

Noise Abatement Subcommittee Review of Noise Complaint Activity

October 24, 2016

Madison, Wisconsin



AIRCRAFT MOVEMENTS

APR 16 – SEP 16

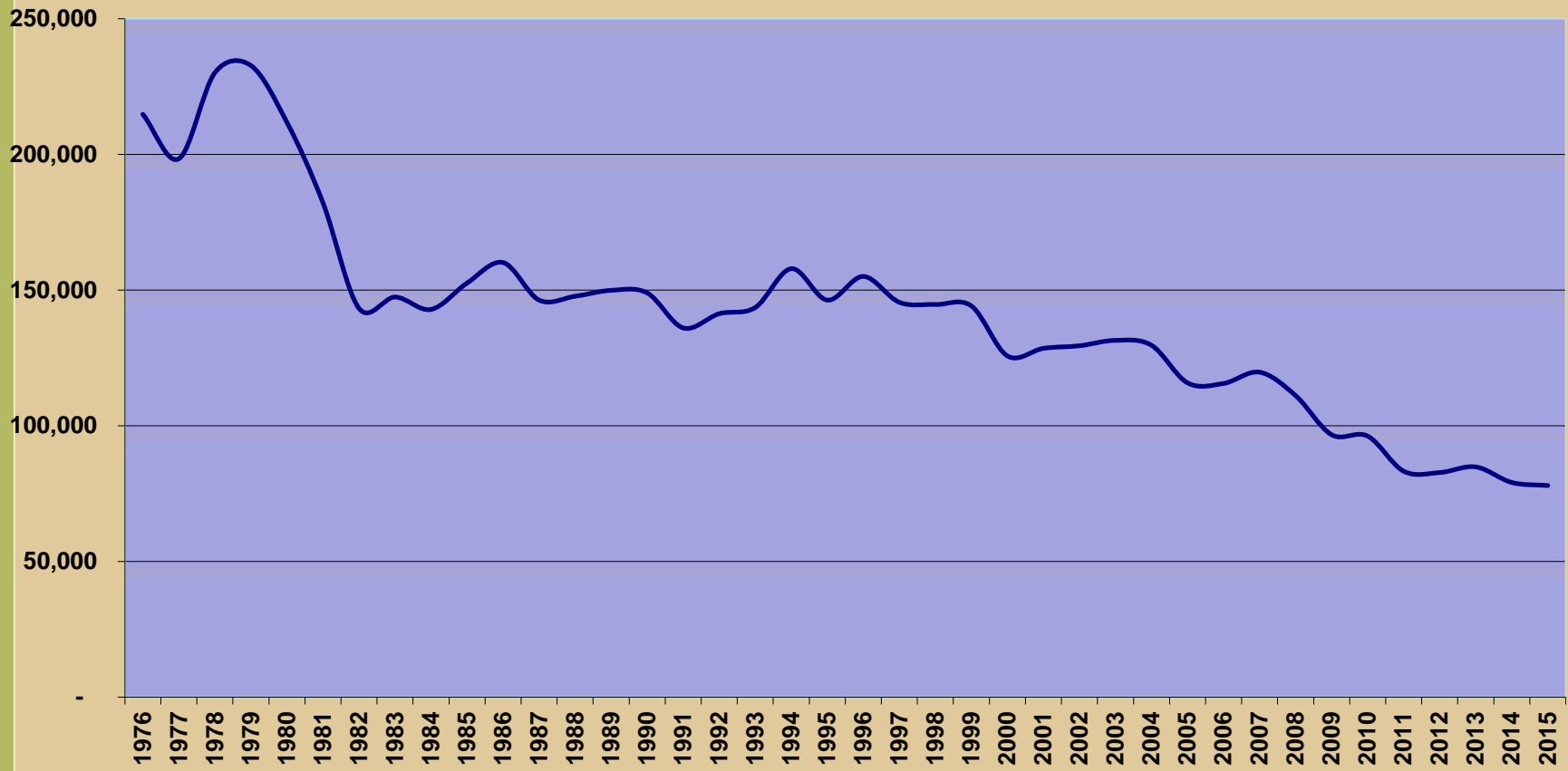
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Aircraft Movements	APR 16 – SEP 16	APR 15 – SEP15	% Change
<i>Air Carrier</i>	15,440	14,960	3%
<i>Military</i>	2,829	2,355	20%
<i>General Aviation</i>	24,143	23,940	.01%
<i>Total Movements</i>	42,412	41,255	2%

