

Hanscom Field Advisory Commission

Wednesday, April 21, 2021, 7-8 p.m.

Location: Zoom video platform

<https://zoom.us/j/95621754230?pwd=b3A3UTJUR3I1U28ydW5WTVRtMi9xUT09>

Meeting: 956 2175 4230 Passcode: 194503 Ph: (646) 876 9923

Agenda

1. Call to order
2. Announcements
 - a. March HFAC recording: https://zoom.us/rec/share/zxniD3wQfeXUsdJKTD2duUUsR_NSpbik8AdoWsIqDmFYy9-BSBX3o3Hip1cmYfK5.Gj8HnHnwXcldHO23?startTime=1615934244000
 - b. Bill SD.1519 [Michael J. Barrett] An Act relative to the repeal of the sales tax exemption for aircraft (proposed every year)
 - c. <https://www.federalregister.gov/documents/2021/03/24/2021-06045/agency-information-collection-activities-requests-for-comments-clearance-of-a-new-approval-of> [ends 4/23/2021]
3. Reformation of the Commission
4. Approval of previous minutes
5. Questions for Massport
 - a. Can Massport test for lead in the soil at runway endpoints?
6. Recent noise reports, presented by Massport
 - a. Requested breakdown of complaints by operator/aircraft type
 - b. Heavy jet takeoff 3:30 am 3/30/2021
7. Capital projects, third-party development report, presented by Massport
8. ESPR Chapter 11: Sustainability and Environmental Management
9. Future developments in aviation
10. Citizen comments
11. Next meeting May 18, 2021
 - a. ESPR Chapter 1: Executive Summary
 - b. Community goals
12. Two Questions & Adjourn

Provisional Calendar

This calendar is provided for planning and information purposes only and is not part of the agenda. All items and dates are subject to change.

5/18/2021	1. ESPR Chapter 1: Executive Summary
6/15/2021	1. ESPR Chapter 2: Facilities & Infrastructure
7/20/2021	1. ESPR Chapter 3: Airport Activity Levels
	No august meeting
9/21/2021	1. ESPR Chapter 4: Airport Planning
10/19/2021	1. ESPR Chapter 5: Regional Transportation
11/16/2021	1. ESPR Chapter 6: Ground Transportation
12/21/2021	1. ESPR Chapter 7: Noise

Hanscom Field Advisory Commission
Minutes – 16 February 2021
Prepared by Massport Staff

- **Call to Order:** HFAC Chairman Christopher Eliot called the meeting to order at 7:01 p.m.
- **Announcements:**
 - Chairman Eliot opened meeting and reflected on passing of Lexington resident and HFAC member Hank Manz
 - Chairman Eliot discussed conversation with Hanscom Field Director Sharon Williams on if UL94 is a viable product today or in the near future as a replacement for 100LL and if there is a plan to replace leaded fuel at Hanscom
 - Welcomed Michael Vatalaro who replaces Anthony Gallagher as the Massport Community Relations representative
- **Monthly Noise Reports:** Amber Goodspeed presented the January Noise Report and noted that:
 - In January 2021 as compared to January 2020:
 - 7am - 11pm operations decreased 13.7% in January 2021
 - Singles (including touch and goes) decreased 14.0% in January 2021
 - Turbo activity decreased 36.9% in January 2021
 - Jet operations decreased 10.9% in January 2021
 - Helicopter activity decreased 6.8% in January 2021
 - Noise disturbance reports decreased from 228 in January 2020 to 204 in January 2021, made by 16 separate callers
- **Capital Programs and Third Party Development Reports:** Amber Goodspeed presented the Capital Programs and Third Party Development reports and noted that:
 - No updates since last HFAC meeting
 - Acknowledged request for Signature conceptual drawings to be presented to the HFAC
- **Agenda Items:** Topics discussed on published agenda:
 - Discussion of process and cost of soil testing for lead in local communities
 - Discussion on whether HFAC has authority to mandate change and a concurrence that recommendations only may be made
 - Proposal for Massport to send all complaint data to pilots and the FAA, instead of only nighttime complaints being sent to pilots
 - Discussion of ESPR Chapter 9: Wetlands, Wildlife & Water Resources
 - Proposed discussion of ESPR Chapter 10: Cultural and Historic Resources, the Airport Noise and Capacity Act (ANCA) of 1990 and Massachusetts General Law (MGL) Chapter 90, Section 35
- **Citizen Comments:** Citizens commented on and/or asked about the following topics:
 - Query about snow removal trucks on Hartwell and South roads operating on the nights of 11 and 12 Feb
 - Request for a list of tenants at Hanscom Field
 - Invitation of the FAA Community Engagement Officer to future HFAC meeting
- **Cargo or Scheduled Commercial Passenger Services**
 - No interest was expressed
- **Minutes:** The Board approved amendment to the December 2020 meeting minutes and approved January 2021 meeting minutes with clerical correction of month for HFAC meeting.
- **Other Business:** The proposed date for the next HFAC meeting is 16 March 2021 at 7:00 p.m. via Zoom
- **Adjournment:** The meeting adjourned at 8:32 p.m.

Attendees: Christopher Eliot, Margaret Coppe, Thomas Hirsch, Emily Mitchell, Amber Goodspeed, Michael Vatalaro, Mark Wimmer, Chris Boles, Jennifer Boles, Patty Dahlgren, Tammy Ford, Mark Gailus, Tanya Gailus, Gary Keller, Lexie Marshall, Amy McCoy, Heather Patterson, Alek Soderburg, Daniel Szetala and Devan Wiebe

Summary of Monthly Noise Report Comparison of January 2021 to 2020

Page 1: The total number of 7 a.m. to 11 p.m. operations decreased 13.7% in January 2021, as compared to January 2020. Singles (including touch-and-goes) decreased 14.0% compared to January 2020. Turbo activity decreased 36.9% while Jet activity decreased 10.9%. Helicopter activity had a 6.8% decrease in activity. Night activity decreased from 152 operations in January 2020, to 135 operations in January 2021.

Page 2: Civilian departure EXP, using the Aviation Environmental Design Tool (AEDT) Version 2d, was 105.6 decibels in January 2021.

Pages 3a-c: EXP using AEDT 2d calculations for January 2021 are on pages 3 a-c.

Page 4: The top graph provides a visual picture of the changes in departure EXP over the past 24 months, showing the ups and downs since January 2019 for civilian, military and total EXP. It demonstrates the wide variability in military departure EXP, which ranged from a low of 60.4 dB (December 2021) to 110.2 dB (August 2019). Civilian departure EXP ranged between a peak of 108.2 dB (May 2019) to a low of 101.0 dB (April 2020). Beginning in January 2020, AEDT 2d is being used to calculate noise values.

The bottom graph indicates trends since January 2016, with each point on the graph representing the interval average for the previous 12 months. The military interval average decreased from early 2016 until mid-2016, then increased through early 2018 and remained somewhat steady until a small decline at the end of 2018. A steady decrease occurred throughout 2019, dropping sharply at the end of 2020 after October. The civilian interval average does not demonstrate the pronounced ups and downs seen in the military interval average, but it demonstrates a downward to even trend from 2016 through 2019. There was a steeper downward trend throughout 2020.

Page 5: There was a decrease in noise disturbance reports from 228 in January 2020 to 204 in January 2021, made by 16 separate callers.

