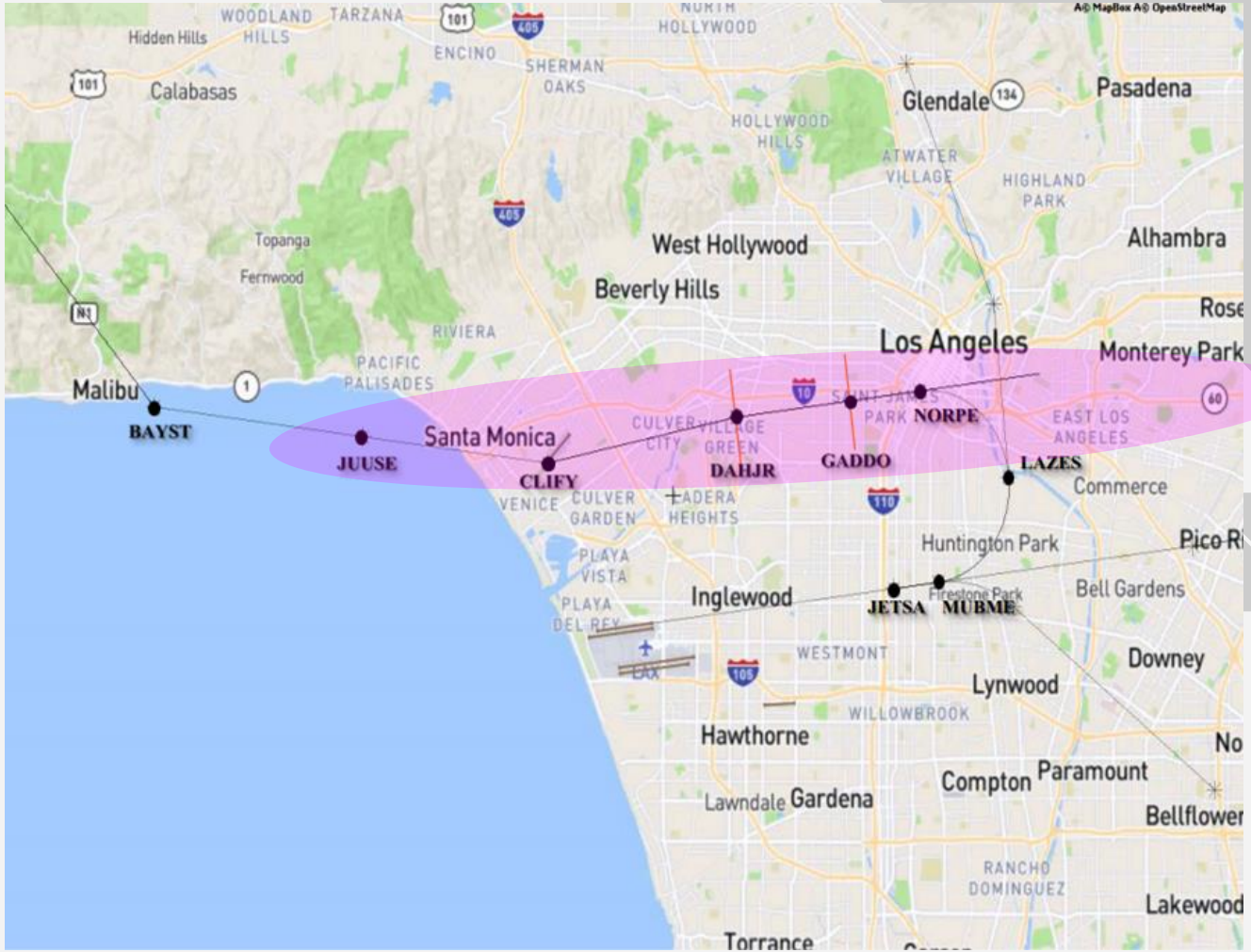
LAX Metroplex / Wide Area Ad Hoc Committee

