

DANE COUNTY
REGIONAL AIRPORT
MADISON



Noise Abatement Subcommittee

Review of Noise Complaint Activity

October 30, 2012

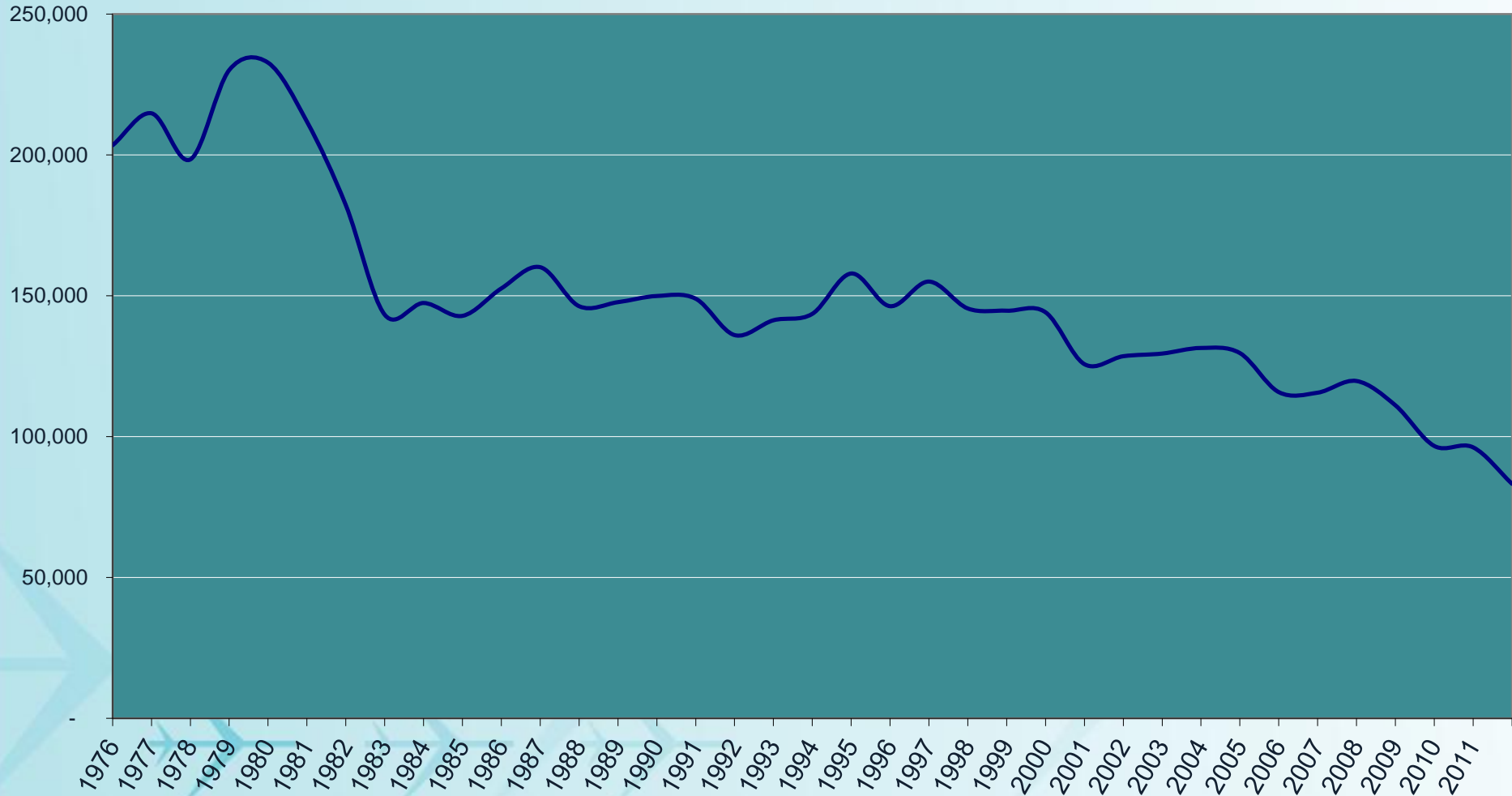
It's all about the journey.