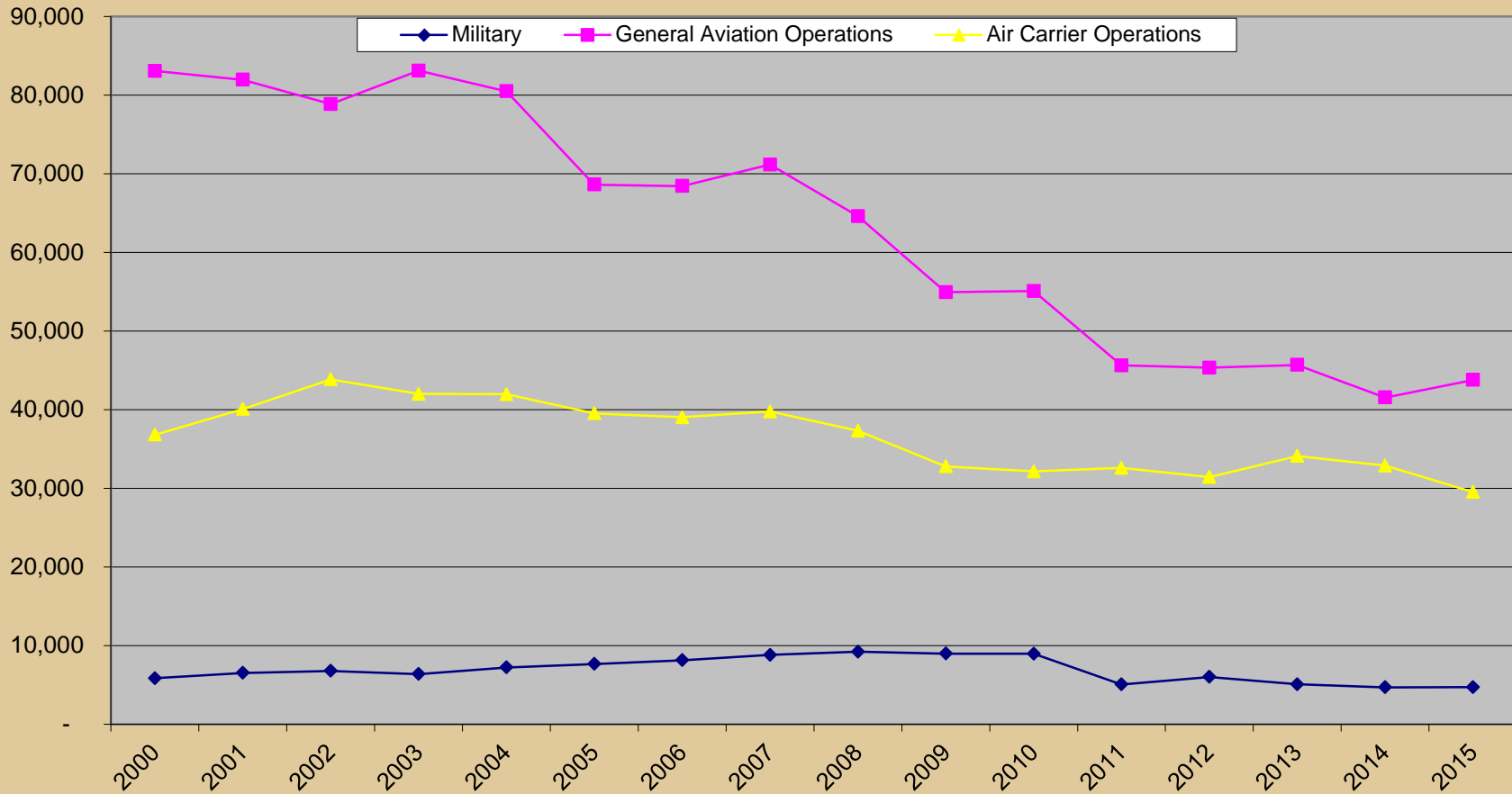


DCRA HISTORICAL AIRCRAFT OPERATIONS

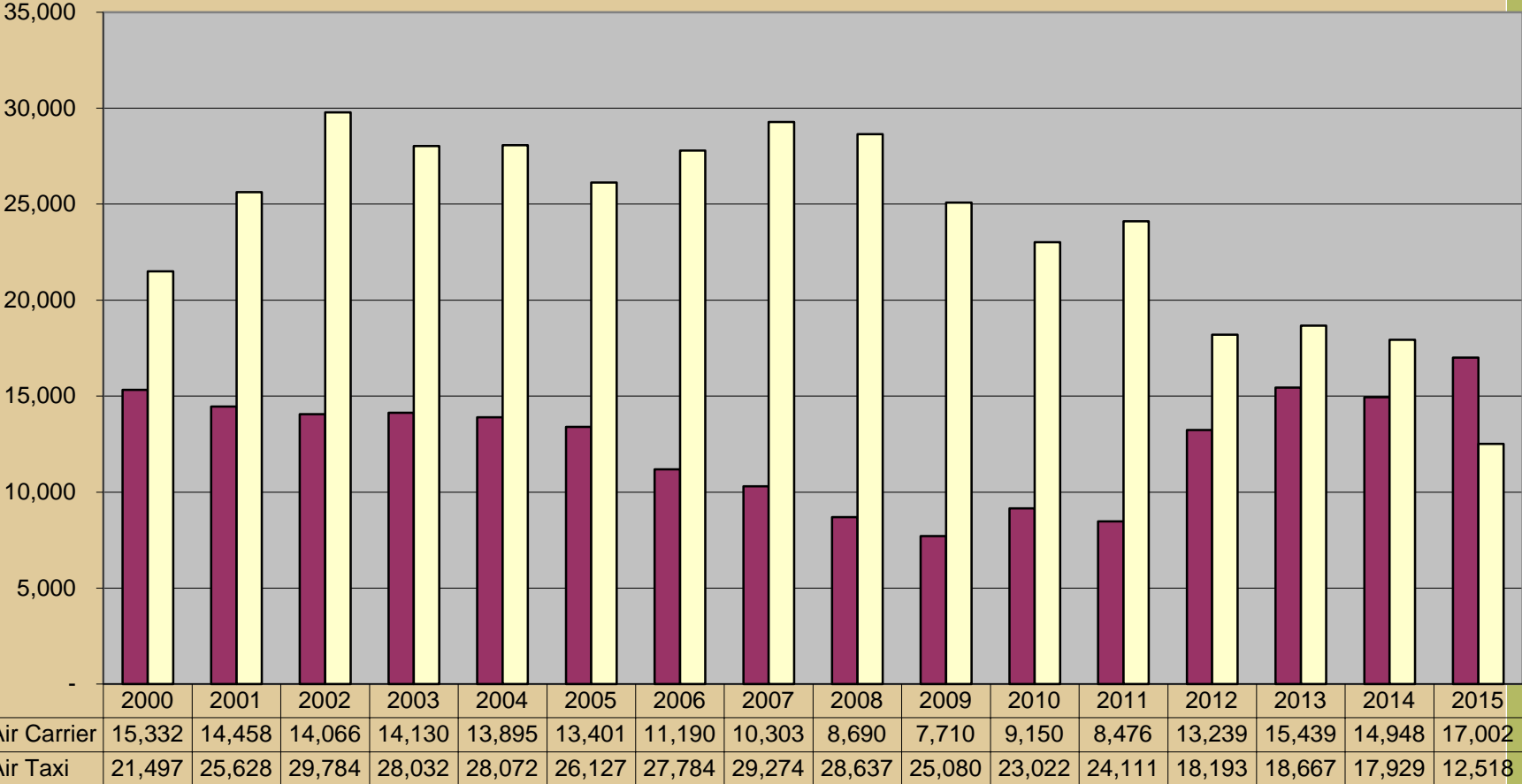
Historical Total Aircraft Operations, DCRA



