

Noise Abatement Subcommittee Review of Noise Complaint Activity

APRIL 25, 2018

Madison, Wisconsin



AIRCRAFT MOVEMENTS

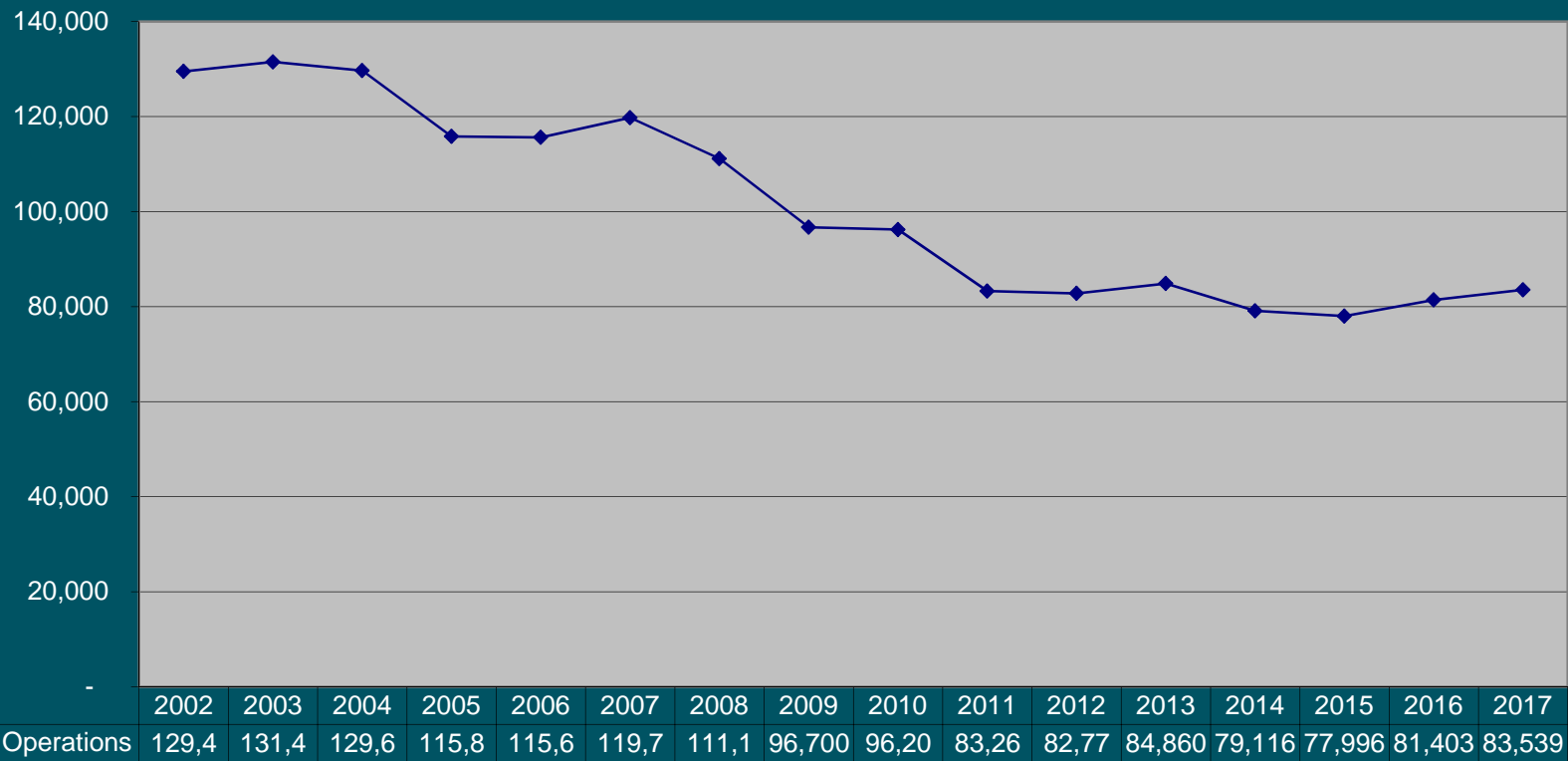
OCT 17 – MAR 18

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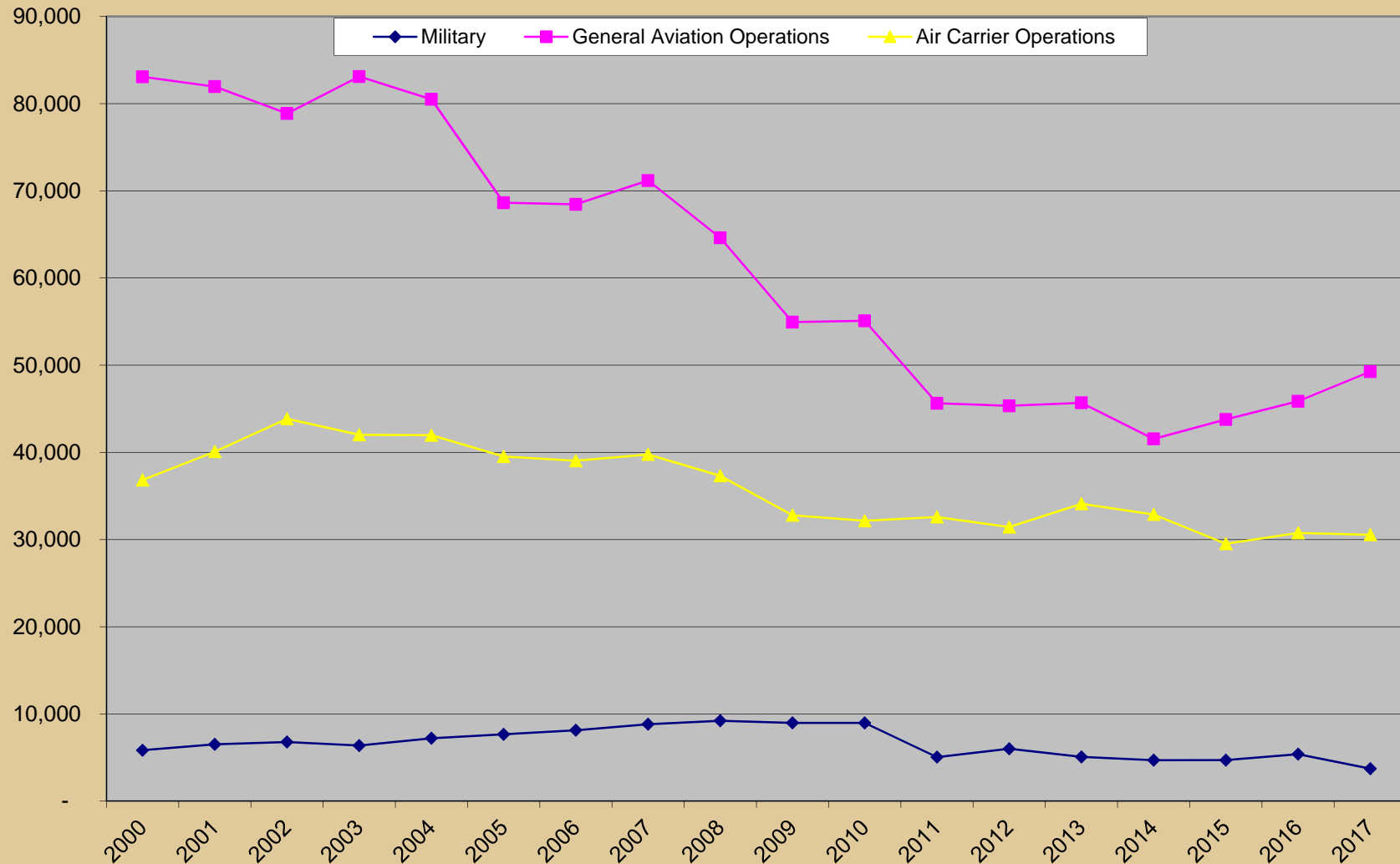
Aircraft Movements	OCT 16 – MAR 17	OCT 17 – MAR 18	% Change
