Noise Abatement Subcommittee

Review of Noise Complaint Activity

Madison, Wisconsin MAY 9, 2016



AIRCRAFT MOVEMENTS

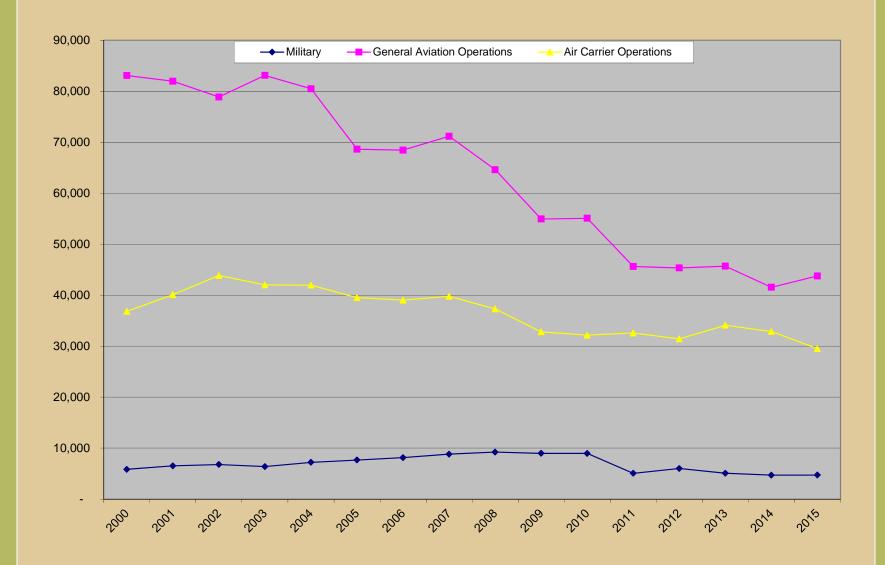
Aircraft Movements	OCT 15 – MAR 16	OCT 14 – MAR 15	% Change
Air Carrier	14,176	15,807	-10%
Military	2,711	2,163	25%
General Aviation	21,332	18,442	15%
Total Movements	38,216	36,412	5%







Historical Aircraft Operations by Type



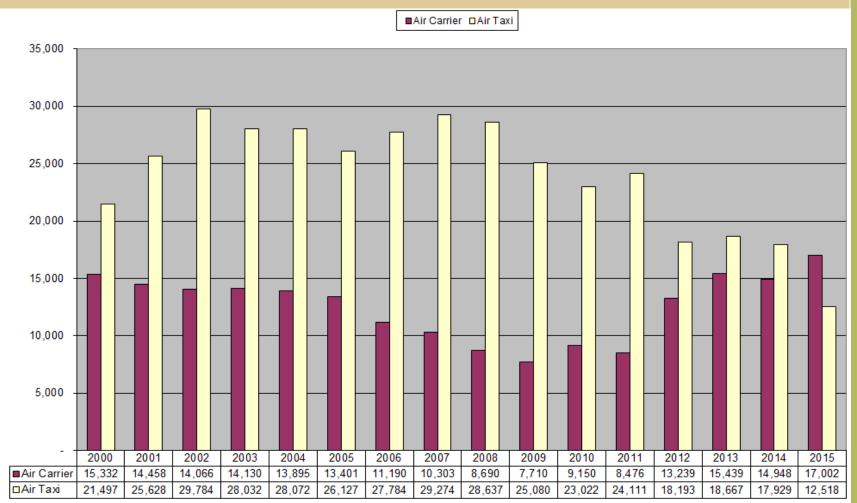


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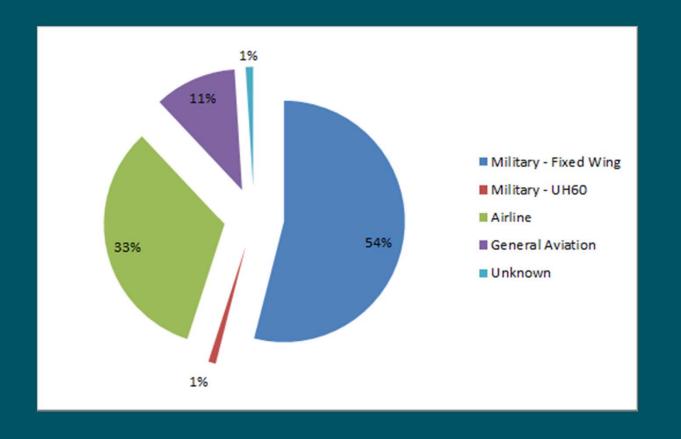
Air Carrier (A-320, B717) vs Air Taxi (CRJ, ERJ)

