

DVRPC AIRCRAFT OPERATIONS COUNTS

2010/11

**AIRCRAFT OPERATIONS COUNTS
AT SELECT NON-DVRPC PA AIRPORTS**



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The Delaware Valley Regional Planning Commission is dedicated to uniting the region's elected officials, planning professionals, and the public with a common vision of making a great region even greater. Shaping the way we live, work, and play, DVRPC builds consensus on improving transportation, promoting smart growth, protecting the environment, and enhancing the economy. We serve a diverse region of nine counties: Bucks, Chester, Delaware, Montgomery, and

Philadelphia in Pennsylvania; and Burlington, Camden, Gloucester, and Mercer in New Jersey. DVRPC is the federally designated Metropolitan Planning Organization for the Greater Philadelphia Region — leading the way to a better future.



The symbol in 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 exclusively by the Federal Aviation Administration (FAA). The authors, however, are solely responsible for the findings and conclusions herein, which may not represent the official views or policies of the funding agencies.

DVRPC fully complies with Title VI of the Civil Rights Act of 1964 and related statutes and regulations in all programs and activities. DVRPC's website (www.dvrpc.org) may be translated into multiple languages. Publications and other public documents can be made available in alternative languages and formats, if requested. For more information, please call (215) 238-2871.

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Executive Summary

The Delaware Valley Regional Planning Commission (DVRPC) has conducted aircraft operations counts at non-towered airports in a 12-county, four-state region since 1986. The Federal Aviation Administration (FAA) continued funding this program to include four Pennsylvania airports outside the regular DVRPC region. From November 2010 to September 2011, the following airports were surveyed: Jake Arner Memorial Airport (22N), Queen City Airport (XLL), Schuylkill County Airport (ZER) and Wyoming Valley Airport (WBW).

Pages 3 to 5 highlight Annual Aircraft Operation totals for fixed wing and helicopter operations observed during the 2010/11 survey and compared with the most recent PA Form 5010 aircraft operations estimates. The 5010 Forms are airport data forms used by the PA Bureau of Aviation for periodic record keeping including total aircraft operations estimates. This report reflects the Larson & Davis Acoustic Counter Software (ACS) weekly takeoff data, as well as the projected seasonal and annual takeoff and landing totals for each surveyed airport during 2010/2011.

The following procedure is applied to all airport counts during the entire program: Eight one-week-long counting surveys are conducted 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 Aircraft Counting System and then checked manually for event-related errors. The Aircraft Counting System 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 then produces the estimated seasonal and annual total takeoffs and landings.

Historic counting data since 1986 is also available for all Regional Airport Systems Plan (RASP) airports through DVRPC's Office of Aviation and Freight Planning. Please contact Reiner Pelzer rpelzer@dvrpc.org or Dave Metzler dmetzler@dvrpc.org by email or call (215) 592-1800 for more information.

Table 1

Total Annual Aircraft Operations				
Airport	5010 Report 2011	DVRPC Count 2010/11	Quantity Difference	Percentile Difference
Jake Arner Memorial (22N)	15,400	13,243	-2,157	-14
Queen City (XLL)	54,220	30,179	-24,041	-44
Schuykill County (ZER)	28,100	15,473	-12,627	-45
Wyoming Valley (WBW)	25,125	20,820	-4,305	-17
Total Operations	122,845	79,715	-43,130	-35

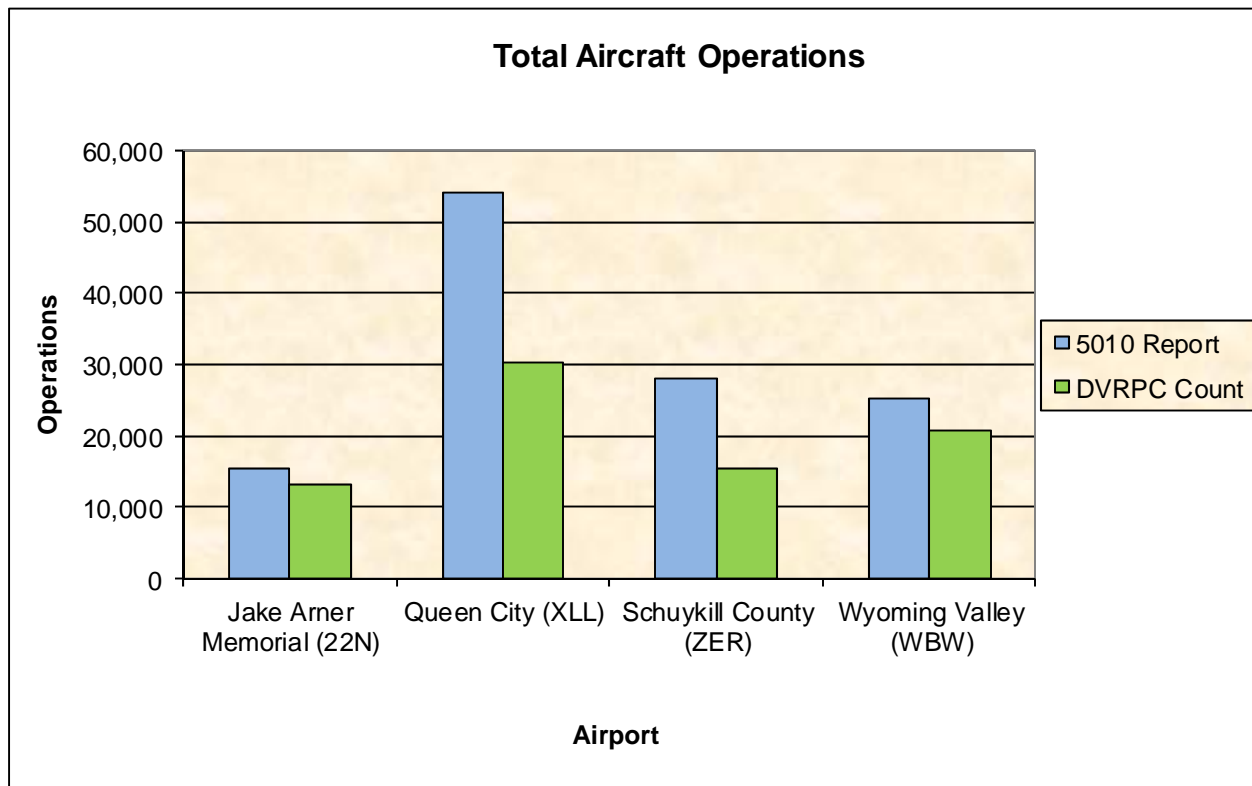


Table 2

Total Annual Fixed Wing Operations	
Airport	DVRPC Count 2010/11
Jake Arner Memorial (22N)	12,342
Queen City (XLL)	28,482
Schuylkill County (ZER)	12,449
Wyoming Valley (WBW)	19,766
Total Operations	73,039