LAX Community Noise Roundtable
July 2019

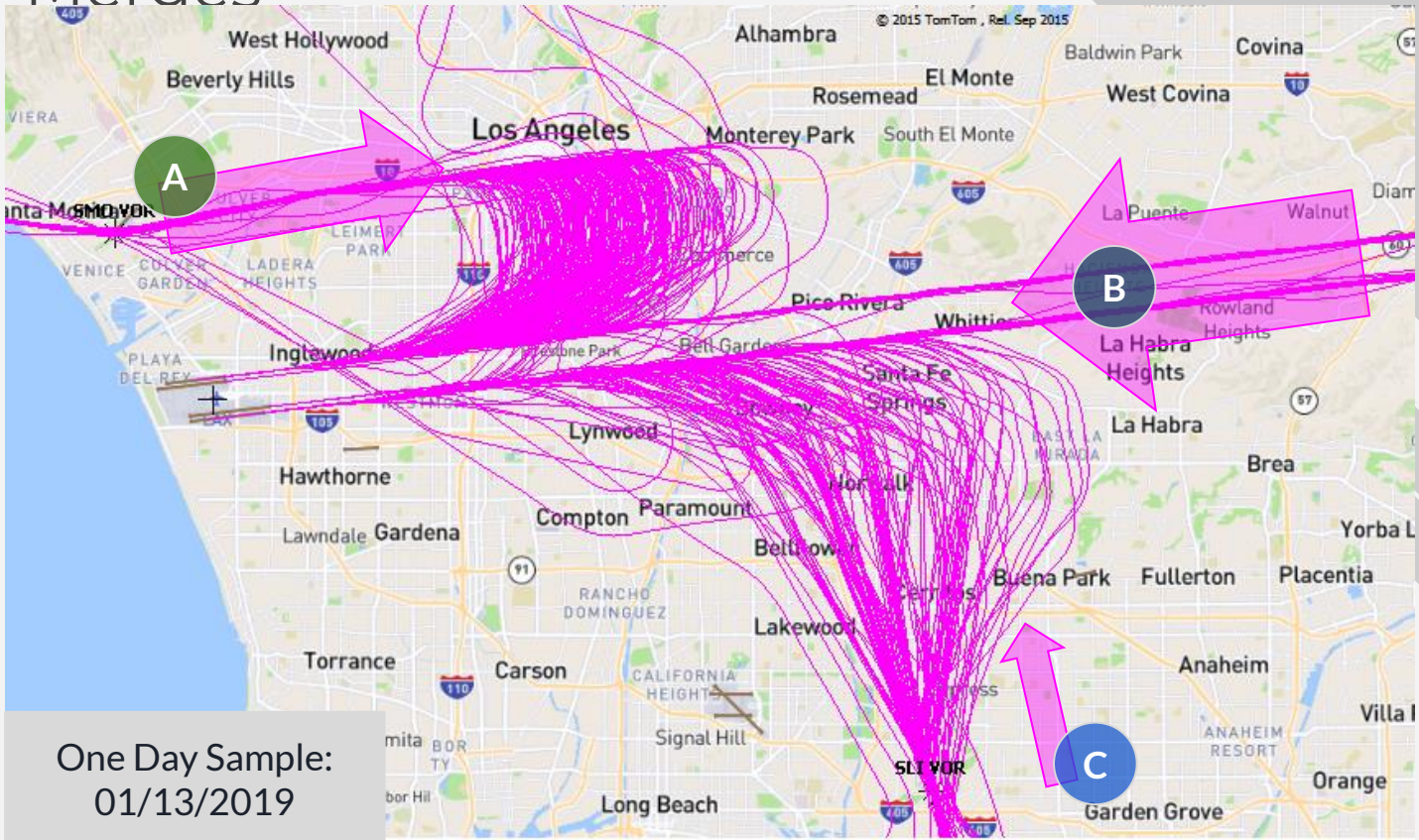
1. North Downwind Arrival Flight Paths
2. LAX and Other Airports
3. DAHJR Flight Data - 24 hours
4. DAHJR - 0100 to 0500 hours
5. GADDO Flight Data - 24 hours
6. City Attorney Legal Action Filed Against FAA
7. FAA Commitments to the Noise Roundtable



1. North Downwind Arrival Flight Paths

Area in **pink** affected by North Downwind Arrival and has been studied more extensively in prior and current initiatives undertaken by the Metroplex Ad Hoc Committee of the LAX Community Noise Roundtable