<i>Air Carrier</i>	12,935	15,028	16%
<i>Military</i>	2,130	1,898	-10%
<i>General Aviation</i>	20,726	21,940	6%
<i>Total Movements</i>	36,412	38,940	7%



Aircraft Operations

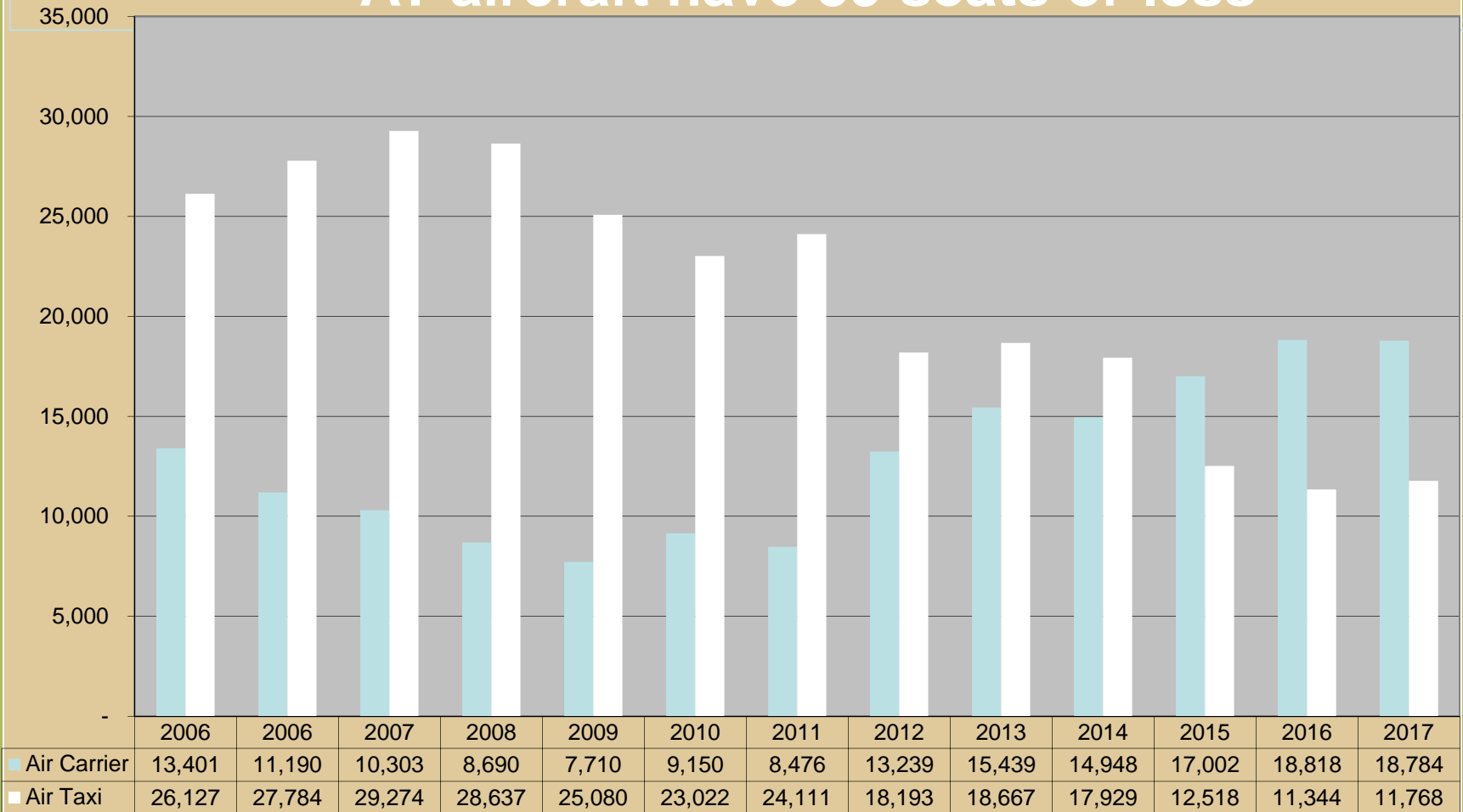


Historical Aircraft Operations by Type



Air Carrier (A-320, B717) vs Air Taxi (CRJ, ERJ)