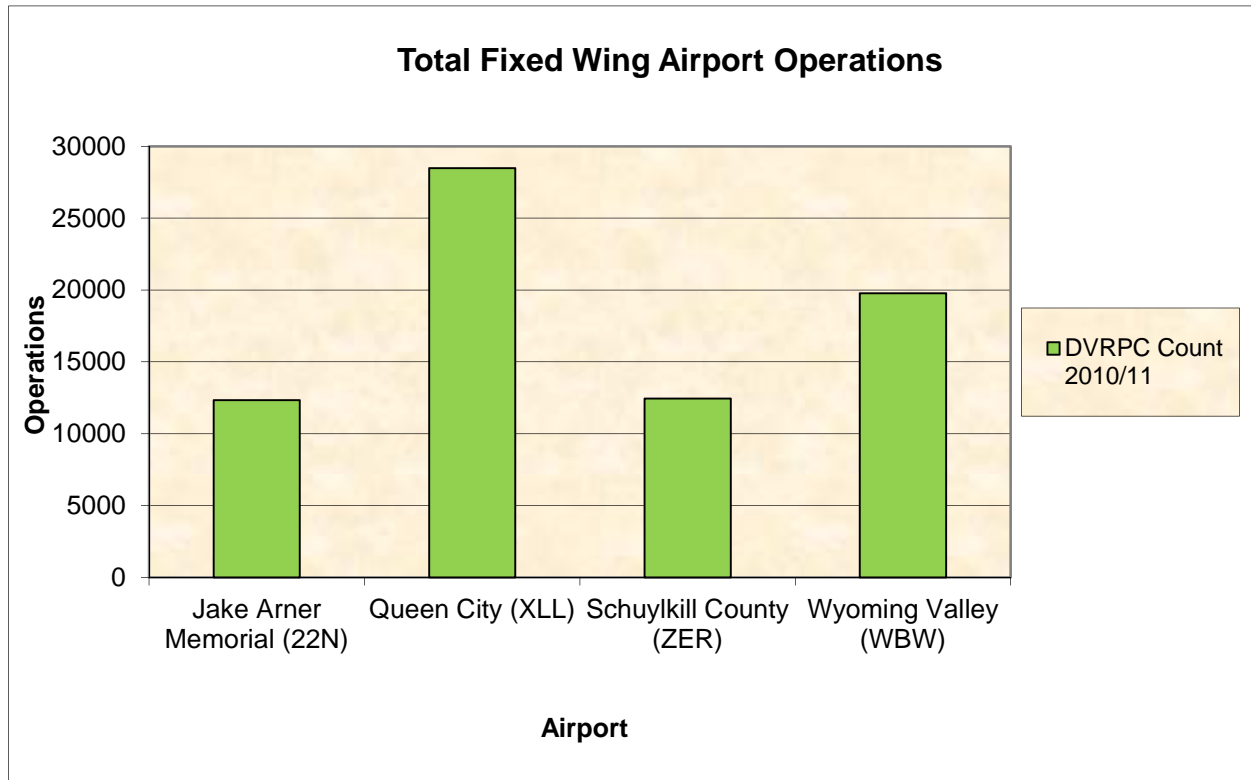
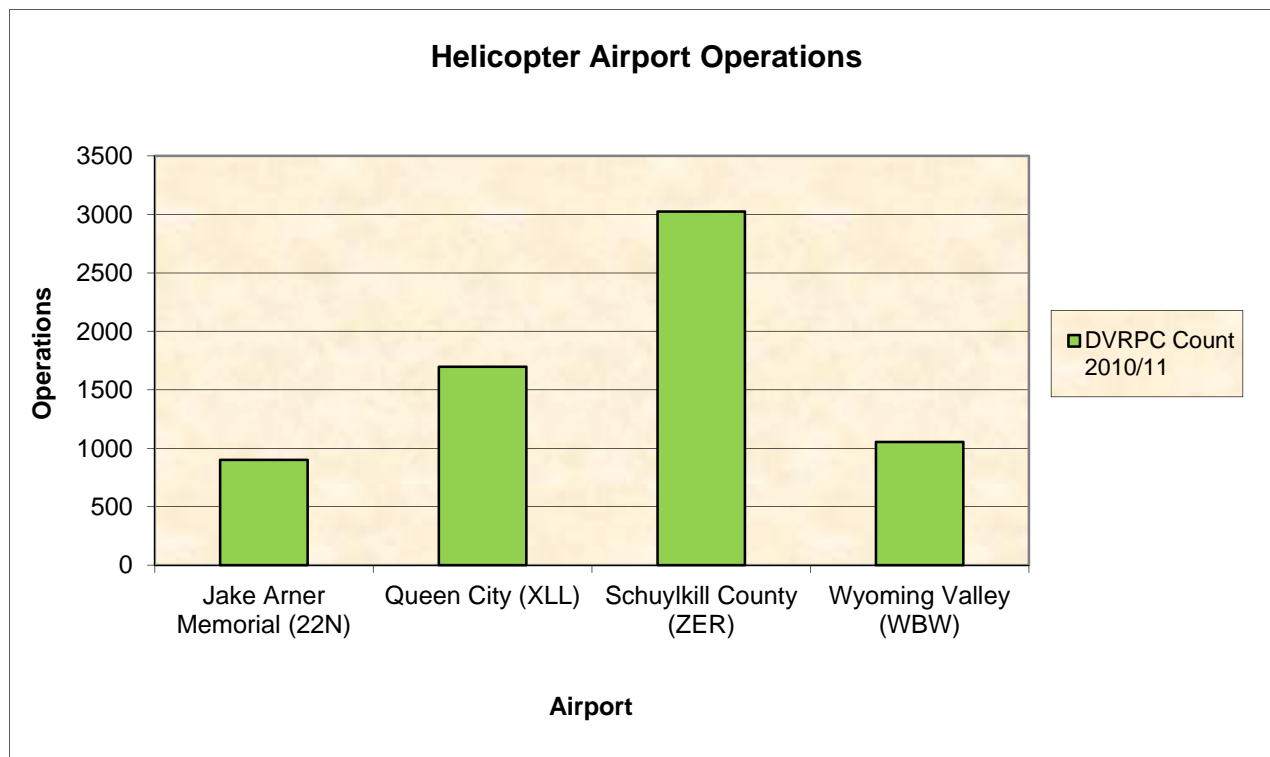
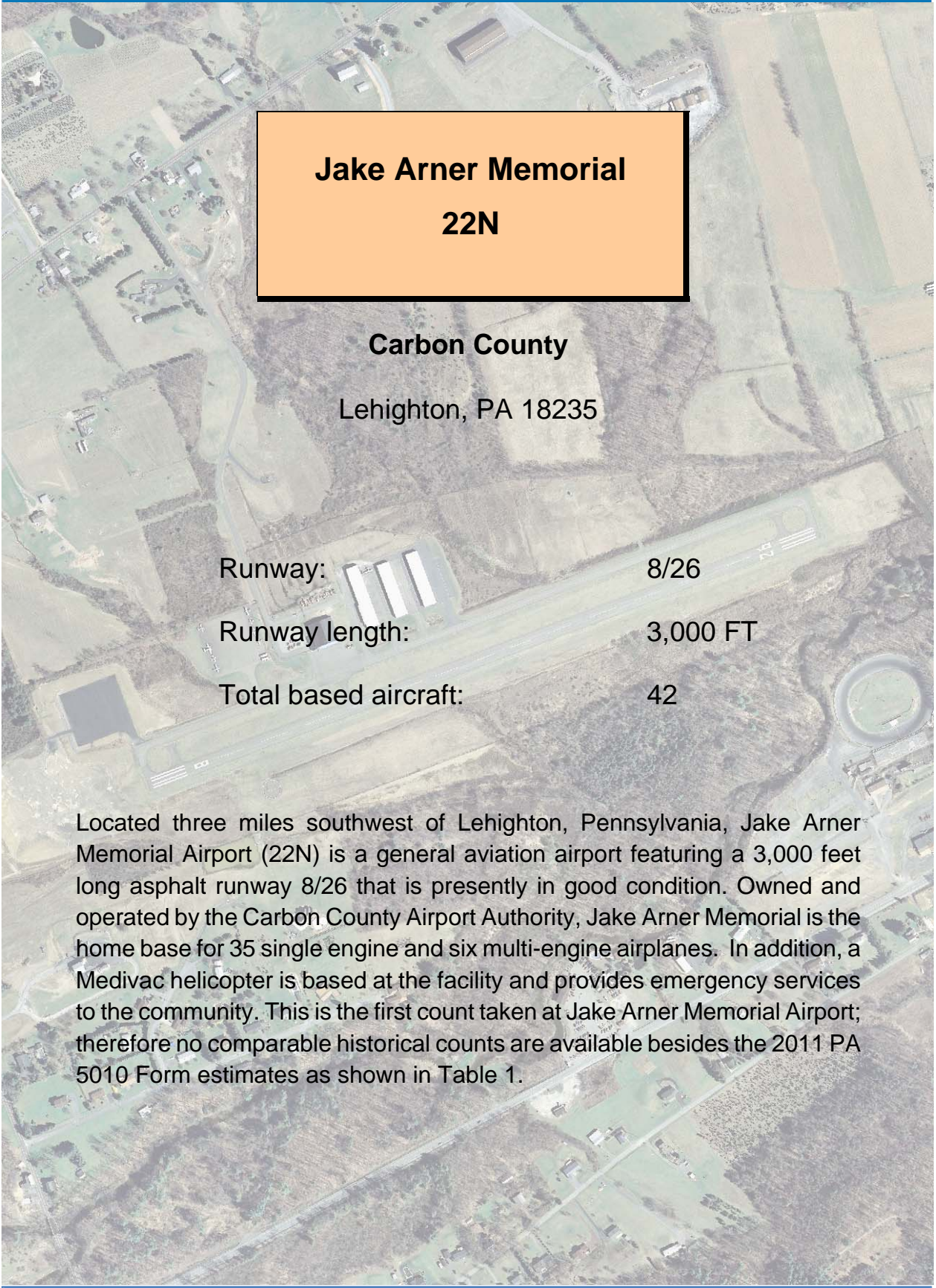


Table 3

Total Annual Helicopter Operations	
Airport	DVRPC Count 2010/11
Jake Arner Memorial (22N)	901
Queen City (XLL)	1,697
Schuylkill County (ZER)	3,024
Wyoming Valley (WBW)	1,053
Total Operations	6,675





**Jake Arner Memorial
22N**

Carbon County

Lehighton, PA 18235

Runway:	8/26
Runway length:	3,000 FT
Total based aircraft:	42

Located three miles southwest of Lehighton, Pennsylvania, Jake Arner Memorial Airport (22N) is a general aviation airport featuring a 3,000 feet long asphalt runway 8/26 that is presently in good condition. Owned and operated by the Carbon County Airport Authority, Jake Arner Memorial is the home base for 35 single engine and six multi-engine airplanes. In addition, a Medivac helicopter is based at the facility and provides emergency services to the community. This is the first count taken at Jake Arner Memorial Airport; therefore no comparable historical counts are available besides the 2011 PA 5010 Form estimates as shown in Table 1.