AIRCRAFT MOVEMENTS

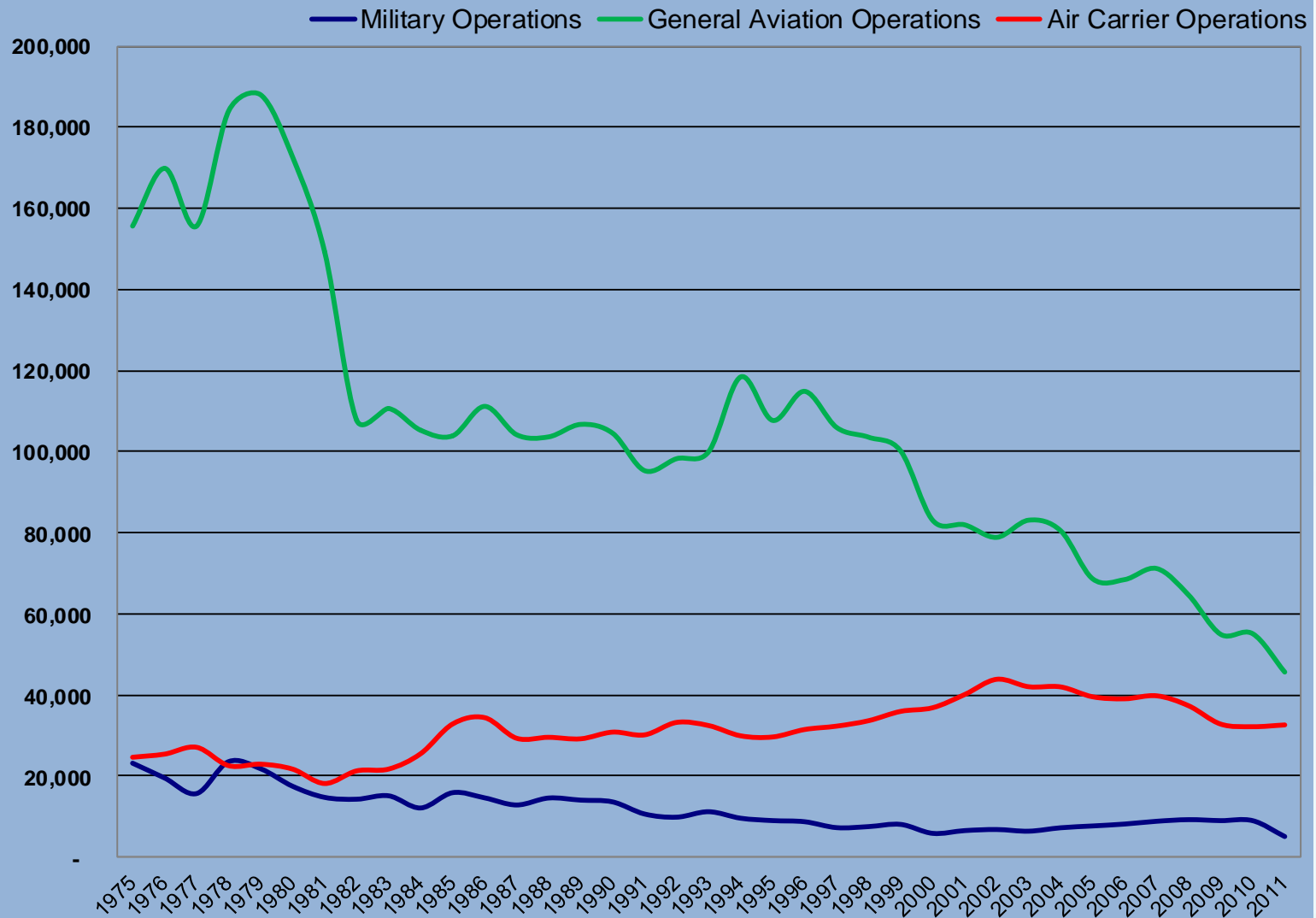
Aircraft Movements	APR 12– SEP 12	APR 11– SEP 11	% Change
<i>Air Carrier</i>	16,079	16,763	-4%
<i>Military</i>	3,290	2,822	17%
<i>General Aviation</i>	25,891	24,292	6%
<i>Total Movements</i>	45,260	43,877	3%