AC aircraft have 60 or more seats

AT aircraft have 59 seats or less









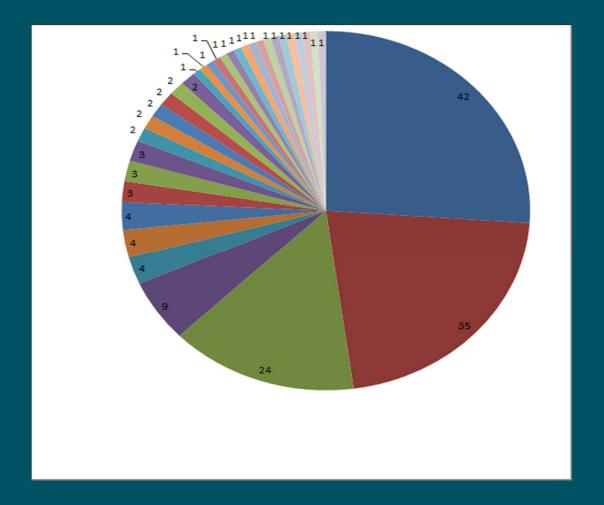
Complaints by Area

	OCT 15 -	OCT 15 - MAR 16		OCT 14 - MAR 15		
Area	Complaints	Callers	Complaints	Callers		
DeForest	42	1	144	1		
Madison	95	32	15	11		
Marshall	0	0	2	1		
Sun Prairie	24	1	2	2		
Total	161	34	163	15		



Complaints per Household

OCT15 - MAR 16

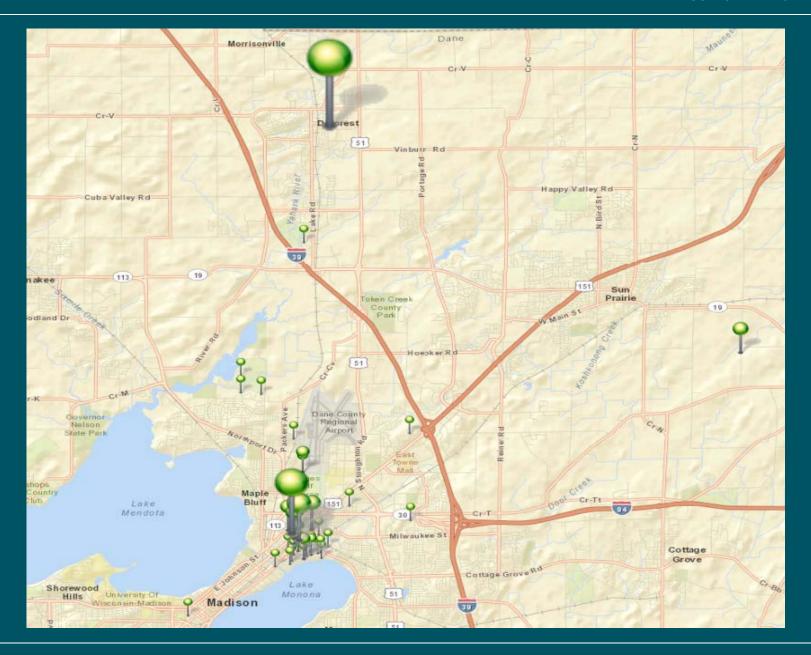




AREA	NUMBER OF CALLS
MADISON	95 (32 HOUSEHOLDS)
DEFOREST	42 (1 HOUSEHOLD)