1. North Downwind Arrival Flight Paths - Merges



One Day Sample:
01/13/2019

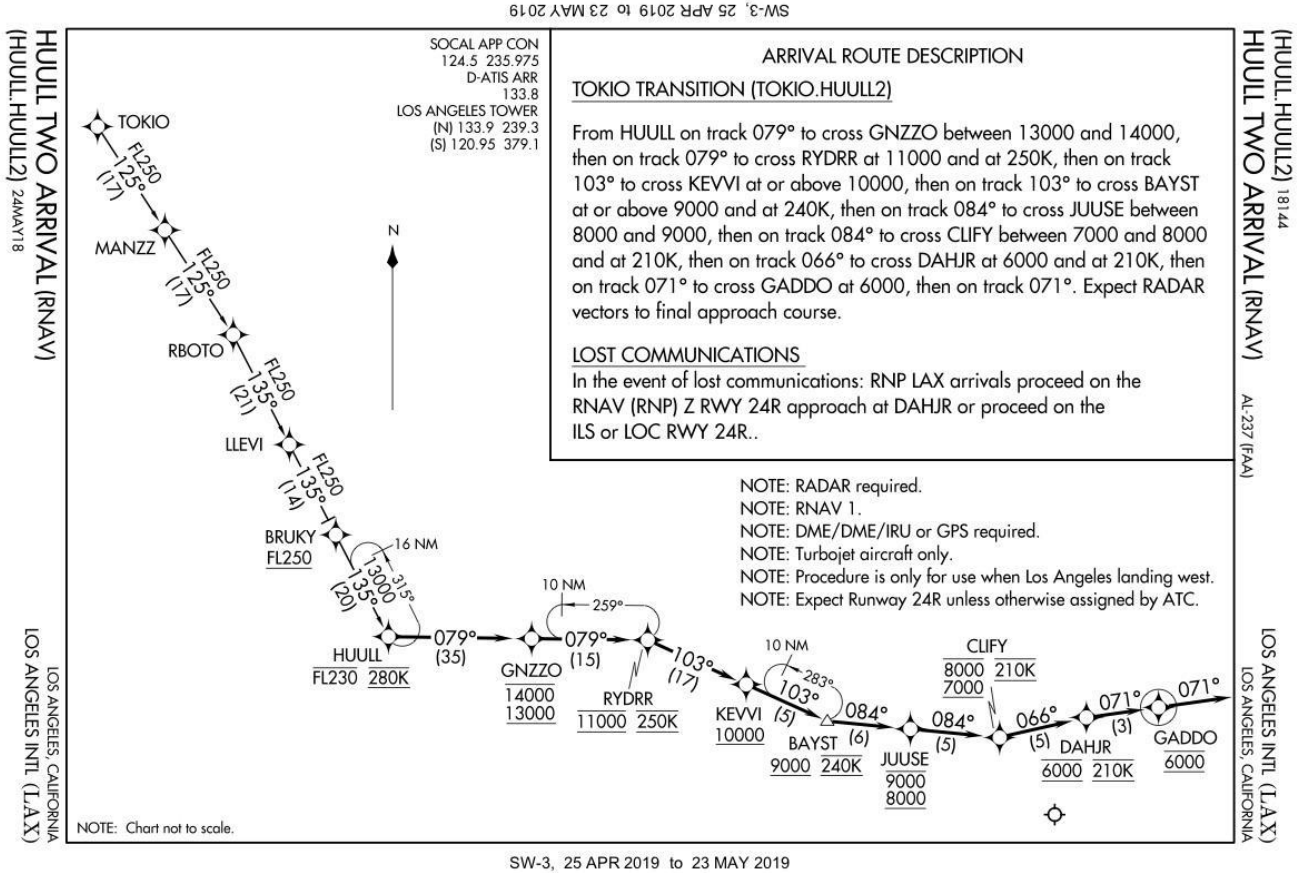
Percentage breakout of flights landing including their origin paths from one day at LAX

A North Arrivals **36%** of inbound air traffic

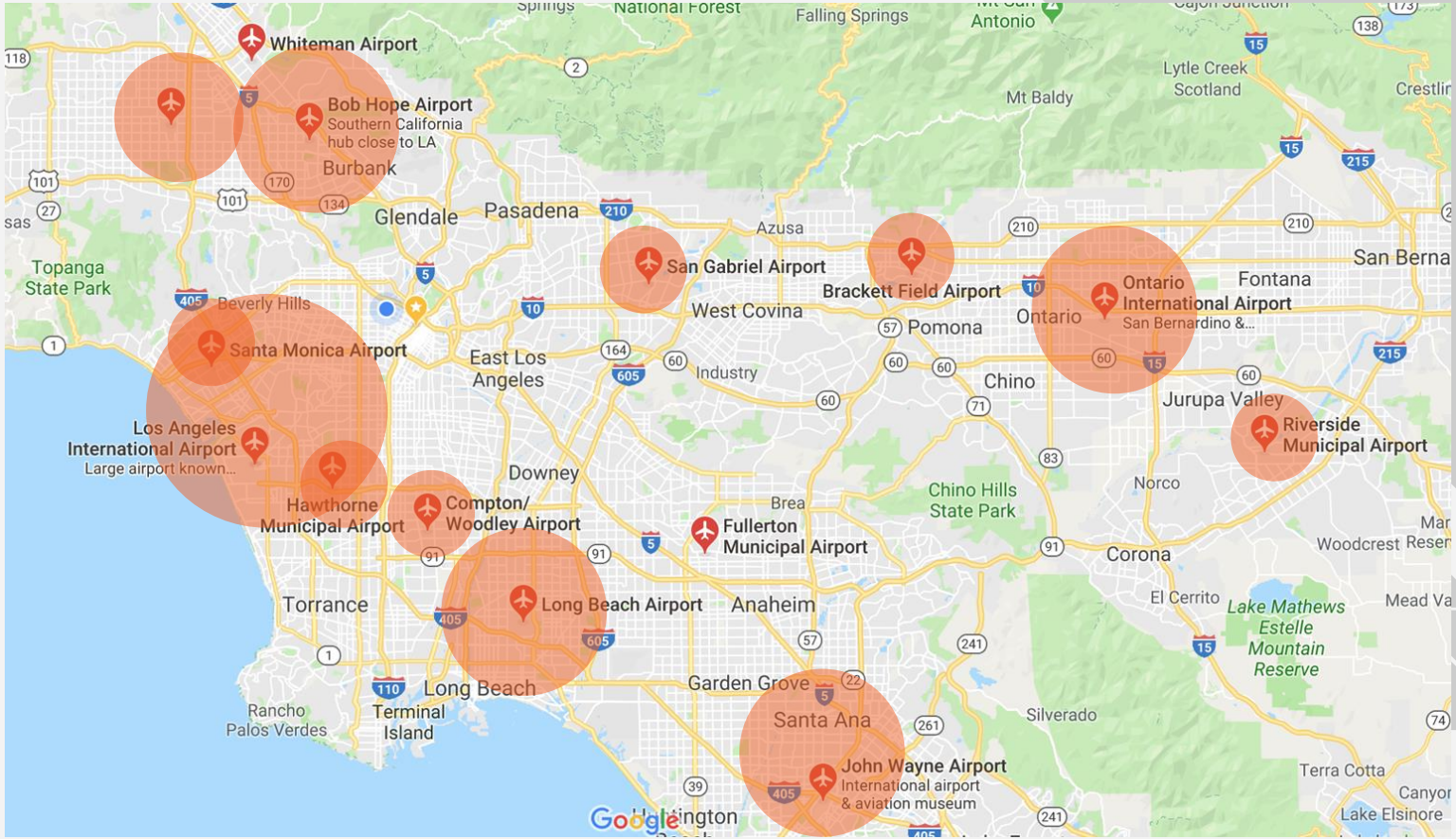
B East Arrivals **52%** of inbound air traffic