DCRA HISTORICAL OPERATIONS BY AIRCRAFT TYPE

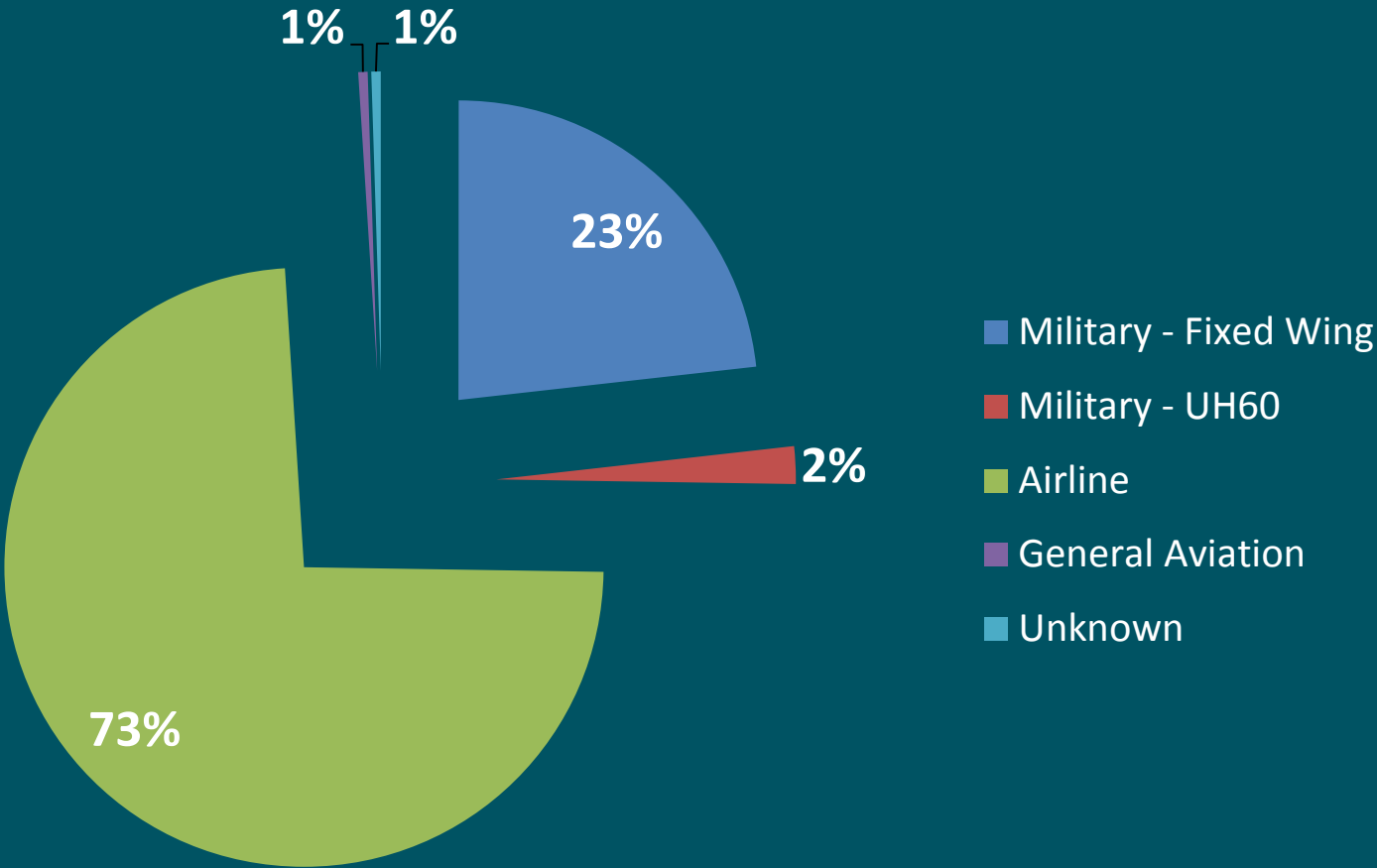


AIR CARRIER (60+) vs AIR TAXI (59)



