

DANE COUNTY  
REGIONAL AIRPORT  
MADISON



# Noise Abatement Subcommittee

## Review of Noise Complaint Activity

*October 30, 2012*

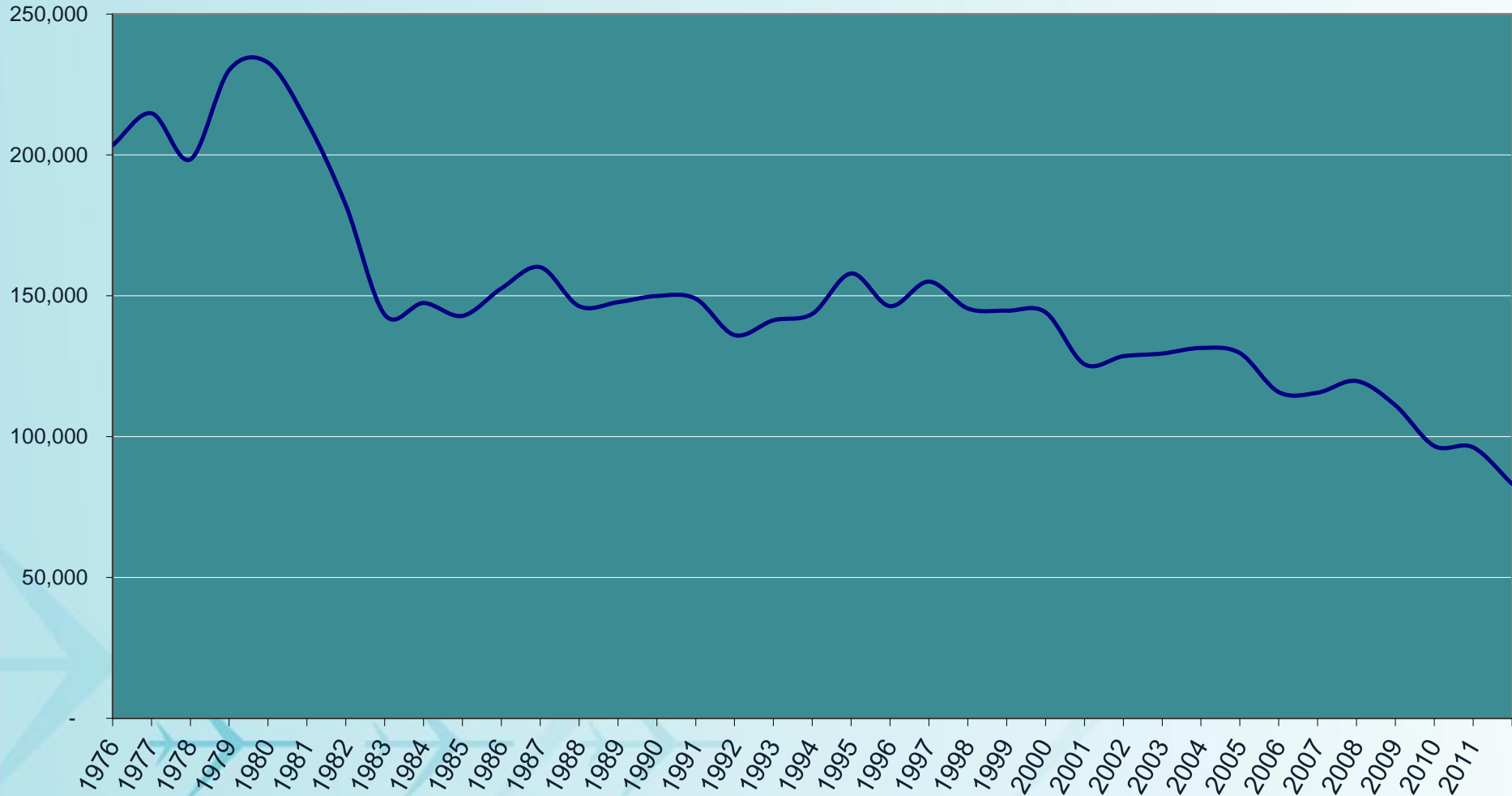
*It's all about the journey.*

# AIRCRAFT MOVEMENTS

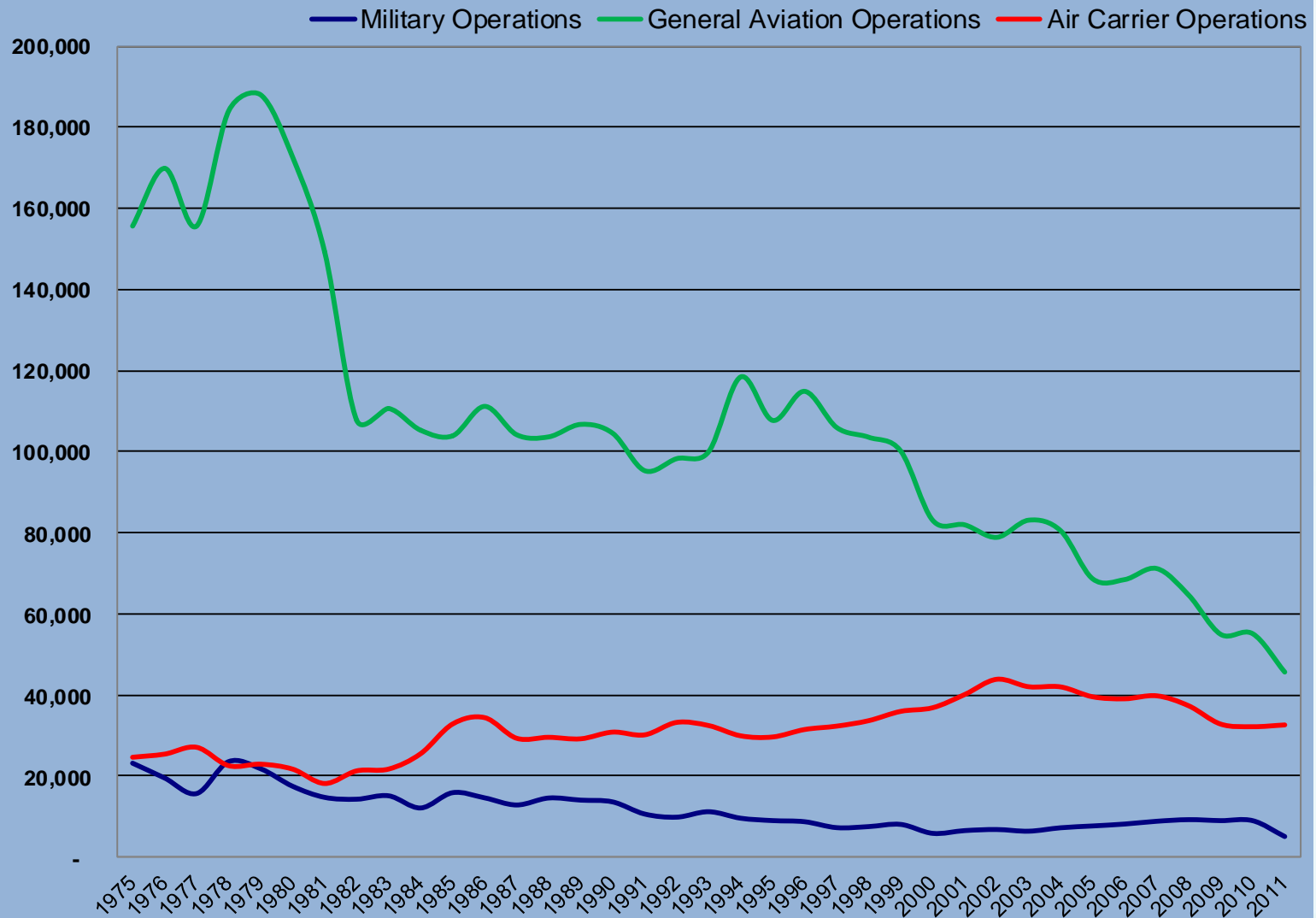
<b>Aircraft Movements</b>	<b>APR 12– SEP 12</b>	<b>APR 11– SEP 11</b>	<b>% Change</b>
<b><i>Air Carrier</i></b>	<b>16,079</b>	<b>16,763</b>	<b>-4%</b>
<b><i>Military</i></b>	<b>3,290</b>	<b>2,822</b>	<b>17%</b>
<b><i>General Aviation</i></b>	<b>25,891</b>	<b>24,292</b>	<b>6%</b>
<b><i>Total Movements</i></b>	<b>45,260</b>	<b>43,877</b>	<b>3%</b>

