 382

Weekly Activity Report For: 03 Sep 2001 - 09 Sep 2001
 CRO Cross Keys Airport

Day->	3-Sep	4-Sep	5-Sep	6-Sep	7-Sep	8-Sep	9-Sep
12 am							
1 am							
2 am							
3 am							
4 am							
5 am							
6 am							
7 am							
8 am	1					3	1
9 am		1				2	5
10 am	4		5	3	10	4	2
11 am	1	5	1	1	8	9	3
12 pm	6	5	2	4	2	8	6
1 pm	3		4	3	6	14	7
2 pm	3		8	2	1	9	11
3 pm	5	3	5	4	3	8	7
4 pm	2	6	4	4	6	9	11
5 pm	6	1	5	4	2	10	8
6 pm	3		6	10	3	8	6
7 pm	4		2	8	3	5	3
8 pm							
9 pm							1
10 pm							
11 pm							
Total							
Events=	38	11	42	43	44	89	71

Total Aircraft Takeoffs = 348

Weekly Activity Report For: 03 Sep 2001 - 09 Sep 2001*
 CRO Cross Keys Airport

Day->	3-Sep	4-Sep	5-Sep	6-Sep	7-Sep	8-Sep	9-Sep
12 am							
1 am							
2 am							
3 am							
4 am							
5 am							
6 am							
7 am							
8 am	1					3	1
9 am		1				2	5
10 am	4		5	3	10	4	2
11 am	1	5	1	1	8	9	3
12 pm	6	5	2	4	2	8	6
1 pm	3		4	3	6	14	7
2 pm	3		8	2	1	9	11
3 pm	5	3	5	4	3	8	7
4 pm	2	6	4	4	6	9	11
5 pm	6	1	5	4	2	10	8
6 pm	3		6	10	3	8	6
7 pm	4		2	8	3	5	3
8 pm							
9 pm							1
10 pm							
11 pm							
Total							
Events=	38	31	42	43	44	89	71

Total Aircraft Takeoffs = 348

*Duplicated count due to 9/11. Recount was not possible, time restrictions.

Weekly Activity Report For: 08 Nov 2001 - 14 Nov 2001
 CRO Cross Keys Airport

Day->	8-Nov	9-Nov	10-Nov	11-Nov	12-Nov	13-Nov	14-Nov
12 am							
1 am							
2 am							
3 am							
4 am							
5 am							
6 am							
7 am				1			
8 am	5		2	1	1	1	4
9 am		1	9	5	4	3	2
10 am	5	5	3	1	1	2	14
11 am		3	6	5	7	2	4
12 pm	5	1	13	1	3		3
1 pm			6	4	5	2	4
2 pm	5		5	3	5	3	6
3 pm			5	2	6	1	6
4 pm		8	11	3	2	3	11
5 pm		3	1	3		4	3
6 pm	1			5		3	1
7 pm				5			
8 pm							
9 pm	1						
10 pm							
11 pm							
Total							
Events=	22	21	61	39	34	24	58

Total Aircraft Takeoffs = 259

Weekly Activity Report For: 15 Nov 2001 - 21 Nov 2001
 CRO Cross Keys Airport

Day->	15-Nov	16-Nov	17-Nov	18-Nov	19-Nov	20-Nov	21-Nov
12 am							
1 am							
2 am							
3 am							
4 am							
5 am				2			
6 am				4			
7 am				4			
8 am	2	1		3	5	5	2
9 am	1	3	6	2	5		5
10 am	4		7	8	2	5	4
11 am	3	3	12	10	2	2	2
12 pm	5	3	11	8	2	1	4
1 pm		2	5	5	2	2	2
2 pm	1	5	10	11	2	5	3
3 pm	1	4	14	9	1		11
4 pm	5	4	6	7	2	1	11
5 pm		8			1	2	1
6 pm	1	2				1	1
7 pm	1	2	1			1	
8 pm						5	
9 pm							
10 pm							
11 pm		1					
Total							
Events=	24	38	72	73	24	30	46

Total Aircraft Takeoffs = 307

Flying W Airport

Burlington County

Medford, NJ 08055

Runway:	01/19
Runway length:	3500 ft.
Runway type:	Asphalt
Total Based Aircraft:	80