Page 6: In January 2021, when compared to January 2020, there was a decrease in DNL of 2.2 dB at Site 31 (Airfield), an increase of 0.6 dB at Site 32 (Airfield), a decrease of 1.9 dB at Site 33 (Lincoln), a decrease of 0.4 dB at Site 34 (Bedford), an increase of 3.2 dB at Site 35 (Lexington) and an increase of 1.1 dB at Site 36 (Concord). There was one day that had a DNL above 70 in January, site 35 in Lexington on January 6 due to community noise. Site 34 was inoperable January 1-5 & 30, due to a loose power cable that was repaired on February 2nd. The remaining monitors were 100% operational throughout the month.

2021 - to - DATE PRELIMINARY REPORT
 (All data is reviewed for the Annual Noise Report--data for 2020-2021 may be adjusted.)

Prepared February 202

MONTHLY STATISTICS REPORT - HANSCOM FIELD

2020

FROM FAA TOWER REPORTS & ESTIMATES (7 A.M.-11 P.M)

	CIVILIAN						MILITARY	TOTAL
	LOCAL	SINGLES	TWIN PISTON	TURBO	JET	HELI		
January	3167	1704	232	523	2461	774	43	8,904
February	3124	1769	246	446	2640	715	58	8,998
March	2515	1371	253	369	2224	737	38	7,507
April	624	102	177	150	605	640	60	2,358
May	717	446	217	271	1167	776	58	3,652
June	2970	1841	338	533	1654	787	16	8,139
July	4286	2615	303	601	1628	808	32	10,273
August	4608	2913	358	556	1840	809	39	11,123
September	4154	2726	370	647	1793	807	74	10,571
October	3754	2271	357	538	2057	790	93	9,860
November	3566	2498	329	428	2077	738	43	9,679
December	2998	1807	283	429	2374	755	15	8,661
TOTAL	36,483	22,063	3,463	5,491	22,520	9,136	569	99,725

Note: The 2020 figures are preliminary. All 2020 data will be reviewed before publication of the 2020 annual noise report.

2021

FROM FAA TOWER REPORTS & ESTIMATES (7 A.M.-11 P.M)

	CIVILIAN						MILITARY	TOTAL
	LOCAL	SINGLES	TWIN PISTON	TURBO	JET	HELI		
January	2780	1410	223	330	2193	721	28	7,685
February	0	0	0	0	0	0	0	0
March	0	0	0	0	0	0	0	0
April	0	0	0	0	0	0	0	0
May	0	0	0	0	0	0	0	0
June	0	0	0	0	0	0	0	0
July	0	0	0	0	0	0	0	0
August	0	0	0	0	0	0	0	0
September	0	0	0	0	0	0	0	0
October	0	0	0	0	0	0	0	0
November	0	0	0	0	0	0	0	0
December	0	0	0	0	0	0	0	0
TOTAL	2,780	1,410	223	330	2,193	721	28	7,685

Note: The 2021 figures are preliminary. All 2021 data will be reviewed before publication of the 2021 annual noise report.

NIGHT OPERATIONS (11 p.m.-7 a.m.)

	2015	2016	2017	2018	2019	2020	2021	2021 EXMPT
	(inc. exempt)	(inc. exempt)	(inc. exempt)	(inc. exempt)	(inc. exempt)	(inc. exempt)	(inc. exempt)	
January	150	152	167	207	187	152	135	55
February	164	142	182	213	194	163	0	0
March	166	149	171	206	184	122	0	0
April	189	189	175	187	214	49	0	0
May	200	148	224	224	240	65	0	0
June	176	175	190	217	192	110	0	0
July	180	154	205	196	228	132	0	0
August	152	181	150	182	172	151	0	0
September	178	172	184	186	211	147	0	0
October	191	220	214	277	227	170	0	0
November	171	189	213	206	243	123	0	0
December	141	170	151	158	184	111	0	0
TOTAL TO-DATE	2058	2041	2226	2459	2476	1495	135	55
Exempt includes: Medical emergency, FAA, CAP, military, & based operators with ATC, mechanical, or weather delays								

NOISE DISTURBANCE REPORTS

	2015	2016	2017	2018	2019	2020	2021
January	14	55	24	30	67	228	204
February	14	28	33	29	58	246	
March	22	23	22	35	147	166	
April	30	23	43	29	221	62	
May	56	34	46	64	228	54	
June	36	73	99	58	301	146	
July	39	29	60	56	197	141	
August	50	46	111	73	168	104	
September	61	39	58	70	214	315	
October	35	30	50	82	237	159	
November	37	27	40	59	259	219	
December	33	20	14	62	157	179	
TOTAL TO-DATE	427	427	600	647	2,254	2,019	204

CIVILIAN DEPARTURE EXP COMPARISON

	2009	2010	2011	2012	2013	2014	2015
Jan.	108.2 dB	109.6 dB	109.6 dB	107.8 dB	107.7 dB	107.6 dB	107.3 dB
Feb.	108.1 dB	108.9 dB	110.1 dB	109.5 dB	108.5 dB	108.3 dB	107.8 dB
Mar.	110.6 dB	109.5 dB	109.3 dB	109.5 dB	107.8 dB	108.0 dB	108.1 dB
Apr.	110.5 dB	110.3 dB	109.2 dB	109.2 dB	108.7 dB	108.1 dB	108.4 dB
May	109.9 dB	110.4 dB	109.6 dB	108.7 dB	108.4 dB	109.0 dB	108.2 dB
June	109.1 dB	109.3 dB	109.1 dB	108.6 dB	109.7 dB	108.0 dB	108.1 dB
July	109.1 dB	108.4 dB	108.2 dB	107.6 dB	108.3 dB	107.8 dB	108.0 dB
Aug.	108.4 dB	108.4 dB	108.5 dB	108.2 dB	108.3 dB	107.6 dB	108.0 dB
Sept.	108.9 dB	109.0 dB	110.2 dB	108.4 dB	108.6 dB	109.1 dB	108.0 dB
Oct.	109.0 dB	109.1 dB	108.6 dB	108.5 dB	109.4 dB	109.0 dB	108.3 dB
Nov.	108.9 dB	109.3 dB	108.8 dB	109.1 dB	108.6 dB	108.3 dB	108.9 dB
Dec.	109.1 dB	108.8 dB	107.5 dB	107.2 dB	108.7 dB	107.6 dB	107.6 dB
ANNUAL EXP	109.2 dB	109.3 dB	109.1 dB	108.5 dB	108.6 dB	108.2 dB	108.0 dB
ANNUAL OPERATIONS	149,911	163,737	162,999	166,214	154,251	134,295	128,249

CIVILIAN DEPARTURE EXP COMPARISON

	2016	2017	2018	2019	2020	2021	2020-2021 Difference
Jan.	107.9 dB	107.3 dB	106.8 dB*	106.7 dB*	106.2 dB*	105.6 dB*	-0.6 dB*
Feb.	107.6 dB	107.6 dB	107.3 dB*	107.1 dB*	107.2 dB*	dB*	dB*
Mar.	107.5 dB	107.7 dB	107.9 dB*	107.1 dB*	105.7 dB*	dB*	dB*
Apr.	107.7 dB	108.4 dB	107.2 dB*	107.5 dB*	101.0 dB*	dB*	dB*
May	107.8 dB	107.8 dB*	107.9 dB*	108.2 dB*	105.1 dB*	dB*	dB*
June	108.2 dB	107.8 dB*	107.6 dB*	108.1 dB*	105.1 dB*	dB*	dB*
July	106.8 dB	106.7 dB*	106.7 dB*	108.0 dB*	105.7 dB*	dB*	dB*
Aug.	107.5 dB	106.2 dB*	106.3 dB*	106.8 dB*	106.0 dB*	dB*	dB*
Sept.	108.1 dB	107.5 dB*	107.1 dB*	107.4 dB*	105.9 dB*	dB*	dB*
Oct.	108.2 dB	107.4 dB*	107.9 dB*	107.6 dB*	106.3 dB*	dB*	dB*
Nov.	108.7 dB	107.2 dB*	107.3 dB*	107.2 dB*	106.1 dB*	dB*	dB*
Dec.	107.7 dB	106.4 dB*	106.7 dB*	106.8 dB*	106.7 dB*	dB*	dB*
ANNUAL EXP	107.3 dB	107.2 dB	107.2 dB*	107.4 dB	105.6 dB	105.6 dB	
ANNUAL OPERATIONS	122,027	128,598	121,661	128,681	99,725	7,685	