DVRPC Aircraft Counting Program

Annual Summary

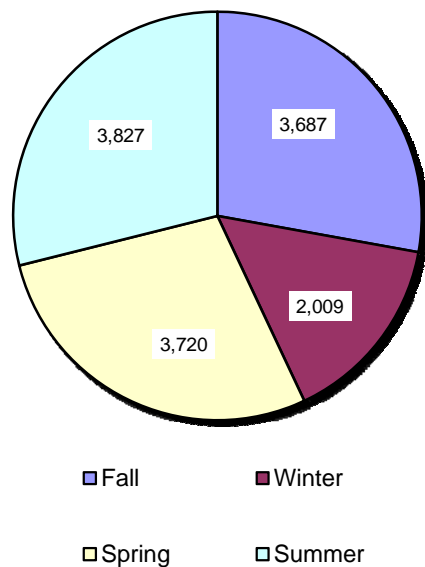
Airport: **22N Jake Arner Memorial**

County: **Carbon**

Table 4: 22N Jake Arner Memorial Airport Annual Summary

Season & Year		Average Daily Operations	Total Seasonal Operations	Percent of Annual Operations
Fall	2010	41.4	3,687	28%
Winter	2011	22.6	2,009	15%
Spring	2011	40.0	3,720	28%
Summer	2011	40.7	3,827	29%
Total Annual Operations:			13,243	100%
Margin of Error:			16 at 95% Confidence	

Figure 1: 22N Jake Arner Memorial Airport Annual Summary



Weekly Activity Report
 22N Jake Arner Memorial
 22N Fall I 2010

For: 9 Nov 2010 - 15 Nov 2010

Day->	Tues 9-Nov	Wed 10-Nov	Thurs 11-Nov	Fri 12-Nov	Sat 13-Nov	Sun 14-Nov	Mon 15-Nov
12 am							
1 am							
2 am							
3 am							
4 am							
5 am					1		
6 am							
7 am		1	2	2			1
8 am			2	1	2	2	
9 am		1	4	1	2		
10 am			9			2	
11 am		1		3	2	5	
12 pm		3	2	1	4	4	
1 pm		3	2	3	1	2	3
2 pm		6	4	10	1		
3 pm	4	3	5	6	9	5	
4 pm		11	6	4	2	1	1
5 pm		5	1	3	1		3
6 pm			1				
7 pm		1	2				
8 pm							
9 pm							
10 pm							
11 pm							
Prorated Daily Helio Activity	1	1	1	1	1	1	2
Total Daily Aircraft Takeoffs	5	36	41	35	26	22	10
Prorated Total Helio Activity	8						
Total Fixed Wing Activity	167						
Total Aircraft Takeoffs =	175						

Weekly Activity Report
 22N Jake Arner Memorial
 22N Fall II 2010

For: 16 Dec 2010 - 22 Dec 2010

Day->	Thurs 16-Dec	Fri 17-Dec	Sat 18-Dec	Sun 19-Dec	Mon 20-Dec	Tues 21-Dec	Wed 22-Dec
12 am							
1 am							
2 am							
3 am							
4 am							
5 am							
6 am							
7 am			1				
8 am	1						
9 am	1		1	1			
10 am	6		1	5	2		
11 am	1		5	1	2		
12 pm			5	3	1	1	1
1 pm	3	2	1	5	2		1
2 pm	1	1	2	2	2		1
3 pm			5	5	1		2
4 pm	3		1	1			1
5 pm	1		2	6		1	
6 pm			2	4			1
7 pm			1			1	
8 pm	3	2				2	
9 pm							
10 pm							
11 pm							
Prorated Daily Helio Activity	1	1	1	1	1	1	2
Total Daily Aircraft Takeoffs	21	6	28	34	11	6	9
Prorated Total Helio Activity	8						
Total Fixed Wing Activity	107						
Total Aircraft Takeoffs =	115						

Weekly Activity Report
 22N Jake Arner Memorial
 22N Winter I 2011

For: 12 Feb 2011 - 18 Feb 2011

Day->	Sat 12-Feb	Sun 13-Feb	Mon 14-Feb	Tues 15-Feb	Wed 16-Feb	Thurs 17-Feb	Fri 18-Feb
12 am							
1 am							
2 am							
3 am							
4 am							
5 am							
6 am							
7 am							
8 am	1	1				2	1
9 am	2	2			1	2	1
10 am	2	1				3	1
11 am	1	2				1	
12 pm	5	5					
1 pm	5	1					
2 pm	2				1		
3 pm	2				1		
4 pm	1					2	
5 pm				1		4	
6 pm				2	2		
7 pm					4		
8 pm							
9 pm							
10 pm							
11 pm							
Prorated Daily Helio Activity	1	1	1	1	1	1	2
Total Daily Aircraft Takeoffs	22	13	1	4	10	15	5
Prorated Total Helio Activity	8						
Total Fixed Wing Activity	62						
Total Aircraft Takeoffs =	70						

Weekly Activity Report
 22N Jake Arner Memorial
 22N Winter II 2011

For: 15 Mar 2011 – 21 Mar 2011

Day->	Tues 15-Mar	Wed 16-Mar	Thurs 17-Mar	Fri 18-Mar	Sat 19-Mar	Sun 20-Mar	Mon 21-Mar
12 am							
1 am							
2 am							
3 am							
4 am							
5 am							
6 am							
7 am							
8 am						2	
9 am			3		1	1	
10 am				1		2	
11 am	5	3	1		1	2	
12 pm	3		2			5	
1 pm	3		1		1	1	
2 pm			2			1	
3 pm						3	
4 pm	1		1			1	
5 pm	6		1			4	
6 pm	1	2	2	1		10	
7 pm	1			2		1	
8 pm				1			
9 pm							
10 pm		1					
11 pm							
Prorated Daily Helio Activity	1	1	1	1	1	2	1
Total Daily Aircraft Takeoffs	21	7	14	6	4	35	1
Prorated Total Helio Activity	8						
Total Fixed Wing Activity	80						
Total Aircraft Takeoffs =	88						

Weekly Activity Report For: 6 May 2011 - 12 May 2011
 22N Jake Arner Memorial
 22N Spring I 2011

Day->	Fri 6-May	Sat 7-May	Sun 8-May	Mon 9-May	Tues 10-May	Wed 11-May	Thurs 12-May
12 am							
1 am							
2 am							
3 am							
4 am							
5 am	1						
6 am	1						
7 am				1	1		
8 am	2	3			2		1
9 am	4				3	1	1
10 am	3	4		3	2	4	1
11 am	9	5		2	6	2	1
12 pm	1					1	1
1 pm					4	2	6
2 pm	3		1	1	4	4	1
3 pm			2	1		1	1
4 pm	1		1	1	1	1	
5 pm	1	1				2	1
6 pm	3	1	1	1	6	1	
7 pm	2	1			6	2	3
8 pm			2	1	1	2	3
9 pm							
10 pm							
11 pm				1			
Prorated Daily Helio Activity	2	2	1	1	1	2	1
Total Daily Aircraft Takeoffs	33	17	8	13	37	25	21
Prorated Total Helio Activity	10						
Total Fixed Wing Activity	144						
Total Aircraft Takeoffs =	154						

Weekly Activity Report For: 30 Jun 2011 - 6 Jul 2011
 22N Jake Arner Memorial
 22N Spring II 2011