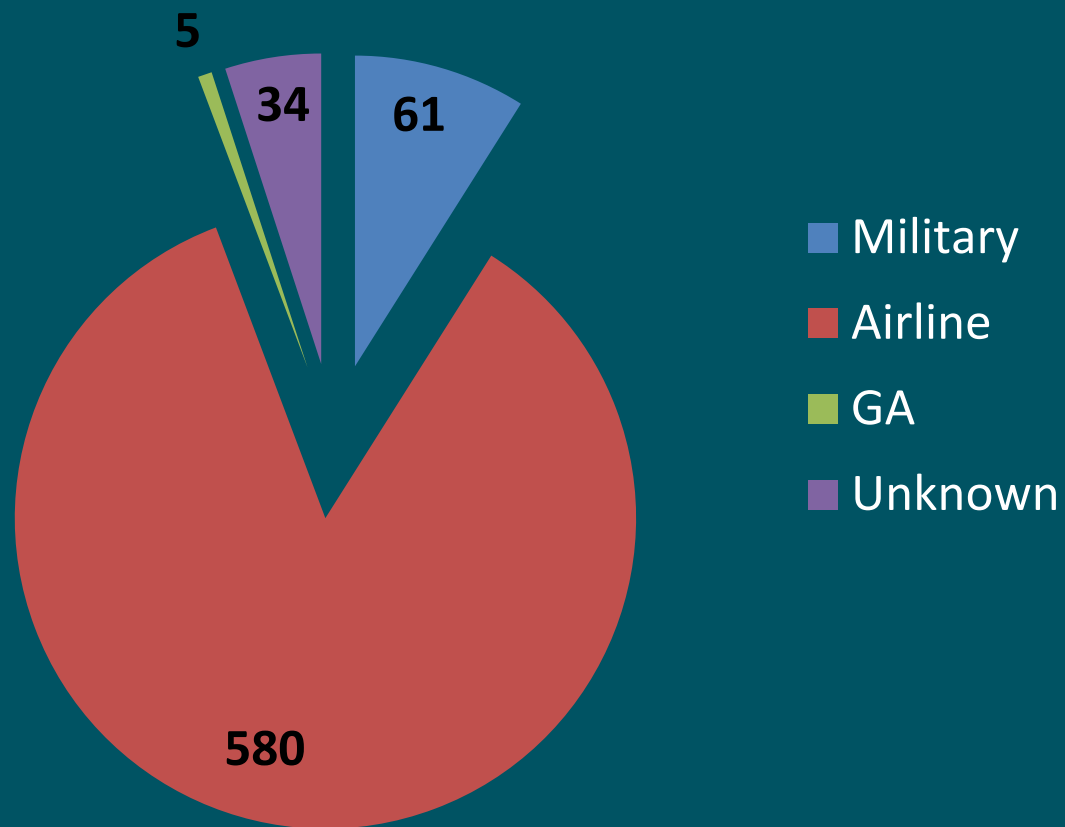
AC aircraft have 60 or more seats
 AT aircraft have 59 seats or less