# Aircraft Operations

Historical Total Aircraft Operations, DCRA

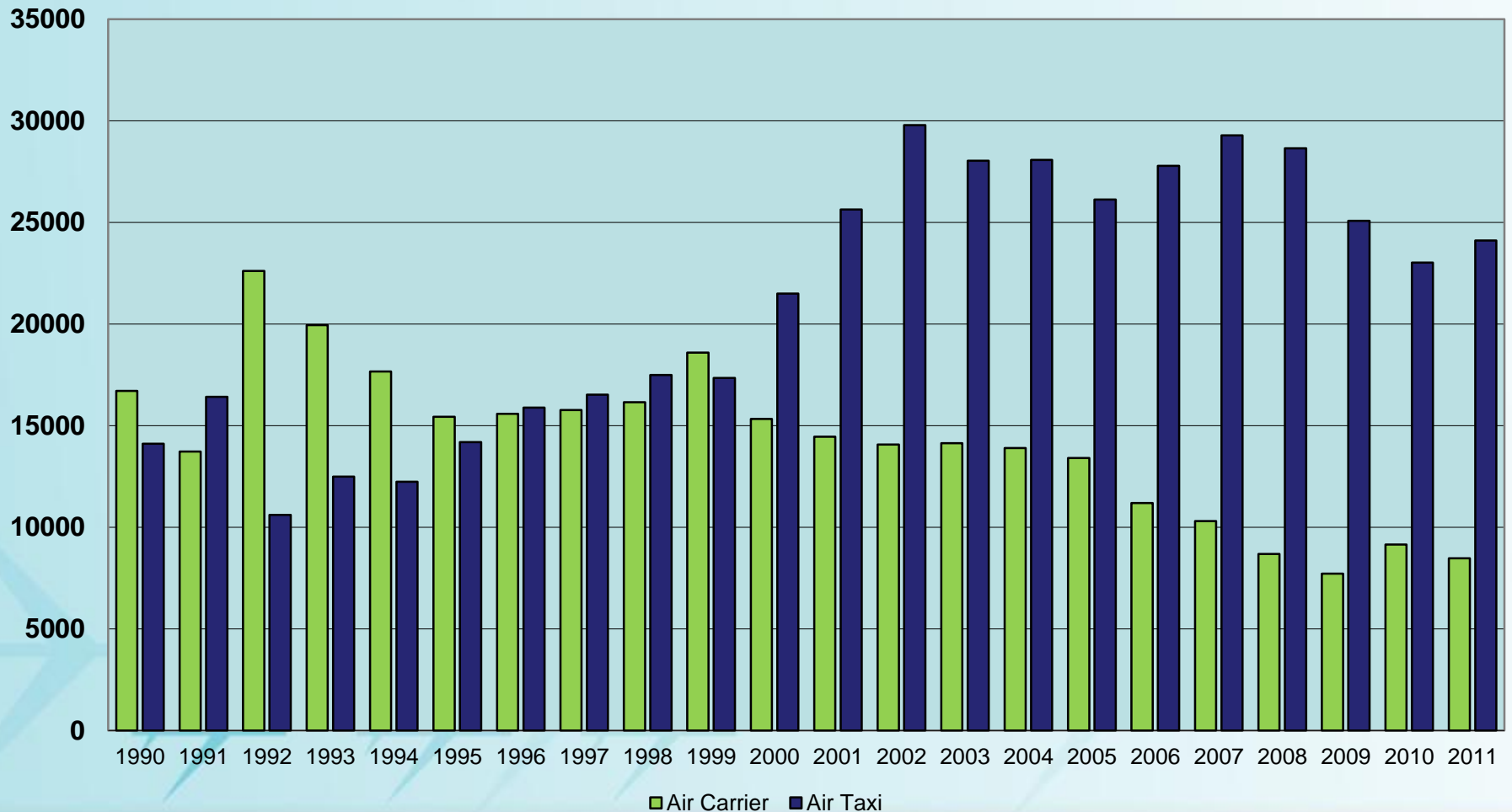


