

DANE COUNTY  
REGIONAL AIRPORT

MADISON



# Noise Abatement Subcommittee

*October 29, 2014*

*It's all about the journey.*

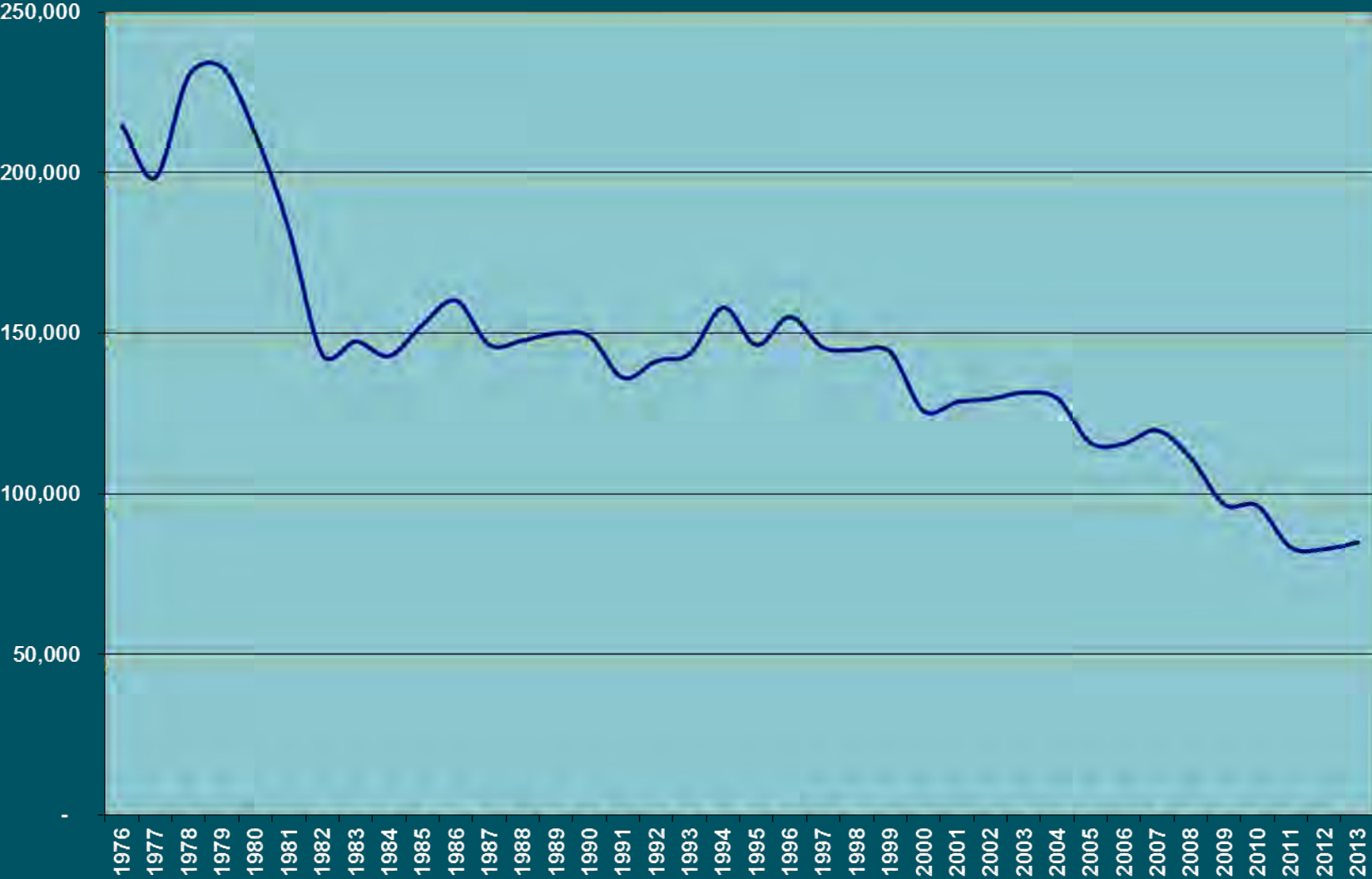
# AIRCRAFT MOVEMENTS

APR 14 – SEP 14

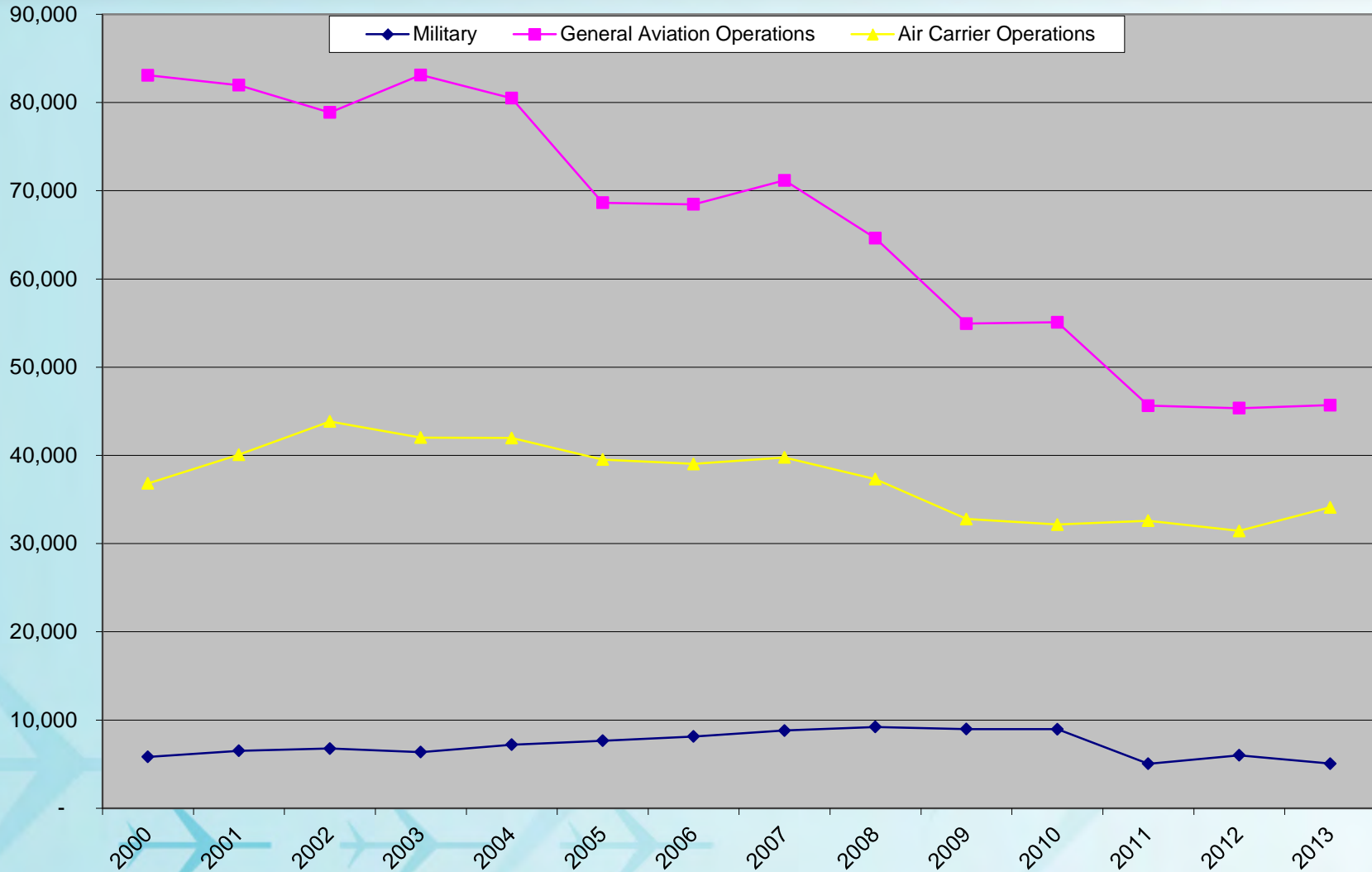
<b>Aircraft Movements</b>	<b>APR 13 – SEP 13</b>	<b>APR 14 – SEP 14</b>	<b>% Change</b>
<i><b>Air Carrier</b></i>	<b>17,625</b>	<b>16,573</b>	<b>-5.9</b>
<i><b>Military</b></i>	<b>3,020</b>	<b>2,325</b>	<b>-23.0</b>
<i><b>General Aviation</b></i>	<b>26,944</b>	<b>23,614</b>	<b>-12.3</b>
<i><b>Total Movements</b></i>	<b>47,589</b>	<b>42,512</b>	<b>-10.7</b>