Complaints by Aircraft Type

OCT 17 – MAR 18

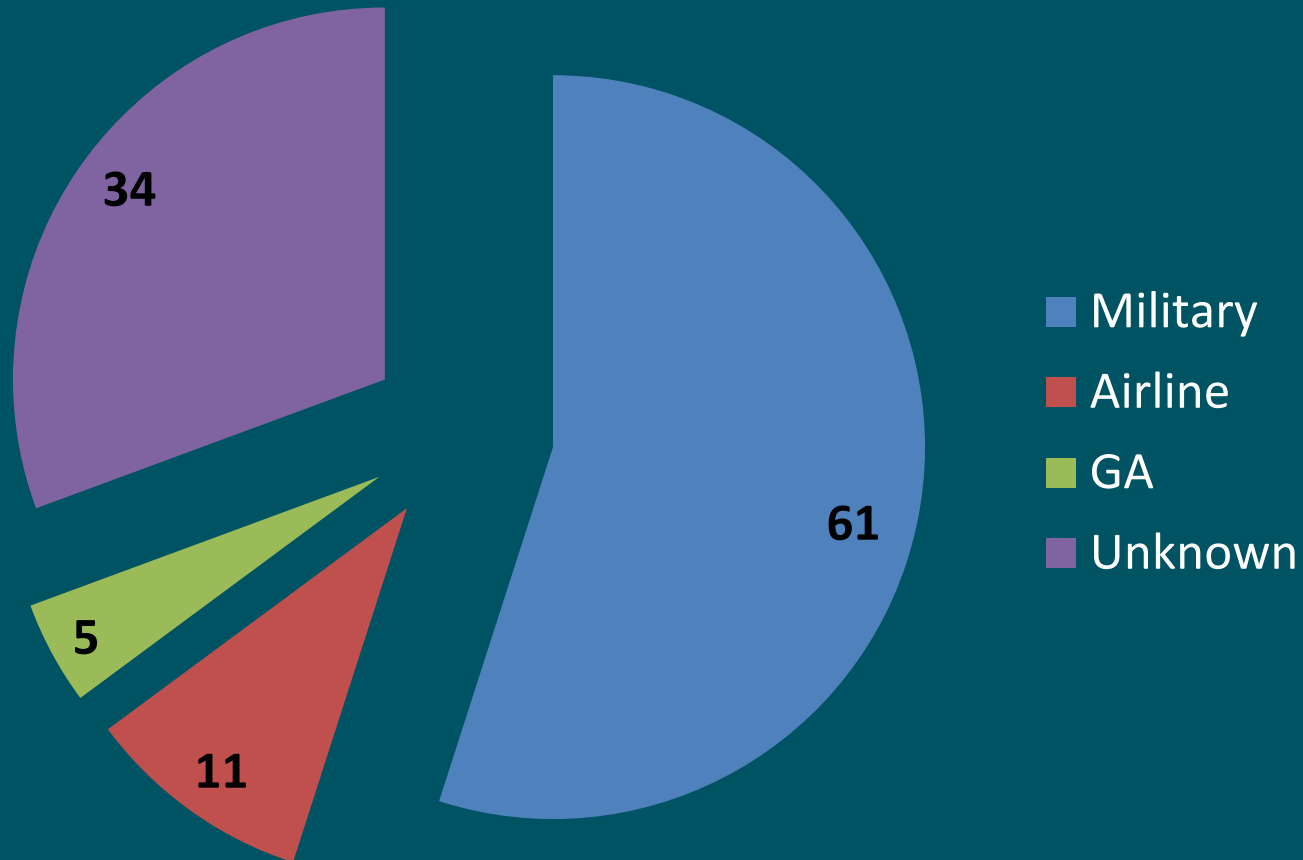
6



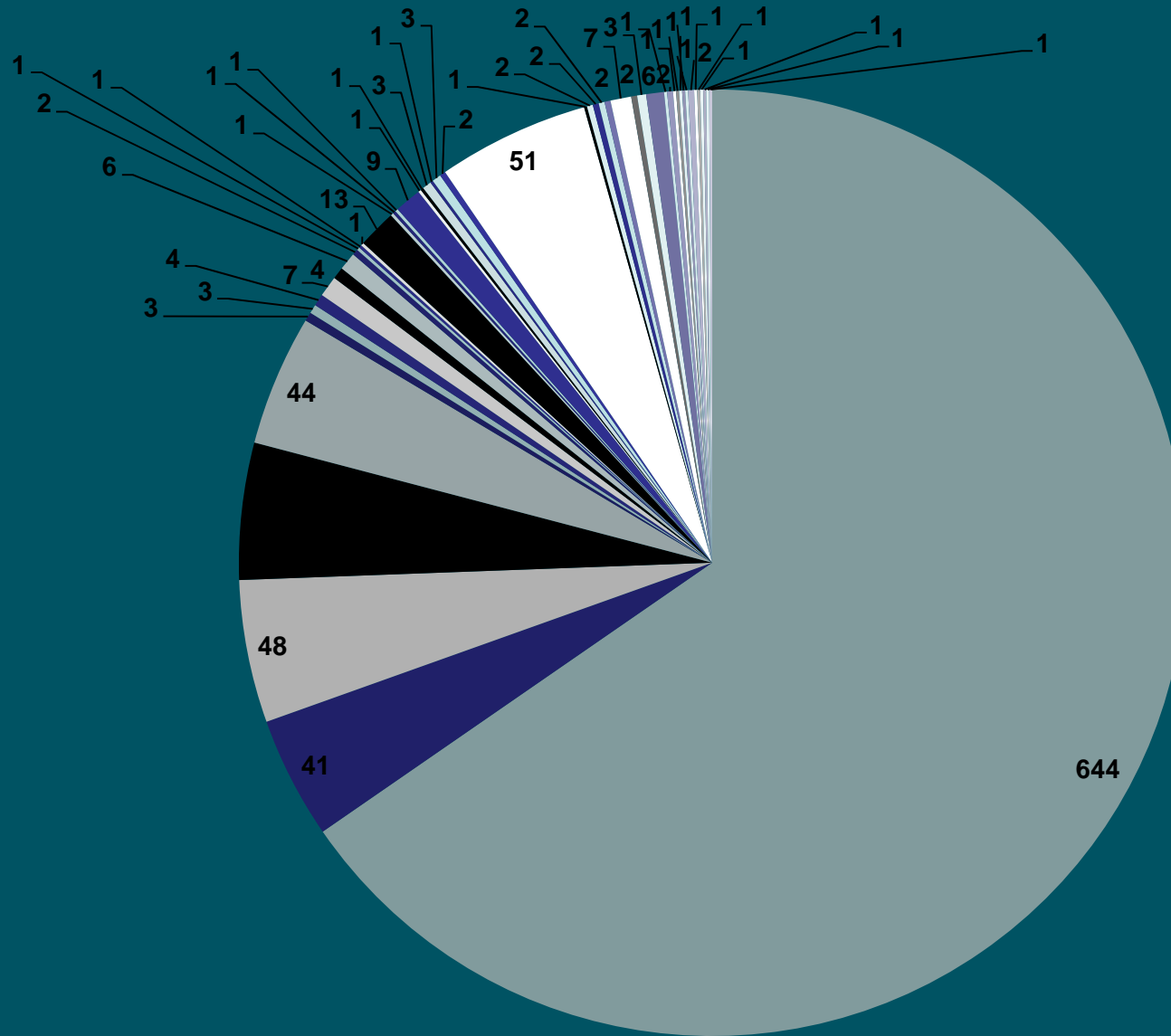
Complaints by Aircraft Type, revised

OCT 17 – MAR 18

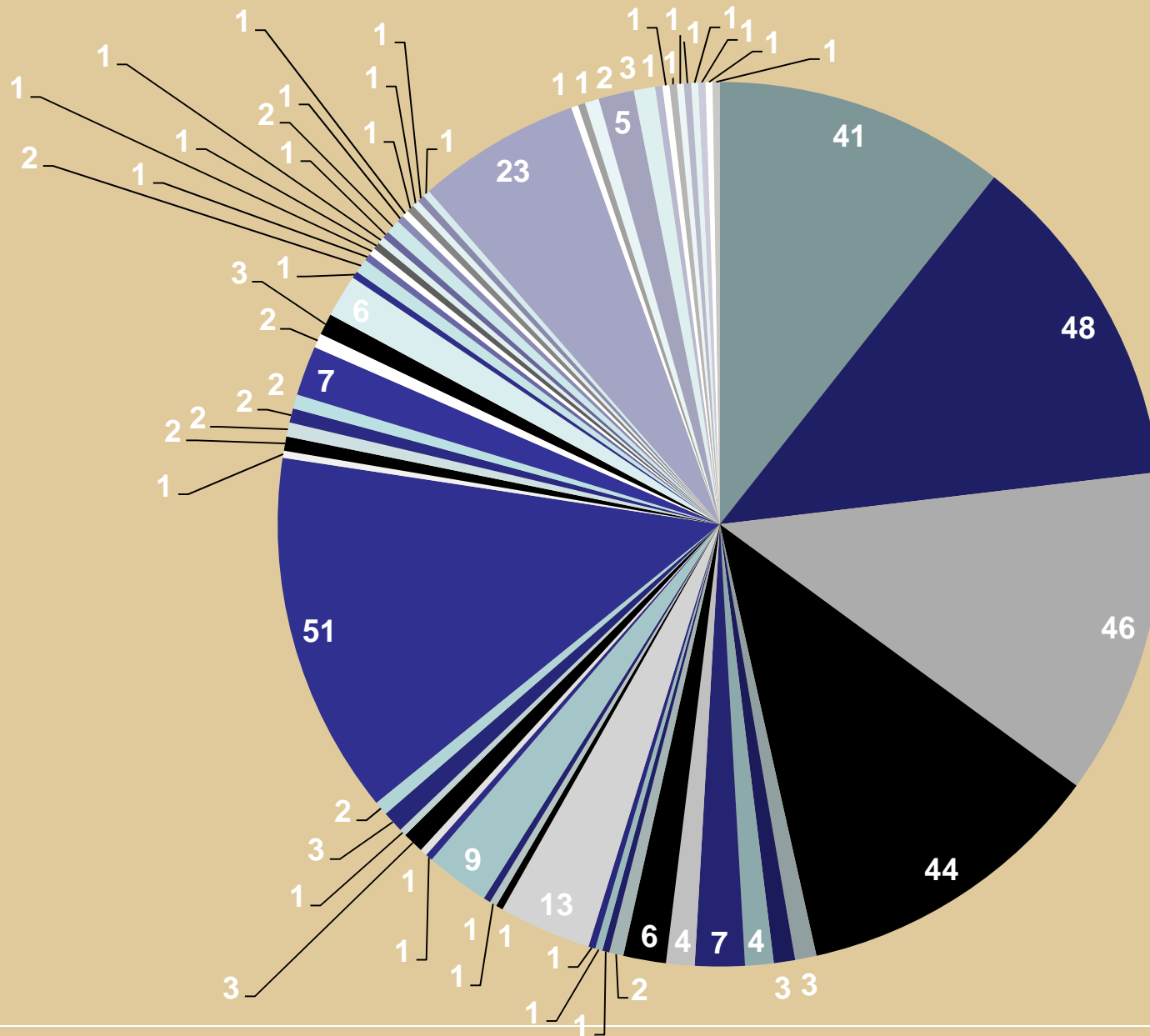
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Complaints per Household CY 2017 (68)