C South Arrivals **12%** of inbound air traffic

1. North Downwind Arrival Flight Paths - HUULL



2. LAX and Other Airports



3. 6000 Foot Alt +/- 300 at DAHJR - 24 hours

ANOMS Gate Penetration - DAHJR
September 1-30, 2018

Altitude MSL (ft)	Count of Ops*	% of Ops	% of Ops Between Altitudes	% of Ops At or Above Altitudes
>6300	797	8.4%		
6000-6299	2456	25.8%		
5700-5999	2837	29.8%	64.1%	
5500-5699	1268	13.3%	35.9%	
5000-5499	1606	16.9%		94.3%
4500-4999	429	4.5%		
4000-4499	79	0.8%		99.6%
3500-3999	25	0.3%		
3000-3499	8	0.1%		100.0%
2500-2999	2	0.0%		
<2500	0	0.0%		100.0%
Grand Total	9507	100%		

Prepared by: LAWA Noise Management
*Data source: LAX ANOMS

ANOMS Gate Penetration - DAHJR
October 1-31, 2018

Altitude MSL (ft)	Count of Ops*	% of Ops	% of Ops Between Altitudes	% of Ops At or Above Altitudes
>6300	591	6.4%		
6000-6299	2193	23.8%		
5700-5999	2673	29.0%	59.2%	
5500-5699	1203	13.1%	40.8%	
5000-5499	1774	19.3%		91.5%
4500-4999	598	6.5%		
4000-4499	145	1.6%		99.6%
3500-3999	27	0.3%		
3000-3499	7	0.1%		100.0%
2500-2999	1	0.0%		
<2500	1	0.0%		100.0%
Grand Total	9213	100%		

Prepared by: LAWA Noise Management
*Data source: LAX ANOMS

ANOMS Gate Penetration - DAHJR
November 1-30, 2018

Altitude MSL (ft)	Count of Ops*	% of Ops	% of Ops Between Altitudes	% of Ops At or Above Altitudes
>6300	727	8.2%		
6000-6299	2124	23.9%		
5700-5999	2463	27.7%	59.8%	
5500-5699	1169	13.2%	40.2%	
5000-5499	1660	18.7%		91.6%
4500-4999	517	5.8%		
4000-4499	173	1.9%		99.4%
3500-3999	37	0.4%		
3000-3499	11	0.1%		100.0%
2500-2999	4	0.0%		
<2500	0	0.0%		100.0%
Grand Total	8885	100%		

Prepared by: LAWA Noise Management
*Data source: LAX ANOMS

ANOMS Gate Penetration - DAHJR
December 1-31, 2018

Altitude MSL (ft)	Count of Ops*	% of Ops	% of Ops Between Altitudes	% of Ops At or Above Altitudes
>6300	711	8.3%		
6000-6299	2061	24.2%		
5700-5999	2429	28.5%	61.0%	
5500-5699	1072	12.6%	39.0%	
5000-5499	1572	18.4%		92.0%
4500-4999	488	5.7%		
4000-4499	142	1.7%		99.4%
3500-3999	35	0.4%		
3000-3499	15	0.2%		99.9%
2500-2999	5	0.1%		
<2500	0	0.0%		100.0%
Grand Total	8530	100%		

Prepared by: LAWA Noise Management
*Data source: LAX ANOMS

3. 6000 Foot Alt +/- 300 at DAHJR - 24 hours

ANOMS Gate Penetration - DAHJR
January 1-31, 2019

Altitude MSL (ft)	Count of Ops*	% of Ops	% of Ops Between Altitudes	% of Ops At or Above Altitudes
>6300	552	7.6%		
6000-6299	1636	22.5%		
5700-5999	1958	26.9%	56.9%	
5500-5699	979	13.4%	43.1%	
5000-5499	1423	19.5%		89.9%
4500-4999	522	7.2%		
4000-4499	156	2.1%		99.2%
3500-3999	50	0.7%		
3000-3499	10	0.1%		100.0%
2500-2999	1	0.0%		
<2500	0	0.0%		100.0%
Grand Total	**7287**	**100%**		