Aircraft Operations

Historical Total Aircraft Operations, DCRA

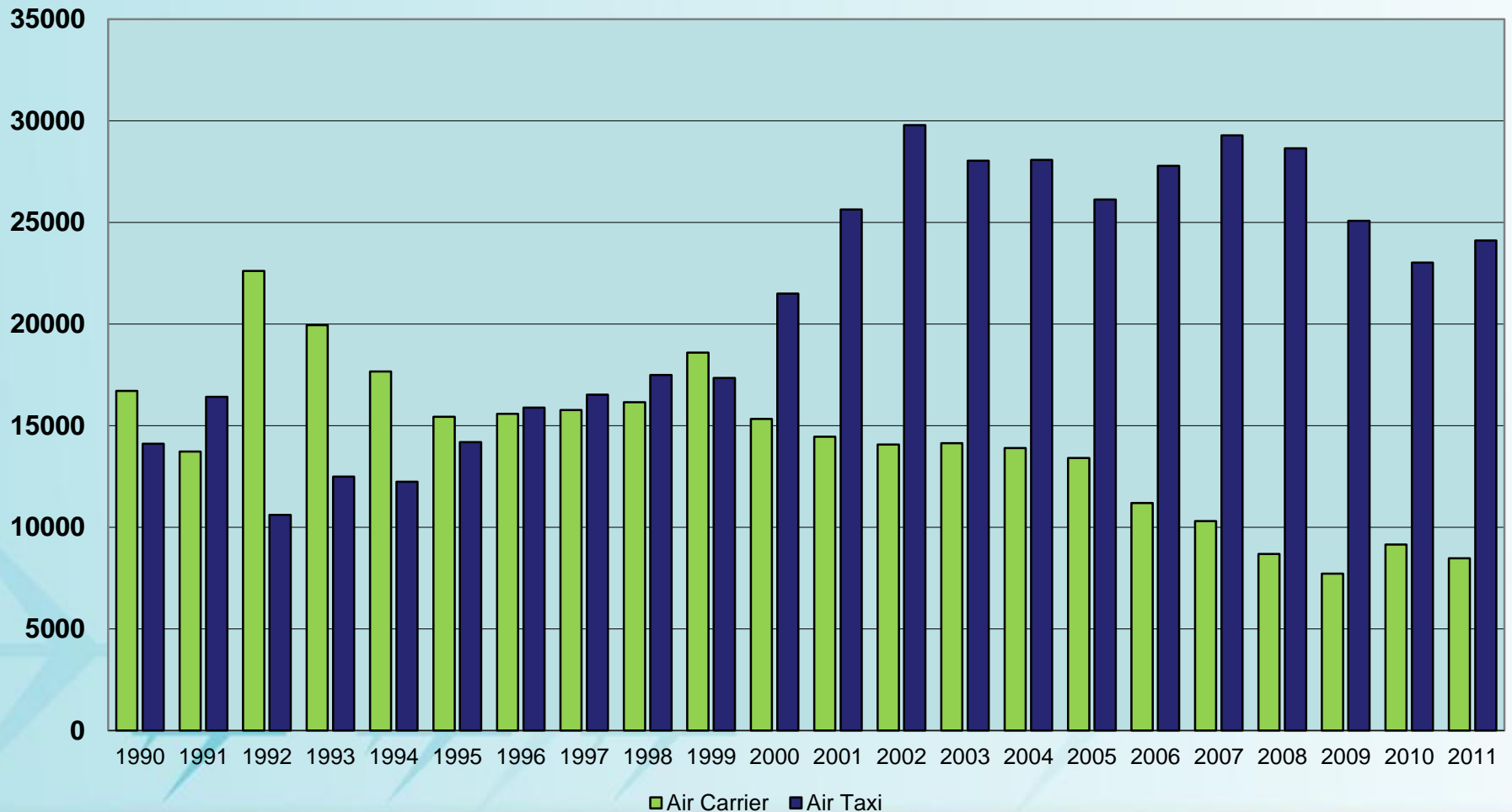