* Beginning in Jan 2020, AEDT 2d is used to calculate SEL values

EXP for 1/1/2021 through 1/31/2021

2/11/2021 11:08:53 AM

Group Number	Stage	Rep Type	Cat ID	Sector	Departures					Arrivals					Partial EXP
					SEL	Day	10 PM to 11 PM	11 PM to 7 AM	EXP	SEL	Day	10 PM to 11 PM	11 PM to 7 AM	EXP	
1	9	C525, C500, C501	J	CIV	87.10	1.77	0.03	0.06	91.48	85.50	1.68	0.00	0.19	91.08	94.29
2	9	C560	J	CIV	89.00	1.16	0.00	0.00	89.65	86.60	1.13	0.00	0.03	88.22	92.00
2M	9	UC-35 [MIL]	J	MIL	89.00	0.03	0.00	0.00	74.09	86.60	0.03	0.00	0.00	71.69	76.06
3	9	LJ35, LJ45, H25B, H25	J	CIV	91.10	4.77	0.03	0.06	98.69	88.20	4.77	0.03	0.06	95.79	100.49
3M	9	C-21 [MIL]	J	MIL	91.10	0.10	0.00	0.00	80.96	88.20	0.10	0.00	0.00	78.06	82.76
4	9	DA02	J	CIV	95.50	0.00	0.00	0.00	0.00	98.90	0.00	0.00	0.00	0.00	0.00
4M	9	HU25 [MIL]	J	MIL	95.50	0.00	0.00	0.00	0.00	98.90	0.00	0.00	0.00	0.00	0.00
5	9	LJ25, LJ24, H25A	J	CIV	104.90	0.13	0.00	0.00	96.01	99.80	0.13	0.00	0.00	90.91	97.18
5M	9	T-37, T38 [MIL]	J	MIL	104.90	0.03	0.00	0.00	89.99	99.80	0.03	0.00	0.00	84.89	91.16
6	9	BAC-111	J	CIV	96.10	0.00	0.00	0.00	0.00	99.90	0.00	0.00	0.00	0.00	0.00
7	9	GLF3	J	CIV	81.80	0.10	0.00	0.00	71.66	88.20	0.06	0.03	0.00	84.08	84.32
7M	9	GLF3 [MIL]	J	MIL	81.80	0.00	0.00	0.00	0.00	88.20	0.00	0.00	0.00	0.00	0.00
8	9	GLF4	J	CIV	81.80	2.03	0.00	0.13	87.01	88.20	2.06	0.00	0.10	93.02	93.99
8M	9	C20B, GLF4 [MIL]	J	MIL	81.80	0.00	0.00	0.00	0.00	88.20	0.00	0.00	0.00	0.00	0.00
9	9	CL30, CL60, CRJ1	J	CIV	86.60	5.39	0.03	0.19	95.43	87.60	5.26	0.16	0.19	97.05	99.33
10	9	CL61, CRJ2, CRJ7	J	CIV	84.30	0.55	0.00	0.06	85.07	88.40	0.58	0.00	0.03	87.96	89.76
11	9	Unknown/Misc. Jets	J	CIV	95.80	0.06	0.00	0.00	83.90	88.70	0.06	0.00	0.00	76.80	84.67
11M	9	Unknown/Misc. Jets [MI	J	MIL	100.20	0.00	0.00	0.00	0.00	92.20	0.00	0.00	0.00	0.00	0.00
13	9	C141 [MIL]-OBSOLETE	J	MIL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14	9	DC-9	J	CIV	94.60	0.00	0.00	0.00	0.00	92.30	0.00	0.00	0.00	0.00	0.00
14M	9	C9, T-43 [MIL]	J	MIL	99.20	0.00	0.00	0.00	0.00	94.20	0.00	0.00	0.00	0.00	0.00
15	9	B707-OBSOLETE	J	CIV	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15M	9	C-5A, KC-135 [MIL]	J	MIL	103.50	0.00	0.00	0.00	0.00	107.80	0.00	0.00	0.00	0.00	0.00
17	9	Helicopters	H	CIV	83.50	11.30	0.23	0.35	95.83	87.90	11.72	0.00	0.16	99.15	100.81
17M	9	Helicopters [MIL]	H	MIL	89.40	0.00	0.00	0.00	0.00	89.20	0.00	0.00	0.00	0.00	0.00
18	9	C130, Hvy Turboprops	T	CIV	92.50	0.00	0.00	0.00	0.00	95.80	0.00	0.00	0.00	0.00	0.00
18M	9	C130, P3 [MIL]	T	MIL	92.50	0.10	0.00	0.00	82.36	95.80	0.10	0.00	0.00	85.66	87.32
19	9	C441, Twin Turboprops	T	CIV	75.30	0.56	0.00	0.10	77.15	84.10	0.60	0.00	0.06	85.04	85.70
19M	9	C12 [MIL turboprops]	T	MIL	75.30	0.00	0.00	0.00	0.00	84.10	0.00	0.00	0.00	0.00	0.00
20	9	Twin-engine Piston	W	CIV	82.70	3.60	0.00	0.00	88.26	85.90	3.60	0.00	0.00	91.46	93.16