Complaints per Household CY 2017, revised (67)



COMPLAINT BY AREA

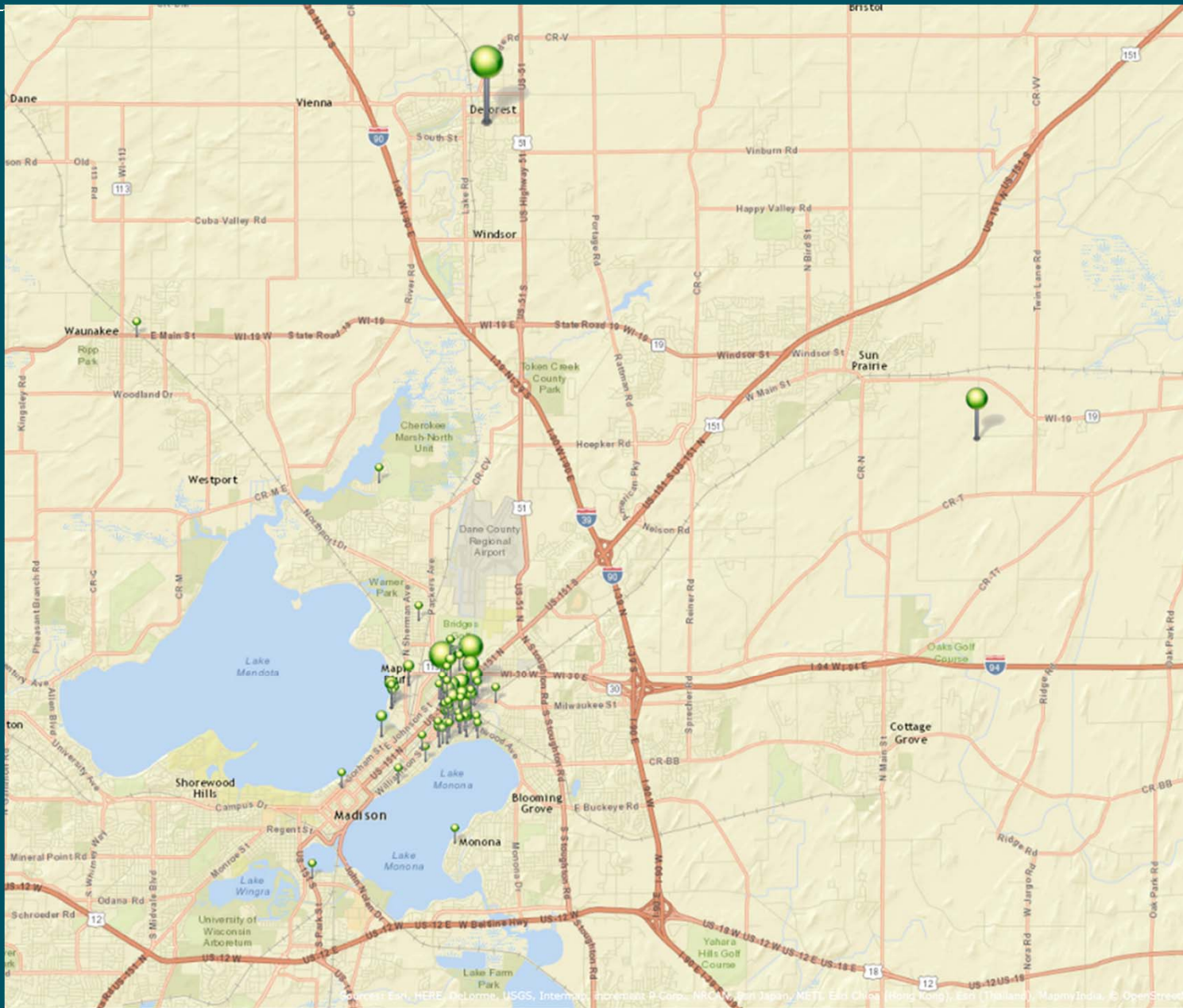
Area	OCT 16 – MAR 17		OCT 17 – MAR 18	
	Complaints	Callers	Complaints	Callers
<i>Blooming Grove</i>	0	0	0	0
<i>Burke</i>	0	0	0	0
<i>Cottage Grove</i>	0	0	0	0
<i>DeForest</i>	114	1	569	1
<i>Fitchburg</i>	0	0	0	0
<i>Madison</i>	15	11	105	22
<i>Marshall</i>	2	2	4	1
<i>Middleton</i>	0	0	0	0
<i>Monona</i>	1	1	0	0
<i>Sun Prairie</i>	2	1	3	2
<i>Windsor</i>	0	0	0	0
<i>Verona</i>	0	0	0	0
<i>Waunakee</i>	0	0	0	0
Total	163	15	681	26