HISTORICAL AIRCRAFT OPERATIONS BY TYPE



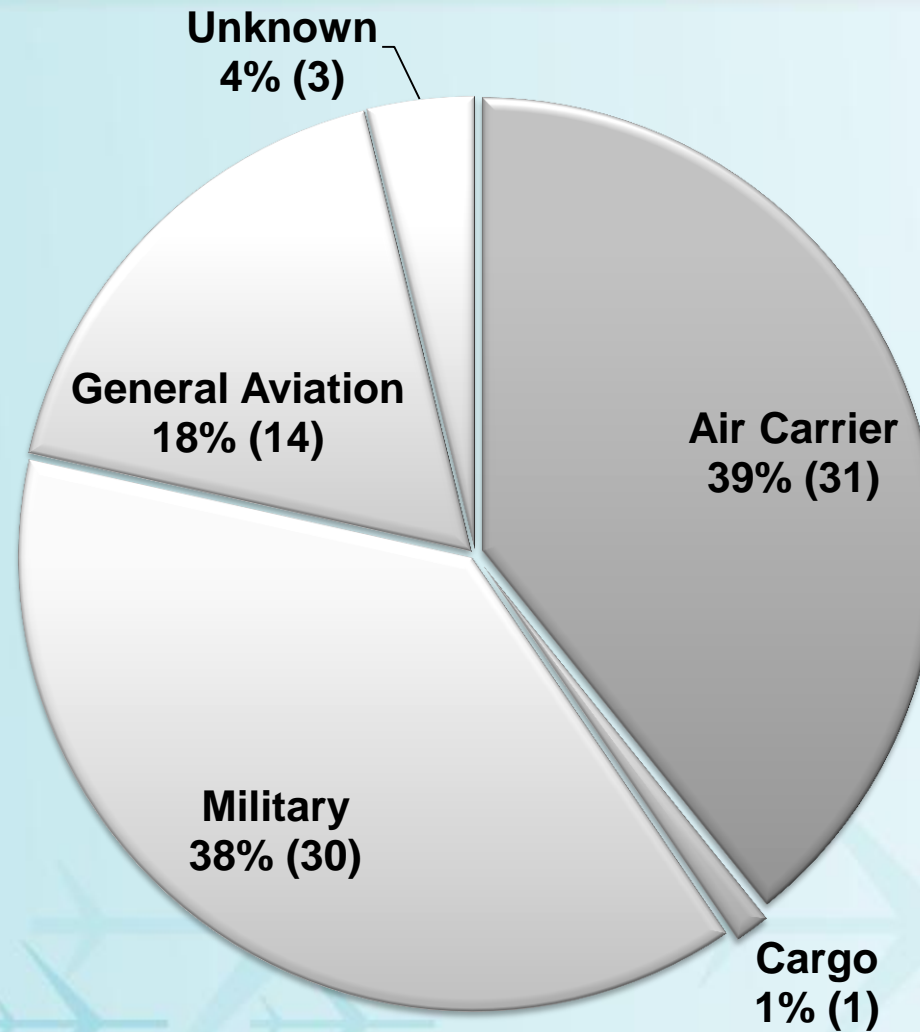
Air Carrier (A-320, MD-80) vs Air Taxi (CRJ, ERJ)