COMPLAINTS BY AIRCRAFT TYPE

APR 16- SEP 16



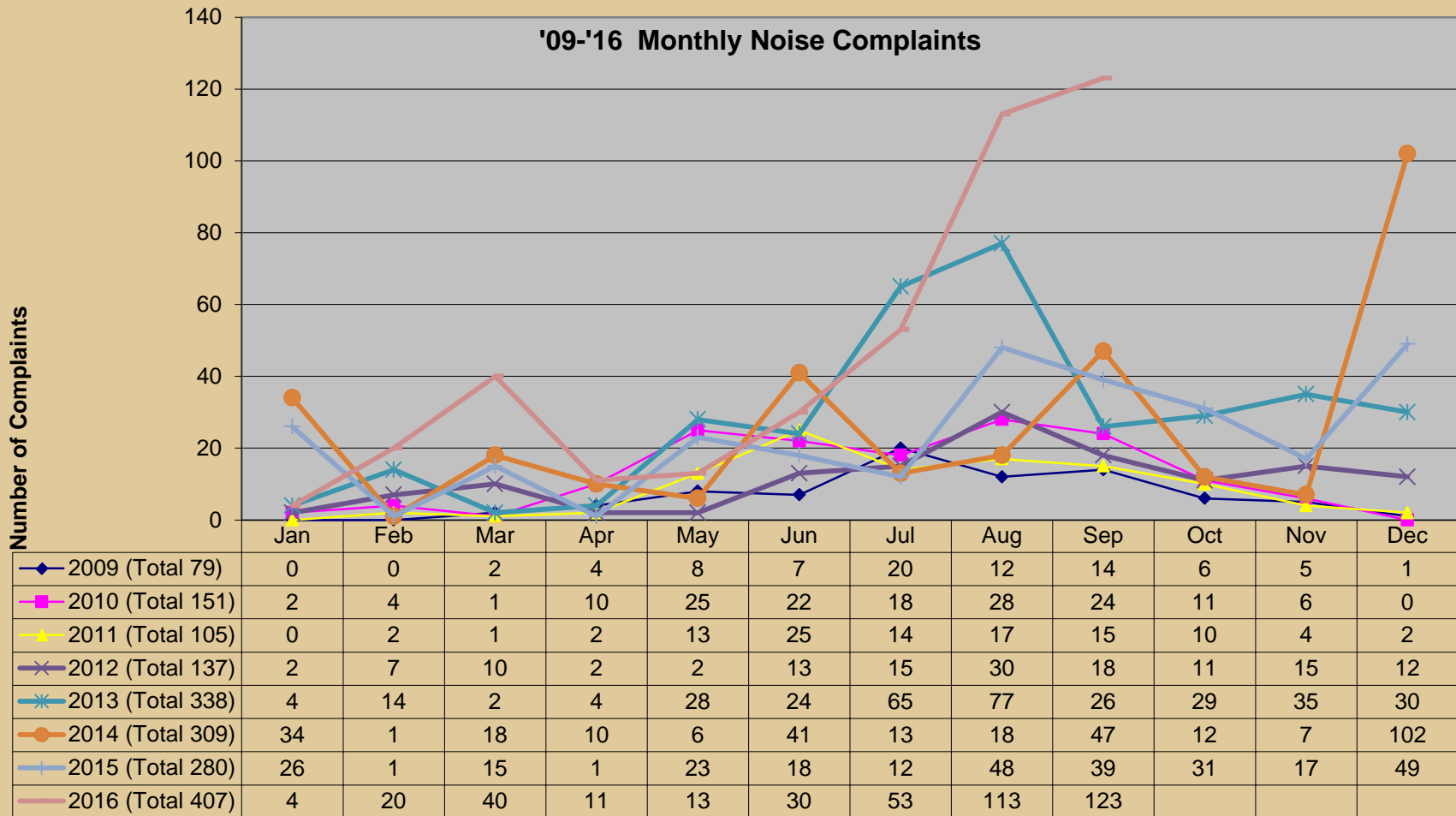
COMPLAINTS BY AREA

Area	APR 16 – SEP 16		APR 15 - SEP 15	
	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>	213	1	23	1
<i>Fitchburg</i>	0	0	0	0
<i>Madison</i>	124	36	107	57
<i>McFarland</i>	0	0	0	0
<i>Middleton</i>	0	0	0	0
<i>Monona</i>	6	2	1	1
<i>Stoughton</i>	0	0	0	0
<i>Windsor</i>	0	0	0	0
<i>Verona</i>	0	0	0	0
<i>Waunakee</i>			1	1
Total	343	40	123	30