# Aircraft Operations

Historical Total Aircraft Operations, DCRA



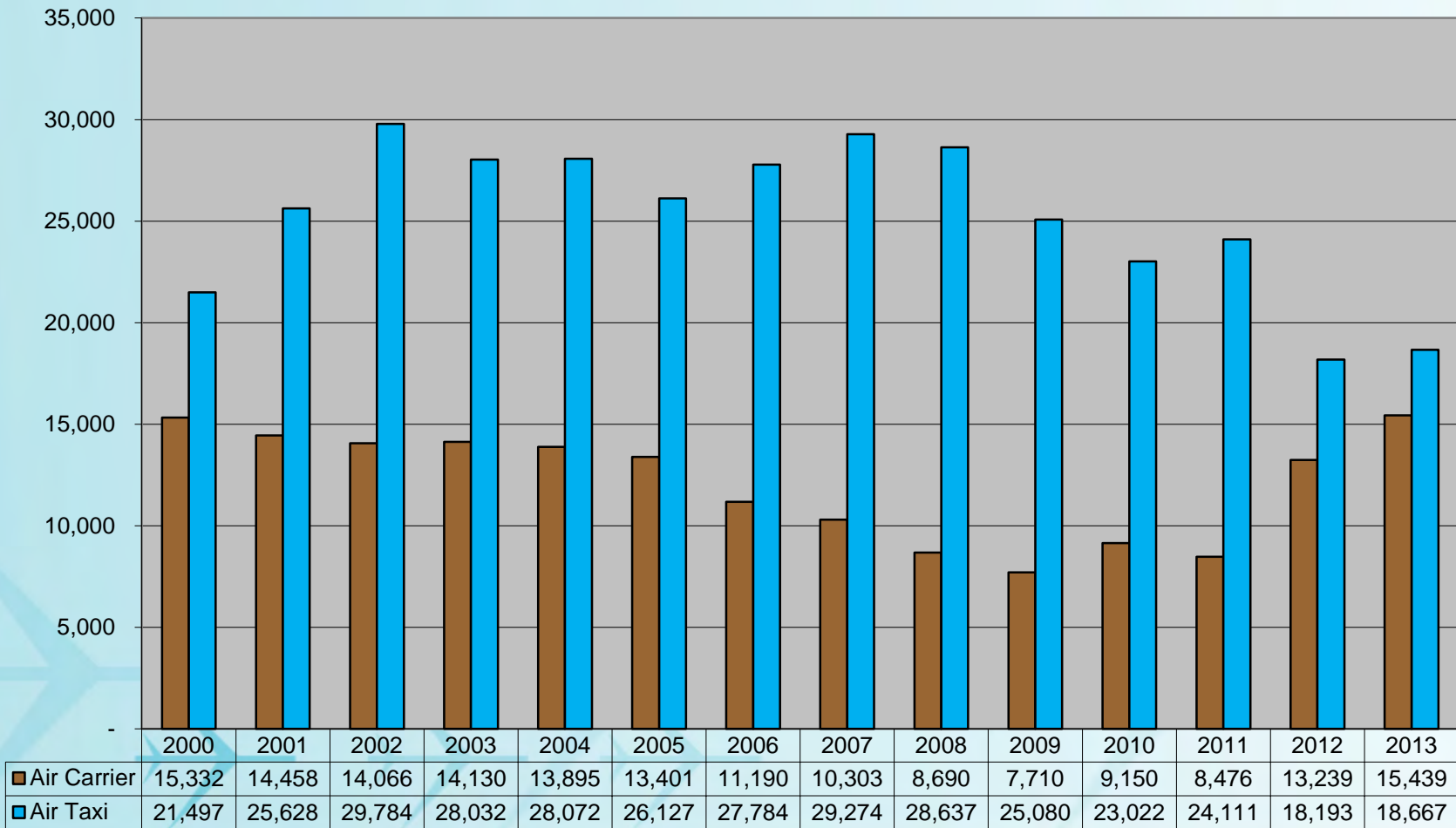
# Historical Aircraft Operations by Type



10/29/2014