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

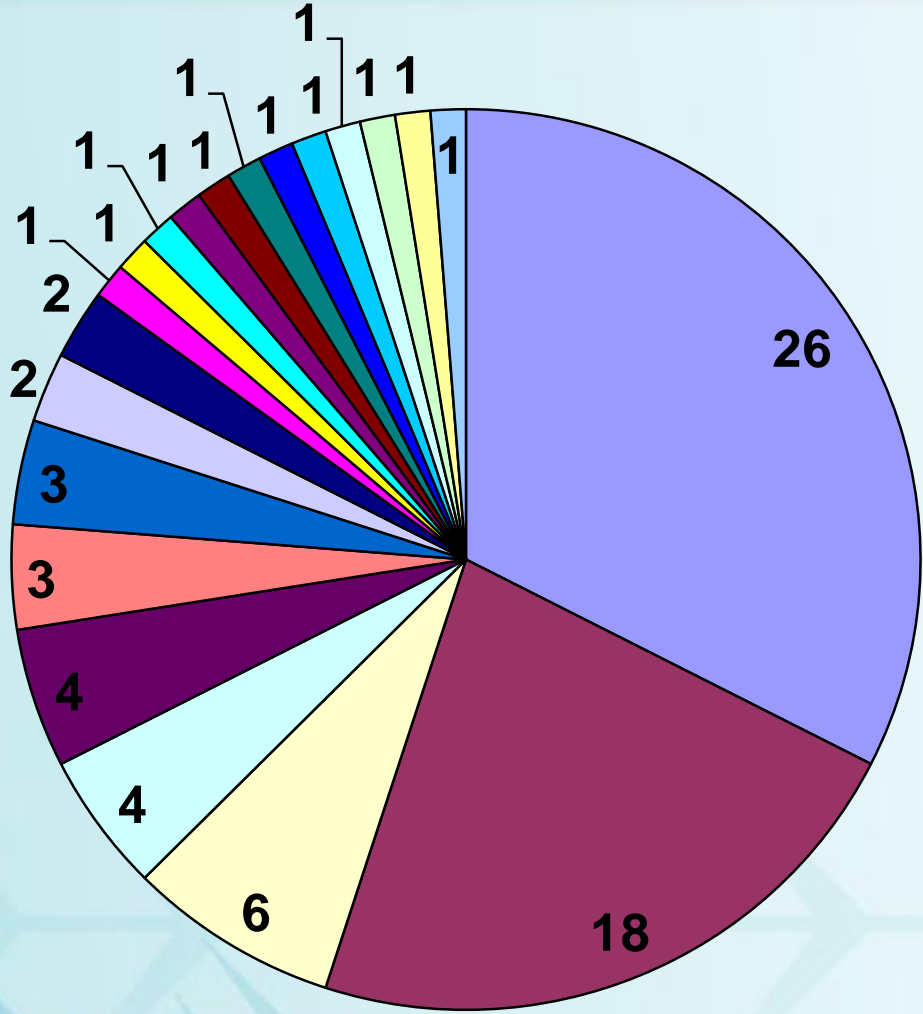


COMPLAINTS BY AIRCRAFT TYPE

APR 12- SEP 12



Complaints per Household

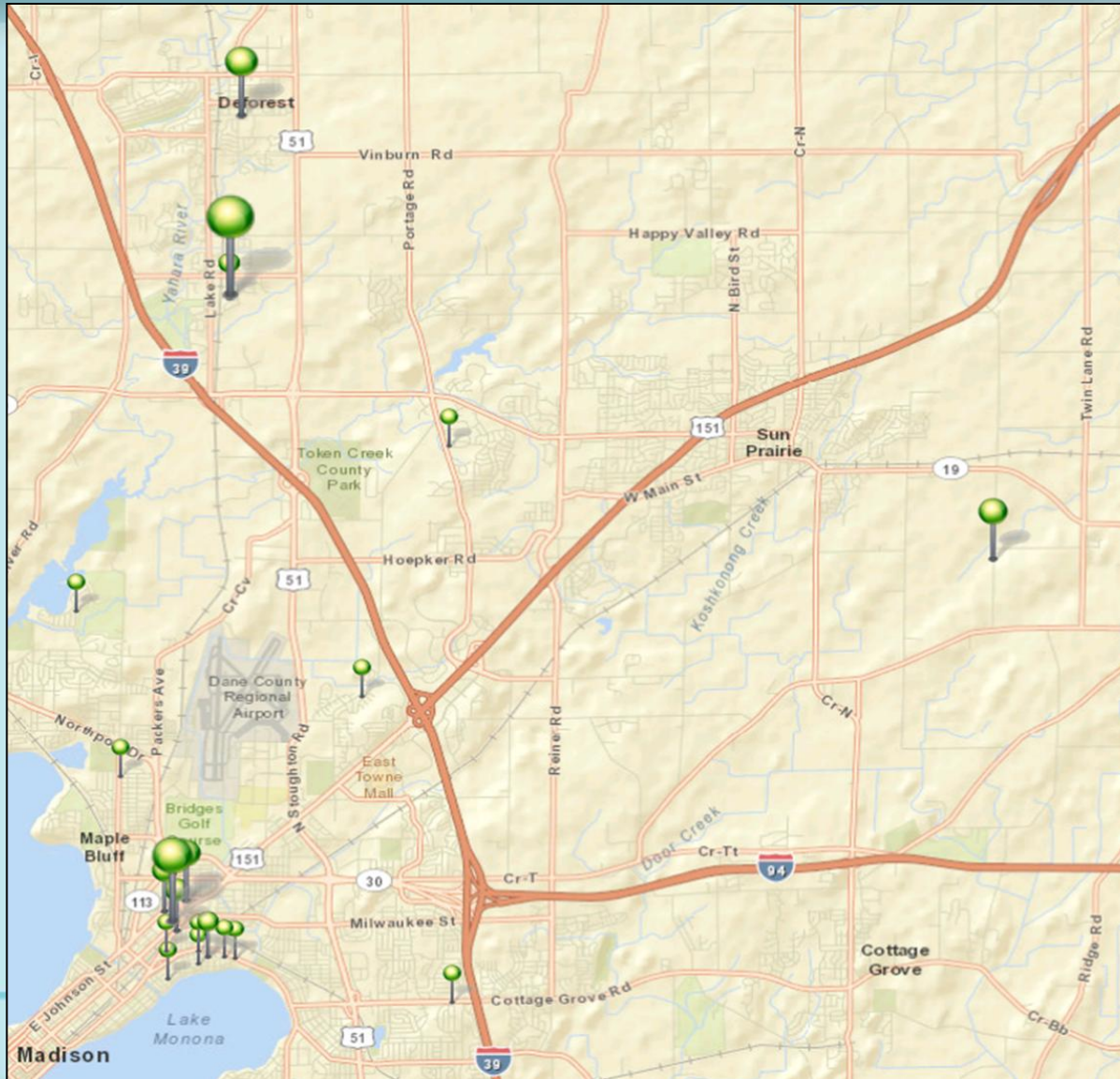


COMPLAINTS BY AREA

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
Total	80	23	82	32

COMPLAINT LOCATIONS

APR 12 – SEP 12



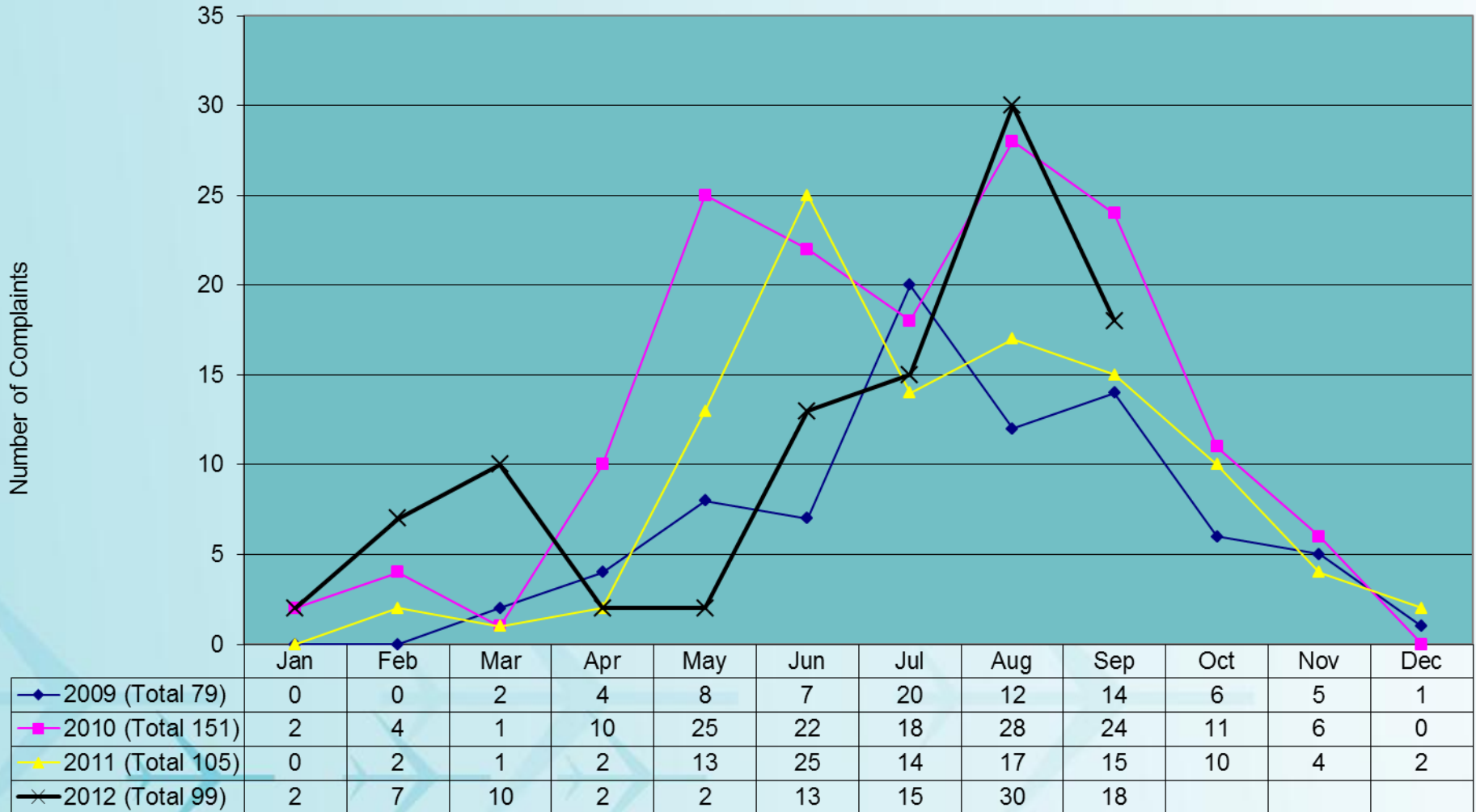