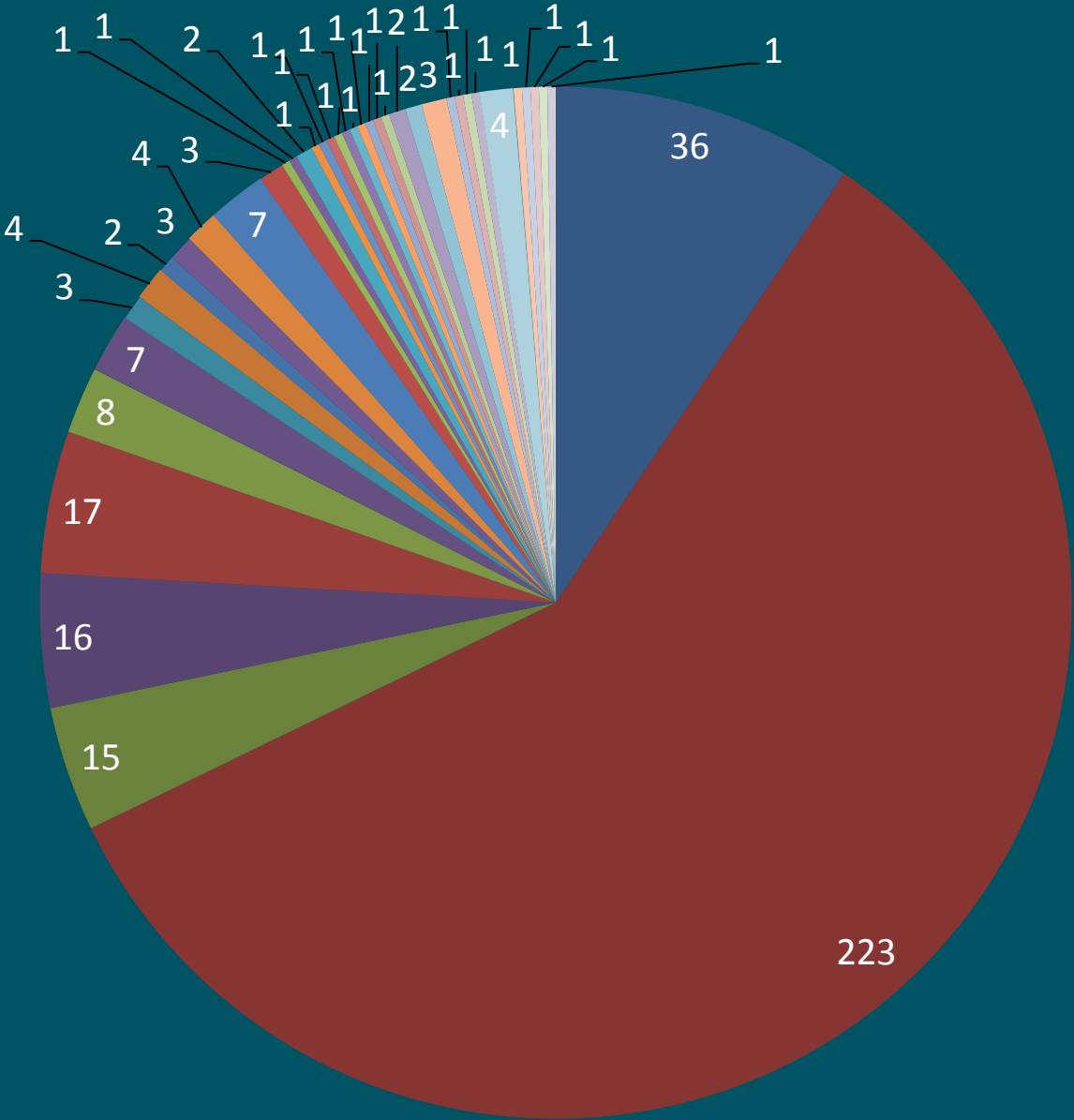


HISTORICAL COMPLAINTS

APR 16– SEP 16



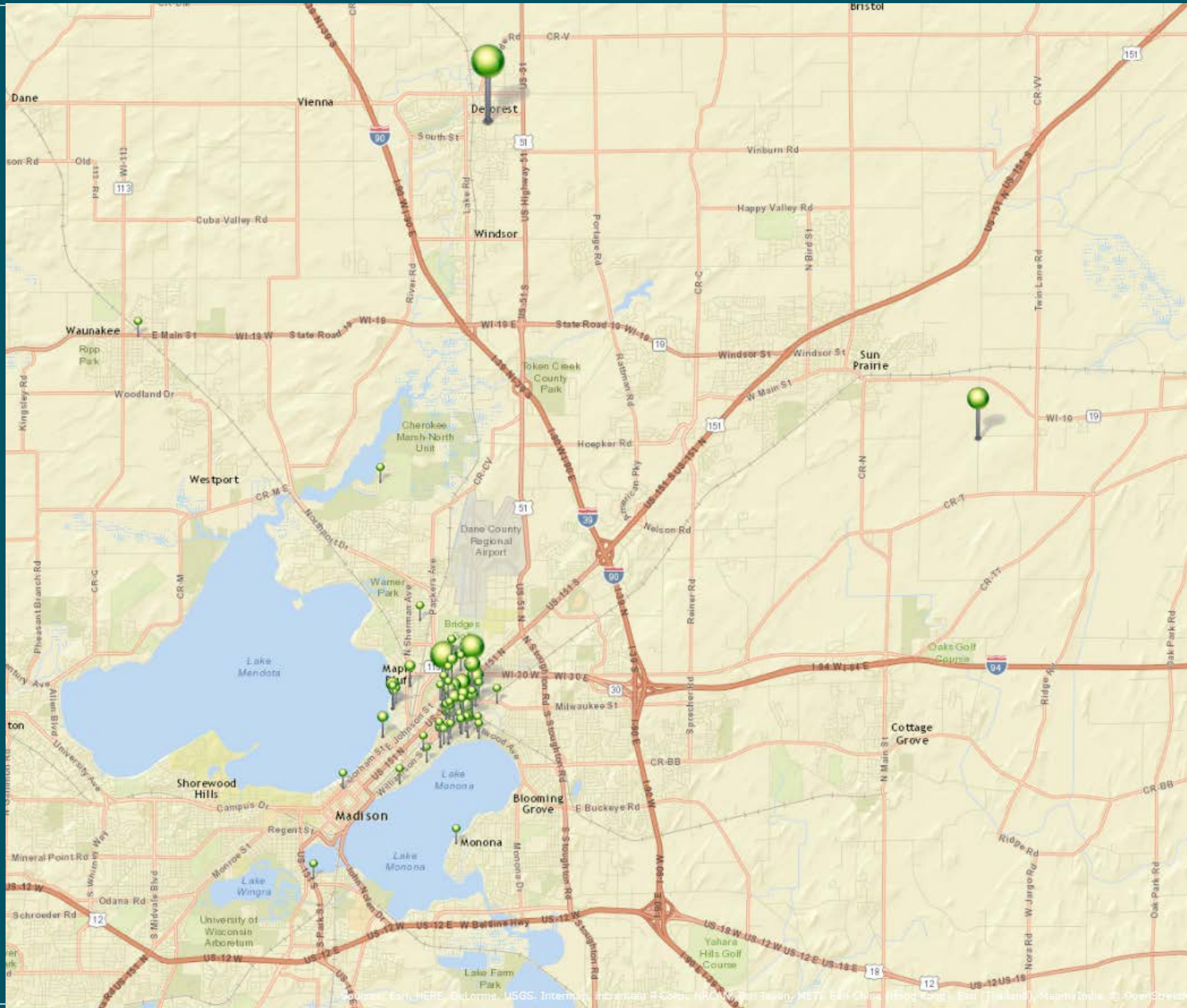
Calls per Household, 2016 YTD



COMPLAINT LOCATIONS

APR 16 – SEP 16

10



NOISE COMPLAINT CALLS

APR 16 – SEP 16

11

	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
DAY	11	13	22	27	32	24	129
NIGHT	0	0	8	26	81	99	86
TOTAL	11	13	30	53	113	123	343