Day->	Thurs 30-Jun	Fri 1-Jul	Sat 2-Jul	Sun 3-Jul	Mon 4-Jul	Tues 5-Jul	Wed 6-Jul
12 am							
1 am							
2 am							
3 am							
4 am							
5 am							
6 am							
7 am			1				
8 am				1	1		
9 am	4	4		1	4		1
10 am	1	1	1		2	2	5
11 am		6		1	1		
12 pm	3	4	1		4	1	
1 pm	2	1					
2 pm	3				1	2	
3 pm	3	1			4		1
4 pm		4	4			1	
5 pm		1	5			2	
6 pm		1	5		1	2	
7 pm		1	2	1	2	4	2
8 pm	6				1	2	2
9 pm		1					
10 pm							
11 pm							
Prorated Daily Helio Activity	1	1	1	1	1	1	2
Total Daily Aircraft Takeoffs	23	26	20	5	22	17	13
Prorated Total Helio Activity	8						
Total Fixed Wing Activity	118						
Total Aircraft Takeoffs =	126						

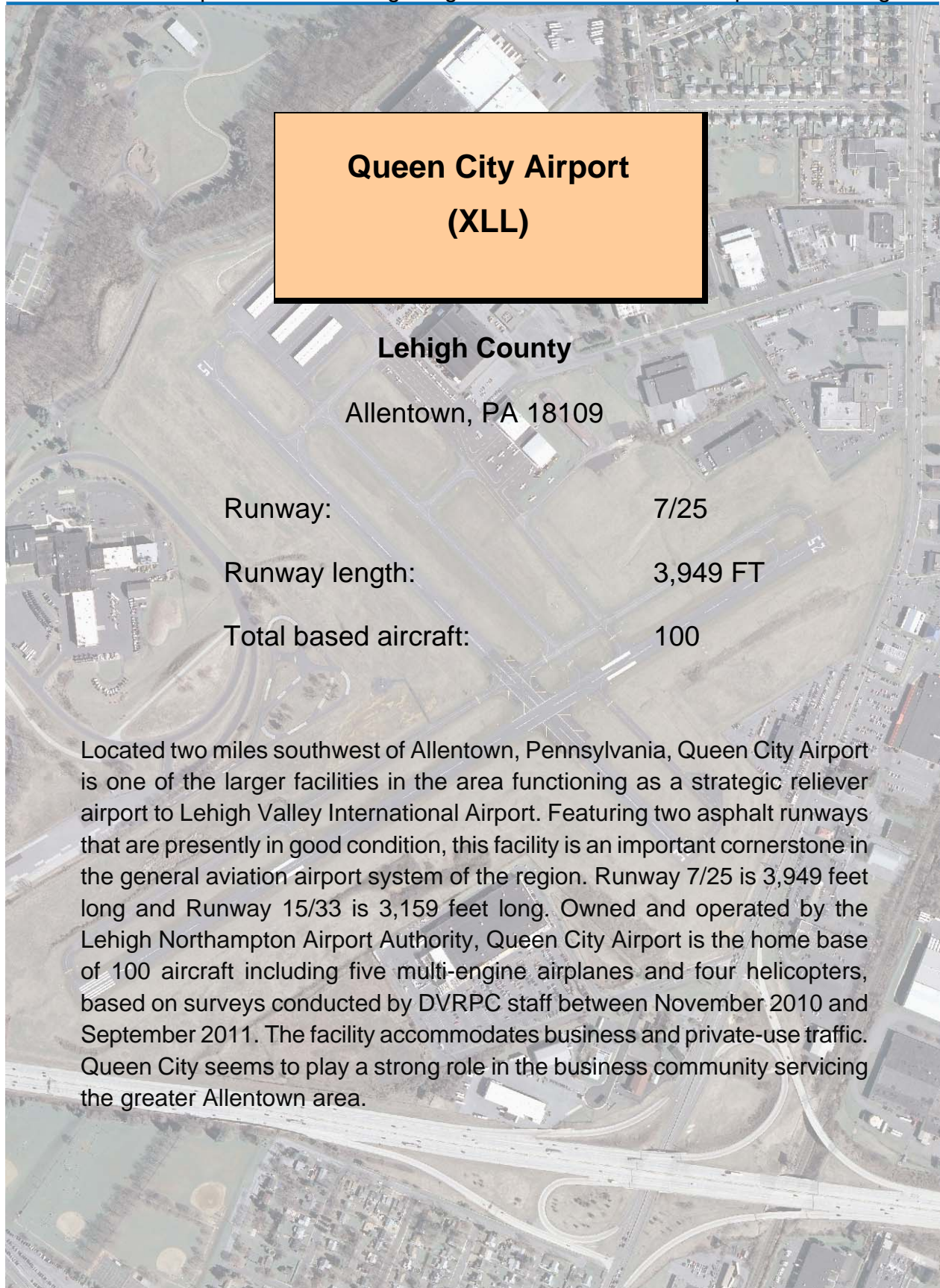
Weekly Activity Report For: 30 Jul 2011 - 5 Aug 2011
 22N Jake Arner Memorial
 22N Summer I 2011

Day->	Sat 30-Jul	Sun 31-Jul	Mon 1-Aug	Tues 2-Aug	Wed 3-Aug	Thurs 4-Aug	Fri 5-Aug
12 am							
1 am							
2 am							
3 am							
4 am							
5 am							
6 am							
7 am	3	3		1			
8 am	2	2		1	1		
9 am	1	4	2		2		
10 am	1	1	3		3		1
11 am		1	4	1			1
12 pm	2	1	3	2		2	
1 pm	2	1	2	2	3		1
2 pm		1			2	1	4
3 pm	1	2				4	5
4 pm		8				4	
5 pm	2	1				8	
6 pm		5		3		1	
7 pm	1	2		2		2	1
8 pm	2	3		3			
9 pm		2		1			
10 pm		3		2			2
11 pm							
Prorated Daily Helio Activity	2	2	1	1	1	2	1
Total Daily Aircraft Takeoffs	19	42	15	19	12	24	16
Prorated Total Helio Activity	10						
Total Fixed Wing Activity	137						
Total Aircraft Takeoffs =	147						

Weekly Activity Report
 22N Jake Arner Memorial
 22N Summer II 2011

For: 30 Aug 2011 - 5 Sep 2011

Day->	Tues 30-Aug	Wed 31-Aug	Thurs 1-Sep	Fri 2-Sep	Sat 3-Sep	Sun 4-Sep	Mon 5-Sep
12 am							
1 am							
2 am							
3 am							
4 am							
5 am							
6 am							
7 am		1					
8 am		1			3	4	
9 am		2	9	1	6	3	
10 am				1	4	6	
11 am	1		1		2		
12 pm			1	1	2	4	
1 pm	1				1	3	
2 pm				2	2	3	
3 pm	1			1	7	9	
4 pm	1	1			2	1	
5 pm	1			1	5	3	
6 pm	4		1	1	5	3	
7 pm	5	1	2	3	2		
8 pm		1			3		
9 pm							
10 pm							
11 pm							
Prorated Daily Helio Activity	1	1	1	1	1	2	2
Total Daily Aircraft Takeoffs	15	8	15	12	45	41	2
Prorated Total Helio Activity	9						
Total Fixed Wing Activity	129						
Total Aircraft Takeoffs =	138						



DVRPC Aircraft Counting Program

Annual Summary

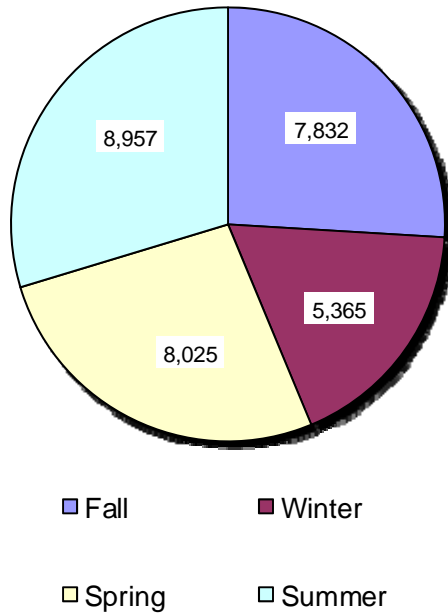
Airport: **XLL Queen City Airport**

County: **Lehigh**

Table 5: XLL Queen City Airport Annual Summary

Season & Year		Average Daily Operations	Total Seasonal Operations	Percent of Annual Operations
Fall	2010	88.0	7,832	26%
Winter	2011	60.3	5,365	18%
Spring	2011	86.3	8,025	27%
Summer	2010	95.3	8,957	30%
Total Annual Operations:			30,179	100%
Margin of Error:				8 at 95% Confidence