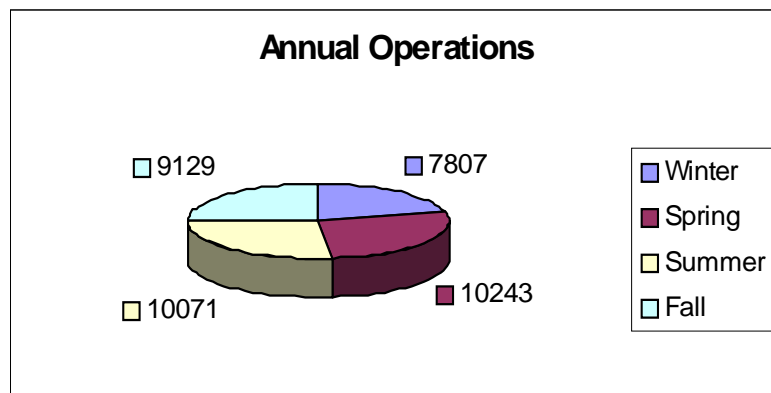
DVRPC Aircraft Counting

Program Annual Summary

Airport: **Flying W**

County: **Burlington**

Season & Year		Average Daily Operations	Total Seasonal Operations	Percentage of Annual Operations
Winter	2001/02	87.7	7807	21%
Spring	2002	110.1	10243	27%
Summer	2001	107.1	10071	27%
Fall	2001	102.6	9129	25%
Total Annual Operations:			37250	100%
Margin of Error:			15 at 95% Confidence	



Weekly Activity Report For: 10 Jan 2002 - 16 Jan 2002
 FLY Flying W Airport

Day->	10-Jan	11-Jan	12-Jan	13-Jan	14-Jan	15-Jan	16-Jan
12 am			1				
1 am							
2 am							
3 am							
4 am							
5 am							
6 am	1				1	1	
7 am	1		1		5	1	
8 am	2	5	4	1	5	5	
9 am	4	5	5	1	2	2	1
10 am	3	5	3		1	3	2
11 am	3	5	8		2	9	3
12 pm		4	16	1	4	9	2
1 pm	6	2	7		9	1	6
2 pm	6	10	7		5	5	6
3 pm	6	1	5		8	2	4
4 pm	14	1	13		4	3	3
5 pm	2	1	11		2	1	8
6 pm	1	1	1		1	5	2
7 pm	3	5			3	5	1
8 pm	1	1					
9 pm		5	3			1	
10 pm		1					
11 pm		1					
Total							
Events=	53	53	85	3	52	53	38

Total Aircraft Takeoffs = 337

Weekly Activity Report For: 14 Feb 2002 - 20 Feb 2002
 FLY Flying W Airport

Day->	14-Feb	15-Feb	16-Feb	17-Feb	18-Feb	19-Feb	20-Feb
12 am							
1 am							
2 am							
3 am							
4 am							
5 am							
6 am	1	1	5				
7 am	1		5	1		1	
8 am	2		1	1		5	
9 am	2	3	4	9		4	5
10 am		1	3	8		2	
11 am		4	1	5	1	3	5
12 pm	3		4	8		12	
1 pm		1	3	3		11	5
2 pm	6	3	2	1	1	10	
3 pm	1	3	3	1		8	5
4 pm	3	1	5	10		6	
5 pm		2	4	10		7	
6 pm	2		2	10		1	
7 pm	1		10				
8 pm			1				
9 pm	2		10				
10 pm							
11 pm							
Total							
Events=	24	19	63	67	2	70	20

Total Aircraft Takeoffs = 265

Weekly Activity Report For: 30 Apr 2001 - 06 May 2001
 FLY Flying W Airport

Day->	30-Apr	1-May	2-May	3-May	4-May	5-May	6-May
12 am							
1 am							
2 am							
3 am							
4 am							
5 am							
6 am			1	1	2		
7 am			1	4			2
8 am			4	3		2	3
9 am			8	7	7	6	6
10 am		11	24	6	9	10	12
11 am		7	9	2	6	12	8
12 pm		5	3	5	7	10	5
1 pm		8	3		1	7	6
2 pm		5	2	1	3	11	3
3 pm		8	4	5	3	4	11
4 pm		3	1		2		1
5 pm		1	2		4	4	1
6 pm		2	6	2	4	7	5
7 pm		1	4	2	1	2	
8 pm		1	1	3	1	2	2
9 pm		1	2			1	2
10 pm			1	2			
11 pm				1			
Total							
Events=	0	53	76	44	50	78	67

Total Aircraft Takeoffs = 368

Weekly Activity Report
FLY Flying W Airport

For: 02 May 2002 - 08 May 2002

Day->	2-May	3-May	4-May	5-May	6-May	7-May	8-May
12 am							
1 am							
2 am							
3 am							
4 am							
5 am	1						
6 am		1			1		1
7 am	1		8	1	3		
8 am		1	6	3	6	4	4
9 am	1		16	7	3	1	21
10 am		3	10	10	2		4
11 am		3	1	14	1	1	5
12 pm		1	7	10	2	4	4
1 pm			11	9	2	1	15
2 pm	3	1	4	1	8	1	10
3 pm	1	1	14	11	6	1	2
4 pm	1		7	1	4	3	2
5 pm			6	3	3	1	1
6 pm	1	2	4	7	9	2	4
7 pm		1	9	8			16
8 pm			1	10	3		1
9 pm		1	3	1			
10 pm		1		1			
11 pm							
Total							
Events=	9	16	107	97	53	19	90