# HISTORICAL AIRCRAFT OPERATIONS BY TYPE



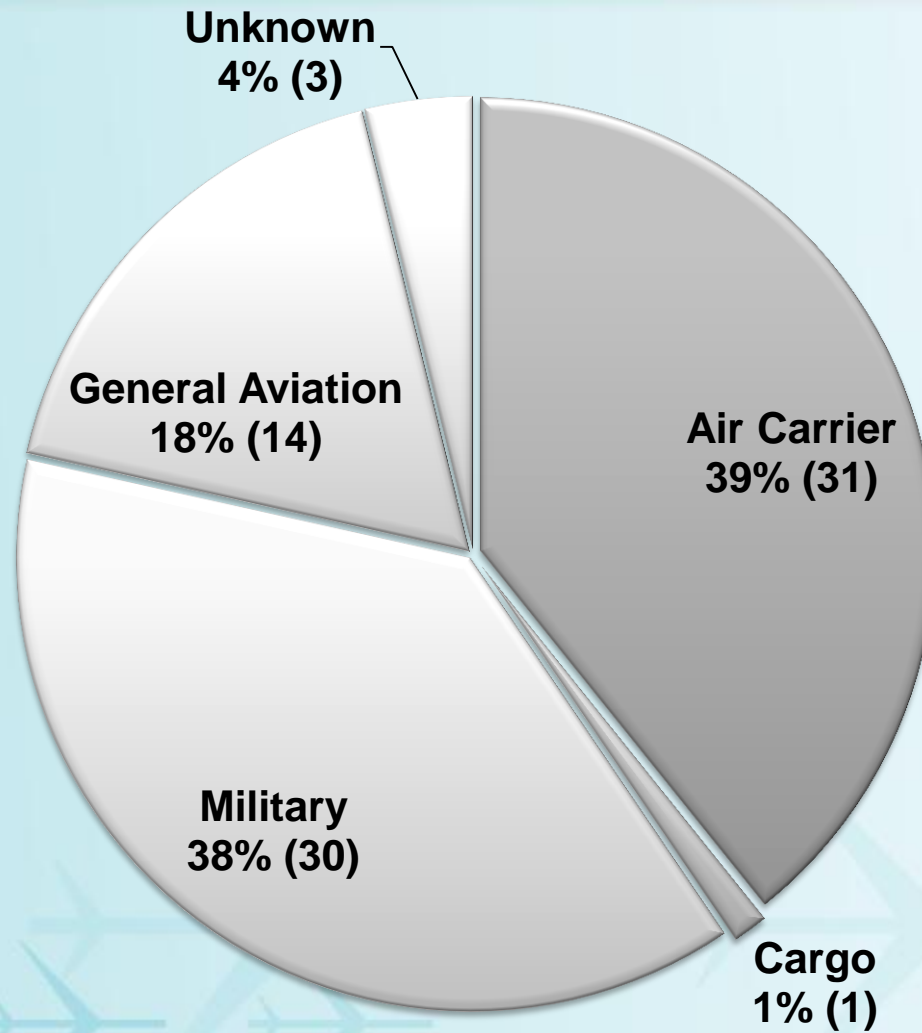
# Air Carrier (A-320, MD-80) vs Air Taxi (CRJ, ERJ)