Figure 2: XLL Queen City Airport Annual Summary



Weekly Activity Report
 XLL Queen City Airport
 XLL Fall I 2010

For: 9 Nov 2010 - 15 Nov 2010

Day->	Tues 9-Nov	Wed 10-Nov	Thurs 11-Nov	Fri 12-Nov	Sat 13-Nov	Sun 14-Nov	Mon 15-Nov
12 am							
1 am							
2 am							
3 am							
4 am							
5 am							
6 am							
7 am				1			
8 am		1	1		1	1	
9 am		3	6	7	3		
10 am	2	1	5	9	8	8	
11 am	6	2	4	6	9	3	
12 pm	4	3	3	14	9	8	
1 pm	4	2	9	2	3	3	
2 pm		4	5	7	3	4	2
3 pm	3	5	5	5	4	13	1
4 pm	3	11		12	8	7	1
5 pm	11	12		3	6	4	
6 pm	2	2	1				2
7 pm	1	2	5	1	1		2
8 pm		2			1		2
9 pm				1	1		
10 pm							
11 pm							
Prorated Daily Helio Activity	3	3	3	4			3
Total Daily Aircraft Takeoffs	39	53	47	72	57	51	13
Prorated Total Helio Activity	16						
Total Fixed Wing Activity	316						
Total Aircraft Takeoffs =	332						

Weekly Activity Report
 XLL Queen City Airport
 XLL Fall II 2010

For: 16 Dec 2010 - 22 Dec 2010

Day->	Thurs 16-Dec	Fri 17-Dec	Sat 18-Dec	Sun 19-Dec	Mon 20-Dec	Tues 21-Dec	Wed 22-Dec
12 am							
1 am							
2 am							
3 am							
4 am							
5 am							
6 am							
7 am	5	4	2		3	2	
8 am	1	2	7	3	3	3	2
9 am	1	4	4	3	5	5	4
10 am	5	5	7	14	2	4	1
11 am	5		6	6	3	4	1
12 pm	3	4	10	1	1	1	
1 pm	3	9	6	3	1	1	
2 pm	5	3	8	6	5	4	6
3 pm	1	3	9	6	1	1	3
4 pm		3	3	5	3	3	2
5 pm		2	1	1	2	3	2
6 pm		1		5		1	
7 pm							1
8 pm							
9 pm							
10 pm							
11 pm							
Prorated Daily Helio Activity	3	4			3	3	3
Total Daily Aircraft Takeoffs	32	44	63	53	32	35	25
Prorated Total Helio Activity	16						
Total Fixed Wing Activity	268						
Total Aircraft Takeoffs =	284						

Weekly Activity Report
 XLL Queen City Airport
 XLL Winter I 2011

For: 11 Feb 2011 - 17 Feb 2011

Day->	Fri 11-Feb	Sat 12-Feb	Sun 13-Feb	Mon 14-Feb	Tues 15-Feb	Wed 16-Feb	Thurs 17-Feb
12 am							1
1 am							
2 am							
3 am							
4 am							
5 am							
6 am					1		
7 am			1				
8 am	1	2	1				1
9 am		5	2	2		1	3
10 am	3	3	2	2	1	1	
11 am		5	1	1	2	6	6
12 pm	3	5	4	2	1	2	7
1 pm	6	3	3	3	3	2	6
2 pm	2	2	6	1		3	3
3 pm			5	2	3	1	3
4 pm	1	1	3	3	1	6	3
5 pm		1	1			3	8
6 pm	1	1		1		2	3
7 pm					2	2	
8 pm							
9 pm							1
10 pm						1	
11 pm							
Prorated Daily Helio Activity	3			3	3	3	3
Total Daily Aircraft Takeoffs	20	28	29	20	17	33	48
Prorated Total Helio Activity	15						
Total Fixed Wing Activity	180						
Total Aircraft Takeoffs =	195						

Weekly Activity Report
 XLL Queen City Airport
 XLL Winter II 2011

For: 15 Mar 2011 - 21 Mar 2011

Day->	Tues 15-Mar	Wed 16-Mar	Thurs 17-Mar	Fri 18-Mar	Sat 19-Mar	Sun 20-Mar	Mon 21-Mar
12 am							
1 am							
2 am							
3 am							
4 am				1			
5 am							
6 am					1		
7 am				1		1	
8 am			1	3	3	3	
9 am			2	2	1	9	
10 am	3		3	1	6	7	
11 am	7		3	5	4	10	
12 pm	1	1	1	4	1	5	
1 pm	2			5	4	12	
2 pm	2	1	6	2	2	6	
3 pm	4	2	25		1	3	
4 pm	1		4	1	2	4	
5 pm	1		13			1	
6 pm	1		6	3	1	1	
7 pm				1		2	
8 pm							
9 pm							
10 pm				1			1
11 pm		1					
Prorated Daily Helio Activity	3	3	3	3			3
Total Daily Aircraft Takeoffs	25	8	67	33	26	64	4
Prorated Total Helio Activity	15						
Total Fixed Wing Activity	212						
Total Aircraft Takeoffs =	227						

Weekly Activity Report
 XLL Queen City Airport
 XLL Spring I 2011

For: 6 May 2011 - 12 May 2011

Day->	Fri 6-May	Sat 7-May	Sun 8-May	Mon 9-May	Tues 10-May	Wed 11-May	Thurs 12-May
12 am							
1 am							
2 am							
3 am							
4 am							
5 am							
6 am	1						
7 am	1	2	3	1	1	1	3
8 am	5	1	5			1	4
9 am	7	2	6	1		7	4
10 am	2	8	3		3	7	9
11 am	4	7	2	3	2	1	2
12 pm	2	11	4	4		2	3
1 pm	7	8	8	5	7	4	5
2 pm	3	3	4	1		3	
3 pm	3	5	5	1	1	5	3
4 pm	8	8	2	4	1	2	7
5 pm	5	3	3	1	4	1	3
6 pm	6	1		7	8	2	1
7 pm	3	2		1	1	1	3
8 pm	1					2	
9 pm							
10 pm							
11 pm					1		1
Prorated Daily Helio Activity	4			3	3	3	4
Total Daily Aircraft Takeoffs	62	61	45	32	32	42	52
Prorated Total Helio Activity	17						
Total Fixed Wing Activity	309						
Total Aircraft Takeoffs =	326						

Weekly Activity Report
 XLL Queen City Airport
 XLL Spring II 2011

For: 29 Jun 2011 - 5 Jul 2011

Day->	Wed 29-Jun	Thurs 30-Jun	Fri 1-Jul	Sat 2-Jul	Sun 3-Jul	Mon 4-Jul	Tues 5-Jul
12 am							
1 am				1			
2 am							
3 am							
4 am							
5 am							1
6 am		1				1	
7 am	1	3	3	1			1
8 am	3	2	1	6	5	1	5
9 am	2	2	1	6	4	2	5
10 am	3		1	5	2	4	4
11 am	4	2	3	4	3	8	5
12 pm	1	1	6	6	1	2	2
1 pm	2	2	6	7	5		1
2 pm		1	6	6	1	1	2
3 pm	2	2	3	5	2		5
4 pm	4	1	1	3	2		3
5 pm	3		1	2	5	2	5
6 pm		7	1	3			5
7 pm	1	3	1			1	2
8 pm		1	6			6	1
9 pm	4	2					
10 pm		1					
11 pm							
Prorated Daily Helio Activity	3	4	4			3	3
Total Daily Aircraft Takeoffs	33	35	44	55	30	31	50
Prorated Total Helio Activity	17						
Total Fixed Wing Activity	261						
Total Aircraft Takeoffs =	278						

Weekly Activity Report
 XLL Queen City Airport
 XLL Summer I 2011

For: 31 Jul 2011 - 6 Aug 2011

Day->	Sun 31-Jul	Mon 1-Aug	Tues 2-Aug	Wed 3-Aug	Thurs 4-Aug	Fri 5-Aug	Sat 6-Aug
12 am							
1 am							
2 am							
3 am	1						
4 am							
5 am							
6 am		1		1			
7 am	1	1	1	3	3	1	
8 am	4	5	3	1	1	1	5
9 am	2	5	6	7	1	1	18
10 am	7	5	3	2	1	7	12
11 am	3	3	3	7	1	11	5
12 pm	2	1	7	2	4	5	6
1 pm	4	5	4	3	7	5	1
2 pm	8	2	6	1	6	2	
3 pm	5	5		5	6	2	
4 pm	4	1		2	3	6	
5 pm	3		3	1	4	1	
6 pm	1		4	5	1	6	
7 pm	4		8		1	4	
8 pm	2				1		
9 pm	1	6				1	
10 pm		1	1				
11 pm							
Prorated Daily Helio Activity		3	3	3	4	4	
Total Daily Aircraft Takeoffs	52	44	52	43	44	57	47
Prorated Total Helio Activity	17						
Total Fixed Wing Activity	322						
Total Aircraft Takeoffs =	339						