COMPLAINT LOCATIONS

OCT 17 – MAR 18

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NOISE COMPLAINT CALLS

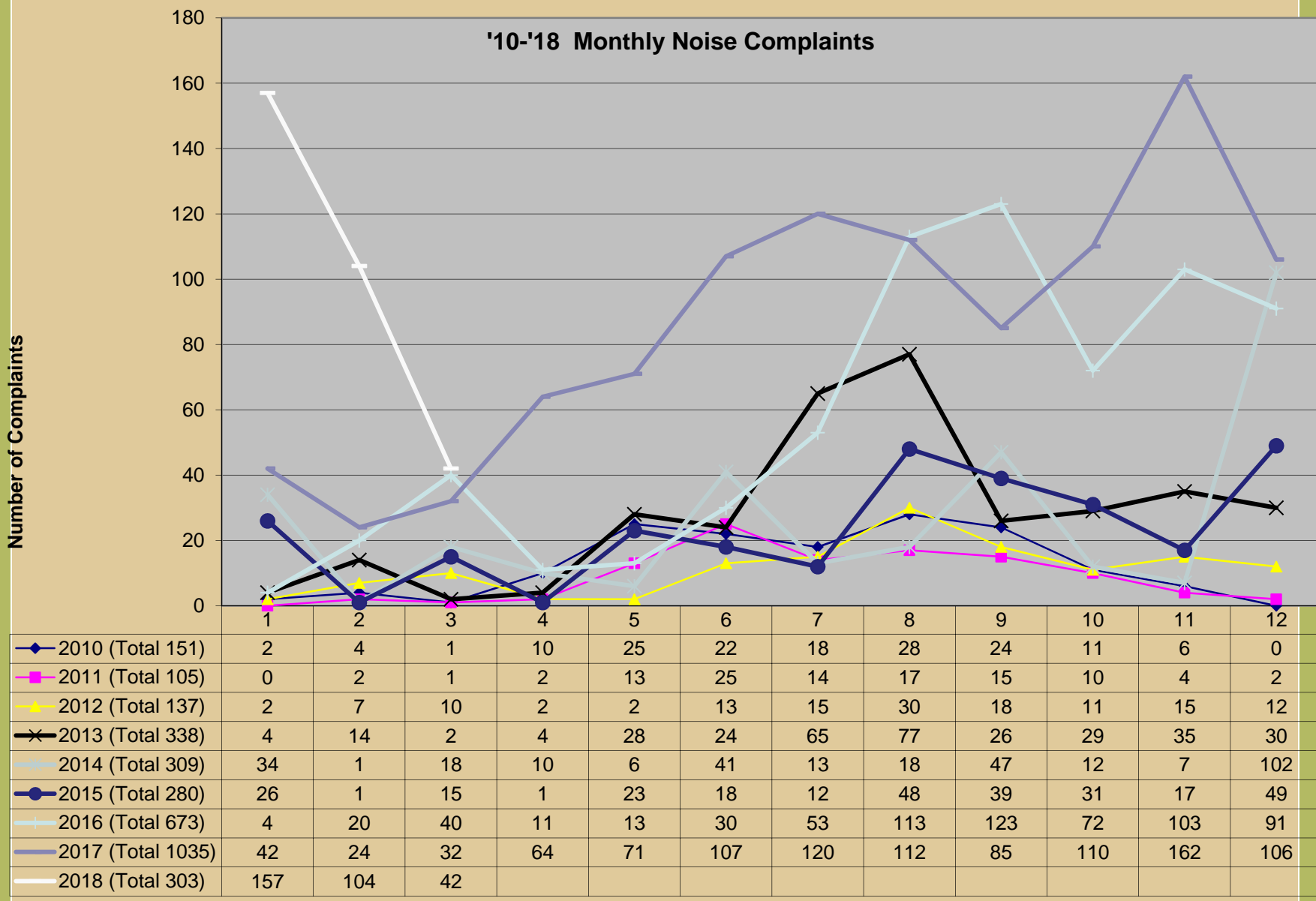
OCT 17 – MAR 18

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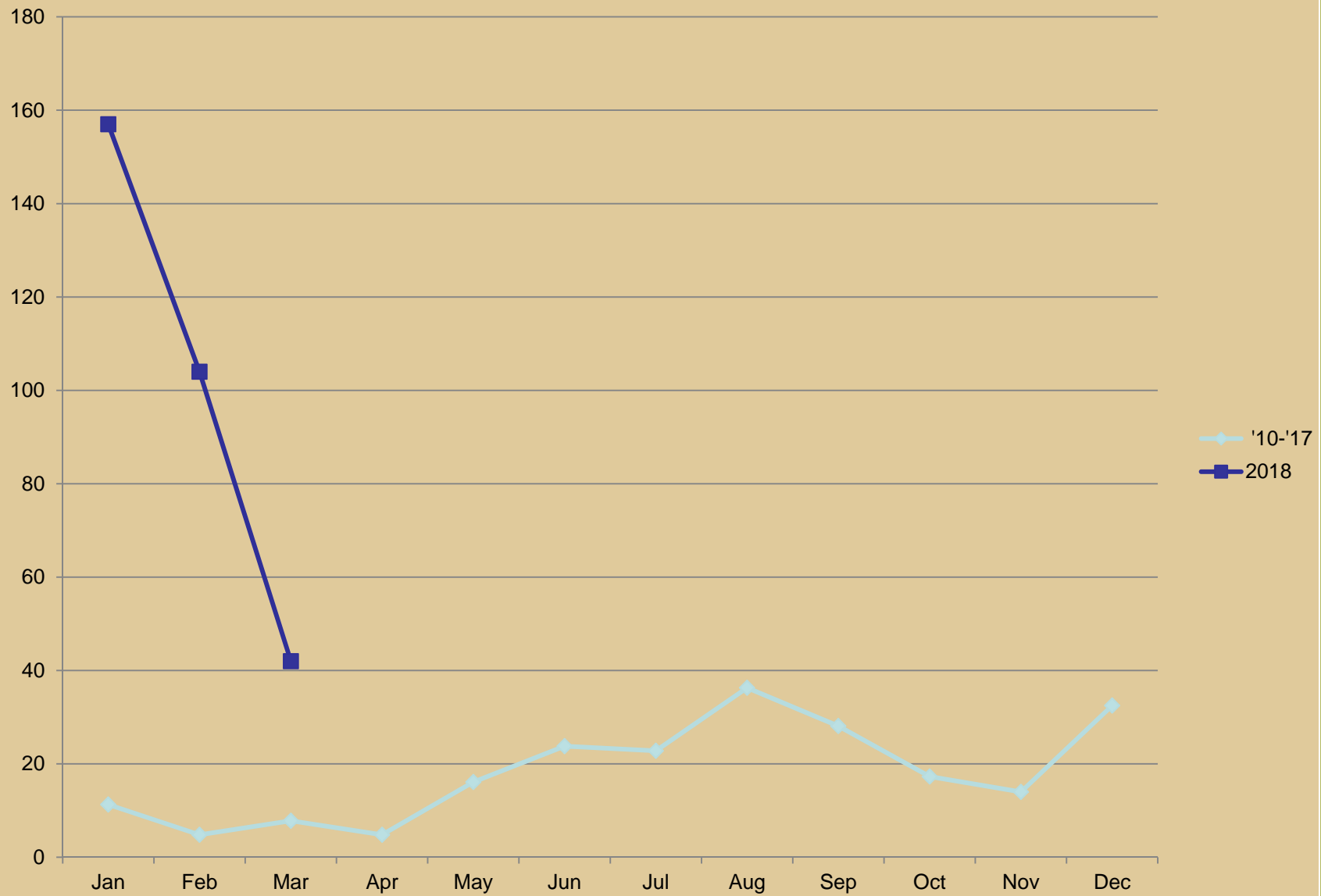
	OCT	NOV	DEC	JAN	FEB	MAR	TOTAL
DAY	38	85	36	46	33	26	264
NIGHT	72	77	70	111	71	16	417
TOTAL	110	162	106	157	104	42	681