COMPLAINT LOCATIONS





NOISE COMPLAINT CALLS

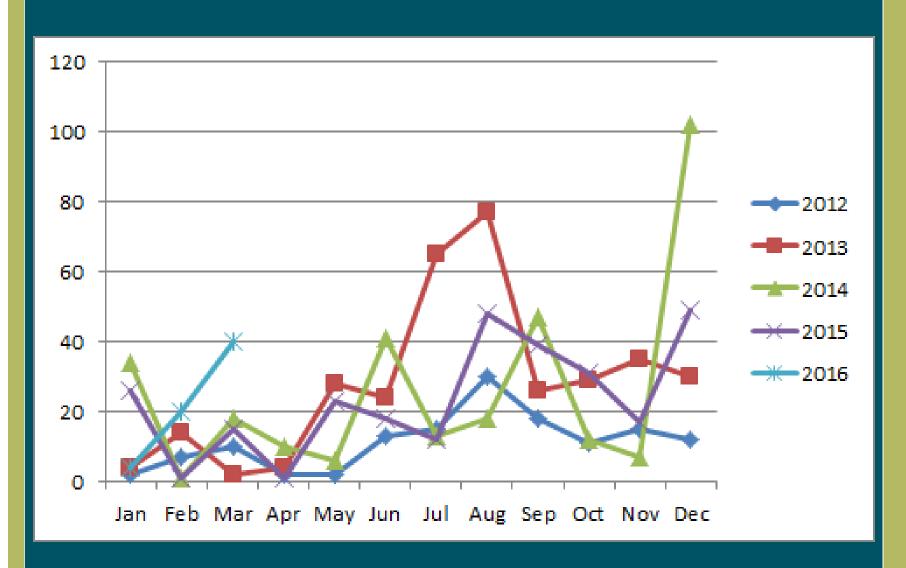
	ост	NOV	DEC	JAN	FEB	MAR	TOTAL
DAY	30	17	40	3	13	31	134
NIGHT	1	0	9	1	7	9	27
TOTAL	31	17	49	4	20	40	161



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2012 - 2016 Noise Complaint History