Total Aircraft Takeoffs = 391

Weekly Activity Report
FLY Flying W Airport

For: 03 Jul 2001 - 09 Jul 2001

Day->	3-Jul	4-Jul	5-Jul	6-Jul	7-Jul	8-Jul	9-Jul
12 am					1		
1 am							
2 am							
3 am	1						
4 am							
5 am							2
6 am							
7 am				2	1		
8 am	1				5		1
9 am	2		2	3	5		
10 am	1		1	3	7	2	1
11 am		1	8	10	8	1	3
12 pm	4	2	8	5	8		6
1 pm	1	8	6	4	7	1	8
2 pm	6	4	2	5	7	1	1
3 pm	7	6	1	3	12		
4 pm	4	7	3	3	12		
5 pm	6	6	2	6	9		
6 pm	4	7	3		10	1	2
7 pm	15	5	7	4	15	4	
8 pm	5	3	1	5	8	4	
9 pm	2				1		1
10 pm	3			1			1
11 pm				4			
Total							
Events=	62	49	44	58	116	14	26

Total Aircraft Takeoffs = 369

Weekly Activity Report For: 03 Jul 2001 - 09 Jul 2001
 FLY Flying W Airport

Day->	3-Jul	4-Jul	5-Jul	6-Jul	7-Jul	8-Jul	9-Jul
12 am					1		
1 am							
2 am							
3 am	1						
4 am							
5 am							2
6 am							
7 am				2	1		
8 am	1				5		1
9 am	2		2	3	5		
10 am	1		1	3	7	2	1
11 am		1	8	10	8	1	3
12 pm	4	2	8	5	8		6
1 pm	1	8	6	4	7	1	8
2 pm	6	4	2	5	7	1	1
3 pm	7	6	1	3	12		
4 pm	4	7	3	3	12		
5 pm	6	6	2	6	9		
6 pm	4	7	3		10	1	2
7 pm	15	5	7	4	15	4	
8 pm	5	3	1	5	8	4	
9 pm	2				1		1
10 pm	3			1			1
11 pm				4			
Total							
Events=	62	49	44	58	116	14	26

Total Aircraft Takeoffs = 369

Weekly Activity Report For: 23 Oct 2001 - 29 Oct 2001
 FLY Flying W Airport

Day->	23-Oct	24-Oct	25-Oct	26-Oct	27-Oct	28-Oct	29-Oct
12 am							
1 am							
2 am							
3 am							
4 am							
5 am							
6 am			1	1			
7 am		1					
8 am		2	6	1	1		1
9 am	2	6	2		6	4	1
10 am	5	1			3	4	
11 am	5	3	1	2	1	2	7
12 pm	2			1	1	10	4
1 pm	11	19	1	6	1	7	6
2 pm	5	9		1	1	8	4
3 pm	1	7		1	1	9	6
4 pm	4	4	1	2	2	6	3
5 pm	9	10	1			6	5
6 pm	4	9	1			7	4
7 pm		2				1	1
8 pm		1					4
9 pm							
10 pm							
11 pm							
Total							
Events=	48	74	14	15	17	64	46

Total Aircraft Takeoffs = 278

Weekly Activity Report For: 30 Oct 2001 - 05 Nov 2001
 FLY Flying W Airport

Day->	30-Oct	31-Oct	1-Nov	2-Nov	3-Nov	4-Nov	5-Nov
12 am							
1 am							
2 am							
3 am							
4 am							
5 am							
6 am							
7 am	1	1		1			
8 am	2	3	1	1		1	2
9 am	1	1	1	1	8	17	2
10 am	2	1	1	6	2	13	2
11 am	4	1	2	5	14	5	1
12 pm	1	1	6	4	14	9	2
1 pm	3	3	5	3	24	11	
2 pm	6	6	4	1	1	9	1
3 pm	8	3	2	11	10	6	
4 pm	8	2	7		7	13	
5 pm	12	5	8	1	14	23	
6 pm	6	5	3	1	6	8	1
7 pm	2	1	10	4	3		
8 pm	1	1	1	1	1	1	
9 pm	1	1	1	2	1		
10 pm		1		4	1		
11 pm				3			
Total							
Events=	58	36	52	49	106	116	11