# Air Carrier (A-320, DC-9) vs Air Taxi (CRJ, ERJ)

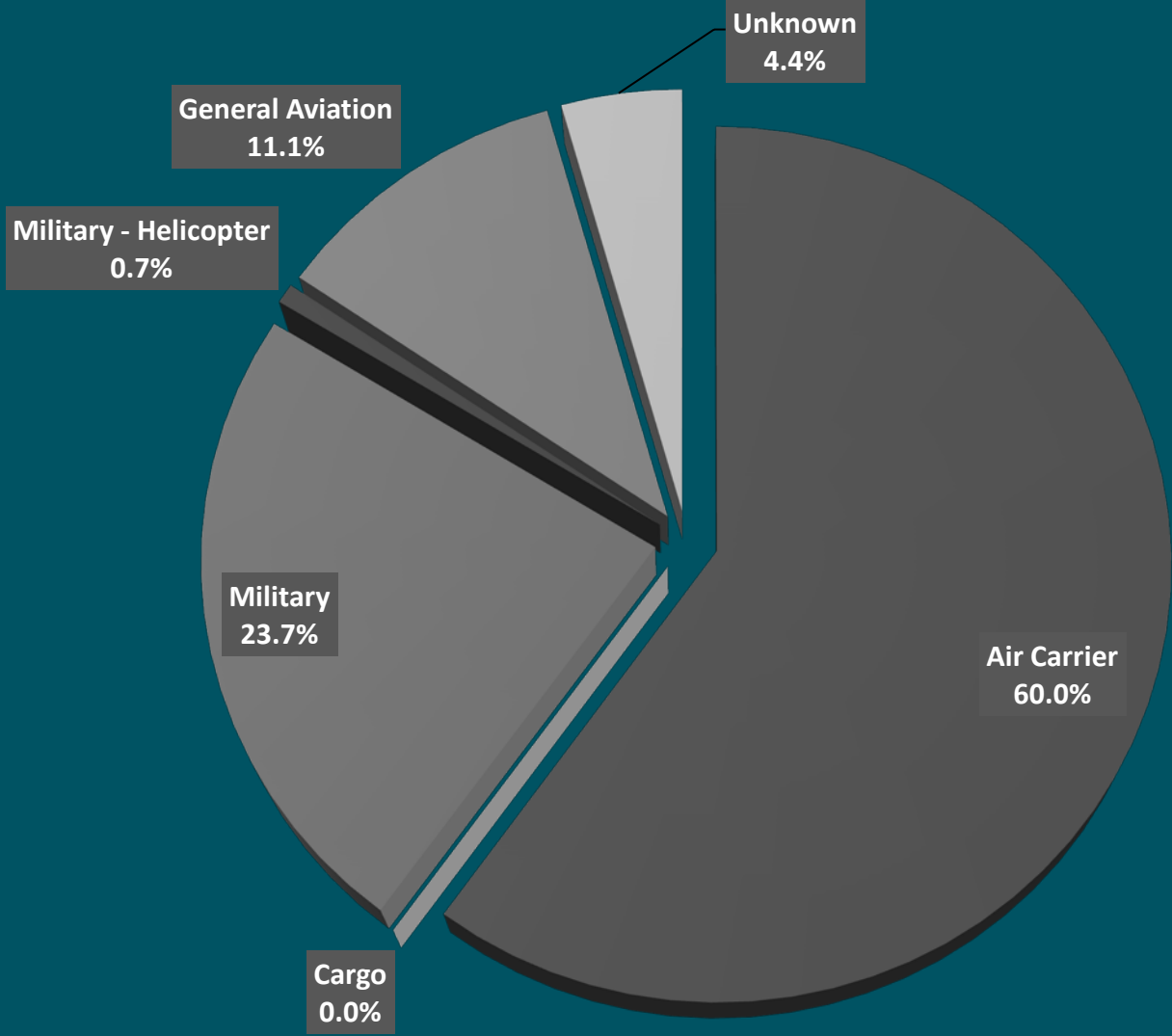
**AC aircraft have 60 or more seats**  
**AT aircraft have 59 seats or less**