Prepared by: LAWA Noise Management
*Data source: LAX ANOMS

ANOMS Gate Penetration - DAHJR
February 1-28, 2019

Altitude MSL (ft)	Count of Ops*	% of Ops	% of Ops Between Altitudes	% of Ops At or Above Altitudes
>6300	765	9.9%		
6000-6299	1996	25.9%		
5700-5999	2214	28.7%	64.6%	
5500-5699	968	12.6%	35.4%	
5000-5499	1251	16.2%		93.4%
4500-4999	368	4.8%		
4000-4499	98	1.3%		99.4%
3500-3999	34	0.4%		
3000-3499	8	0.1%		99.9%
2500-2999	4	0.1%		
<2500	0	0.0%		100.0%
Grand Total	**7706**	**100%**		

Prepared by: LAWA Noise Management
*Data source: LAX ANOMS

ANOMS Gate Penetration - DAHJR
March 1-31, 2019

Altitude MSL (ft)	Count of Ops*	% of Ops	% of Ops Between Altitudes	% of Ops At or Above Altitudes
>6300	713	8.0%		
6000-6299	2220	24.9%		
5700-5999	2595	29.1%	62.0%	
5500-5699	1113	12.5%	38.0%	
5000-5499	1574	17.7%		92.1%
4500-4999	524	5.9%		
4000-4499	136	1.5%		99.5%
3500-3999	33	0.4%		
3000-3499	7	0.1%		100.0%
2500-2999	1	0.0%		
<2500	0	0.0%		100.0%
Grand Total	**8916**	**100%**		

Prepared by: LAWA Noise Management
*Data source: LAX ANOMS

ANOMS Gate Penetration - DAHJR
April 1-30, 2019

Altitude MSL (ft)	Count of Ops*	% of Ops	% of Ops Between Altitudes	% of Ops At or Above Altitudes
>6300	679	7.5%		
6000-6299	2368	26.1%		
5700-5999	2677	29.5%	63.1%	
5500-5699	1155	12.7%	36.9%	
5000-5499	1566	17.3%		93.2%
4500-4999	463	5.1%		
4000-4499	120	1.3%		99.6%
3500-3999	27	0.3%		
3000-3499	6	0.1%		100.0%
2500-2999	3	0.0%		
<2500	1	0.0%		100.0%
Grand Total	**9065**	**100%**		

Prepared by: LAWA Noise Management
*Data source: LAX ANOMS

3. 6000 Foot Alt +/- 300 at DAHJR - 24 hours

ANOMS Gate Penetration - DAHJR
May 1-31, 2019

Altitude MSL (ft)	Count of Ops*	% of Ops	% of Ops Between Altitudes	% of Ops At or Above Altitudes
>6300	660	7.1%		
6000-6299	2381	25.7%		
5700-5999	2669	28.9%	61.7%	
5500-5699	1209	13.1%	38.3%	
5000-5499	1630	17.6%		92.4%
4500-4999	517	5.6%		
4000-4499	141	1.5%		99.5%
3500-3999	29	0.3%		
3000-3499	10	0.1%		99.9%
2500-2999	4	0.0%		
<2500	1	0.0%		100.0%
Grand Total	**9251**	**100%**		

Prepared by: LAWA Noise Management
*Data source: LAX ANOMS

ANOMS Gate Penetration - DAHJR
June 1-30, 2019

Altitude MSL (ft)	Count of Ops*	% of Ops	% of Ops Between Altitudes	% of Ops At or Above Altitudes
>6300	642	6.8%		
6000-6299	2759	29.2%		
5700-5999	2985	31.6%	67.6%	
5500-5699	1138	12.1%	32.4%	
5000-5499	1398	14.8%		94.5%
4500-4999	420	4.4%		
4000-4499	74	0.8%		99.7%
3500-3999	14	0.1%		
3000-3499	9	0.1%		100.0%
2500-2999	1	0.0%		
<2500	0	0.0%		100.0%
Grand Total	**9440**	**100%**		

Prepared by: LAWA Noise Management
*Data source: LAX ANOMS

4. DAHJR - 0100 to 0500 totals

	Time of Night						
Altitude MSL (ft)	12:00 to 12:59 AM	1:00 to 1:59 AM	2:00 to 2:59 AM	3:00 to 3:59 AM	4:00 to 4:59 AM	5:00 to 5:59 AM	Totals by Height
>6000	15	5	2	5	14	36	**77**
5750-6000	18	2	1	7	7	10	**45**
5500-5749	6	1	1	2	1	7	**18**
5250-5499	2	1	2	2	0	4	**11**
5000-5249	5	0	2	2	1	4	**14**
4750-4999	1	1	0	0	0	0	**2**
<4750	1	1	0	0	2	2	**6**
Total of All Flights	**48**	**11**	**8**	**18**	**25**	**63**	**173**
		1 to 5 Total		**19**			