Total Aircraft Takeoffs = 428

New Garden Airport

Chester County

Toughkaenamon, PA 19374

Runway:	06/24
Runway length:	3690 ft.
Runway type:	Asphalt
Total Based Aircraft:	130

DVRPC Aircraft Counting

Program Annual Summary

Airport: **New Garden**

County: **Chester**

Season & Year		Average Daily Operations	Total Seasonal Operations	Percentage of Annual Operations
Winter	2001/02	62.3	5543	22%
Spring	2002	74.1	6895	27%
Summer	2001	86.3	8111	31%
Fall	2001	56.9	5060	20%

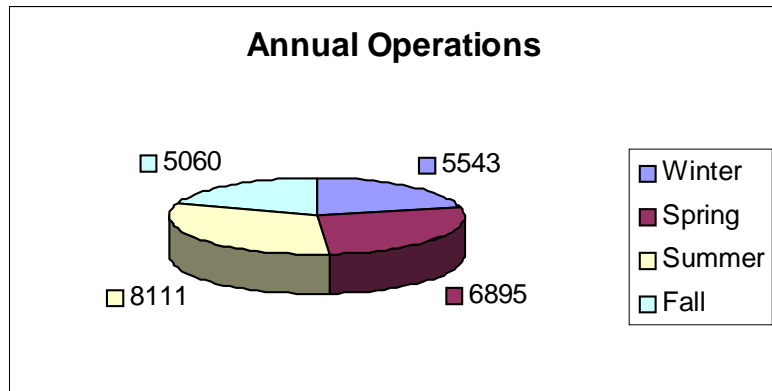
Total Annual Operations:

25610

100%

Margin of Error:

16 at 95% Confidence



Weekly Activity Report For: 25 Jan 2002 - 31 Jan 2002
 NEG New Garden Airport

Day->	25-Jan	26-Jan	27-Jan	28-Jan	29-Jan	30-Jan	31-Jan
12 am							
1 am							
2 am							
3 am							
4 am							
5 am							
6 am							
7 am			2				
8 am		4	6				
9 am	1	11	5	2	2		
10 am		10	11	4	2		2
11 am	1	13	9		1	1	
12 pm		7	6	2	2	1	
1 pm	1	9	10	1	1	1	
2 pm	2	7	7	1	4	3	
3 pm	2	11	7	10	5	1	
4 pm	1	13	2	1	1		
5 pm			1	3	3		
6 pm	2	1	1		1		
7 pm	4						
8 pm	2						
9 pm							
10 pm							
11 pm							
Total							
Events=	16	86	67	24	22	7	2

Total Aircraft Takeoffs = 224

Weekly Activity Report For: 21 Mar 2002 - 27 Mar 2002
 NEG New Garden Airport

Day->	21-Mar	22-Mar	23-Mar	24-Mar	25-Mar	26-Mar	27-Mar
12 am							
1 am							
2 am							
3 am							
4 am							
5 am	2						
6 am	3						
7 am			1	2			
8 am	4		1	4			
9 am	1	5	3	11			1
10 am		5	10	8	5		1
11 am		5	2	8	4		2
12 pm		5	1	5	5		2
1 pm			10	7	1		
2 pm			2	8	1		1
3 pm			1	4	5		2
4 pm	2		10	8	5	5	2
5 pm	4			1		5	1
6 pm	1		10			5	
7 pm						5	
8 pm							
9 pm							
10 pm							
11 pm							
Total							
Events=	17	20	51	66	26	20	12

Total Aircraft Takeoffs = 212

Weekly Activity Report For: 10 May 2001 - 16 May 2001
 NEG New Garden Airport

Day->	10-May	11-May	12-May	13-May	14-May	15-May	16-May
12 am							
1 am							
2 am							
3 am							
4 am							
5 am							
6 am	1				1	1	
7 am	5	1	1	5	1		
8 am	5	3	1	5	1		
9 am	3	1	11	5	2	2	1
10 am	1	3	4	5	1		1
11 am	1	2	16		5	1	
12 pm	1	2	7	4	1		1
1 pm	1	3	3	1	2	3	1
2 pm	1	2	2	8	5	3	
3 pm	1	1			5	1	2
4 pm		2		3	1		3
5 pm	1	1	2		1	1	6
6 pm	1	4		2		5	4
7 pm	2	4			1	5	1
8 pm	1						
9 pm							
10 pm							
11 pm							
Total							
Events=	25	29	47	38	27	22	20