COMPLAINT HISTORY

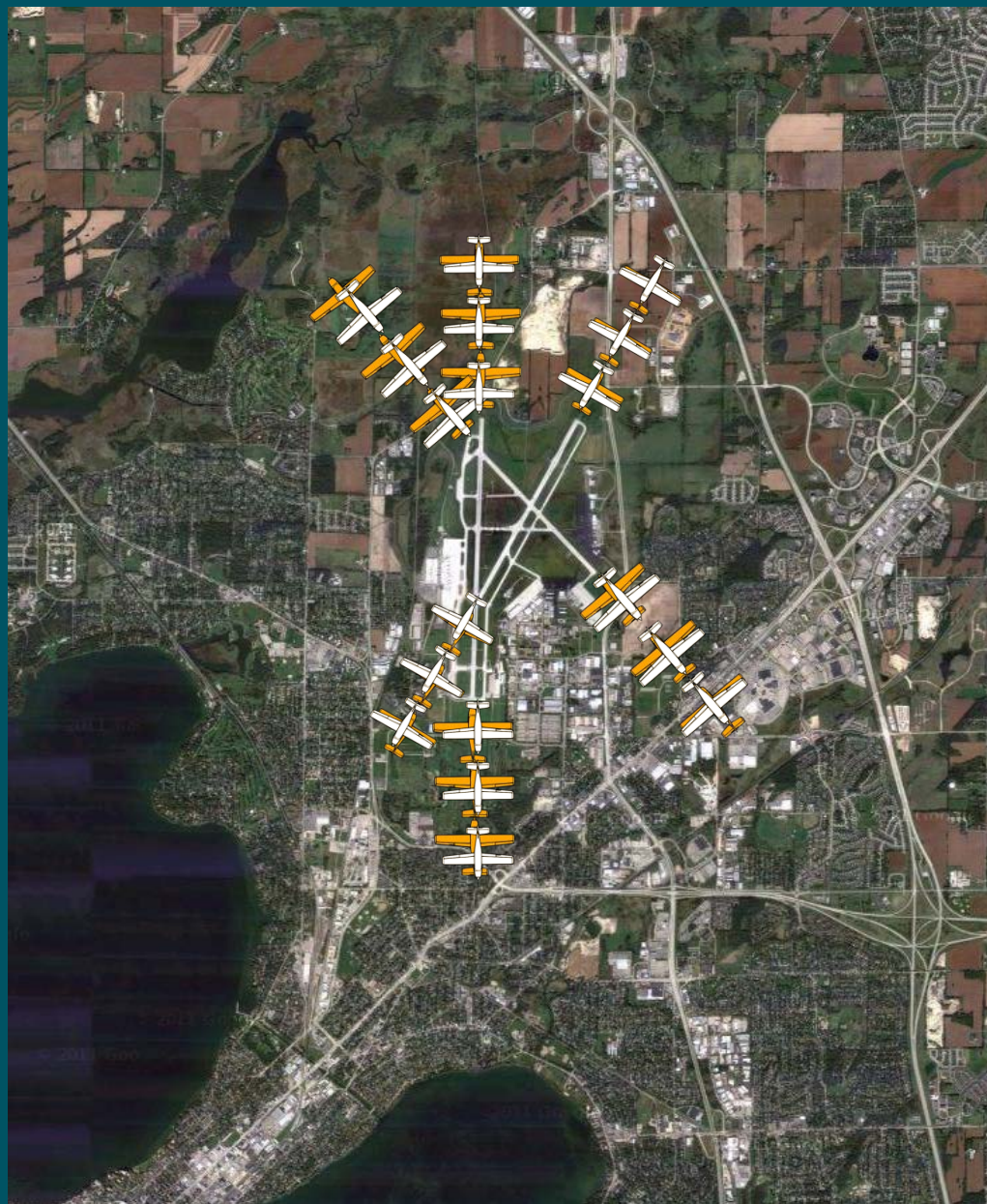
APR 16 – SEP 16

	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								A			A	A						M	G	M	M	M		
MAY	A	A															A		A		M					M	M	M	A				M	M	M
JUN			M	M		M	M	A	A	A			U	H	M	M			M	M	A			M	A										
JUL						M		M		A	M	H	M	A	M	M		M				M												A	
										2	4	5		A	A	G		1	1	4		6													
AUG	M							M	A		M	M		M	M		M	M		A					M								M	M	G
	5		8	2				4	3	3		9		2	1		3	2				4	7	6						12	6	1			
SEP	M						A			M			M	M			A			A		A			M		M			M	M	U	U		
		1	1	4			2				13	9		1	3			25	8	2	3			10	16	3		3							

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



WIND CONDITIONS SUMMARY



- WINDS FROM THE SOUTH
THAT ARE GREATER THAN THE KNOTS
- VISIBILITY GREATER THAN 3 MILES
- RUNWAY CONDITION IS DRY
- PILOT COMPLIES WITH VOLUNTARY CONTRA FLOW OPERATION

Wisconsin Wind Data*

*National Weather Service

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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 ¹	82%
VISIBILITY AT 5 STATUTE MILES OR LESS	5%
RUNWAYS CLOSED ²	18/36 = 389 3/21 = 79 14/32 = 52
¹ – Based on METAR weather observations at the time of recorded aircraft operations. ² – Runway closures primarily due to snow and ice control procedures	



NOISE ABATEMENT COMPLIANCE AUDIT

RUNWAY USE

Aircraft observed departing to the North	39.82%
Aircraft observed arriving from the North	56.92%
Aircraft observed departing to the South	59.22%
Aircraft observed arriving from the South	42.37%