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

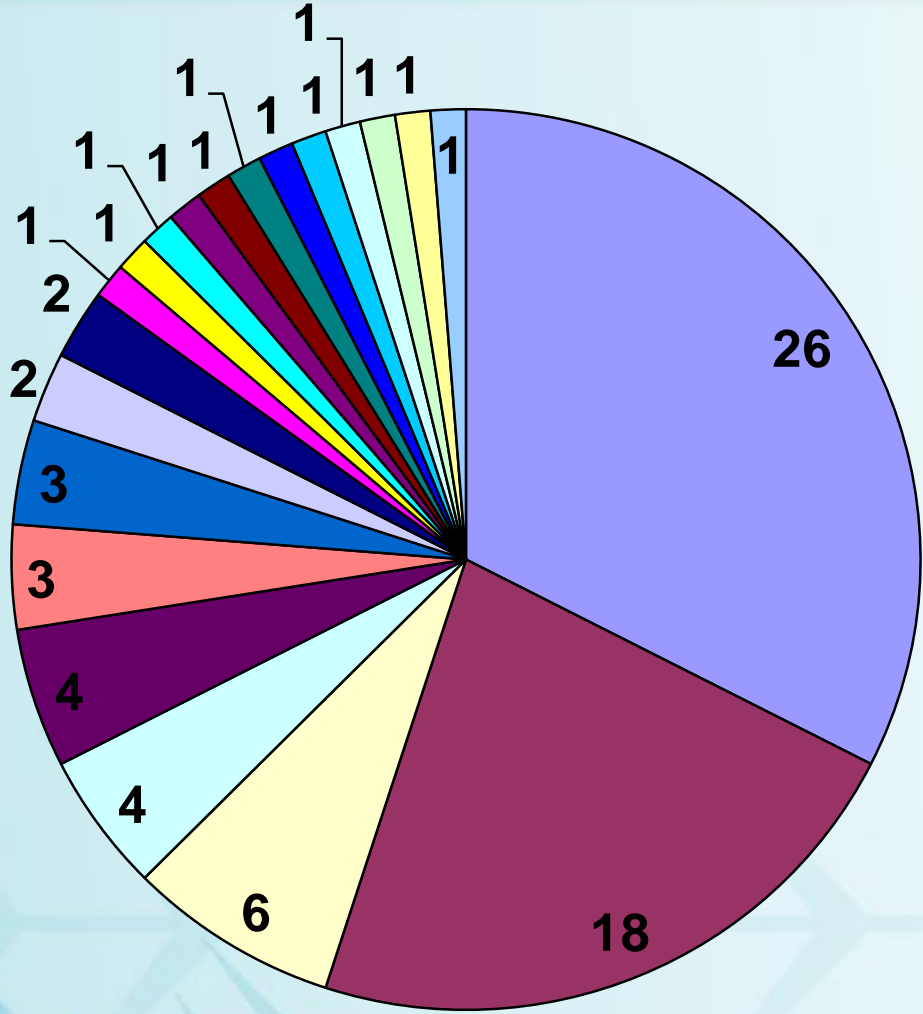


# COMPLAINTS BY AIRCRAFT TYPE

APR 12- SEP 12



# Complaints per Household



# COMPLAINTS BY AREA

Area	APR 12 – SEP 12		APR 11 – SEP 11	
	Complaints	Callers	Complaints	Callers
<i>Blooming Grove</i>	0	0	0	0
<i>Burke</i>	0	0	0	0
<i>Cottage Grove</i>	0	0	0	0
<i>DeForest</i>	7	2	2	1
<i>Fitchburg</i>	0	0	0	0
<i>Marshall</i>	3	1	0	0
<i>Madison</i>	41	17	80	31
<i>McFarland</i>	0	0	0	0
<i>Middleton</i>	0	0	0	0
<i>Monona</i>	0	0	0	0
<i>Sun Prairie</i>	0	0	0	0
<i>Windsor</i>	29	3	0	0
<i>Verona</i>	0	0	0	0
<i>Waunakee</i>	0	0	0	0
<b>Total</b>	<b>80</b>	<b>23</b>	<b>82</b>	<b>32</b>