Oct 2018
19 flights

	Time of Night						
Altitude MSL (ft)	12:00 to 12:59 AM	1:00 to 1:59 AM	2:00 to 2:59 AM	3:00 to 3:59 AM	4:00 to 4:59 AM	5:00 to 5:59 AM	Totals by Height
>6000	24	13	11	9	58	72	**187**
5750-6000	13	4	3	0	9	19	**48**
5500-5749	6	0	1	1	2	6	**16**
5250-5499	3	2	1	1	2	8	**17**
5000-5249	2	1	1	1	1	3	**9**
4750-4999	3	0	0	0	0	0	**3**
<4750	6	1	0	0	2	6	**15**
Total of All Flights	**57**	**21**	**17**	**12**	**74**	**114**	**295**
		1 to 5 Total		**17**			

Nov 2018
17 flights

Prepared by: LAWA Noise Management
Data Source : LAX ANOMS

4. DAHJR - 0100 to 0500 totals

	Time of Night						
Altitude MSL (ft)	12:00 to 12:59 AM	1:00 to 1:59 AM	2:00 to 2:59 AM	3:00 to 3:59 AM	4:00 to 4:59 AM	5:00 to 5:59 AM	Totals by Height
>6000	27	10	8	6	28	48	**127**
5750-6000	13	1	2	1	15	32	**64**
5500-5749	11	1	0	1	7	10	**30**
5250-5499	6	0	2	0	8	3	**19**
5000-5249	6	0	1	0	3	4	**14**
4750-4999	0	0	0	0	1	2	**3**
<4750	2	0	0	1	0	3	**6**
Total of All Flights	**65**	**12**	**13**	**9**	**62**	**102**	**263**
		1 to 5 Total		**25**			

Dec 2018
25 flights

	Time of Night						
Altitude MSL (ft)	12:00 to 12:59 AM	1:00 to 1:59 AM	2:00 to 2:59 AM	3:00 to 3:59 AM	4:00 to 4:59 AM	5:00 to 5:59 AM	Totals by Height
>6000	10	6	6	4	3	13	**42**
5750-6000	6	2	0	0	5	6	**19**
5500-5749	9	0	1	1	2	3	**16**
5250-5499	2	0	1	0	3	4	**10**
5000-5249	2	0	0	1	0	0	**3**
4750-4999	1	0	0	1	0	1	**3**
<4750	2	0	0	2	0	1	**5**
Total of All Flights	**32**	**8**	**8**	**9**	**13**	**28**	**98**
		1 to 5 Total		**12**			

Jan 2019
12 flights

Prepared by: LAWA Noise Management
Data Source : LAX ANOMS

4. DAHJR - 0100 to 0500 totals

Feb 2019
51 flights

	Time of Night						
Altitude MSL (ft)	12:00 to 12:59 AM	1:00 to 1:59 AM	2:00 to 2:59 AM	3:00 to 3:59 AM	4:00 to 4:59 AM	5:00 to 5:59 AM	Totals by Height
>6000	10	4	3	1	7	9	**34**
5750-6000	5	0	0	4	1	2	**12**
5500-5749	3	0	0	0	3	2	**8**
5250-5499	2	1	0	0	1	0	**4**
5000-5249	1	0	0	1	0	2	**4**
4750-4999	24	6	11	2	26	40	**109**
<4750	1	0	0	0	0	3	**4**
Total of All Flights	**46**	**11**	**14**	**8**	**38**	**58**	**175**
		1 to 5 Total		**51**			

Mar 2019
12 flights

	Time of Night						
Altitude MSL (ft)	12:00 to 12:59 AM	1:00 to 1:59 AM	2:00 to 2:59 AM	3:00 to 3:59 AM	4:00 to 4:59 AM	5:00 to 5:59 AM	Totals by Height
>6000	15	5	2	4	10	11	**47**
5750-6000	38	12	2	17	45	52	**166**
5500-5749	7	0	0	0	3	0	**10**
5250-5499	1	0	1	0	3	5	**10**
5000-5249	1	0	0	0	2	3	**6**
4750-4999	1	1	0	0	1	0	**3**
<4750	2	0	0	0	1	0	**3**
Total of All Flights	**65**	**18**	**5**	**21**	**65**	**71**	**245**
		1 to 5 Total		**12**			

Prepared by: LAWA Noise Management
Data Source : LAX ANOMS

4. DAHJR - 0100 to 0500 totals

Apr 2019
6 flights

Altitude MSL (ft)	Time of Night: 12:59 AM	1:00 to 1:59 AM	2:00 to 2:59 AM	3:00 to 3:59 AM	4:00 to 4:59 AM	5:00 to 5:59 AM	Totals by Height
>6000	26	20	10	22	58	56	**192**
5750-6000	23	3	2	7	6	25	**66**
5500-5749	5	2	0	1	1	3	**12**
5250-5499	1	0	0	0	0	1	**2**
5000-5249	1	0	0	0	1	2	**4**
4750-4999	0	0	0	0	0	0	**0**
<4750	2	0	1	0	0	0	**3**
Total of All Flights	**58**	**25**	**13**	**30**	**66**	**87**	**279**
		1 to 5 Total		**6**			