NOISE COMPLAINT CALLS

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

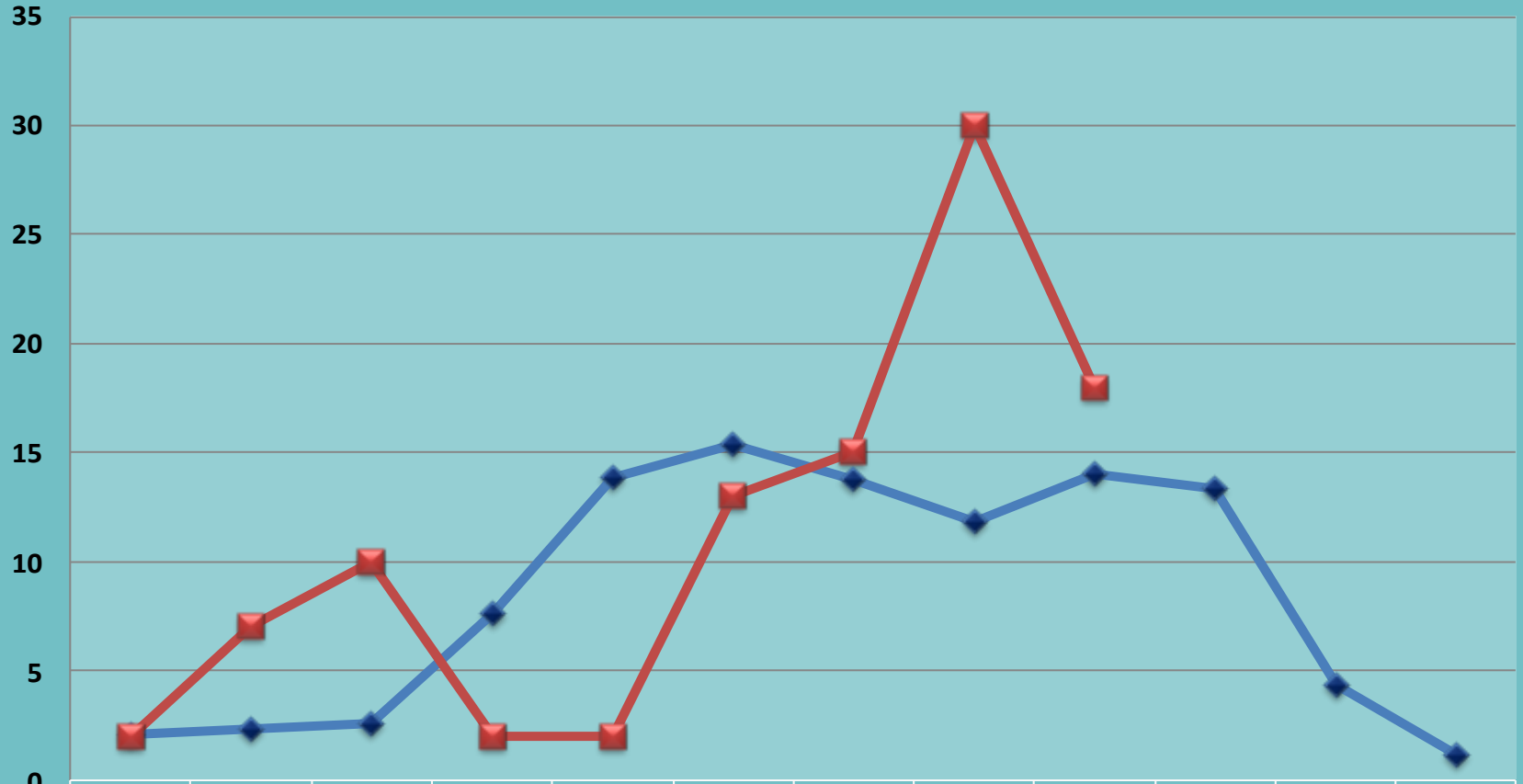
HISTORICAL COMPLAINTS BY MONTH

'09-'12 Monthly Noise Complaints



Noise Complaint History

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



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
'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 MAA MAA MAA MAA MAA	A	M																		
JUL			A		A												U	A			AA				M				A	G	MM GG MU		
AUG	GM GM MM MM							MMM MM		M	G	MAA GAG GAG			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 ¹	76.46%
VISIBILITY AT 5 STATUTE MILES OR LESS	2.44%
RUNWAYS CLOSED ²	18/36 = 104:47 3/21 = 82:08 14/32 = 82:49

¹ – Based on METAR weather observations at the time of recorded aircraft operations.