EXP for 1/1/2021 through 1/31/2021

2/11/2021 11:08:54 AM

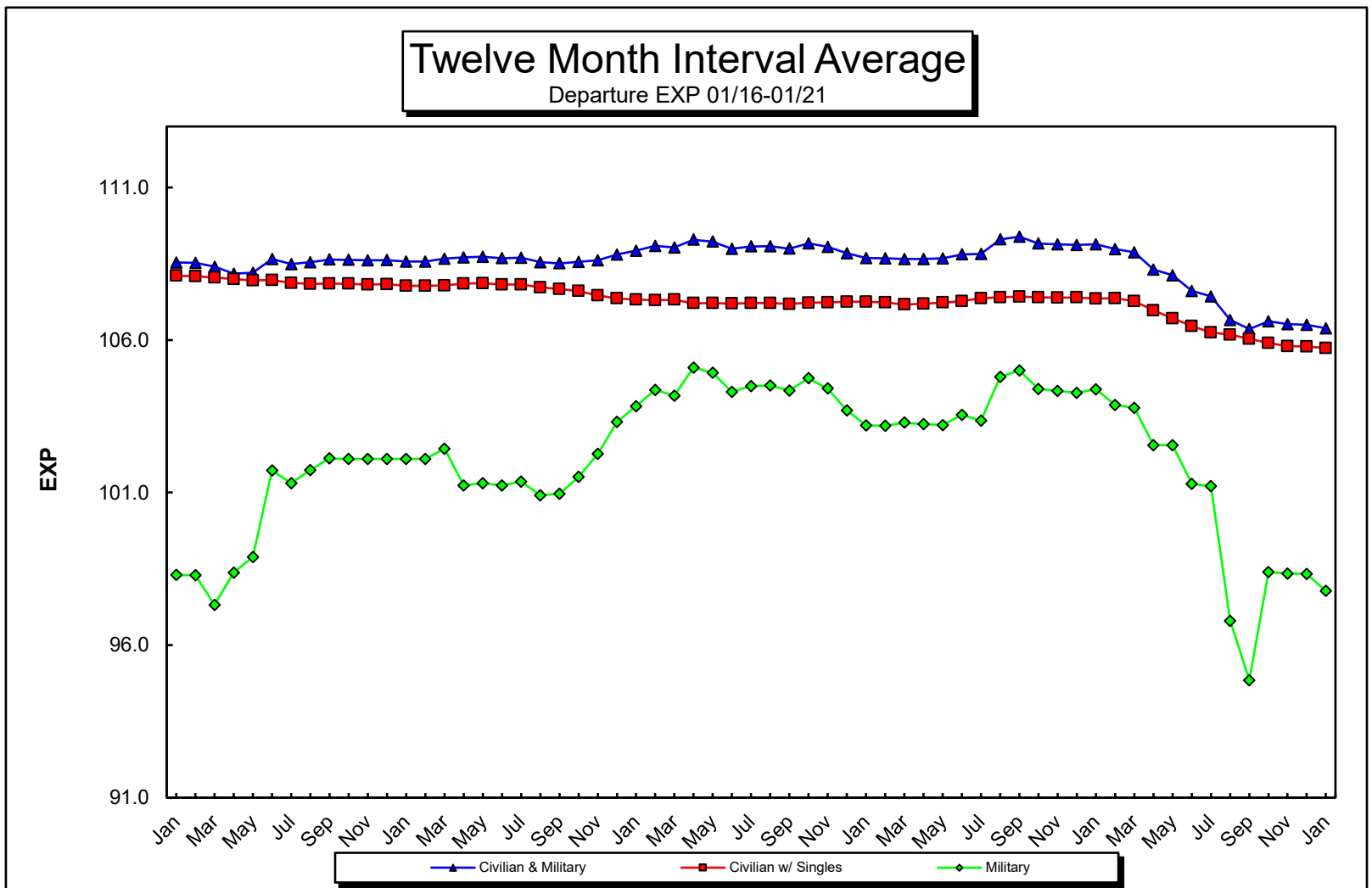
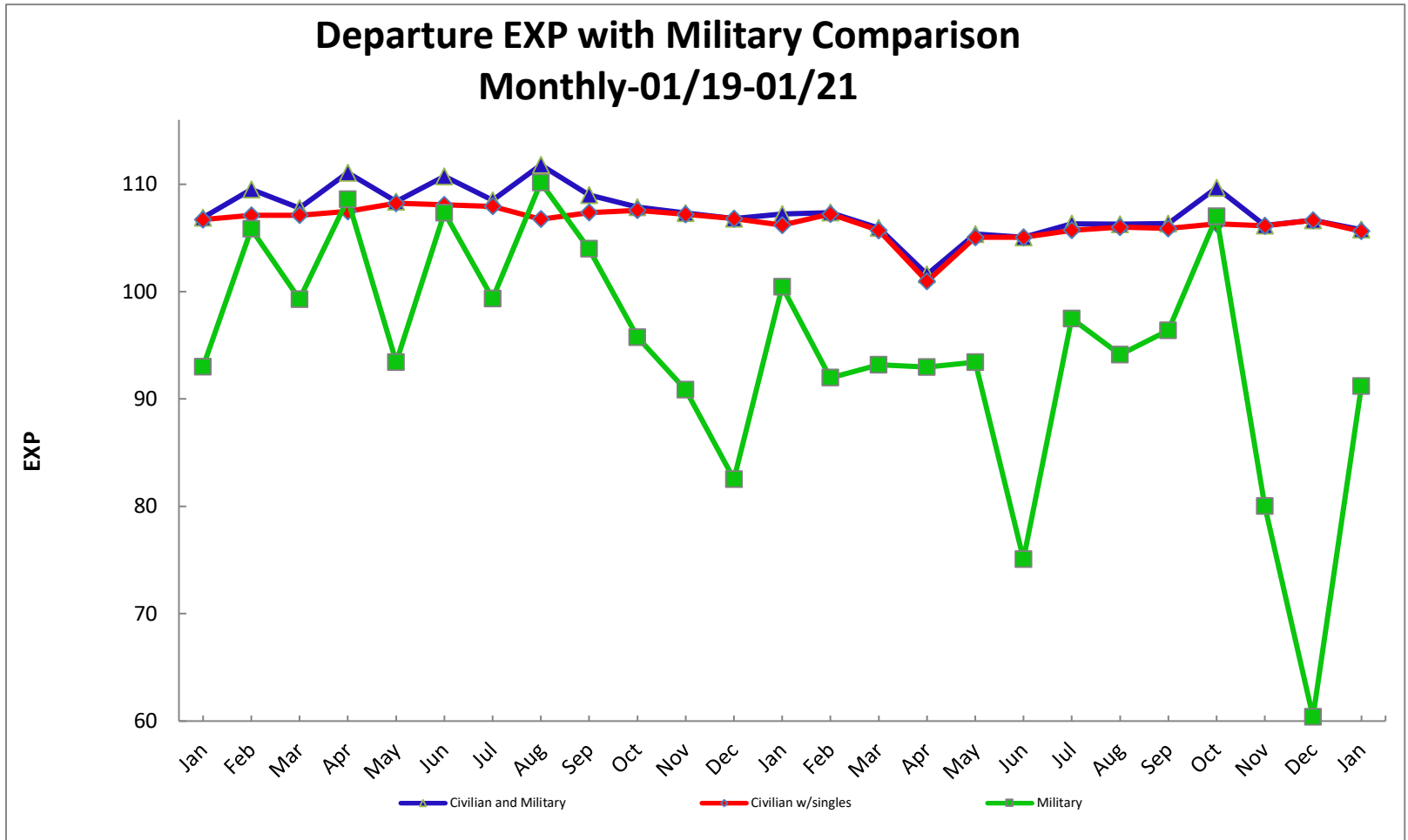
Group Number	Stage	Rep Type	Cat ID	Sector	Departures					Arrivals					Partial EXP
					SEL	Day	10 PM to 11 PM	11 PM to 7 AM	EXP	SEL	Day	10 PM to 11 PM	11 PM to 7 AM	EXP	
20M	9	Twin-engine Piston [MIL	W	MIL	82.70	0.00	0.00	0.00	0.00	85.90	0.00	0.00	0.00	0.00	0.00
21	9	SINGLES (includes local	S	CIV	78.90	70.38	0.06	0.26	97.57	81.90	70.51	0.00	0.19	100.50	102.29
21M	9	SINGLES [MIL]	S	MIL	78.90	0.00	0.00	0.00	0.00	81.90	0.00	0.00	0.00	0.00	0.00
22	9	ASTR, G150, G280, W	J	CIV	90.80	0.35	0.00	0.00	86.30	84.80	0.32	0.03	0.00	82.90	87.93
24	9	A10, EA6, F16 etc. [MIL]	J	MIL	116.00	0.00	0.00	0.00	0.00	93.40	0.00	0.00	0.00	0.00	0.00
25	9	C650	J	CIV	88.60	0.13	0.00	0.00	79.71	84.90	0.13	0.00	0.00	76.01	81.25
26	9	F2TH, F900, FA50, FA7	J	CIV	81.70	2.23	0.03	0.06	86.74	92.30	2.10	0.06	0.16	98.69	98.96
28M	9	DC3 [MIL]	W	MIL	94.80	0.00	0.00	0.00	0.00	98.10	0.00	0.00	0.00	0.00	0.00
29	9	B190, E120, D238	T	CIV	76.50	0.00	0.00	0.00	0.00	89.60	0.00	0.00	0.00	0.00	0.00
30	9	SF34	T	CIV	77.30	0.00	0.00	0.00	0.00	86.20	0.00	0.00	0.00	0.00	0.00
31	9	B727-ST2-OBSOLETE	J	CIV	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
32	9	B727-ST3	J	CIV	103.40	0.00	0.00	0.00	0.00	97.00	0.00	0.00	0.00	0.00	0.00
33	9	BE20, BE30, DHC6, SW	T	CIV	82.10	1.84	0.00	0.06	86.05	93.50	1.81	0.06	0.03	97.93	98.20
34	9	B737 Hushkit	J	CIV	95.50	0.00	0.00	0.00	0.00	93.80	0.00	0.00	0.00	0.00	0.00
35	9	DH8	J	CIV	70.70	0.00	0.00	0.00	0.00	82.80	0.00	0.00	0.00	0.00	0.00
36	9	A319, A320, A321	J	CIV	86.90	0.06	0.00	0.00	75.00	93.10	0.06	0.00	0.00	81.20	82.13
37	9	GLF5, GLF6	J	CIV	86.20	0.94	0.00	0.03	87.20	88.70	0.94	0.00	0.03	89.70	91.63
37M	9	C37, GLF5 [MIL]	J	MIL	86.20	0.00	0.00	0.00	0.00	88.70	0.00	0.00	0.00	0.00	0.00
39	9	GLF2	J	CIV	97.10	0.06	0.00	0.00	85.20	92.70	0.06	0.00	0.00	80.80	86.54
40	9	C750, GALX, HA4T, J32	J	CIV	81.70	2.87	0.03	0.13	88.22	92.30	2.90	0.03	0.10	98.53	98.91
41	9	B737	J	CIV	89.50	0.39	0.03	0.00	88.01	94.40	0.35	0.03	0.03	94.40	95.30
42	9	B757	J	CIV	88.20	0.13	0.00	0.06	87.09	93.40	0.06	0.03	0.10	94.72	95.41
43	9	C550, E55P, PRM1	V	CIV	83.00	2.84	0.00	0.06	88.42	90.00	2.84	0.03	0.03	95.42	96.21
44	9	C56X	J	CIV	81.40	3.29	0.00	0.00	86.57	91.20	3.16	0.13	0.00	97.69	98.01
45	9	BE40, MU30	J	CIV	91.70	1.16	0.00	0.00	92.35	87.10	1.16	0.00	0.00	87.75	93.64
46	9	C680	J	CIV	84.60	2.58	0.00	0.00	88.72	88.20	2.55	0.00	0.03	92.78	94.22
47	9	E135, E145	J	CIV	79.70	0.32	0.00	0.00	74.79	89.30	0.29	0.03	0.00	87.17	87.42
48	9	BD70, GL5T, GLEX	J	CIV	78.90	1.58	0.06	0.00	82.37	90.10	1.48	0.03	0.13	95.01	95.24
49	9	C510, E500, E50P	V	CIV	82.90	0.13	0.00	0.03	79.45	85.70	0.13	0.00	0.03	82.25	84.08
50	9	EA50	V	CIV	74.50	0.26	0.00	0.00	68.62	79.00	0.26	0.00	0.00	73.12	74.44