May 2019
6 flights

Altitude MSL (ft)	Time of Night: 12:00 to 12:59 AM	1:00 to 1:59 AM	2:00 to 2:59 AM	3:00 to 3:59 AM	4:00 to 4:59 AM	5:00 to 5:59 AM	Totals by Height
>6000	41	10	5	15	47	49	**167**
5750-6000	17	5	0	1	15	17	**55**
5500-5749	6	2	0	1	1	2	**12**
5250-5499	2	0	0	0	1	0	**3**
5000-5249	6	0	0	0	0	2	**8**
4750-4999	2	0	0	0	0	1	**3**
<4750	4	0	0	1	0	0	**5**
Total of All Flights	**78**	**17**	**5**	**18**	**64**	**71**	**253**
		1 to 5 Total		**6**			

Prepared by: LAWA Noise Management
Data Source : LAX ANOMS

4. DAHJR - 0100 to 0500 totals

Jun 2019
8 flights

	Time of Night						
Altitude MSL (ft)	12:00 to 12:59 AM	1:00 to 1:59 AM	2:00 to 2:59 AM	3:00 to 3:59 AM	4:00 to 4:59 AM	5:00 to 5:59 AM	Totals by Height
>6000	44	5	3	19	63	91	**225**
5750-6000	21	5	2	5	15	31	**79**
5500-5749	11	0	0	2	1	3	**17**
5250-5499	4	0	0	0	0	2	**6**
5000-5249	4	0	0	1	0	0	**5**
4750-4999	4	1	0	0	0	1	**6**
<4750	4	1	0	1	1	1	**8**
Total of All Flights	**92**	**12**	**5**	**28**	**80**	**129**	**346**
		1 to 5 Total		**8**			

Prepared by: LAWA Noise Management
Data Source : LAX ANOMS

5. 6000 Foot Alt +/- 300 at GADDO - 24 hours

ANOMS Gate Penetration - GADDO
September 1-30, 2018

Altitude MSL (ft)	Count of Ops*	% of Ops	% of Ops Between Altitudes	% of Ops At or Above Altitudes
>6300	55	1%		
6000-6299	227	2%		
5700-5999	526	6%	8.5%	
5500-5699	462	5%	91.5%	
5000-5499	2454	26%		39.2%
4500-4999	2841	30%		
4000-4499	1784	19%		88.0%
3500-3999	790	8%		
3000-3499	264	3%		99.1%
2500-2999	84	1%		
<2500	5	0%		100.0%
Grand Total	**9492**	**100%**		

ANOMS Gate Penetration - GADDO
October 1-31, 2018

Altitude MSL (ft)	Count of Ops*	% of Ops	% of Ops Between Altitudes	% of Ops At or Above Altitudes
>6300	47	0.5%		
6000-6299	151	1.6%		
5700-5999	448	4.9%	7.0%	
5500-5699	389	4.2%	93.0%	
5000-5499	2166	23.5%		34.8%
4500-4999	2633	28.6%		
4000-4499	1888	20.5%		83.9%
3500-3999	948	10.3%		
3000-3499	419	4.6%		98.8%
2500-2999	107	1.2%		
<2500	5	0.1%		100.0%
Grand Total	**9201**	**100%**		

ANOMS Gate Penetration - GADDO
November 1-30, 2018

Altitude MSL (ft)	Count of Ops*	% of Ops	% of Ops Between Altitudes	% of Ops At or Above Altitudes
>6300	67	0.8%		
6000-6299	184	2.1%		
5700-5999	459	5.2%	8.0%	
5500-5699	372	4.2%	92.0%	
5000-5499	2053	23.1%		35.3%
4500-4999	2581	29.1%		
4000-4499	1744	19.7%		84.1%
3500-3999	907	10.2%		
3000-3499	359	4.0%		98.4%
2500-2999	142	1.6%		
<2500	4	0.0%		100.0%
Grand Total	**8872**	**100%**		

ANOMS Gate Penetration - GADDO
December 1-31, 2018

Altitude MSL (ft)	Count of Ops*	% of Ops	% of Ops Between Altitudes	% of Ops At or Above Altitudes
>6300	43	0.5%		
6000-6299	163	1.9%		
5700-5999	438	5.1%	7.6%	
5500-5699	415	4.9%	92.4%	
5000-5499	1937	22.8%		35.2%
4500-4999	2380	28.0%		
4000-4499	1696	19.9%		83.1%
3500-3999	907	10.7%		
3000-3499	408	4.8%		98.5%
2500-2999	121	1.4%		
<2500	6	0.1%		100.0%
Grand Total	**8514**	**100%**		

5. 6000 Foot Alt +/- 300 at GADDO - 24 hours

ANOMS Gate Penetration - GADDO
January 1-31, 2019

Altitude MSL (ft)	Count of Ops*	% of Ops	% of Ops Between Altitudes	% of Ops At or Above Altitudes
>6300	41	0.6%		
6000-6299	120	1.6%		
5700-5999	335	4.6%	6.8%	
5500-5699	320	4.4%	93.2%	
5000-5499	1572	21.6%		32.8%
4500-4999	1992	27.4%		
4000-4499	1577	21.7%		81.9%
3500-3999	799	11.0%		
3000-3499	375	5.2%		98.0%
2500-2999	138	1.9%		
<2500	5	0.1%		100.0%
Grand Total	**7274**	**100%**		