10/29/2014

# COMPLAINTS BY AIRCRAFT TYPE

APR 14 – SEP 14



# COMPLAINTS BY AREA

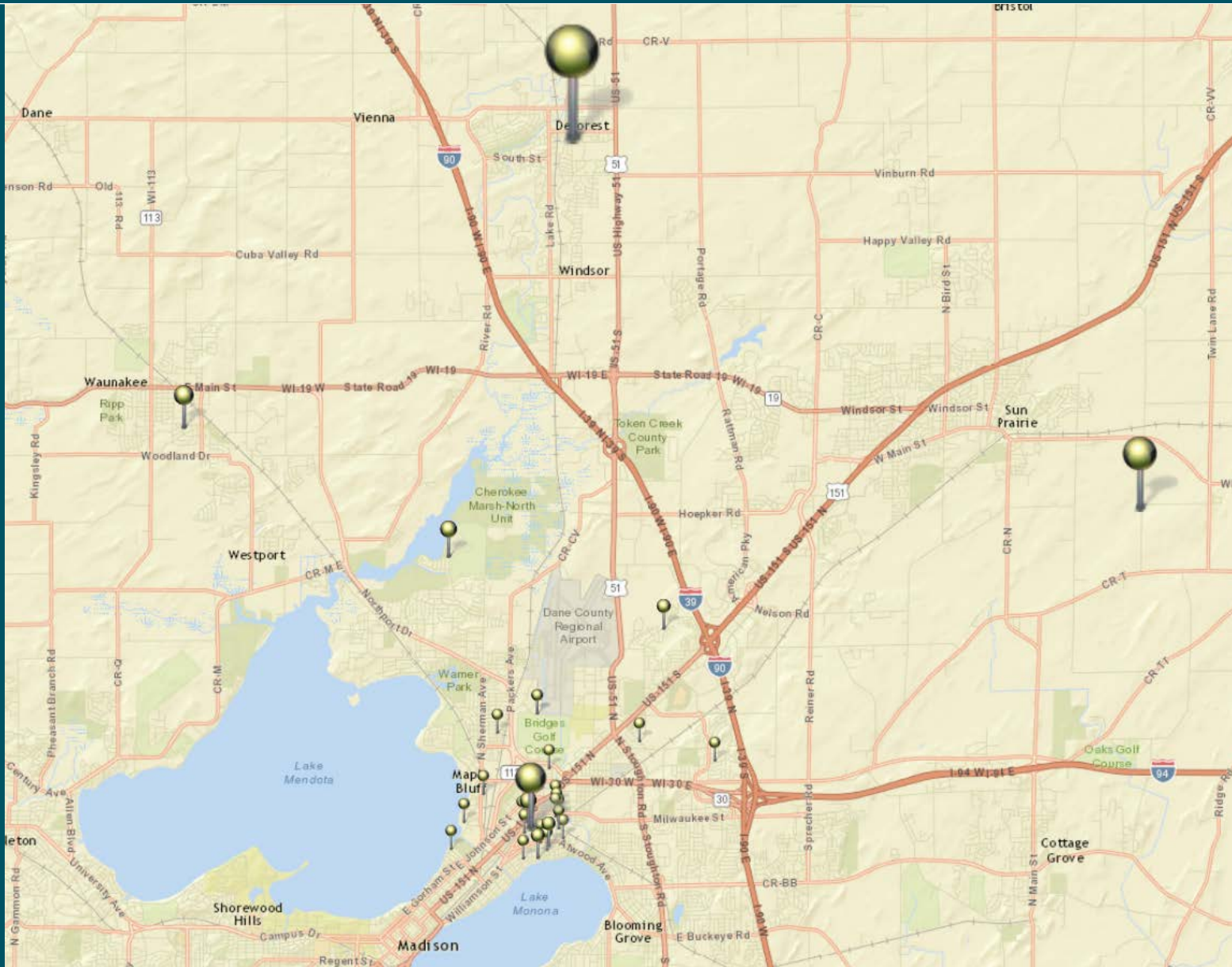
Area	APR 14 - SEP 14		APR 13 - SEP 13	
	Complaints	Households	Complaints	Households
<i>Blooming Grove</i>	0	0	0	0
<i>Burke</i>	0	0	0	0
<i>Deerfield</i>	0	0	0	0
<i>DeForest</i>	74	1	115	1
<i>Fitchburg</i>	0	0	0	0
<i>Madison</i>	45	28	103	45
<i>Marshall</i>	12	1	0	0
<i>Middleton</i>	0	0	0	0
<i>Monona</i>	0	0	0	0
<i>Stoughton</i>	0	0	0	0
<i>Windsor</i>	0	0	0	0
<i>Verona</i>	0	0	0	0
<i>Waunakee</i>	4	1	0	0
<b>Total</b>	<b>135</b>	<b>30</b>	<b>218</b>	<b>46</b>