PASSUR FLIGHT TRACKING

9,344 operations recorded by Passur flight monitoring system

1,325 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

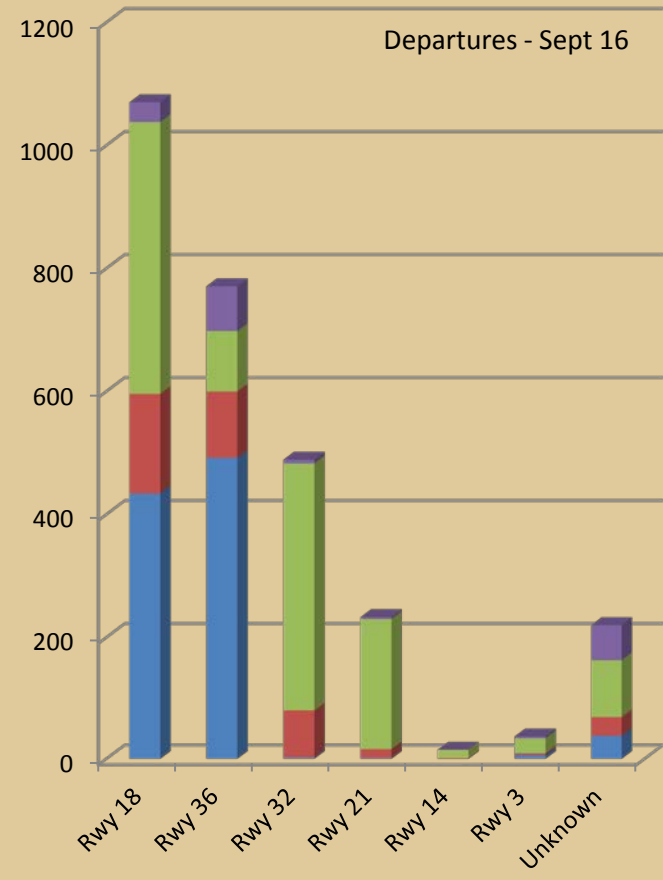
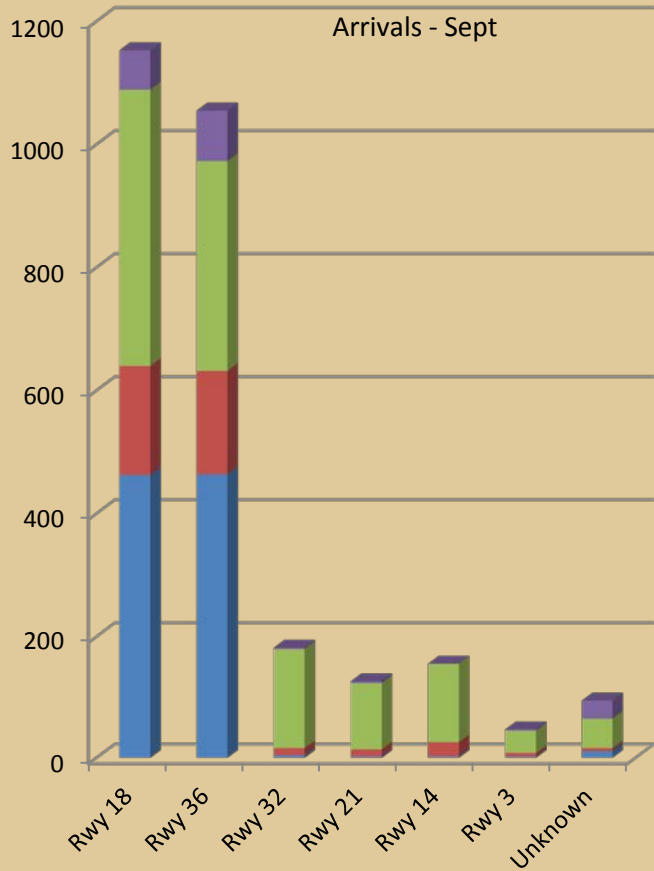
**** With 100% compliance of Noise Abatement Procedures, there are times aircraft are required depart to the south and arrive from the south. ****

RUNWAY USE FACTORS			
	Wind	Visibility	Ceiling
South Departure	67.86%	4.31%	0.00%
South Arrival	69.50%	4.19%	16.22%