Total Aircraft Takeoffs = 208

Weekly Activity Report For: 06 Jun 2002 - 12 Jun 2002
 NEG New Garden Airport

Day->	6-Jun	7-Jun	8-Jun	9-Jun	10-Jun	11-Jun	12-Jun
12 am							
1 am							
2 am							
3 am							
4 am							
5 am							
6 am				1			
7 am			1		2		1
8 am	5		4	4	3		
9 am	5		12	5	3		1
10 am	5	1	11	9			
11 am	5	4	12	14	1		
12 pm			13	14	2		
1 pm		1	2	4	3	1	
2 pm		3	5	4	3	1	
3 pm	2		11	10			1
4 pm		12	12	4	1	2	
5 pm		4	6	2	5	5	
6 pm		7	3	6	2	7	4
7 pm		5	2	1		10	5
8 pm		1	2	1		3	8
9 pm				1			
10 pm							
11 pm						1	
Total							
Events=	22	38	96	80	25	30	20

Total Aircraft Takeoffs = 311

Weekly Activity Report For: 13 Jul 2001 - 19 Jul 2001
 NEG New Garden Airport

Day->	13-Jul	14-Jul	15-Jul	16-Jul	17-Jul	18-Jul	19-Jul
12 am							
1 am							
2 am							
3 am							
4 am							
5 am							
6 am						1	
7 am			1		1		
8 am	1	3	2		5		
9 am	1	6	11	1	5		
10 am	2	8	21		1	5	
11 am	3	6	3		5		1
12 pm	5	10	5		2	1	1
1 pm	7	6	3	3	1	5	
2 pm	7	3	3		5		3
3 pm	2	3	7		2	1	
4 pm	2	1	7	3	3	5	1
5 pm	2	1	9	2	5		7
6 pm	7	6	1	4		5	20
7 pm	12	16	4	16	1		3
8 pm	2	15	2	16			
9 pm	1						
10 pm	2						
11 pm		1					
Total							
Events=	56	85	79	45	36	23	36

Total Aircraft Takeoffs = 360

Weekly Activity Report For: 18 Sep 2001 - 24 Sep 2001
 NEG New Garden Airport

Day->	18-Sep	19-Sep	20-Sep	21-Sep	22-Sep	23-Sep	24-Sep
12 am							
1 am							
2 am							
3 am							
4 am							
5 am							
6 am							
7 am							
8 am						1	
9 am	1			2		7	
10 am			5	5		5	
11 am				5	9	7	
12 pm	5		5	2	2	11	
1 pm	5			4	9	4	
2 pm		3	5	1	10	5	
3 pm				4	16	14	
4 pm			5	2	3	10	5
5 pm	3	1		1	3	10	5
6 pm	2			1	3	4	5
7 pm	1	5		5		1	5
8 pm		5		5			
9 pm				2			
10 pm							
11 pm							
Total							
Events=	17	14	20	39	55	79	20

Total Aircraft Takeoffs = 244

Weekly Activity Report For: 27 Nov 2001 - 03 Dec 2001
 NEG New Garden Airport

Day->	27-Nov	28-Nov	29-Nov	30-Nov	1-Dec	2-Dec	3-Dec
12 am							
1 am							
2 am							
3 am							
4 am							
5 am							
6 am				1			
7 am							
8 am	2			5	1	1	5
9 am					4	3	5
10 am				5	2	3	2
11 am	5	5			17	4	1
12 pm	5	5		5	7	3	1
1 pm	1	5			9	12	3
2 pm	1	2		5	6	12	1
3 pm		1	5		6	4	2
4 pm	3	5			1	4	1
5 pm			5		1	10	5
6 pm	2	1			1		5
7 pm			5				
8 pm							
9 pm			5				
10 pm							
11 pm							
Total							
Events=	19	24	20	21	55	56	31

Total Aircraft Takeoffs = 226

Weekly Activity Report For: 12 Dec 2001 - 18 Dec 2001
 NEG New Garden Airport

Day->	12-Dec	13-Dec	14-Dec	15-Dec	16-Dec	17-Dec	18-Dec
12 am							
1 am							
2 am							
3 am							
4 am							1
5 am							2
6 am							1
7 am	1				5		1
8 am	5	5			1		
9 am	5			1	4	1	2
10 am		5		2	3	1	7
11 am	1		5	1	3		
12 pm		5		3	1	5	
1 pm			5	5	2		
2 pm	1	5		2	1	5	
3 pm	2		5	5	7		
4 pm	1			5	6	1	
5 pm	1		5	5	1		
6 pm				5	5		
7 pm				5	5		
8 pm					5		
9 pm							
10 pm							
11 pm							
Total							
Events=	17	20	20	39	49	13	14

Total Aircraft Takeoffs = 172

Red Lion Airport

Burlington County

Vincentown, NJ 08088

Runway:	05/23
Runway length:	2883ft.
Runway type:	Asphalt
Total Based Aircraft:	41