EXP for 1/1/2021 through 1/31/2021

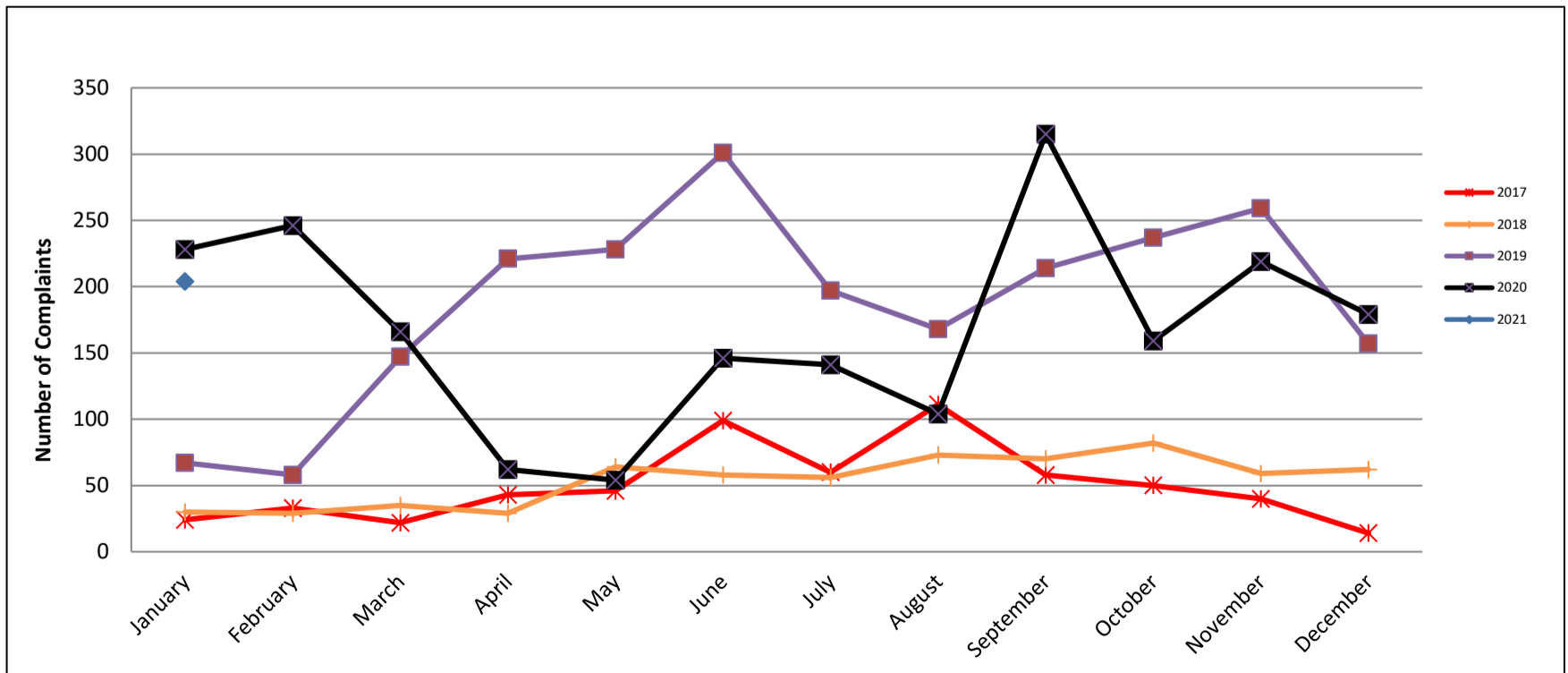
2/11/2021 11:08:54 AM

Group Number	Stage	Rep Type	Cat ID	Sector	Departures				Arrivals				Partial EXP		
					SEL	Day	10 PM to 11 PM	11 PM to 7 AM	EXP	SEL	Day	10 PM to 11 PM		11 PM to 7 AM	EXP
Civil Aircraft-Excluding Singles						52.59	0.48	1.42	104.89		52.27	0.71	1.52	108.36	109.97
Civil Aircraft						122.97	0.55	1.68	105.63		122.77	0.71	1.71	109.02	110.65
Military Aircraft						0.26	0.00	0.00	91.20		0.26	0.00	0.00	88.78	93.17
All Aircraft- Excluding Singles						52.85	0.48	1.42	105.07		52.53	0.71	1.52	108.40	110.06
All Aircraft						123.23	0.55	1.68	105.78		123.03	0.71	1.71	109.06	110.73
						Local	Single	Twin	Turbo	Jet	V Jet	Heli	Mil	Total	
Total Operations						2,780	1,410	223	330	2,115	78	721	28	7,685	