Weekly Activity Report
 XLL Queen City Airport
 XLL Summer II 2011

For: 30 Aug 2011 - 5 Sep 2011

Day->	Tues 30-Aug	Wed 31-Aug	Thurs 1-Sep	Fri 2-Sep	Sat 3-Sep	Sun 4-Sep	Mon 5-Sep
12 am							
1 am							
2 am							
3 am							
4 am							
5 am							
6 am			1				
7 am		1	1	1	1	1	
8 am		2	2	1		1	
9 am	1	10	6	4	1	8	1
10 am	4	3	4	5	8	7	6
11 am	1	3	5	5	6	5	5
12 pm	3	1	1	4	8	2	5
1 pm	3	5	5	6	2	5	6
2 pm	2	4	1	3	5	4	5
3 pm		1	3	1	2	10	2
4 pm		1		1	4	8	2
5 pm	6	3	2	6	1	5	1
6 pm	12	9	3	1	2	4	
7 pm	7	8	2	2	1		
8 pm	1	1	2	1			
9 pm		2		2			
10 pm							
11 pm	1				1		
Prorated Daily Helio Activity	3	3	4	4			3
Total Daily Aircraft Takeoffs	44	57	42	47	42	60	36
Prorated Total Helio Activity	17						
Total Fixed Wing Activity	311						
Total Aircraft Takeoffs =	328						



Schuylkill County Airport

ZER

Schuylkill County

Pottsville, PA 17921

Runway: 11/29

Runway length: 4,594 FT

Total based aircraft: 25

Located eight miles west of Pottsville, PA, Schuylkill County Airport (ZER) features two runways that are presently in good condition. Runway 11/29 is asphalt and 4,594 feet in length. Runway 4/22 is turf and 2,270 feet in length.

Owned and operated by the Schuylkill County Airport Authority, this facility is the home base for 25 aircraft including five multi-engine airplanes, a jet airplane and two helicopters, based on interviews with airport management. A very active paint shop is based at the facility and provides ZER with a steady stream of business. At the end of this survey the paint shop was facing backorders in excess of six months. The location of Schuylkill County Airport along the growing I-81 Industrial Corridor gives it a strategically favorable position in this part of the Commonwealth.

DVRPC Aircraft Counting Program

Annual Summary

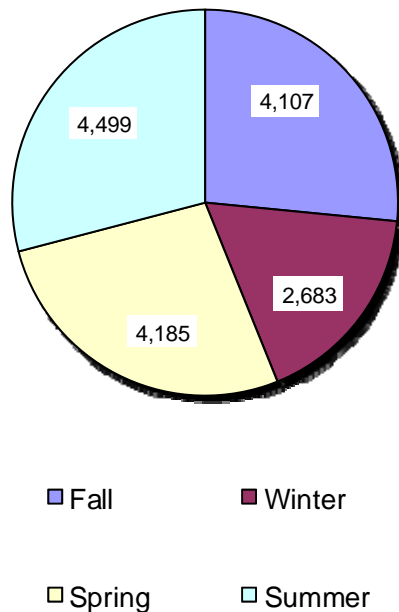
Airport: **ZER Schuylkill County Airport**

County: **Schuylkill**

Table 6: ZER Schuylkill County Airport Annual Summary

Season & Year		Average Daily Operations	Total Seasonal Operations	Percent of Annual Operations
Fall	2010	46.1	4,107	27%
Winter	2011	30.1	2,683	17%
Spring	2011	45.0	4,185	27%
Summer	2011	47.8	4,499	29%
Total Annual Operations:			15,474	100%
Margin of Error:				18 at 95% Confidence

Figure 3: ZER Schuylkill County Airport Annual Summary



Weekly Activity Report
 ZER Schuylkill County
 ZER Fall I 2010

For: 10 Nov 2010 - 16 Nov 2010

Day->	Wed 10-Nov	Thurs 11-Nov	Fri 12-Nov	Sat 13-Nov	Sun 14-Nov	Mon 15-Nov	Tues 16-Nov
12 am							
1 am							
2 am							
3 am							
4 am							
5 am							
6 am				1			
7 am			1				
8 am			1				
9 am			1	2	1		
10 am				2	3		
11 am		3	1	3	2	1	
12 pm		1	2	4	10		
1 pm	2	4	1	26	1	1	
2 pm	4	4		11	18		
3 pm	17	7	2	7	1		
4 pm	1		5	9	1	5	
5 pm		2	1	2		1	
6 pm				1	1		
7 pm	6		3				
8 pm	1						
9 pm							
10 pm			4				
11 pm			1				
Prorated Daily Helio Takeoffs	4	4	5	4	4	4	4
Total Daily Aircraft Takeoffs	35	25	28	72	42	12	4
Prorated Total Helio Takeoffs	29						
Total Fixed Wing Takeoffs	189						
Total Aircraft Takeoffs =	218						

Weekly Activity Report
 ZER Schuylkill County
 ZER Fall II 2010

For: 16 December 2010 - 22 December 2010

Day->	Thurs 16-Dec	Fri 17-Dec	Sat 18-Dec	Sun 19-Dec	Mon 20-Dec	Tues 21-Dec	Wed 22-Dec
12 am							
1 am							
2 am							
3 am							
4 am							
5 am							
6 am							
7 am							
8 am			2				
9 am			3	2			
10 am	1		4	3			1
11 am		1	2	5	1	1	
12 pm		3	6	5		2	
1 pm			3	1			
2 pm			3	1			
3 pm			3	1	1		
4 pm			2	1	3		3
5 pm	1		1	2			
6 pm				2			1
7 pm	1			1		1	
8 pm						1	
9 pm							
10 pm							
11 pm		1					
Prorated Daily Helio Takeoffs	4	5	4	4	4	4	4
Total Daily Aircraft Takeoffs	7	10	33	28	9	9	9
Prorated Total Helio Takeoffs	29						
Total Fixed Wing Takeoffs	76						
Total Aircraft Takeoffs =	105						

Weekly Activity Report
 ZER Schuylkill County
 ZER Winter I 2011

For: 8 Feb 2011 - 14 Feb 2011

Day->	Tues 8-Feb	Wed 9-Feb	Thurs 10-Feb	Fri 11-Feb	Sat 12-Feb	Sun 13-Feb	Mon 14-Feb
12 am							
1 am							
2 am							
3 am							
4 am							
5 am							
6 am							
7 am							
8 am					1		
9 am		1					
10 am				1	2		
11 am						1	
12 pm			1	1	2	1	
1 pm					2	1	2
2 pm	4				3	1	
3 pm	2	5	1		2	1	
4 pm	1				3	1	
5 pm	1		1		2		
6 pm	5	3			2		
7 pm		4	5		3		
8 pm	1		1				
9 pm	2	1			1		
10 pm							
11 pm							
Prorated Daily Helio Takeoffs	4	4	4	5	4	4	4
Total Daily Aircraft Takeoffs =	20	18	13	7	27	10	6
Prorated Total Helio Takeoffs	29						
Total Fixed Wing Takeoffs	72						
Total Aircraft Takeoffs =	101						

Weekly Activity Report
 ZER Schuylkill County
 ZER Winter II 2011

For: 17 March 2011 - 23 March 2011

Day->	Thurs 17-Mar	Fri 18-Mar	Sat 19-Mar	Sun 20-Mar	Mon 21-Mar	Tues 22-Mar	Wed 23-Mar
12 am							
1 am							
2 am							
3 am							
4 am							
5 am							
6 am							
7 am	1						
8 am							2
9 am	1			2			3
10 am	1	1		2			
11 am	2		1	2			
12 pm	2				1		
1 pm	1		2	5	2	1	
2 pm	3	1	5	7	1		
3 pm			3	3	1	1	
4 pm	1			2	1	3	
5 pm	2	2		2	1		
6 pm		2	1	2			
7 pm						1	
8 pm						4	
9 pm							
10 pm							
11 pm							
Prorated Daily Helio Takeoffs	4	5	4	4	4	4	4
Total Daily Aircraft Takeoffs	18	11	16	31	11	14	9
Prorated Total Helio Takeoffs	29						
Total Fixed Wing Takeoffs	81						
Total Aircraft Takeoffs =	110						