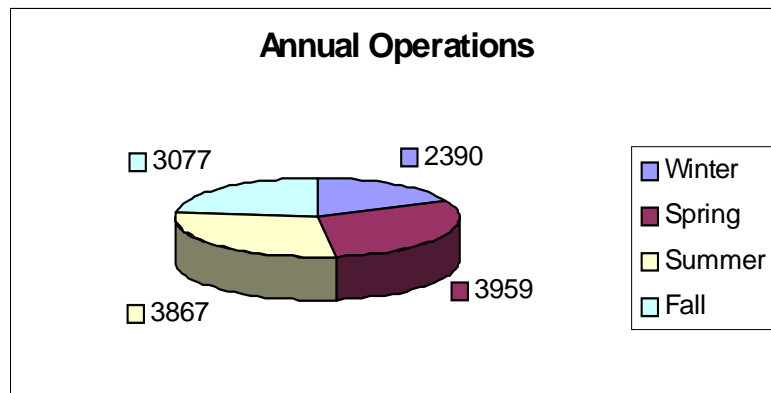
DVRPC Aircraft Counting

Program Annual Summary

Airport: **Red Lion**

County: **Burlington**

Season & Year		Average Daily Operations	Total Seasonal Operations	Percentage of Annual Operations
Winter	2001/02	26.9	2390	18%
Spring	2002	42.6	3959	30%
Summer	2001	41.1	3867	29%
Fall	2001	34.6	3077	23%
Total Annual Operations:			13294	100%
Margin of Error:			13 at 95% Confidence	



Weekly Activity Report For: 09 Jan 2002 - 15 Jan 2002
 RED Red Lion Airport

Day->	9-Jan	10-Jan	11-Jan	12-Jan	13-Jan	14-Jan	15-Jan
12 am							
1 am							
2 am							
3 am							
4 am							
5 am							
6 am							
7 am							
8 am							5
9 am		1					
10 am	5		5	1			1
11 am		3		1		2	
12 am		1	5	2			1
1 pm		1		1		1	
2 pm			5	1			1
3 pm	1			2	5		
4 pm		1		1		5	
5 pm	1			2	5		
6 pm							
7 pm					5		
8 pm							
9 pm							
10 pm							
11 pm							
Total							
Events=	7	7	15	11	15	8	8

Total Aircraft Takeoffs = 71

Weekly Activity Report For: 14 Feb 2002 - 20 Feb 2002
 RED Red Lion Airport

Day->	14-Feb	15-Feb	16-Feb	17-Feb	18-Feb	19-Feb	20-Feb
12 am							
1 am							
2 am							
3 am							
4 am							
5 am							
6 am							
7 am							
8 am		1	1	1			
9 am	1	2	1	2			
10 am		7	2				
11 am	3	3	5	1			5
12 pm	1	1	2	7	1	4	
1 pm	1	1	5			1	
2 pm	1	4	5	1		1	
3 pm	5	1	5	5		1	5
4 pm		1				1	
5 pm	6	1				3	
6 pm	6					2	
7 pm	1					1	
8 pm							
9 pm							
10 pm		1					
11 pm							
Total							
Events=	25	23	26	17	1	14	10

Total Aircraft Takeoffs = 116

Weekly Activity Report For: 30 Apr 2001 - 06 May 2001
 RED Red Lion Airport

Day->	30-Apr	1-May	2-May	3-May	4-May	5-May	6-May
12 am							
1 am							
2 am							
3 am							
4 am							
5 am							
6 am				1		1	
7 am					1	5	1
8 am	5		1				1
9 am			1	5	2	2	3
10 am	5		4			5	1
11 am			3		5		1
12 pm			2	1		5	3
1 pm		2	2		1		3
2 pm				2	5	1	4
3 pm					2	5	5
4 pm		5	1	5		5	1
5 pm		5	2			5	1
6 pm		5	2	1		1	1
7 pm		1	5	1		1	1
8 pm		2					1
9 pm							
10 pm							
11 pm							
Total							
Events=	10	20	23	16	16	36	27

Total Aircraft Takeoffs = 148

Weekly Activity Report For: 03 May 2002 - 09 May 2002
 RED Red Lion Airport

Day->	3-May	4-May	5-May	6-May	7-May	8-May	9-May
12 am							
1 am							
2 am							
3 am							
4 am							
5 am							
6 am							
7 am		3					
8 am		6				4	
9 am		5	1	6	1		
10 am	2	2	5	1	2		
11 am		1	5	5	5		
12 pm	3	1	5	5	1	7	
1 pm	1	1	4	5	4		5
2 pm		2	3	1			
3 pm	5	1	1			4	5
4 pm		4	1		1	3	
5 pm	5	6	1				5
6 pm		3	2		1		
7 pm		1	2				
8 pm							
9 pm							
10 pm							
11 pm							
Total							
Events=	16	36	30	23	15	18	15