* The value for singles does not include local flights



NOISE DISTURBANCE REPORTS						January Complaints	
	2017	2018	2019	2020	2021	Individuals	Multiples
January	24	30	67	228	204	Resident 1	74
February	33	29	58	246		Resident 2	39
March	22	35	147	166		Resident 3	22
April	43	29	221	62		Resident 4	15
May	46	64	228	54		Resident 5	11
June	99	58	301	146		Resident 6	9
July	60	56	197	141		Resident 7	8
August	111	73	168	104		Resident 8	7
September	58	70	214	315		Resident 9	6
October	50	82	237	159		Resident 10	3
November	40	59	259	219		Resident 11-14	8
December	14	62	157	179		Resident 15-16	2
					TOTAL-TO-DATE	204	
						TOTAL	16
						Multiples:	99%
						City	Number of Callers
						Ayer	2
						Bedford	6
						Chelmsford	1
						Concord	1
						Groton	1
						Lexington	1
						Lincoln	2
						Needham	1
						Winchester	1
						Totals:	16



Summary of Monthly Noise Report Comparison of February 2021 to 2020

Page 1: The total number of 7 a.m. to 11 p.m. operations decreased 28.0% in February 2021, as compared to February 2020. Singles (including touch-and-goes) decreased 32.4% compared to February 2020. Turbo activity decreased 29.6% while Jet activity decreased 26.2%. Helicopter activity had an 11.6% decrease in activity. Night activity decreased from 163 operations in February 2020, to 114 operations in February 2021.

Page 2: Civilian departure EXP, using the Aviation Environmental Design Tool (AEDT) Version 2d, was 105.2 decibels in February 2021.

Pages 3a-c: EXP using AEDT 2d calculations for February 2021 are on pages 3 a-c.

Page 4: The top graph provides a visual picture of the changes in departure EXP over the past 24 months, showing the ups and downs since February 2019 for civilian, military and total EXP. It demonstrates the wide variability in military departure EXP, which ranged from a low of 60.4 dB (December 2021) to 110.2 dB (August 2019). Civilian departure EXP ranged between a peak of 108.2 dB (May 2019) to a low of 101.0 dB (April 2020). Beginning in January 2020, AEDT 2d is being used to calculate noise values.

The bottom graph indicates trends since February 2016, with each point on the graph representing the interval average for the previous 12 months. The military interval average decreased from early 2016 until mid-2016, then increased through early 2018 and remained somewhat steady until a small decline at the end of 2018. A steady decrease occurred throughout 2019, dropping sharply at the end of 2020 after October. The civilian interval average does not demonstrate the pronounced ups and downs seen in the military interval average, but it demonstrates a downward to even trend from 2016 through 2019. There was a steeper downward trend throughout 2020.

Page 5: There was a decrease in noise disturbance reports from 246 in February 2020 to 129 in February 2021, made by 17 separate callers.

Page 6: In February 2021, when compared to February 2020, there was a decrease in DNL of 3.4 dB at Site 31 (Airfield), an increase of 0.2 dB at Site 32 (Airfield), a decrease of 3.0 dB at Site 33 (Lincoln), a decrease of 1.1 dB at Site 34 (Bedford), a decrease of 0.8 dB at Site 35 (Lexington) and a decrease of 0.5 dB at Site 36 (Concord). There was one day that had a DNL above 70 in February, Site 32 on February 25th. Site 34 was inoperable February 1-2, due to a loose power cable that has been repaired. The remaining monitors were 100% operational throughout the month.

Summary of Monthly Noise Report Comparison of February 2021 to 2020

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2021 - to - DATE PRELIMINARY REPORT
 (All data is reviewed for the Annual Noise Report--data for 2020-2021 may be adjusted.)

MONTHLY STATISTICS REPORT - HANSCOM FIELD

2020 FROM FAA TOWER REPORTS & ESTIMATES (7 A.M.-11 P.M.)								
MONTH	CIVILIAN						MILITARY	TOTAL
	LOCAL	SINGLES	TWIN PISTON	TURBO	JET	HELI		
January	3167	1704	232	523	2461	774	43	8,904
February	3124	1769	246	446	2640	715	58	8,998
March	2515	1371	253	369	2224	737	38	7,507
April	624	102	177	150	605	640	60	2,358
May	717	446	217	271	1167	776	58	3,652
June	2970	1841	338	533	1654	787	16	8,139
July	4286	2615	303	601	1628	808	32	10,273
August	4608	2913	358	556	1840	809	39	11,123
September	4154	2726	370	647	1793	807	74	10,571
October	3754	2271	357	538	2057	790	93	9,860
November	3566	2498	329	428	2077	738	43	9,679
December	2998	1807	283	429	2374	755	15	8,661
TOTAL	36,483	22,063	3,463	5,491	22,520	9,136	569	99,725

Note: The 2020 figures are preliminary. All 2020 data will be reviewed before publication of the 2020 annual noise report.

2021 FROM FAA TOWER REPORTS & ESTIMATES (7 A.M.-11 P.M.)								
MONTH	CIVILIAN						MILITARY	TOTAL
	LOCAL	SINGLES	TWIN PISTON	TURBO	JET	HELI		
January	2780	1410	223	330	2193	721	28	7,685
February	2174	1133	231	314	1949	632	47	6,480
March	0	0	0	0	0	0	0	0
April	0	0	0	0	0	0	0	0
May	0	0	0	0	0	0	0	0
June	0	0	0	0	0	0	0	0
July	0	0	0	0	0	0	0	0
August	0	0	0	0	0	0	0	0
September	0	0	0	0	0	0	0	0
October	0	0	0	0	0	0	0	0
November	0	0	0	0	0	0	0	0
December	0	0	0	0	0	0	0	0
TOTAL TO-DATE	4,954	2,543	454	644	4,142	1,353	75	14,165

Note: The 2021 figures are preliminary. All 2021 data will be reviewed before publication of the 2021 annual noise report.

NIGHT OPERATIONS (11 p.m.-7 a.m.)

MONTH	2015	2016	2017	2018	2019	2020	2021	2021 EXMPT
	(inc. exempt)	(inc. exempt)	(inc. exempt)	(inc. exempt)	(inc. exempt)	(inc. exempt)	(inc. exempt)	
January	150	152	167	207	187	152	135	55
February	164	142	182	213	194	163	114	40
March	166	149	171	206	184	122	0	0
April	189	189	175	187	214	49	0	0
May	200	148	224	224	240	65	0	0
June	176	175	190	217	192	110	0	0
July	180	154	205	196	228	132	0	0
August	152	181	150	182	172	151	0	0
September	178	172	184	186	211	147	0	0
October	191	220	214	277	227	170	0	0
November	171	189	213	206	243	123	0	0
December	141	170	151	158	184	111	0	0
TOTAL TO-DATE	2058	2041	2226	2459	2476	1495	249	95
Exempt includes: Medical emergency, FAA, CAP, military, & based operators with ATC, mechanical, or weather delays								

NOISE DISTURBANCE REPORTS

MONTH	2015	2016	2017	2018	2019	2020	2021
January	14	55	24	30	67	228	204
February	14	28	33	29	58	246	129
March	22	23	22	35	147	166	
April	30	23	43	29	221	62	
May	56	34	46	64	228	54	
June	36	73	99	58	301	146	
July	39	29	60	56	197	141	
August	50	46	111	73	168	104	
September	61	39	58	70	214	315	
October	35	30	50	82	237	159	
November	37	27	40	59	259	219	
December	33	20	14	62	157	179	
TOTAL TO-DATE	427	427	600	647	2,254	2,019	333