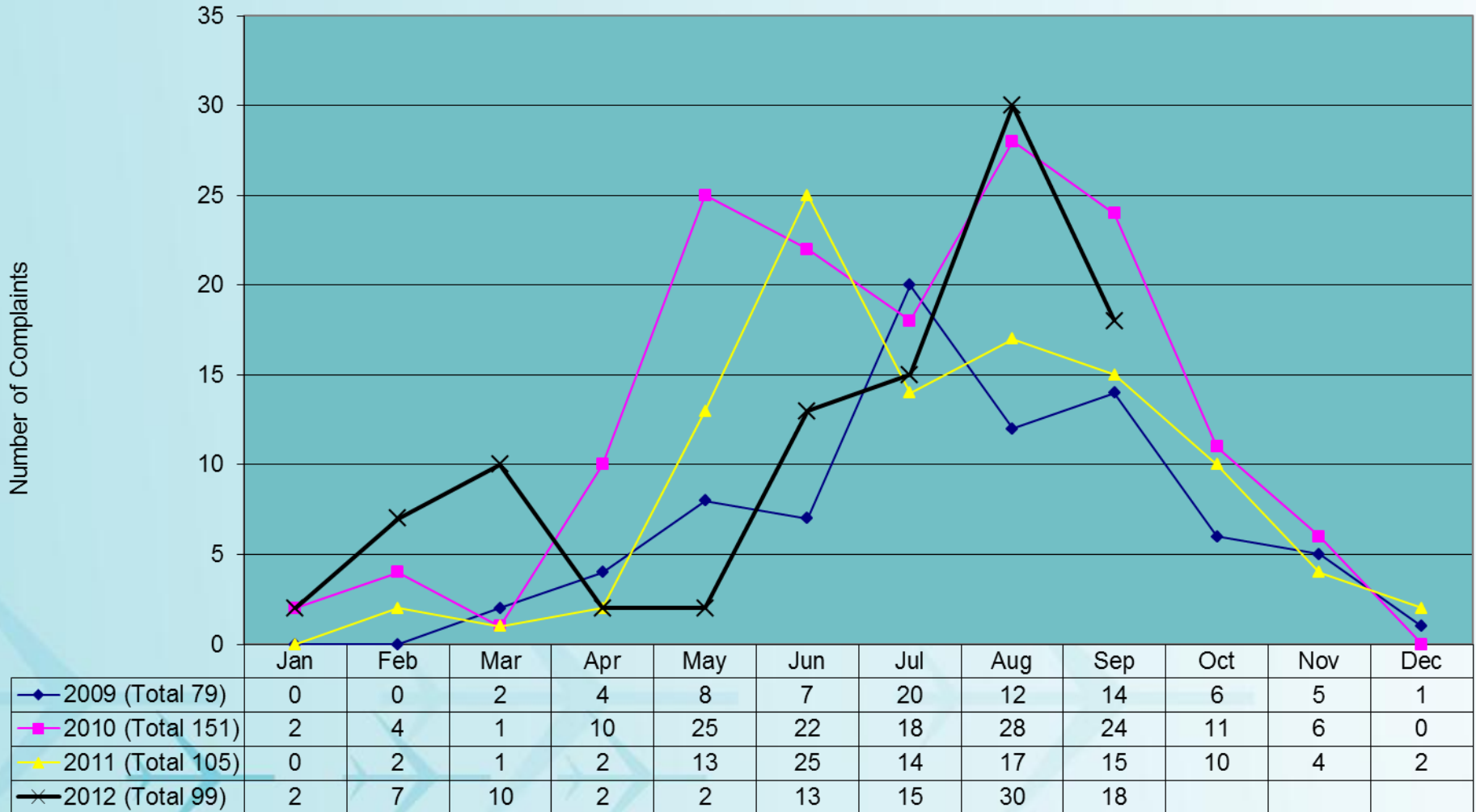
# NOISE COMPLAINT CALLS

APR 12 – SEP 12

	Apr	May	Jun	Jul	Aug	Sep	TOTAL
DAY	2	2	9	11	28	18	70
NIGHT			4	4	2		10
TOTAL	2	2	13	15	30	18	80