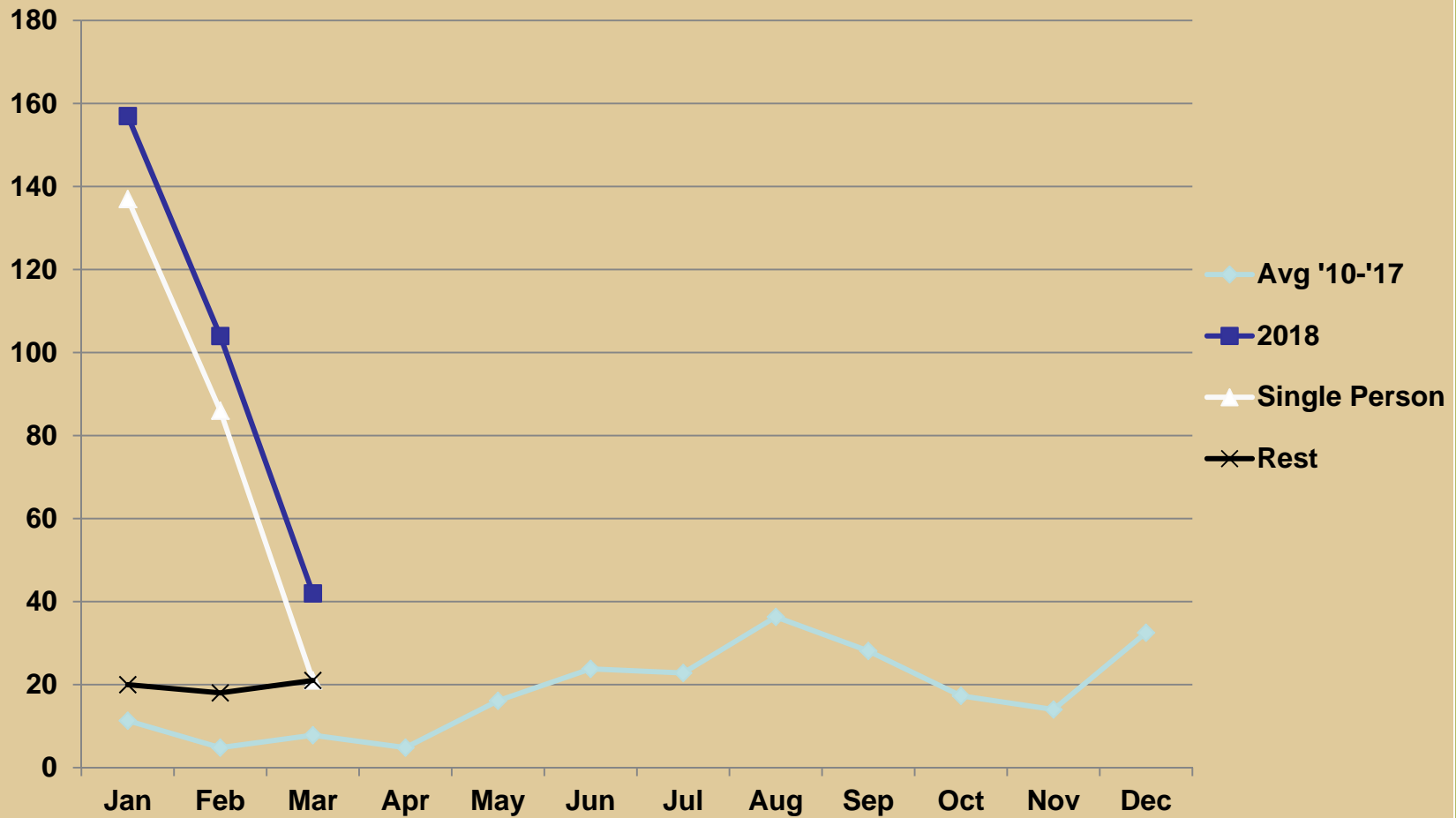
2010 - 2018 Noise Complaint History



Noise Complaint History



Noise Complaint History



	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		
OCT	U 6	A A A 6	U U M 7		A M M 5			A U U U 8	U U 3			U A 12					U 17		G 19	U 20		M M 22										1 2 30	4 31
NOV	M 8	U 4	G	M		M			1	3	4	M	G 5	M 1 8	9	8	38			U 9						A 26	M 27	M 28			2 30		
DEC		U U M M M M 3											U 9							M M 20	M M 21	M M 22	G 23				M 27	M 28					
JAN			M	M M	M M	U		U			M					U U M		U U U							U	M M M A 1 1				4 30	5 31		
FEB		U 3	U M 1				M M M						A 3	M U 9	M M M M U												M M 1 3	MM 3					
MAR	M 2		M M M A	M 3			M					M	U M							M 20	M 21							MM MM UU UU					

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

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	86.98%
VISIBILITY AT 5 STATUTE MILES OR LESS	8.23%
RUNWAYS CLOSED ²	18/36 = 41:25 3/21 = 192.25 14/32 = 225.50
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	42.36%
Aircraft observed arriving from the North	37.92%
Aircraft observed departing to the South	54.77%
Aircraft observed arriving from the South	51.30%

PASSUR FLIGHT TRACKING

7,556 operations recorded by Passur flight monitoring system



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. ****

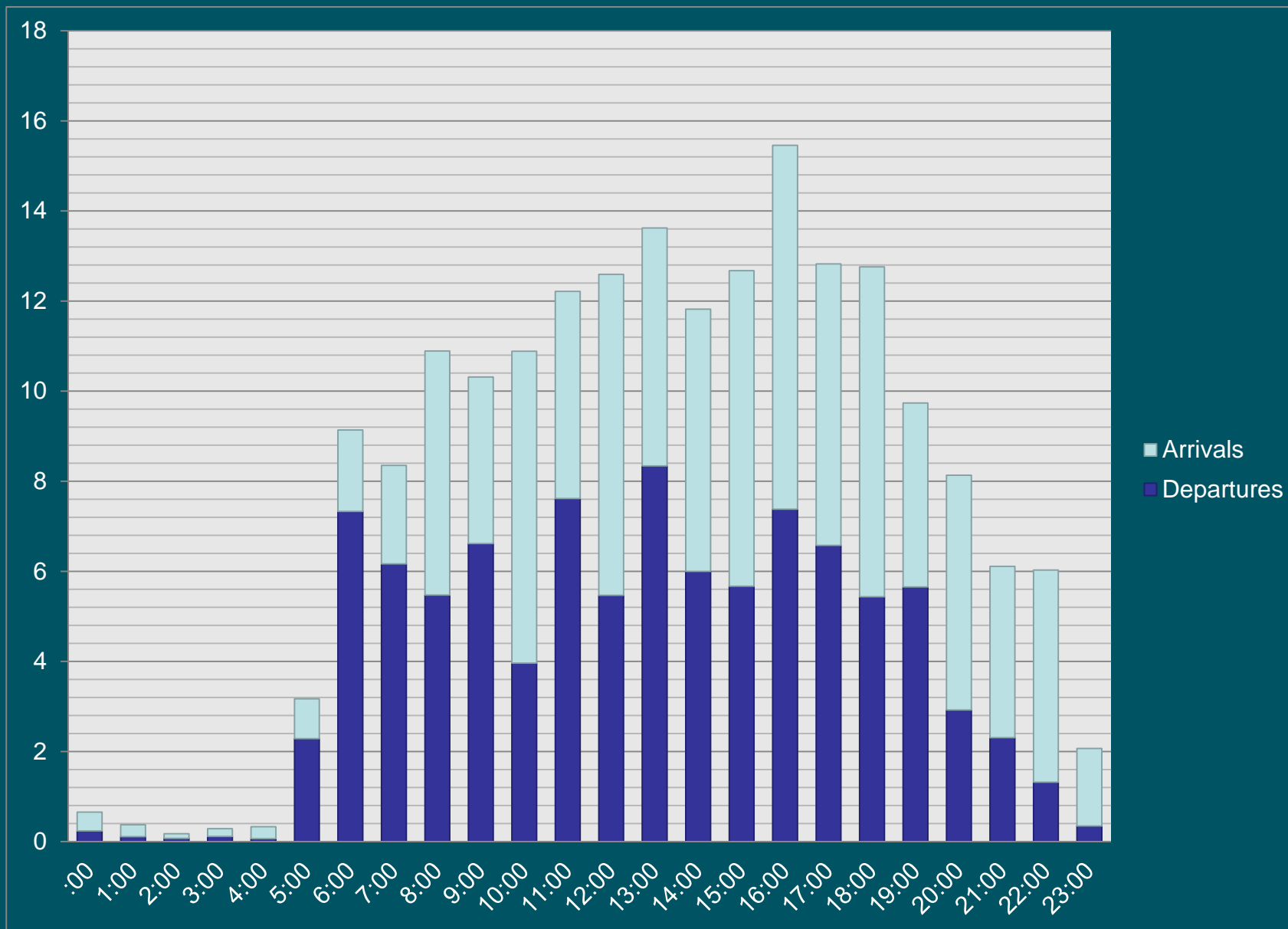
RUNWAY USE FACTORS			
	Wind	Visibility	Ceiling
South Departure	73.46%	15.91%	0.00%
South Arrival	71.61%	7.73%	31.80%

**** 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 17 – MAR 18



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**



FAA Runway Data

Airport Name
MSN

Month
3/1/2018 to 3/31/2018

MSN Map, March 2018