CIVILIAN DEPARTURE EXP COMPARISON

Month	2009	2010	2011	2012	2013	2014	2015
Jan	108.2 dB	109.6 dB	109.6 dB	107.8 dB	107.7 dB	107.6 dB	107.3 dB
Feb	108.1 dB	108.9 dB	110.1 dB	109.5 dB	108.5 dB	108.3 dB	107.8 dB
Mar	110.6 dB	109.5 dB	109.3 dB	109.5 dB	107.8 dB	108.0 dB	108.1 dB
Apr	110.5 dB	110.3 dB	109.2 dB	109.2 dB	108.7 dB	108.1 dB	108.4 dB
May	109.9 dB	110.4 dB	109.6 dB	108.7 dB	108.4 dB	109.0 dB	108.2 dB
June	109.1 dB	109.3 dB	109.1 dB	108.6 dB	109.7 dB	108.0 dB	108.1 dB
July	109.1 dB	108.4 dB	108.2 dB	107.6 dB	108.3 dB	107.8 dB	108.0 dB
Aug	108.4 dB	108.4 dB	108.5 dB	108.2 dB	108.3 dB	107.6 dB	108.0 dB
Sept	108.9 dB	109.0 dB	110.2 dB	108.4 dB	108.6 dB	109.1 dB	108.0 dB
Oct	109.0 dB	109.1 dB	108.6 dB	108.5 dB	109.4 dB	109.0 dB	108.3 dB
Nov	108.9 dB	109.3 dB	108.8 dB	109.1 dB	108.6 dB	108.3 dB	108.9 dB
Dec	109.1 dB	108.8 dB	107.5 dB	107.2 dB	108.7 dB	107.6 dB	107.6 dB
ANNUAL EXP	109.2 dB	109.3 dB	109.1 dB	108.5 dB	108.6 dB	108.2 dB	108.0 dB
ANNUAL OPERATIONS	149,911	163,737	162,999	166,214	154,251	134,295	128,249

CIVILIAN DEPARTURE EXP COMPARISON

Month	2016	2017	2018	2019	2020	2021	2020-2021 Difference
Jan	107.9 dB	107.3 dB	106.8 dB*	106.7 dB*	106.2 dB*	105.6 dB*	-0.6 dB*
Feb	107.6 dB	107.6 dB	107.3 dB*	107.1 dB*	107.2 dB*	105.2 dB*	-2.0 dB*
Mar	107.5 dB	107.7 dB	107.9 dB*	107.1 dB*	105.7 dB*	dB*	dB*
Apr	107.7 dB	108.4 dB	107.2 dB*	107.5 dB*	101.0 dB*	dB*	dB*
May	107.8 dB	107.8 dB*	107.9 dB*	108.2 dB*	105.1 dB*	dB*	dB*
June	108.2 dB	107.8 dB*	107.6 dB*	108.1 dB*	105.1 dB*	dB*	dB*
July	106.8 dB	106.7 dB*	106.7 dB*	108.0 dB*	105.7 dB*	dB*	dB*
Aug	107.5 dB	106.2 dB*	106.3 dB*	106.8 dB*	106.0 dB*	dB*	dB*
Sept	108.1 dB	107.5 dB*	107.1 dB*	107.4 dB*	105.9 dB*	dB*	dB*
Oct	108.2 dB	107.4 dB*	107.9 dB*	107.6 dB*	106.3 dB*	dB*	dB*
Nov	108.7 dB	107.2 dB*	107.3 dB*	107.2 dB*	106.1 dB*	dB*	dB*
Dec	107.7 dB	106.4 dB*	106.7 dB*	106.8 dB*	106.7 dB*	dB*	dB*
ANNUAL EXP	107.3 dB	107.2 dB	107.2 dB*	107.4 dB	105.6 dB	105.4 dB	
ANNUAL OPERATIONS	122,027	128,598	121,661	128,681	99,725	14,165	

* Beginning in Jan 2020, AEDT 2d is used to calculate SEL values

EXP for 2/1/2021 through 2/28/2021

3/2/2021 2:09:55 PM

Group Number	Stage	Rep Type	Cat ID	Sector	Departures					Arrivals					Partial EXP
					SEL	Day	10 PM to 11 PM	11 PM to 7 AM	EXP	SEL	Day	10 PM to 11 PM	11 PM to 7 AM	EXP	
1	9	C525, C500, C501	J	CIV	87.10	1.79	0.00	0.07	91.08	85.50	1.50	0.14	0.21	92.55	94.89
2	9	C560	J	CIV	89.00	0.89	0.04	0.00	89.97	86.60	0.86	0.04	0.04	88.56	92.33
2M	9	UC-35 [MIL]	J	MIL	89.00	0.04	0.00	0.00	74.53	86.60	0.04	0.00	0.00	72.13	76.50
3	9	LJ35, LJ45, H25B, H25	J	CIV	91.10	5.54	0.04	0.18	99.95	88.20	5.43	0.11	0.21	97.57	101.93
3M	9	C-21 [MIL]	J	MIL	91.10	0.25	0.00	0.00	85.08	88.20	0.25	0.00	0.00	82.18	86.88
4	9	DA02	J	CIV	95.50	0.00	0.00	0.00	0.00	98.90	0.00	0.00	0.00	0.00	0.00
4M	9	HU25 [MIL]	J	MIL	95.50	0.00	0.00	0.00	0.00	98.90	0.00	0.00	0.00	0.00	0.00
5	9	LJ25, LJ24, H25A	J	CIV	104.90	0.00	0.00	0.00	0.00	99.80	0.00	0.00	0.00	0.00	0.00
5M	9	T-37, T38 [MIL]	J	MIL	104.90	0.04	0.00	0.00	90.43	99.80	0.04	0.00	0.00	85.33	91.60
6	9	BAC-111	J	CIV	96.10	0.00	0.00	0.00	0.00	99.90	0.00	0.00	0.00	0.00	0.00
7	9	GLF3	J	CIV	81.80	0.04	0.00	0.00	67.33	88.20	0.04	0.00	0.00	73.73	74.62
7M	9	GLF3 [MIL]	J	MIL	81.80	0.00	0.00	0.00	0.00	88.20	0.00	0.00	0.00	0.00	0.00
8	9	GLF4	J	CIV	81.80	1.89	0.00	0.07	85.96	88.20	1.86	0.04	0.07	92.87	93.67
8M	9	C20B, GLF4 [MIL]	J	MIL	81.80	0.00	0.00	0.00	0.00	88.20	0.00	0.00	0.00	0.00	0.00
9	9	CL30, CL60, CRJ1	J	CIV	86.60	5.43	0.04	0.14	95.18	87.60	5.25	0.04	0.32	97.06	99.23
10	9	CL61, CRJ2, CRJ7	J	CIV	84.30	0.61	0.00	0.04	84.14	88.40	0.54	0.07	0.04	90.46	91.37
11	9	Unknown/Misc. Jets	J	CIV	95.80	0.07	0.00	0.00	84.34	88.70	0.07	0.00	0.00	77.24	85.11
11M	9	Unknown/Misc. Jets [MI	J	MIL	100.20	0.00	0.00	0.00	0.00	92.20	0.00	0.00	0.00	0.00	0.00
13	9	C141 [MIL]-OBSOLETE	J	MIL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14	9	DC-9	J	CIV	94.60	0.00	0.00	0.00	0.00	92.30	0.00	0.00	0.00	0.00	0.00
14M	9	C9, T-43 [MIL]	J	MIL	99.20	0.00	0.00	0.00	0.00	94.20	0.00	0.00	0.00	0.00	0.00
15	9	B707-OBSOLETE	J	CIV	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15M	9	C-5A, KC-135 [MIL]	J	MIL	103.50	0.07	0.00	0.00	92.04	107.80	0.07	0.00	0.00	96.34	97.71
17	9	Helicopters	H	CIV	83.50	11.16	0.00	0.29	94.97	87.90	11.41	0.00	0.04	98.61	100.17
17M	9	Helicopters [MIL]	H	MIL	89.40	0.11	0.00	0.00	79.70	89.20	0.11	0.00	0.00	79.50	82.61
18	9	C130, Hvy Turboprops	T	CIV	92.50	0.00	0.00	0.00	0.00	95.80	0.00	0.00	0.00	0.00	0.00
18M	9	C130, P3 [MIL]	T	MIL	92.50	0.04	0.00	0.00	78.03	95.80	0.04	0.00	0.00	81.33	82.99
19	9	C441, Twin Turboprops	T	CIV	75.30	0.48	0.00	0.04	74.54	84.10	0.48	0.00	0.04	83.34	83.88
19M	9	C12 [MIL turboprops]	T	MIL	75.30	0.00	0.00	0.00	0.00	84.10	0.00	0.00	0.00	0.00	0.00
20	9	Twin-engine Piston	W	CIV	82.70	4.13	0.00	0.04	89.21	85.90	4.09	0.04	0.04	92.72	94.32