Weekly Activity Report
 ZER Schuylkill County
 ZER Spring I 2011

For: 7 May 2011 - 13 May 2011

Day->	Sat 7-May	Sun 8-May	Mon 9-May	Tues 10-May	Wed 11-May	Thurs 12-May	Fri 13-May
12 am							
1 am							
2 am							
3 am							
4 am							
5 am							
6 am							
7 am	1				1		
8 am	6	2					
9 am	4	3					
10 am	1	1					3
11 am	1	2				2	
12 pm	2	5					1
1 pm	5	1				1	
2 pm	8	1	1	1		1	
3 pm	5	1		1	2	3	
4 pm	5	2	1			1	3
5 pm		3					1
6 pm		1		2			
7 pm		1		1			1
8 pm							
9 pm				5			
10 pm			3				
11 pm							
Prorated Daily Helio Takeoffs	4	4	4	4	4	4	5
Total Daily Aircraft Takeoffs	42	27	9	14	7	12	14
Prorated Total Helio Takeoffs	29						
Total Fixed Wing Takeoffs	96						
Total Aircraft Takeoffs =	125						

Weekly Activity Report
 ZER Schuylkill County
 ZER Spring II 2011

For: 30 June 2011 - 6 July 2011

Day->	Thurs 30-Jun	Fri 1-Jul	Sat 2-Jul	Sun 3-Jul	Mon 4-Jul	Tues 5-Jul	Wed 6-Jul
12 am							
1 am							
2 am							
3 am							
4 am							
5 am							
6 am							
7 am		1					1
8 am	1		10				1
9 am		1	8	2	1		3
10 am	8	2	1		2		2
11 am	6		1	1	4	3	3
12 pm	3		1		1		1
1 pm	3	4	2		1	2	3
2 pm			1	1	5		2
3 pm		1	1	2	1		3
4 pm	20	1	1		1		14
5 pm						2	1
6 pm	3	1					
7 pm		4	1			4	
8 pm	3		3			1	1
9 pm							
10 pm							
11 pm							
Prorated Daily Helio Takeoffs	4	5	4	4	4	4	4
Total Daily Aircraft Takeoffs	51	20	34	10	20	16	39
Prorated Total Helio Takeoffs	29						
Total Fixed Wing Takeoffs	161						
Total Aircraft Takeoffs =	190						

Weekly Activity Report
 ZER Schuylkill County
 ZER Summer I 2011

For: 2 August 2011 - 8 August 2011

Day->	Tues 2-Aug	Wed 3-Aug	Thurs 4-Aug	Fri 5-Aug	Sat 6-Aug	Sun 7-Aug	Mon 8-Aug
12 am							
1 am							
2 am							
3 am							
4 am							
5 am							
6 am							
7 am					2		
8 am					3		
9 am		1		1	6		
10 am		1	1	1	4		
11 am	3	2		3	1	2	
12 pm	1	1		3	5		5
1 pm		1		1	5	3	3
2 pm		2		1	6	3	1
3 pm		2			6	1	1
4 pm		1		2	4	1	
5 pm	1		2		3		
6 pm			1	2	2		1
7 pm				20	2		
8 pm				7	3		3
9 pm	1						
10 pm	1						
11 pm							
Prorated Daily Helio Takeoffs	4	4	4	5	4	4	4
Total Daily Aircraft Takeoffs	11	15	8	46	56	14	18
Prorated Total Helio Takeoffs	29						
Total Fixed Wing Takeoffs	139						
Total Aircraft Takeoffs =	168						

Weekly Activity Report
 ZER Schuylkill County
 ZER Summer II 2011

For: 30 August 2011 - 5 September 2011

Day->	Tues 30-Aug	Wed 31-Aug	Thurs 1-Sep	Fri 2-Sep	Sat 3-Sep	Sun 4-Sep	Mon 5-Sep
12 am							
1 am							
2 am							
3 am							
4 am							
5 am							
6 am							
7 am					6		
8 am					3	1	
9 am				1	6	2	
10 am					6	2	
11 am		1			5	2	1
12 pm					6	3	
1 pm		2	1	7	2	2	
2 pm		4		4	6	1	
3 pm			4		6	2	1
4 pm	2				4	2	
5 pm	2	7	1		4	1	
6 pm		1	1		3	1	
7 pm	3	4	2	2	2	1	
8 pm			1				
9 pm	2						
10 pm	2					3	
11 pm							
Prorated Daily Helio Takeoffs	4	4	4	5	4	4	4
Total Daily Aircraft Takeoffs	15	23	14	19	63	27	6
Prorated Total Helio Takeoffs	29						
Total Fixed Wing Takeoffs	138						
Total Aircraft Takeoffs =	167						



**Wilkes-Barre
Wyoming Valley Airport
WBW**

Luzerne County

Wilkes-Barre, PA 18071

Runway:	7/25
Runway length:	3,375 FT
Total based aircraft:	50

Located three miles north of Wilkes-Barre, Pennsylvania, Wilkes-Barre Wyoming Valley Airport (WBW) is owned and operated by the County of Luzerne. This facility features two runways presently in good condition. Asphalt runway 7/25 measures 3,375 feet in length. A second runway 9/27 is 2,191 feet long. Its first 544 feet, from the 27 end, is asphalt, with the remainder of the runway being turf. The portion of the turf runway is particularly active from late Spring to early Fall. The Wilkes-Barre Wyoming Valley Airport is the home base for 50 aircraft in this part of the state.

DVRPC Aircraft Counting Program

Annual Summary

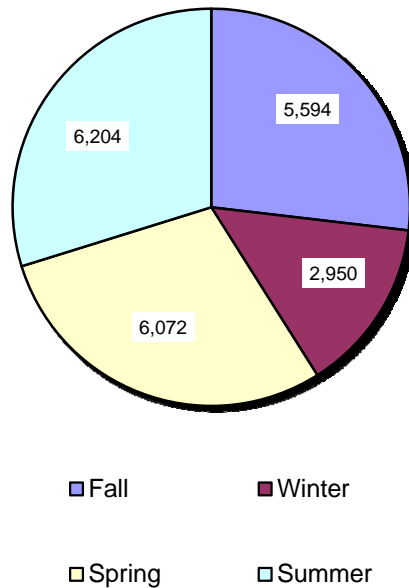
Airport: **WBW Wyoming Valley Airport**

County: **Luzerne**

Table 7: WBW Wilkes-Barre Wyoming Valley Airport Annual Summary

Season & Year		Average Daily Operations	Total Seasonal Operations	Percent of Annual Operations
Fall	2010	62.9	5,594	27%
Winter	2011	33.1	2,950	14%
Spring	2011	65.3	6,072	29%
Summer	2011	66.0	6,204	30%
Total Annual Operations:			20,820	100%
Margin of Error:				15 at 95% Confidence

Figure 4: WBW Wilkes-Barre Wyoming Valley Airport Annual Summary



Weekly Activity Report
 WBW Wyoming Valley
 WBW Fall I 2010

For: 10 Nov 2010 - 16 Nov 2010

Day->	Wed 10-Nov	Thurs 11-Nov	Fri 12-Nov	Sat 13-Nov	Sun 14-Nov	Mon 15-Nov	Tues 16-Nov
12 am							
1 am							
2 am							
3 am							
4 am							
5 am							
6 am							
7 am		4		2			3
8 am	4	11		8			2
9 am	1	8	4	4	2		4
10 am	2		5	4	6		6
11 am	2	6	2	3	8	1	3
12 pm	3	2	2	3	2		2
1 pm	1	3	1	2	1	3	1
2 pm		1	2	5	2	2	1
3 pm	1	5	3	5	6		1
4 pm	7	2	3	9	1	1	1
5 pm	1	1			1	7	1
6 pm		1		1	2	3	
7 pm		1		1		3	
8 pm						6	
9 pm		2					
10 pm							
11 pm							
Prorated Daily Helio Takeoffs	1	1	1	1	1	1	1
Total Daily Aircraft Takeoffs	23	48	23	48	32	27	26
Prorated Total Helio Takeoffs	7						
Total Fixed Wing Takeoffs	220						
Total Aircraft Takeoffs =	227						