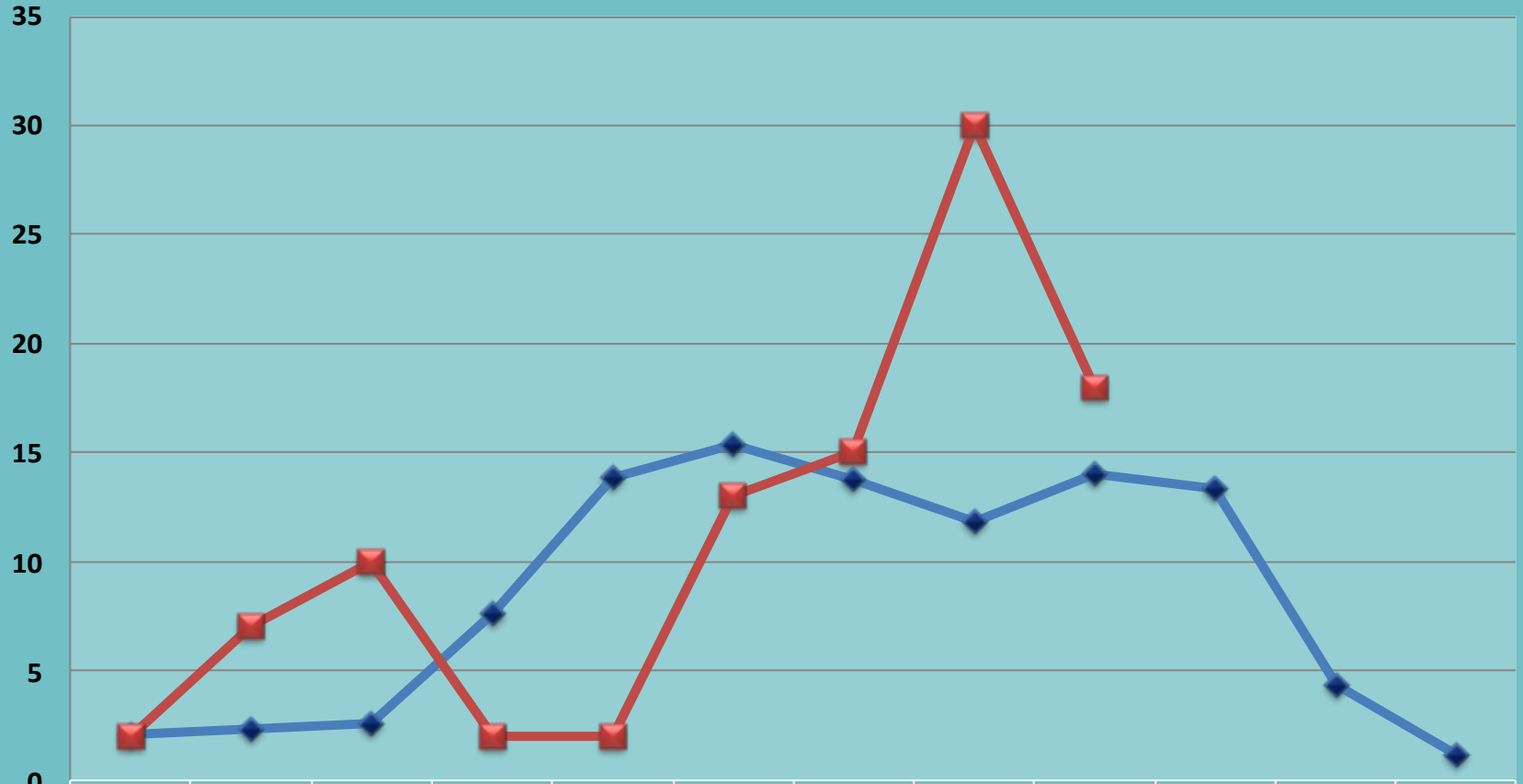
# HISTORICAL COMPLAINTS BY MONTH

'09-'12 Monthly Noise Complaints



# Noise Complaint History

## Average Monthly Noise Complaints '04-'11 Average vs 2012 Complaints



◆ '04 -'11	2.12	2.37	2.62	7.62	13.87	15.37	13.75	11.87	14	13.37	4.37	1.12
■ 2012	2	7	10	2	2	13	15	30	18			

# COMPLAINT HISTORY

APR 12 – SEP 12

	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	29	30	31	
APR		A							A																							
MAY																		C	A													
JUN	M		MM										MAA AAAA AAAA AAAA AAAA	A	M																	
JUL			A		A												U	A			AA				M				A	G	MM GG MU	
AUG	GM GM MM MM							MMM MM		M	G	MA MA GA GA GA			U	M	GG			MG GA	A					A			A			
SEP	M	MG	AGA	AA											A	G	A	G	MMM MMM MMM									A				

A = Airline (31)

C = Cargo (1)

U = Unknown (3)

M = Military Fixed Wing (30)

G = General Aviation (14)

# 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%

WEATHER / RUNWAY DATA	
WINDS AT 5 KNOTS OR HIGHER <sup>1</sup>	76.46%
VISIBILITY AT 5 STATUTE MILES OR LESS	2.44%
RUNWAYS CLOSED <sup>2</sup>	18/36 = 104:47 3/21 = 82:08 14/32 = 82:49

<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.