EXP for 2/1/2021 through 2/28/2021

3/2/2021 2:09:55 PM

Group Number	Stage	Rep Type	Cat ID	Sector	Departures					Arrivals					Partial EXP
					SEL	Day	10 PM to 11 PM	11 PM to 7 AM	EXP	SEL	Day	10 PM to 11 PM	11 PM to 7 AM	EXP	
20M	9	Twin-engine Piston [MIL	W	MIL	82.70	0.00	0.00	0.00	0.00	85.90	0.00	0.00	0.00	0.00	0.00
21	9	SINGLES (includes local	S	CIV	78.90	62.59	0.07	0.11	96.99	81.90	62.59	0.04	0.14	99.99	101.75
21M	9	SINGLES [MIL]	S	MIL	78.90	0.00	0.00	0.00	0.00	81.90	0.00	0.00	0.00	0.00	0.00
22	9	ASTR, G150, G280, W	J	CIV	90.80	0.25	0.00	0.00	84.78	84.80	0.25	0.00	0.00	78.78	85.75
24	9	A10, EA6, F16 etc. [MIL]	J	MIL	116.00	0.00	0.00	0.00	0.00	93.40	0.00	0.00	0.00	0.00	0.00
25	9	C650	J	CIV	88.60	0.04	0.00	0.00	74.13	84.90	0.04	0.00	0.00	70.43	75.67
26	9	F2TH, F900, FA50, FA7	J	CIV	81.70	2.68	0.00	0.04	86.52	92.30	2.61	0.00	0.11	97.96	98.26
28M	9	DC3 [MIL]	W	MIL	94.80	0.00	0.00	0.00	0.00	98.10	0.00	0.00	0.00	0.00	0.00
29	9	B190, E120, D238	T	CIV	76.50	0.00	0.00	0.00	0.00	89.60	0.00	0.00	0.00	0.00	0.00
30	9	SF34	T	CIV	77.30	0.14	0.00	0.00	68.85	86.20	0.14	0.00	0.00	77.75	78.28
31	9	B727-ST2-OBSOLETE	J	CIV	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
32	9	B727-ST3	J	CIV	103.40	0.00	0.00	0.00	0.00	97.00	0.00	0.00	0.00	0.00	0.00
33	9	BE20, BE30, DHC6, SW	T	CIV	82.10	1.39	0.00	0.00	83.54	93.50	1.39	0.00	0.00	94.94	95.24
34	9	B737 Hushkit	J	CIV	95.50	0.00	0.00	0.00	0.00	93.80	0.00	0.00	0.00	0.00	0.00
35	9	DH8	J	CIV	70.70	0.00	0.00	0.00	0.00	82.80	0.00	0.00	0.00	0.00	0.00
36	9	A319, A320, A321	J	CIV	86.90	0.11	0.00	0.04	83.57	93.10	0.14	0.00	0.00	84.65	87.15
37	9	GLF5, GLF6	J	CIV	86.20	0.89	0.00	0.07	88.26	88.70	0.82	0.11	0.04	92.22	93.69
37M	9	C37, GLF5 [MIL]	J	MIL	86.20	0.04	0.00	0.00	71.73	88.70	0.04	0.00	0.00	74.23	76.17
39	9	GLF2	J	CIV	97.10	0.00	0.00	0.00	0.00	92.70	0.00	0.00	0.00	0.00	0.00
40	9	C750, GALX, HA4T, J32	J	CIV	81.70	2.93	0.00	0.04	86.87	92.30	2.89	0.04	0.04	97.87	98.20
41	9	B737	J	CIV	89.50	0.43	0.04	0.04	90.08	94.40	0.39	0.00	0.11	96.06	97.03
42	9	B757	J	CIV	88.20	0.18	0.00	0.04	85.49	93.40	0.14	0.00	0.07	92.73	93.48
43	9	C550, E55P, PRM1	V	CIV	83.00	2.75	0.00	0.18	89.57	90.00	2.82	0.04	0.07	95.90	96.81
44	9	C56X	J	CIV	81.40	3.46	0.00	0.04	87.22	91.20	3.43	0.04	0.04	97.37	97.77
45	9	BE40, MU30	J	CIV	91.70	0.82	0.00	0.04	92.41	87.10	0.86	0.00	0.00	86.43	93.39
46	9	C680	J	CIV	84.60	2.11	0.04	0.04	89.10	88.20	2.14	0.04	0.00	92.18	93.92
47	9	E135, E145	J	CIV	79.70	0.32	0.00	0.04	78.02	89.30	0.29	0.00	0.07	89.30	89.61
48	9	BD70, GL5T, GLEX	J	CIV	78.90	1.36	0.00	0.00	80.23	90.10	1.32	0.00	0.04	92.35	92.61
49	9	C510, E500, E50P	V	CIV	82.90	0.00	0.00	0.00	0.00	85.70	0.00	0.00	0.00	0.00	0.00
50	9	EA50	V	CIV	74.50	0.25	0.00	0.00	68.48	79.00	0.21	0.04	0.00	76.57	77.20

EXP for 2/1/2021 through 2/28/2021

3/2/2021 2:09:55 PM

Group Number	Stage	Rep Type	Cat ID	Sector	Departures					Arrivals					Partial EXP
					SEL	Day	10 PM to 11 PM	11 PM to 7 AM	EXP	SEL	Day	10 PM to 11 PM	11 PM to 7 AM	EXP	
Civil Aircraft-Excluding Singles						52.12	0.18	1.43	104.52		51.41	0.75	1.57	108.02	109.62
Civil Aircraft						114.71	0.25	1.54	105.23		114.00	0.79	1.71	108.65	110.28
Military Aircraft						0.57	0.00	0.00	95.09		0.57	0.00	0.00	97.06	99.19
All Aircraft- Excluding Singles						52.69	0.18	1.43	104.99		51.98	0.75	1.57	108.35	110.00
All Aircraft						115.29	0.25	1.54	105.63		114.57	0.79	1.71	108.94	110.60
						Local	Single	Twin	Turbo	Jet	V Jet	Heli	Mil	Total	
Total Operations						2,174	1,133	231	314	1,882	67	632	47	6,480	

* The value for singles does not include local flights