# COMPLAINT LOCATIONS

APR 14 – SEP 14

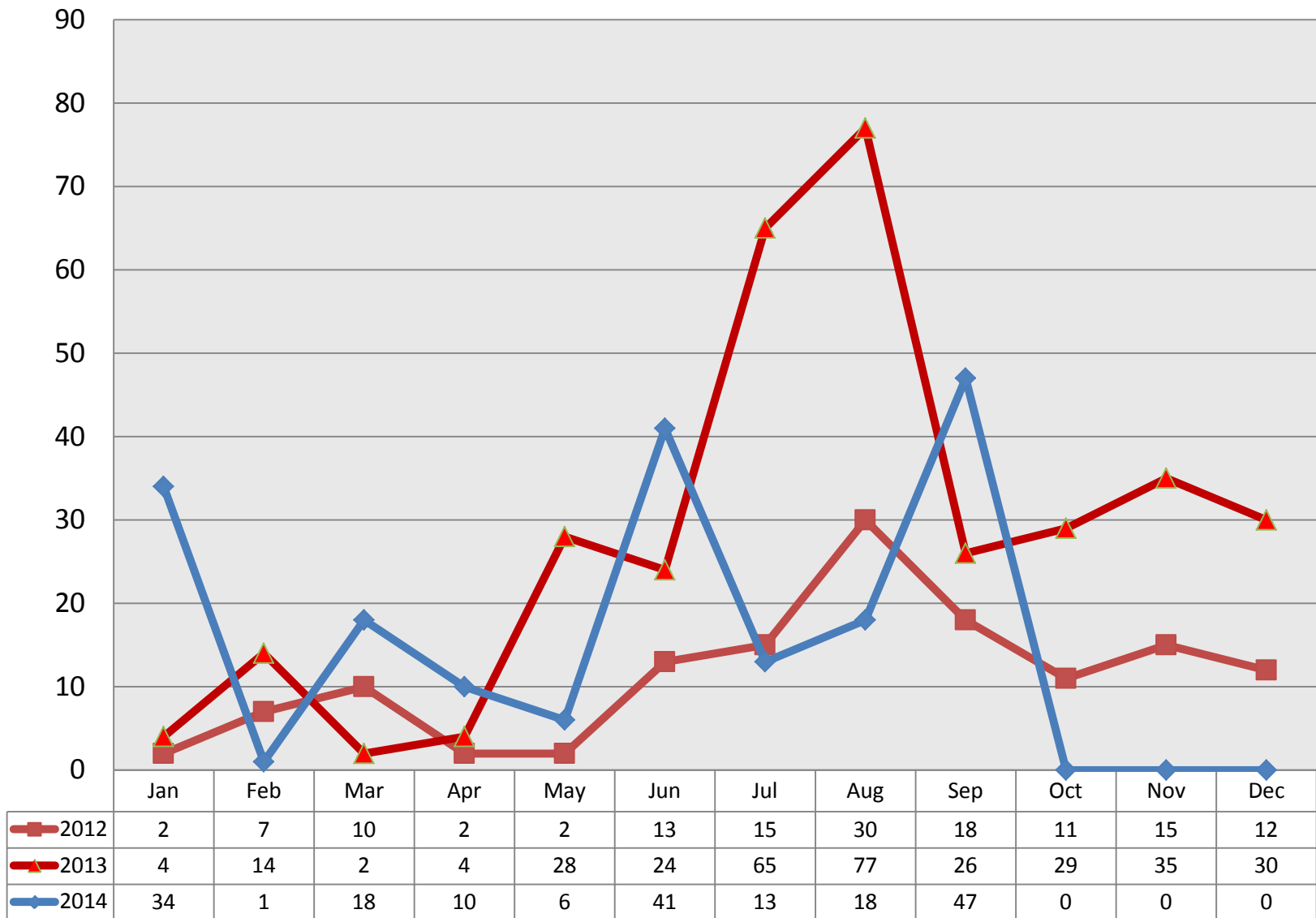


# NOISE COMPLAINT CALLS

OCT 13 – MAR 14

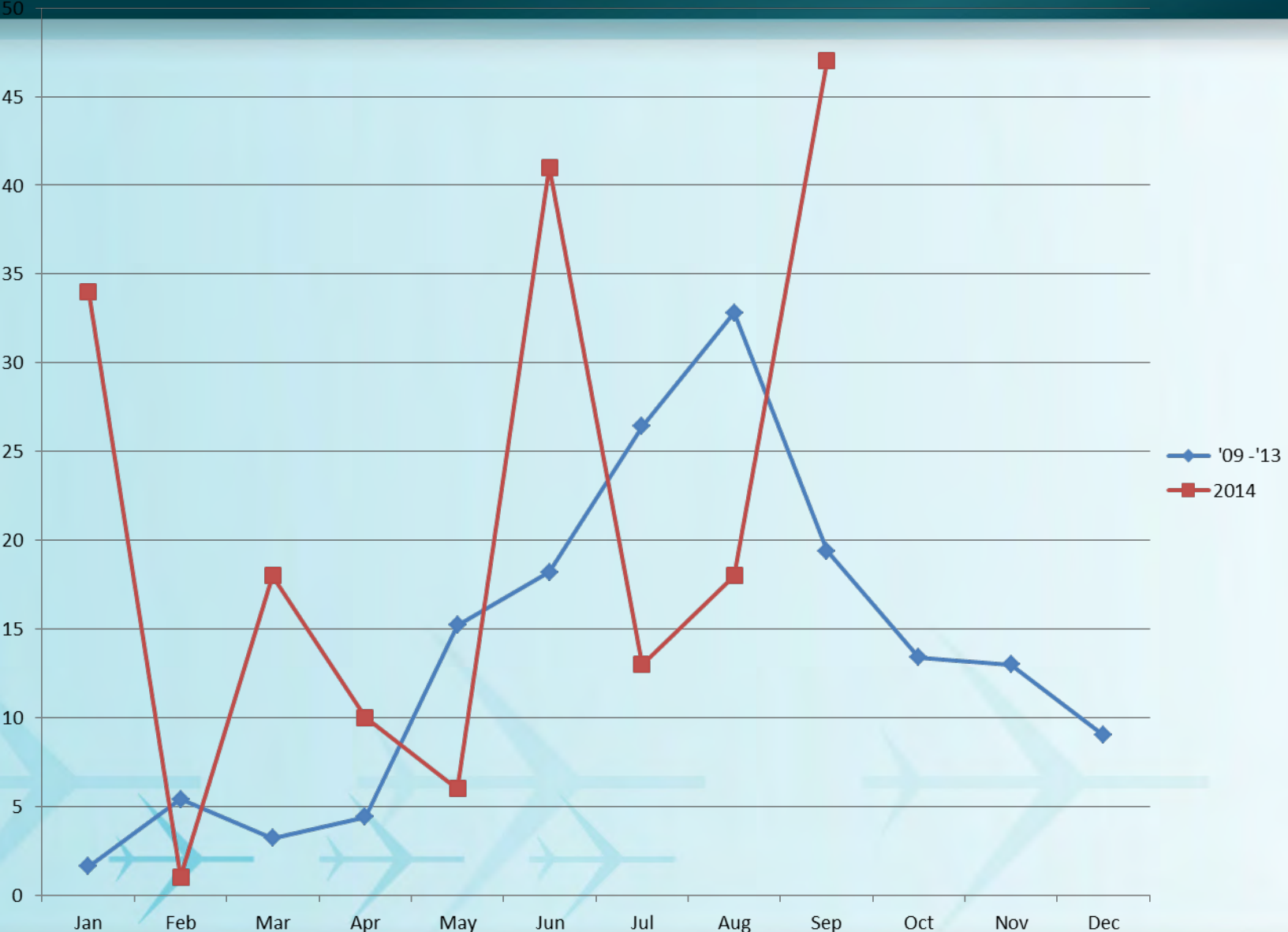
	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
DAY	7	6	31	4	11	33	92
NIGHT	3	0	10	9	8	13	43
TOTAL	10	6	41	13	19	46	135