## RUNWAY USE

Aircraft observed departing to the North	40.16%
Aircraft observed arriving from the North	55.83%
Aircraft observed departing to the South	59.87%
Aircraft observed arriving from the South	44.17%

## PASSUR FLIGHT TRACKING

**16,310** operations recorded by Passur flight monitoring system

**2,399** Passur observations of departures to the north and arrivals from the north when conditions allow for implementation of Noise Abatement Procedures



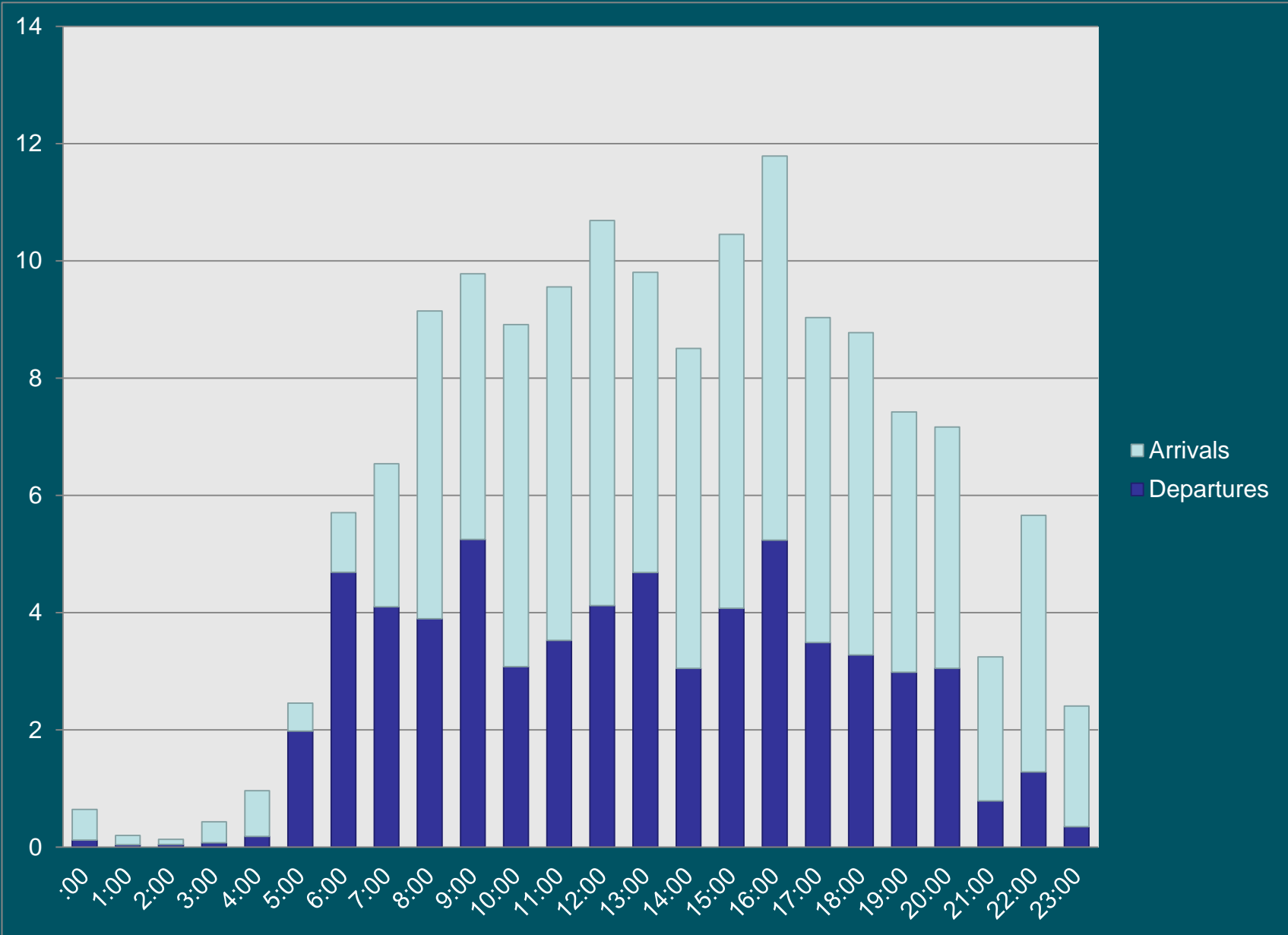
**\*\* With 100% compliance of Noise Abatement Procedures, there are times aircraft are required depart to the south and arrive from the south. \*\***

RUNWAY USE FACTORS			
	Wind	Visibility	Ceiling
South Departure	67.47%	2.10%	16.97%
South Arrival	58.54%	2.34%	9.79%

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

# PASSUR AVERAGE HOURLY OPERATIONS

APR 12 – SEP 12



# CONTACT INFORMATION

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

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

Madison Automated Weather: **249-0615**



Questions?