² – 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

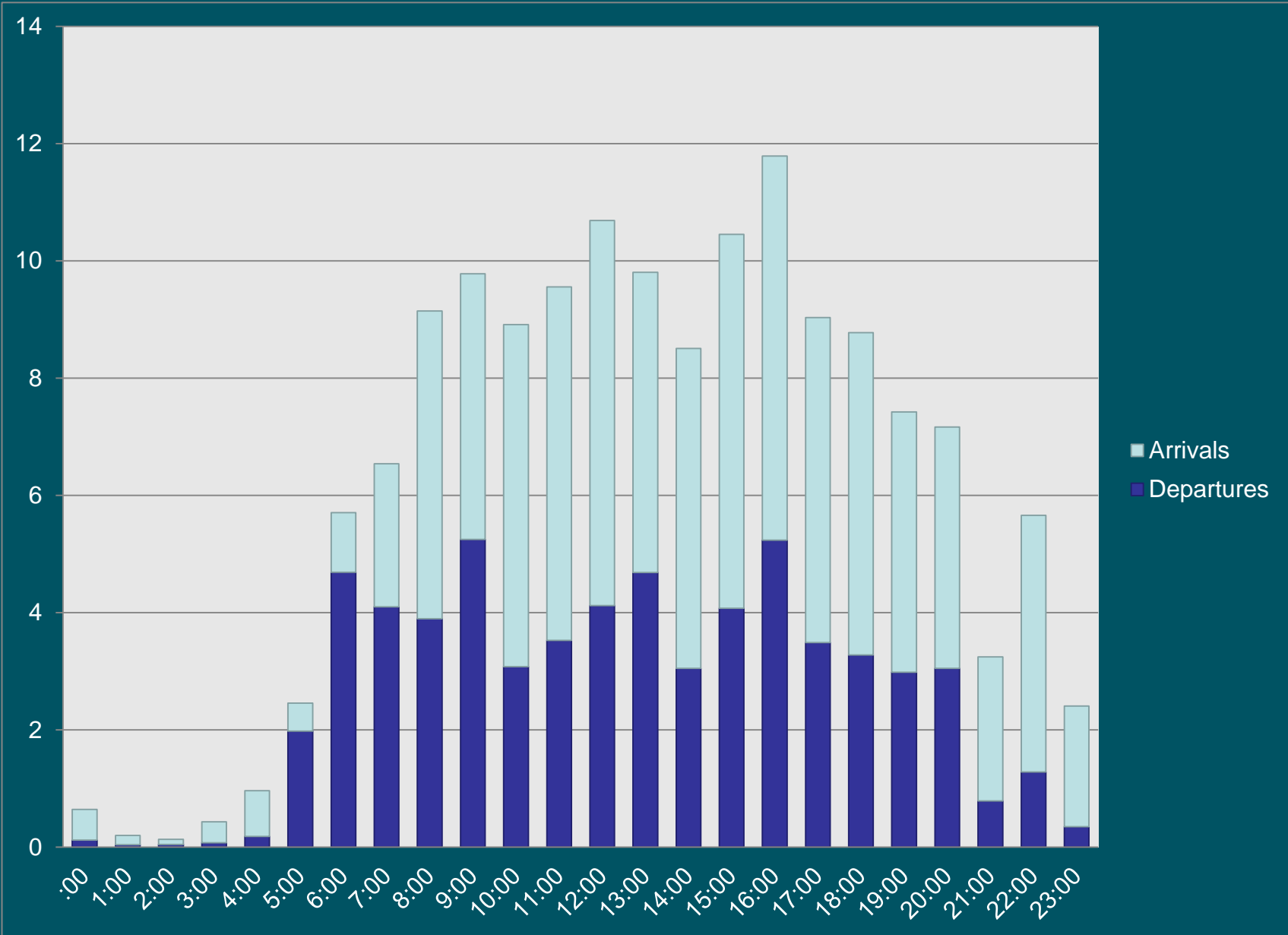
**** With 100% compliance of Noise Abatement Procedures, there are times aircraft are required depart to the south and arrive from the south. ****

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?