# 2012 - 2014 Noise Complaint History



10/29/2014

# Noise Complaint History



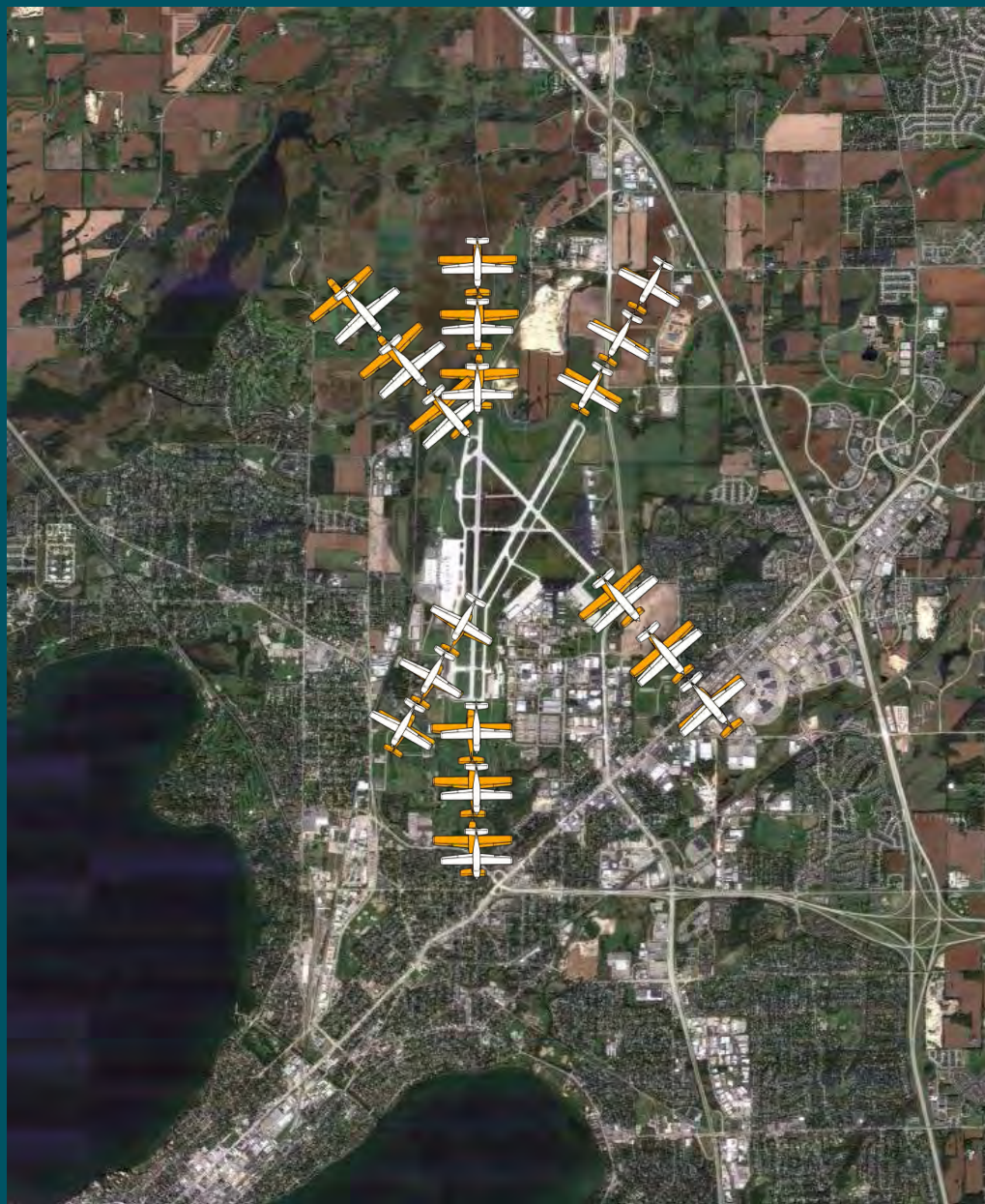
# COMPLAINT HISTORY

OCT 13 – APR 14

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28		30	31	
A P R							M	M	A A	A A A A												M								M		
M A Y												A A										U						A A			G	
J U N			A	M	AA AA AA AA AA AA AA AA	AA AA AA AA AA AA AA AA	G	M							M M								M					M				
J U L							G		A							A		A						G	G G	G				G U	G G G	
A U G					U			A A	U					G G				A			G									A A A A M	M M M M M	
S E P	A	A A A A	A A A A														AA AA AA AA A						MM MM MM MM M	M M M M	AA AA M U	H		AA AA AA A	A			

A = Airline; G = General Aviation; H = Military Helicopter; M = Military Fixed Wing; U = Unknown

# WIND CONDITIONS SUMMARY



• WINDS FROM  
THE KNOTS  
THE SOUTH

• VISIBILITY  
GREATER THAN 3  
MILES

• RUNWAY  
CONDITION IS DRY

• PILOT COMPLIES  
WITH VOLUNTARY  
CONTRA FLOW  
OPERATION

# Wisconsin Wind Data\*

\*National Weather Service

Month	Prevailing Wind	Greater than 5 kts
Jan	WNW – 11.5	94.0%
Feb	WNW – 12	93.4%
Mar	NW – 13	93.9%
Apr	S – 11.4	93.6%
May	S – 10.4	93.0%
Jun	S – 9.7	91.6%
Jul	S – 9.2	90.1%
Aug	S – 9.1	88.9%
Sep	S – 9.8	90.1%
Oct	S – 10.4	92.2%
Nov	S – 10.7	94.3%
Dec	WNW – 12.4	94.0%
Annual	S – 12.4	92.4%

# NOISE ABATEMENT COMPLIANCE AUDIT

WEATHER / RUNWAY DATA	
WINDS AT 5 KNOTS OR HIGHER <sup>1</sup>	79.95%
VISIBILITY AT 5 STATUTE MILES OR LESS	4.19%
RUNWAYS CLOSED <sup>2</sup>	18/36 = 1268:26 3/21 = 135:28 14/32 = 47:29
<sup>1</sup> – Based on METAR weather observations at the time of recorded aircraft operations. <sup>2</sup> – Runway closures primarily due to runway maintenance	