Total Aircraft Takeoffs = 153

Weekly Activity Report
RED Red Lion Airport

For: 03 Jul 2001 - 09 Jul 2001

Day->	3-Jul	4-Jul	5-Jul	6-Jul	7-Jul	8-Jul	9-Jul
12 am							
1 am							
2 am							
3 am							
4 am							
5 am							
6 am							
7 am						5	
8 am							5
9 am			1	1	5	5	
10 am	5		1				5
11 am				1	5	5	
12 pm	5			1			5
1 pm					5		
2 pm	3		1	1			5
3 pm	1	2		1			
4 pm							
5 pm	3						
6 pm	1			1			
7 pm				1			
8 pm							
9 pm							
10 pm							
11 pm							
Total							
Events=	18	2	3	7	15	15	20

Total Aircraft Takeoffs = 80

Weekly Activity Report For: 16 Aug 2001 - 22 Aug 2001
 RED Red Lion Airport

Day->	16-Aug	17-Aug	18-Aug	19-Aug	20-Aug	21-Aug	22-Aug
12 am							
1 am							
2 am							
3 am							
4 am							
5 am							
6 am							
7 am		1					1
8 am	5		5	5			2
9 am	5	3	5	5			
10 am	5		1	1		1	1
11 am		5	5	4	5	1	1
12 pm		5	5	4	5	5	1
1 pm	1	5	2	2	5	5	1
2 pm	1		2	5		5	1
3 pm	1	1	5	5	4	1	
4 pm	2		4	2	8	1	1
5 pm		1	5	5	1	2	1
6 pm				3			5
7 pm			1	5		5	5
8 pm							5
9 pm							
10 pm							1
11 pm							
Total							
Events=	20	21	40	46	28	26	26

Total Aircraft Takeoffs = 207

Weekly Activity Report For: 23 Oct 2001 - 29 Oct 2001
 RED Red Lion Airport

Day->	23-Oct	24-Oct	25-Oct	26-Oct	27-Oct	28-Oct	29-Oct
12 am							
1 am							
2 am							
3 am							
4 am							
5 am							
6 am							
7 am							
8 am					5	1	
9 am	5		1				1
10 am		1			5		
11 am	5			1			1
12 pm	1	5			5	5	1
1 pm		5	5				2
2 pm		1		5	5	5	5
3 pm	5	1					5
4 pm		1	5		3	3	2
5 pm	5					5	
6 pm	1			5			
7 pm						5	
8 pm							
9 pm							
10 pm							
11 pm							
Total							
Events=	22	14	11	11	23	24	17

Total Aircraft Takeoffs = 122

Weekly Activity Report For: 30 Oct 2001 - 05 Nov 2001
 RED Red Lion Airport

Day->	30-Oct	31-Oct	1-Nov	2-Nov	3-Nov	4-Nov	5-Nov
12 am							
1 am							
2 am							
3 am							
4 am							
5 am							
6 am							
7 am							
8 am		2			1	5	
9 am	5	1		1	5	1	3
10 am					2	1	
11 am	5				5	3	5
12 pm	1		1	5	5	1	
1 pm		3			5	1	1
2 pm	1		5		2	1	
3 pm					1	3	5
4 pm		1		5		4	
5 pm			2			1	
6 pm			5			5	
7 pm						5	
8 pm						5	
9 pm							
10 pm							
11 pm							
Total							
Events=	12	7	13	11	26	36	14