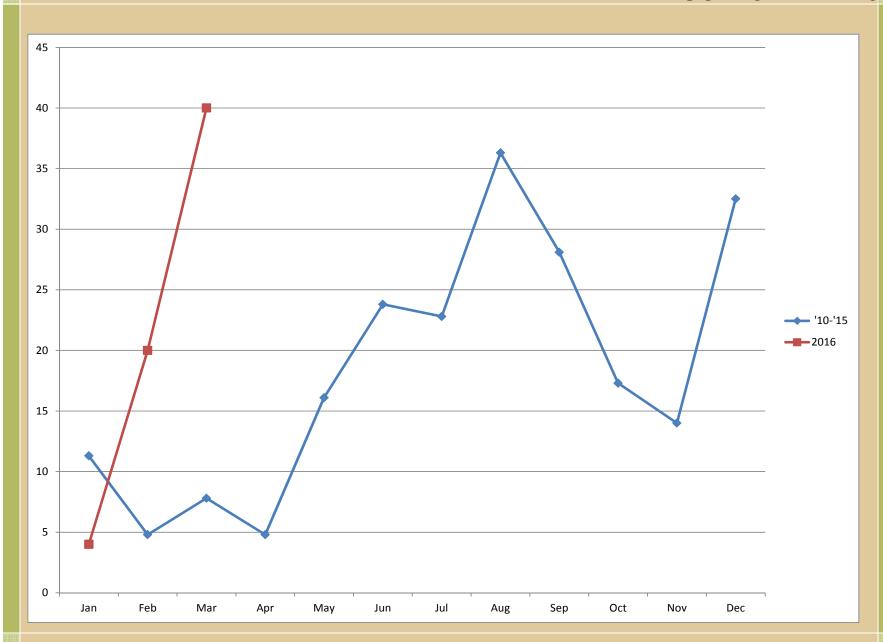
OCT 15 – MAR 16





NOISE COMPLAINT HISTORY

OCT 15 - MAR 16 13





COMPLAINT HISTORY

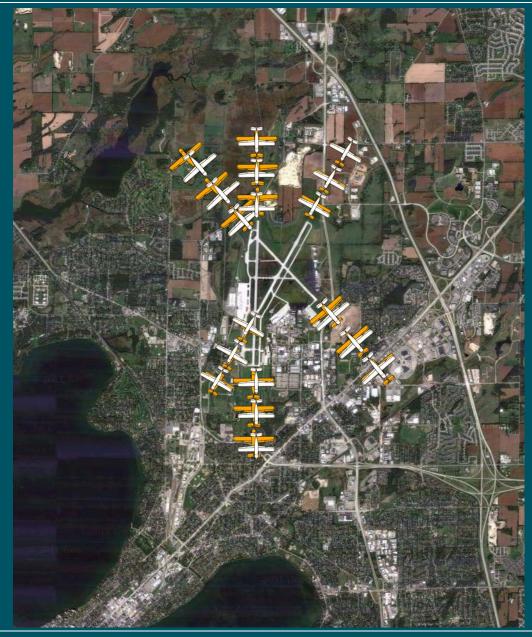
OCT 15 - MAR 16

15 16 O C T MM MM M M M M M G M M MA N O V G G G Μ MMM M Μ MMM M MMM M D E C MM MMM MMA MM M AAA MM AAMM AA AAA AAMM AAA AA AAA Α J A N Α M M Н FEB MM ННМ A G M A G G MMM MMM M A R М G MM A G M MM MM GGM Μ G MM MM Μ MA MM AAA AA AAA Α

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

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WIND CONDITIONS SUMMARY



- WWIPDS時報OMTH科州臣はめばず日
- •VISIBILITY
 GREATER THAN 3
 MILES
- •RUNWAY
 CONDITION IS DRY
- •PILOT COMPLIES WITH VOLUNTARY CONTRA FLOW OPERATION



Wisconsin Wind Data*

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	83.55%
VISIBILITY AT 5 STATUTE MILES OR LESS	10.29%
RUNWAYS CLOSED ²	18/36 = 46:30 3/21 = 220:45 14/32 = 257:15

 ^{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	38.77%
Aircraft observed arriving from the North	47.86%
Aircraft observed departing to the South	60.12%
Aircraft observed arriving from the South	52.30%

PASSUR FLIGHT TRACKING

5,633 operations recorded by Passur flight monitoring system



NOISE ABATEMENT COMPLIANCE AUDIT

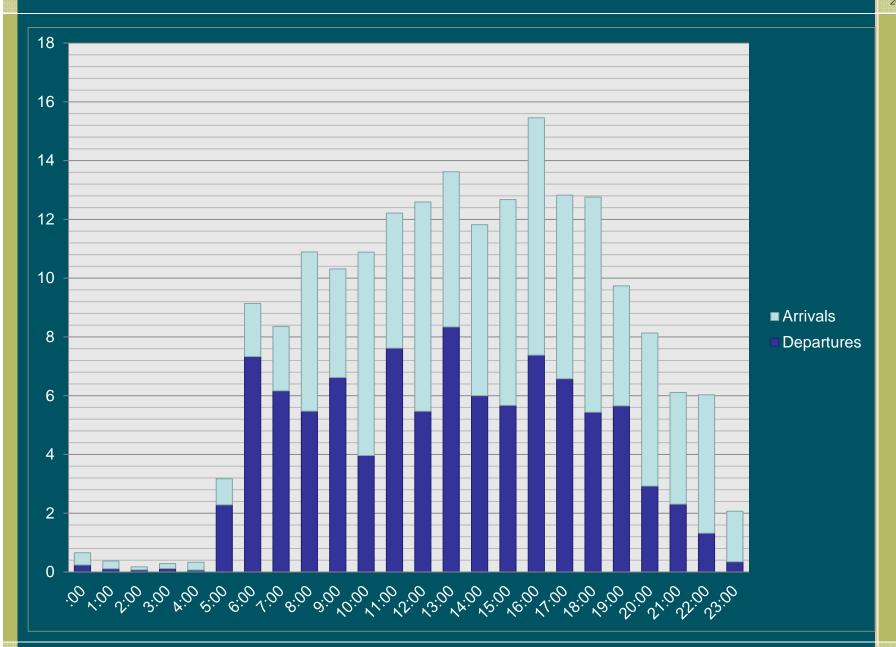
* * With 100% compliance of Noise Abatement Procedures, there are times aircraft are required depart to the south and arrive from the south. * *

RUNWAY USE FACTORS				
	Wind	Visibility	Ceiling	
South Departure	72.16%	13.86%	1.27%	
South Arrival	72.01%	8.10%	28.83%	

* * 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





CONTACT INFORMATION

24 Hour Aircraft Noise Line: 246-5841

Online Form: http://www.msnairport.com/community/noise.aspx

Madison Automated Weather: 249-0615



Questions?