# NOISE ABATEMENT COMPLIANCE AUDIT 2013

## RUNWAY USE

Aircraft observed departing to the North	41.20%
Aircraft observed arriving from the North	55.14%
Aircraft observed departing to the South	58.80%
Aircraft observed arriving from the South	44.86%

## PASSUR FLIGHT TRACKING

**17,660** operations recorded by Passur flight monitoring system

**2,244** Passur observations of departures to the north and arrivals from the north when conditions allow for implementation of Noise Abatement Procedures

# NOISE ABATEMENT COMPLIANCE AUDIT 2013

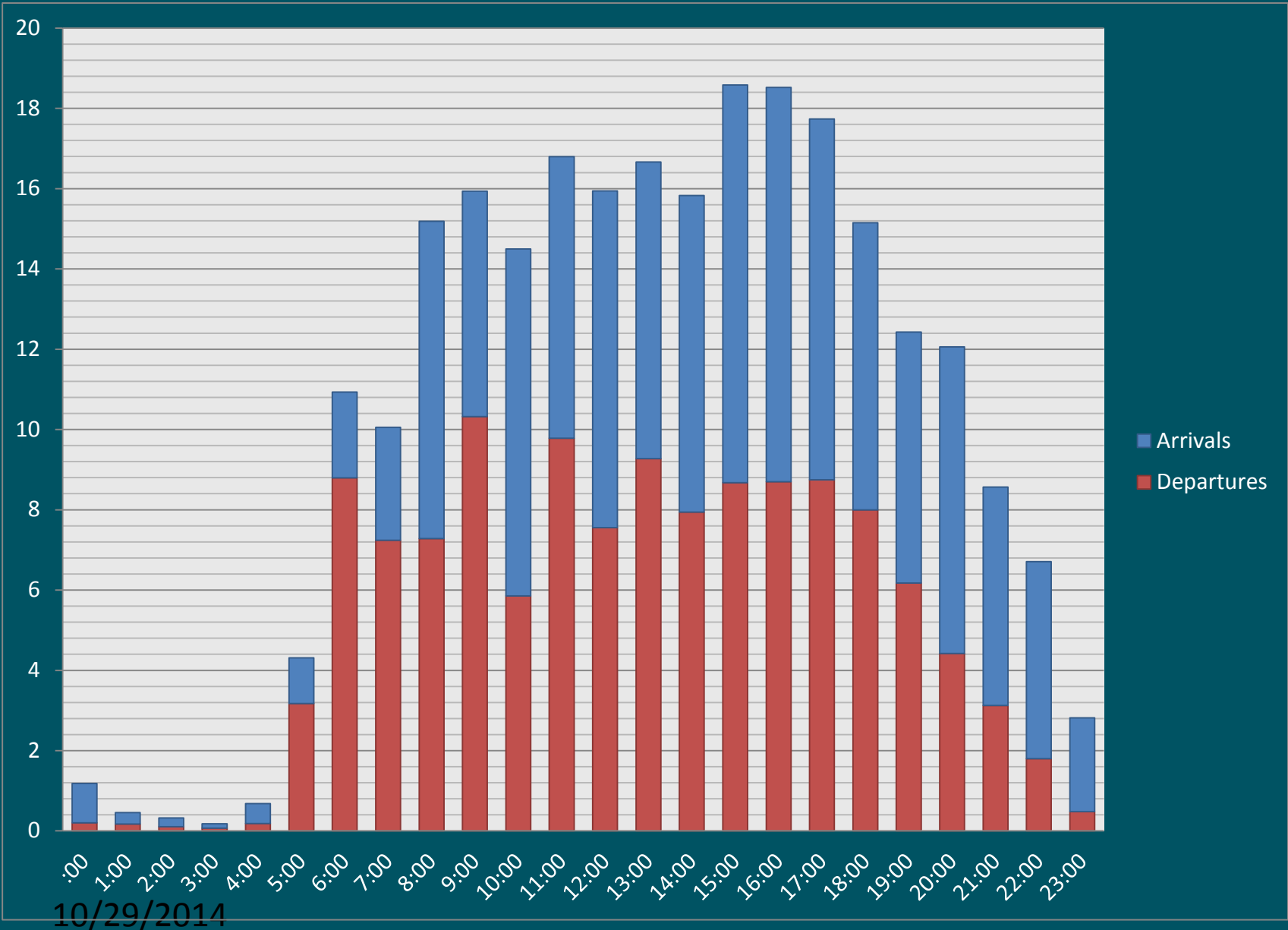
**\*\* With 100% compliance of Noise Abatement Procedures, there are times aircraft are required depart to the south and arrive from the south. \*\***

RUNWAY USE FACTORS			
	Wind	Visibility	Ceiling
South Departure	67.96%	4.68%	0.00%
South Arrival	64.27%	3.63%	15.28%

**\*\* Safety, traffic, airline requirements, and weather are all components which are factored into a pilot's decision when landing and taking off. \*\***

# AVERAGE HOURLY OPERATIONS

OCT 13 – APR 14



# CONTACT INFORMATION

24 Hour Aircraft Noise Line: **246-5841**

Online Form: <http://www.msnaairport.com/community/noise.aspx>

Madison Automated Weather: **249-0615**

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Questions?

*It's all about the journey.*