Weekly Activity Report
 WBW Wyoming Valley
 WBW Fall II 2010

For: 15 Dec 2010 - 21 Dec 2010

Day->	Wed 15-Dec	Thurs 16-Dec	Fri 17-Dec	Sat 18-Dec	Sun 19-Dec	Mon 20-Dec	Tues 21-Dec
12 am							
1 am							
2 am							
3 am							
4 am							
5 am							
6 am							
7 am							
8 am	5			2		2	
9 am	5	5		4	5	4	
10 am				2	5	6	1
11 am		4	2	6		4	1
12 pm		9	3	5	1	4	5
1 pm	5	5	5	2	6		5
2 pm	1	2	2	12	6	1	5
3 pm		1	7	18	8	1	1
4 pm	3		8		8	1	3
5 pm							
6 pm							
7 pm							
8 pm							
9 pm							
10 pm							
11 pm							
Prorated Daily Helio Takeoffs	1	1	1	1	1	1	1
Total Daily Aircraft Takeoffs	20	27	28	52	40	24	22
Prorated Total Helio Takeoffs	7						
Total Fixed Wing Takeoffs	206						
Total Aircraft Takeoffs =	213						

Weekly Activity Report
 WBW Wyoming Valley
 WBW Winter I 2011

For: 10 Feb 2011 - 16 Feb 2011

Day->	Thurs 10-Feb	Fri 11-Feb	Sat 12-Feb	Sun 13-Feb	Mon 14-Feb	Tues 15-Feb	Wed 16-Feb
12 am							
1 am							
2 am							
3 am							
4 am							
5 am							
6 am							
7 am					2		
8 am		1	3		3		1
9 am			1		2		1
10 am			2		2		2
11 am			2		1	2	1
12 pm			2			5	3
1 pm		1	5	1		5	6
2 pm		1	2	1			
3 pm		2	2	5		1	
4 pm	2	4	1	5		1	
5 pm	1	4	7				
6 pm			5	10			
7 pm				7			
8 pm				3			
9 pm							
10 pm							
11 pm							
Prorated Daily Helio Takeoffs	1	1	1		1	1	
Total Daily Aircraft Takeoffs	4	14	33	32	11	15	14
Prorated Total Helio Takeoffs	5						
Total Fixed Wing Takeoffs	118						
Total Aircraft Takeoffs =	123						

Weekly Activity Report
 WBW Wyoming Valley
 WBW Winter II 2011

For: 15 Mar 2011 - 21 Mar 2011

Day->	Tues 15-Mar	Wed 16-Mar	Thurs 17-Mar	Fri 18-Mar	Sat 19-Mar	Sun 20-Mar	Mon 21-Mar
12 am							
1 am							
2 am							
3 am							
4 am							
5 am							
6 am							
7 am						1	
8 am			1		1		
9 am				1		2	
10 am				2	1	1	
11 am			3	1	1	13	
12 pm	1			1		5	
1 pm	1		2		1	5	2
2 pm	2		1		3	4	
3 pm	1	3	2	1	1	7	
4 pm	1		1			4	
5 pm	2		6		2	3	
6 pm	1		3	2			
7 pm			6	1			
8 pm							
9 pm					1		
10 pm							
11 pm							
Prorated Daily Helio Takeoffs	1	1	1		1	1	
Total Daily Aircraft Takeoffs	10	4	26	9	12	46	2
Prorated Total Helio Takeoffs	5						
Total Fixed Wing Takeoffs	104						
Total Aircraft Takeoffs =	109						

Weekly Activity Report
 WBW Wyoming Valley
 WBW Spring I 2011

For: 8 May 2011 - 14 May 2011

Day->	Sun 8-May	Mon 9-May	Tues 10-May	Wed 11-May	Thurs 12-May	Fri 13-May	Sat 14-May
12 am							
1 am							
2 am							
3 am							
4 am							
5 am							
6 am							
7 am			1	1			
8 am			4				1
9 am				1			9
10 am	1	1	3	10	4		9
11 am	2	3		6	2		1
12 pm	2		1		2		
1 pm	2		1	2	1		7
2 pm	2	2	3	2	6		4
3 pm	1		1	5	3	4	8
4 pm	2		3	8	9		6
5 pm	1		3	12	2		5
6 pm	2	2	4	8		1	
7 pm		2	2	10			
8 pm		1		6	1		
9 pm				3			
10 pm							
11 pm							
Prorated Daily Helio Takeoffs	1	2	2	2	2	2	2
Total Daily Aircraft Takeoffs	16	13	28	76	32	7	52
Prorated Total Helio Takeoffs	13						
Total Fixed Wing Takeoffs	211						
Total Aircraft Takeoffs =	224						

Weekly Activity Report
 WBW Wyoming Valley
 WBW Spring II 2011

For: 30 Jun 2011 - 6 Jul 2011

Day->	Thurs 30-Jun	Fri 1-Jul	Sat 2-Jul	Sun 3-Jul	Mon 4-Jul	Tues 5-Jul	Wed 6-Jul
12 am							
1 am							
2 am							
3 am							
4 am							
5 am							
6 am							
7 am			4				
8 am		10	6				10
9 am	3	7					5
10 am	1		5		5	1	9
11 am	1	2	2		4	3	5
12 pm		2	5		9	1	
1 pm		1	7		4	2	
2 pm	2	3	14		13	3	
3 pm		5	7		1		3
4 pm		6	5		2		1
5 pm		4				1	1
6 pm	1	3	3				1
7 pm	2	1			1		7
8 pm	3	1				3	8
9 pm					1		
10 pm							
11 pm							
Prorated Daily Helio Takeoffs	2	2	2	1	2	2	2
Total Daily Aircraft Takeoffs	15	47	60	1	42	16	52
Prorated Total Helio Takeoffs	13						
Total Fixed Wing Takeoffs	220						
Total Aircraft Takeoffs =	233						

Weekly Activity Report
 WBW Wyoming Valley
 WBW Summer I 2011

For: 31 Jul 2011 - 6 Aug 2011

Day->	Sun 31-Jul	Mon 1-Aug	Tues 2-Aug	Wed 3-Aug	Thurs 4-Aug	Fri 5-Aug	Sat 6-Aug
12 am							
1 am							
2 am							
3 am							
4 am							
5 am							
6 am							
7 am							2
8 am	1	4	1	2		2	10
9 am	2					4	3
10 am	4	10	3		1	8	7
11 am	11	4	1			5	8
12 pm	1	4			7	2	4
1 pm	2	4	1	2	3	2	5
2 pm	9		1		2	5	
3 pm	4		1			13	
4 pm	8	3			1		
5 pm	2		1			3	
6 pm			1			2	
7 pm		5	4		3	9	
8 pm		6	5		1	7	
9 pm		1				2	
10 pm							
11 pm							
Prorated Daily Helio Takeoffs	2	2	2	2	3	2	2
Total Daily Aircraft Takeoffs	46	43	21	6	21	66	41
Prorated Total Helio Takeoffs	15						
Total Fixed Wing Takeoffs	229						
Total Aircraft Takeoffs =	244						

Weekly Activity Report
 WBW Wyoming Valley
 WBW Summer II 2011

For: 30 Aug 2011 - 5 Sep 2011

Day->	Tues 30-Aug	Wed 31-Aug	Thurs 1-Sep	Fri 2-Sep	Sat 3-Sep	Sun 4-Sep	Mon 5-Sep
12 am							
1 am							
2 am							
3 am							
4 am							
5 am							
6 am							
7 am			1				
8 am		1	1		8	3	
9 am		2	2	1	2	7	
10 am		3	1	2		3	
11 am		1	3	1	8	6	
12 pm		5	4	1		4	
1 pm		3		5	1	7	
2 pm	1	1	2	3		5	
3 pm	3	4	1	2		5	
4 pm	2	5		12			
5 pm	5	11		3			
6 pm	4	4		8			
7 pm	9	8	8	10			
8 pm			1				
9 pm							
10 pm							
11 pm							
Prorated Daily Helio Takeoffs	2	2	2	2	3	2	2
Total Daily Aircraft Takeoffs	26	50	26	50	22	42	2
Prorated Total Helio Takeoffs	15						
Total Fixed Wing Takeoffs	203						
Total Aircraft Takeoffs =	218						

Publication No.: 11028

Date Published: August 2012

Geographic Area Covered: Carbon, Lehigh, Luzerne, and Schuylkill Counties, PA

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

Abstract: This technical report compiles aircraft operations estimates from four non-towered airports located north and northwest of the Delaware Valley region. Eight acoustic samples were taken at each airport, starting in November 2010 and ending in September 2011. Each sample extended over the period of one week. The samples were extrapolated over the entire year. The survey results in general are used by multiple sources to monitor activity levels at non-towered airports and as a base for planning and forecasting documents. The Pennsylvania Bureau of Aviation, in particular, will use these results as a base to compare to forecasts in upcoming Master Plan and Airport Layout Plan updates for the surveyed airports.

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