Total Aircraft Takeoffs = 119

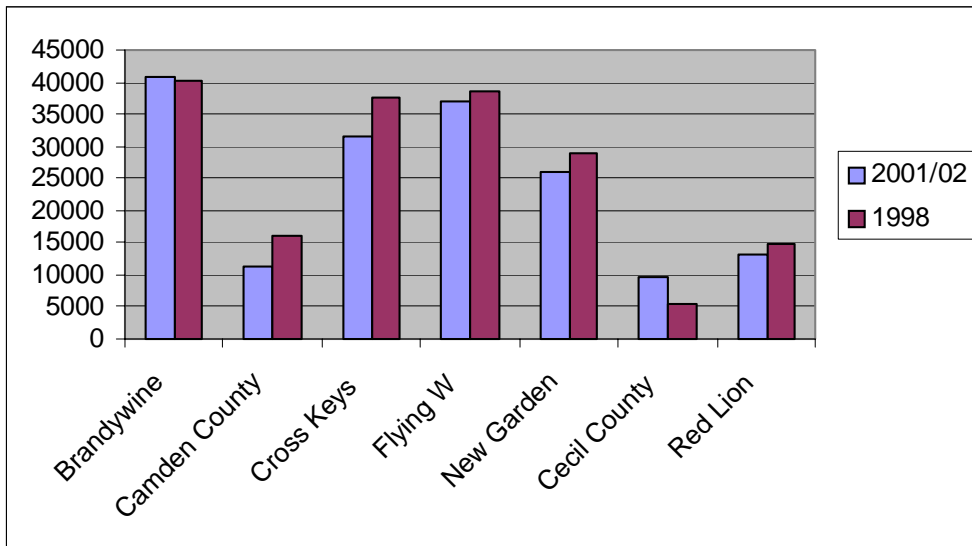
Appendix

Following are the helicopter operations estimates (per week or month, departures only) as discussed with airport management, owners or operators. The results are included in the seasonal and annual total operations for each airport:

Airport	Helicopter Operations Estimates (departures)
Brandywine	70 / week
Camden County	35 / week
Cross Keys	9 / week
Flying W	6 / week
New Garden	7 / week
Cecil County	5 / month
Red Lion	2 / month

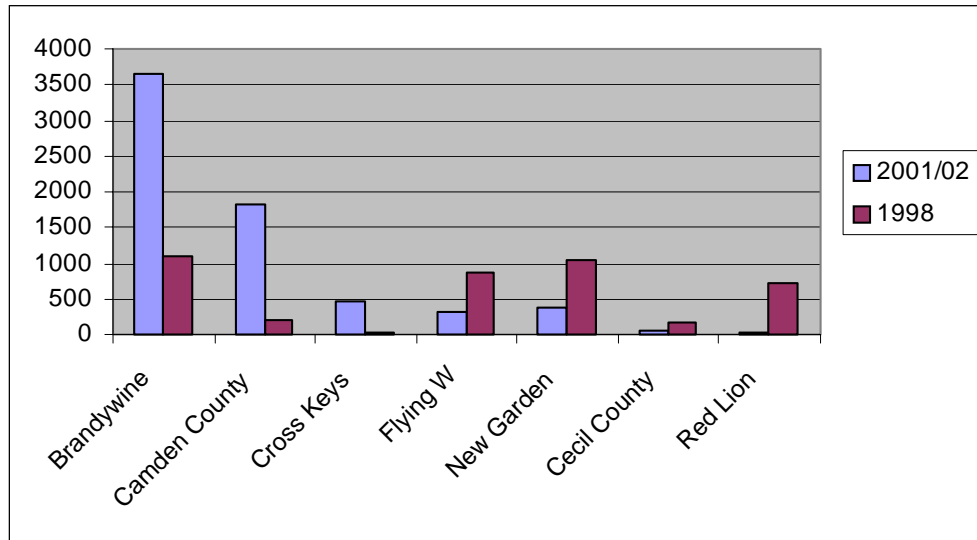
Fixed Wing Annual Operation Estimates (Comparison)

Airport	2001 / 02	1998	Quantity Difference	Percentile Difference
Brandywine	40742	40155	587	1.46
Camden County	11402	15933	-4531	-28.44
Cross Keys	31581	37516	-5935	-15.82
Flying W	36897	38483	-1586	-4.12
New Garden	25975	28982	-3007	-10.38
Cecil County	9534	5477	4057	74.07
Red Lion	13066	14643	-1577	-10.77
Total Operations	169197	181189	-11992	-6.62



Helicopter Annual Operation Estimates (Comparison)

Airport	2001/02	1998	Quantity Difference	Percentile Difference
Brandywine	3650	1099	2551	232.12
Camden County	1825	210	1615	769.05
Cross Keys	475	24	451	1879.17
Flying W	313	878	-565	-64.35
New Garden	365	1043	-678	-65.00
Cecil County	60	185	-125	-67.57
Red Lion	24	730	-706	-96.71
Total Operations	6712	4169	2543	61.00



DVRPC Counting Program 2001/02

Publication No.: 02046

Date Published: 12/19/2002

Geographic Area Covered: Chester, Delaware, Montgomery and Bucks Counties in Pennsylvania, Mercer, Burlington, Camden, Gloucester and Salem Counties in New Jersey, New Castle County in Delaware and Cecil County in Maryland.

Key Words: Aircraft operations, airports, helicopter, aircraft, takeoffs, landings, count, activity, estimate, seasonal, annual, acoustic counter, based aircraft, runway length

Abstract: This technical report compiles aircraft operations estimates for seven non-towered airports in the Delaware Valley Region. Eight acoustic counts were taken between June 2001 and July 2002, each sample extended over the period of one week. The samples were extrapolated over the entire year and produced the results presented in this report. Results are used by multiple sources to monitor activity levels in the Delaware Valley Region, and as a base for Planning and forecasting documents.

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