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

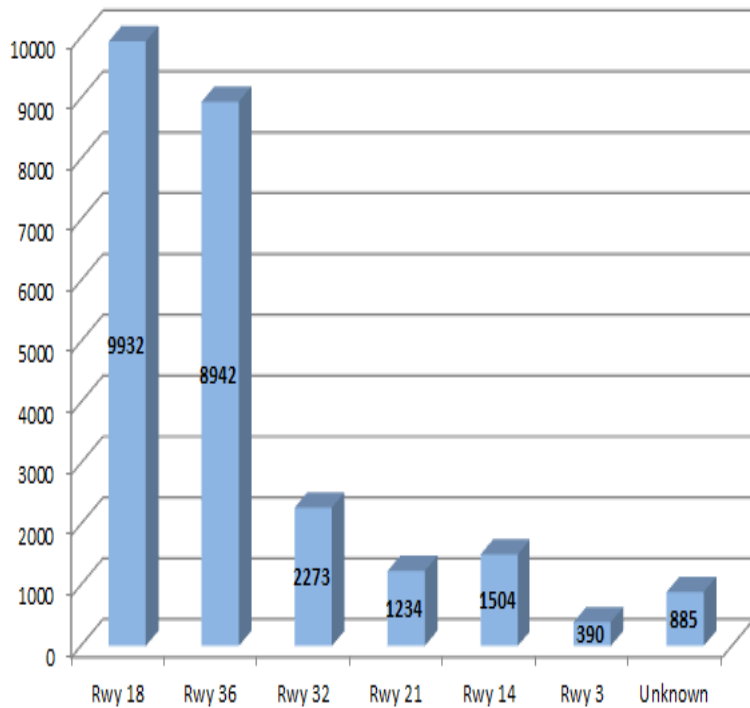


Runway Usage – Sept 2016

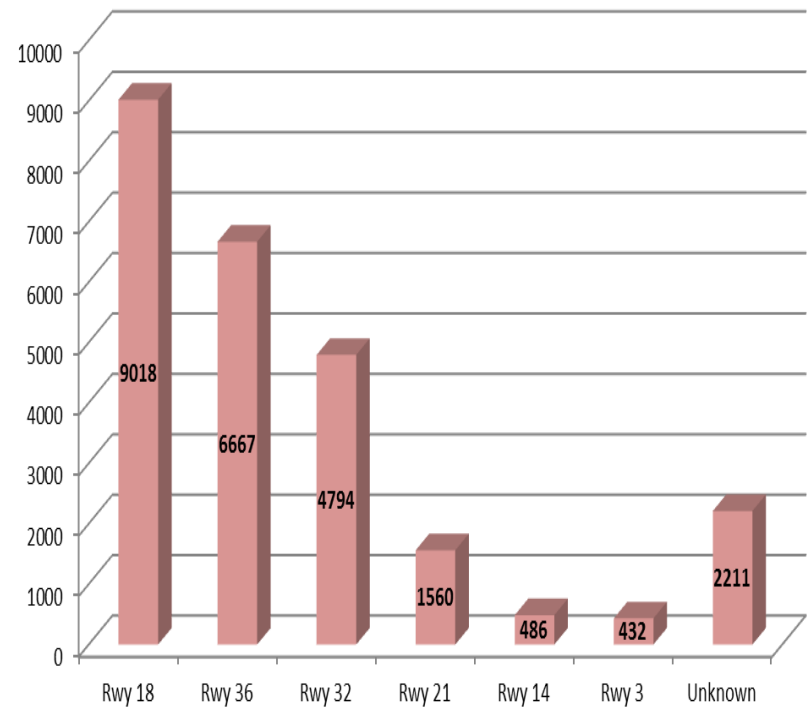


Runway Usage – 2016 YTD

Arrivals (2016 YTD)

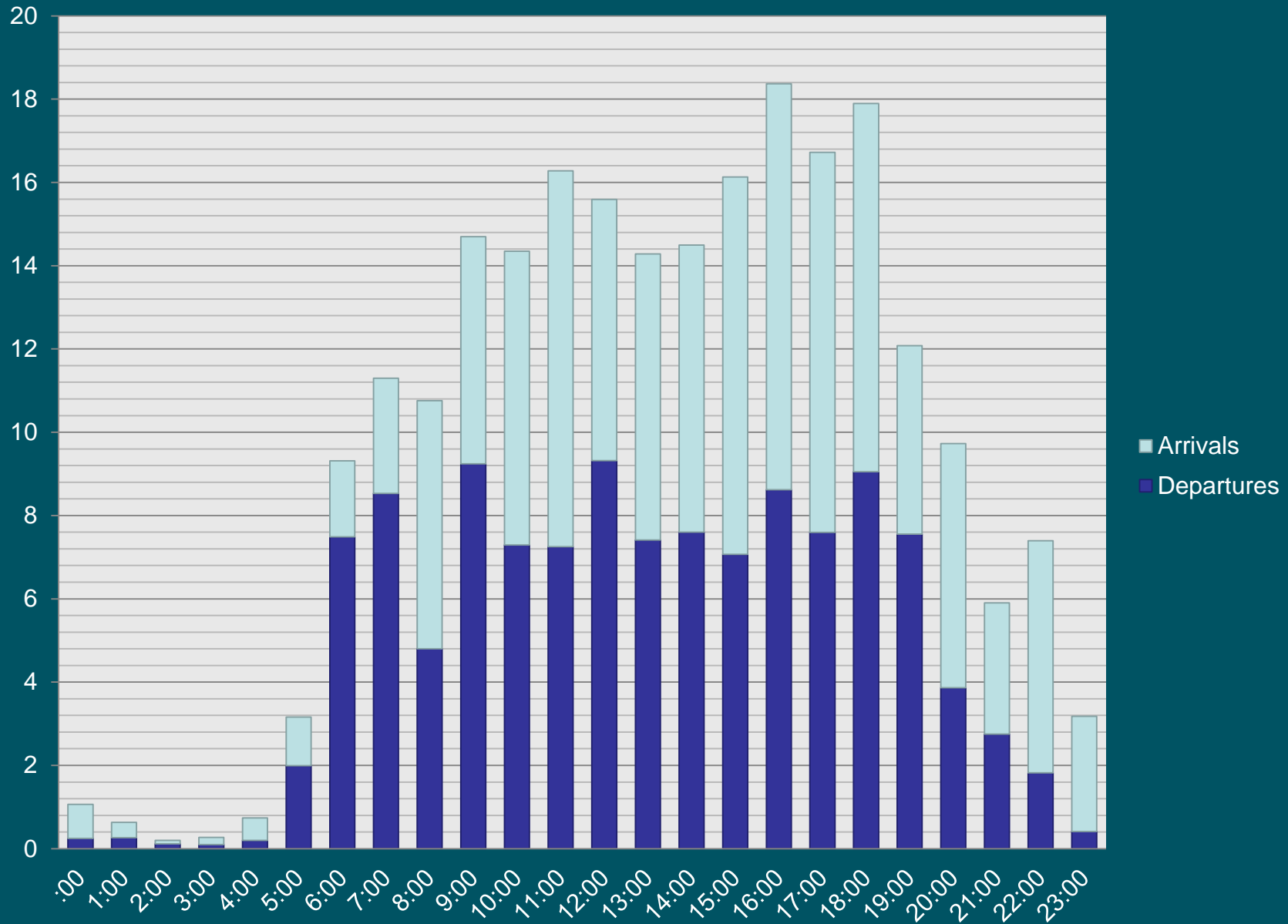


Departures (2016 YTD)



AVERAGE HOURLY OPERATIONS

APR 16 – SEP 16



CONTACT INFORMATION

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

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

Madison Automated Weather: **249-0615**



Questions?