ANOMS Gate Penetration - GADDO
February 1-28, 2019

Altitude MSL (ft)	Count of Ops*	% of Ops	% of Ops Between Altitudes	% of Ops At or Above Altitudes
>6300	66	0.9%		
6000-6299	156	2.0%		
5700-5999	437	5.7%	8.6%	
5500-5699	440	5.7%	91.4%	
5000-5499	1984	25.8%		40.1%
4500-4999	2145	27.9%		
4000-4499	1387	18.0%		86.0%
3500-3999	676	8.8%		
3000-3499	314	4.1%		98.8%
2500-2999	83	1.1%		
<2500	7	0.1%		100.0%
Grand Total	**7695**	**100%**		

ANOMS Gate Penetration - GADDO
March 1-31, 2019

Altitude MSL (ft)	Count of Ops*	% of Ops	% of Ops Between Altitudes	% of Ops At or Above Altitudes
>6300	52	0.6%		
6000-6299	154	1.7%		
5700-5999	397	4.5%	6.8%	
5500-5699	413	4.6%	93.2%	
5000-5499	2259	25.4%		36.8%
4500-4999	2531	28.4%		
4000-4499	1739	19.5%		84.7%
3500-3999	873	9.8%		
3000-3499	375	4.2%		98.7%
2500-2999	107	1.2%		
<2500	7	0.1%		100.0%
Grand Total	**8907**	**100%**		

ANOMS Gate Penetration - GADDO
April 1-30, 2019

Altitude MSL (ft)	Count of Ops*	% of Ops	% of Ops Between Altitudes	% of Ops At or Above Altitudes
>6300	50	0.6%		
6000-6299	162	1.8%		
5700-5999	490	5.4%	7.8%	
5500-5699	435	4.8%	92.2%	
5000-5499	2357	26.0%		38.6%
4500-4999	2629	29.0%		
4000-4499	1686	18.6%		86.2%
3500-3999	778	8.6%		
3000-3499	358	4.0%		98.8%
2500-2999	108	1.2%		
<2500	3	0.0%		100.0%
Grand Total	**9056**	**100%**		

5. 6000 Foot Alt +/- 300 at GADDO - 24 hours

ANOMS Gate Penetration - GADDO
May 1-31, 2019

Altitude MSL (ft)	Count of Ops*	% of Ops	% of Ops Between Altitudes	% of Ops At or Above Altitudes
>6300	52	0.6%		
6000-6299	162	1.8%		
5700-5999	477	5.2%	7.5%	
5500-5699	463	5.0%	92.5%	
5000-5499	2306	25.0%		37.4%
4500-4999	2752	29.8%		
4000-4499	1703	18.4%		85.7%
3500-3999	820	8.9%		
3000-3499	350	3.8%		98.3%
2500-2999	143	1.5%		
<2500	11	0.1%		100.0%
Grand Total	**9239**	**100%**		

Prepared by: LAWA Noise Management
*Data source: LAX ANOMS

ANOMS Gate Penetration - GADDO
June 1-30, 2019

Altitude MSL (ft)	Count of Ops*	% of Ops	% of Ops Between Altitudes	% of Ops At or Above Altitudes
>6300	41	0.4%		
6000-6299	186	2.0%		
5700-5999	522	5.5%	7.9%	
5500-5699	457	4.8%	92.1%	
5000-5499	2734	29.0%		41.8%
4500-4999	2832	30.0%		
4000-4499	1651	17.5%		89.3%
3500-3999	698	7.4%		
3000-3499	238	2.5%		99.2%
2500-2999	73	0.8%		
<2500	5	0.1%		100.0%
Grand Total	**9437**	**100%**		

Prepared by: LAWA Noise Management
*Data source: LAX ANOMS

6. City Attorney Legal Action Filed Against FAA

- June 2019, the City Attorney petitioned the U.S. 9th Circuit Court of Appeals regarding flight paths (a.k.a. North Downwind Arrival) over Mid-City, West Adams and Central Los Angeles.
- As a result, the FAA can no longer discuss any matters regarding North Downwind Arrival (except DAHJR compliance) or TSAS

7. FAA Commitments to the Noise Roundtable

- Ad Hoc expressed wish for additional analysis with an eventual goal to extend night time height restrictions beyond 0100 to 0500 in hour increments 0000 to 0100, 0500 to 0600, etc.
- FAA has begun convening a working group to create at CVFP, a Charted Visual Flight Procedure - this is additional guidance for air traffic controllers to keep flights around 6000 ft at DAHJR when flying visual approaches during the daytime --UPDATE JUNE 26, 2019 FAA held a workgroup meeting in March with subject matter experts from the Southern California Terminal Radar Approach Control and the LAX Control Tower to study feasibility. They evaluated the proposal for operational benefits and/or impacts, and to ensure any new CVFP met current FAA safety criteria. It was concluded, a CVFP would not meet these criteria.

7. FAA Commitments to the Noise Roundtable

- FAA will be attending Roundtable meetings going forward and the Ad Hoc Metroplex Committee has requested and will continue to request reports from the FAA on progress for the RT