NOISE FORUM SUMMARY

North/South Field Working Groups

NOISE ABATEMENT REPORT

FOURTH QUARTER 2018

Compliance Monitoring Quarterly Summary Comparison Fourth Quarter 2018

	2017Q4		2018Q4	
	Compl.	N/C	Compl.	N/C
Runway 28R/L Jet Departure Compliance	94%	6%	96%	4%
Total Airport-wide Corporate Jet Departures	2,856	178	2,868	123
Runway 10R/L Jet Landing Compliance	76%	24%	59%	41%
Total Southeast Plan Corporate Jet Landings	97	30	96	66
North Field VFR Departure Compliance	94%	6%	93%	7%
Total Runways 28R/L & 33 Departures	369	25	235	18
North Field Quiet Hours Compliance	82%	18%	70%	30%
Total North Field Quiet Hours Departures	265	60	138	59
Runway 30 BFI Right Turn Departure Compliance	100%	0%	100%	0%
Total Runway 30 Turbojet Departures	18,845	1	18,609	70
Night Time Departure Compliance	99%	1%	97%	3%
Total Runway 30 Night Turbojet Departures	3,638	50	3,078	84
Runway 12 Night Departure Compliance	86%	14%	98%	2%
Total Runway 12 Night Turbojet Departures	131	22	187	4
Runway 30 East Turn Departure Compliance	100%	0%	99%	1%
Total Runway 30 East Turn Departures	5,764	8	5,710	52
100 Degree Radial Turbojet Landing Compliance	99%	1%	99%	1%
Total 100 Degree Radial Turbojet Landings	3,028	46	1,408	11
Engine Runup Program Compliance	100%	0%	100%	0%
Total Evening and Nighttime Engine Runups	7	0	9	(
Note: N/C means non-compliant Percentage				

Note: N/C means non-compliant. Percentage values are rounded out.

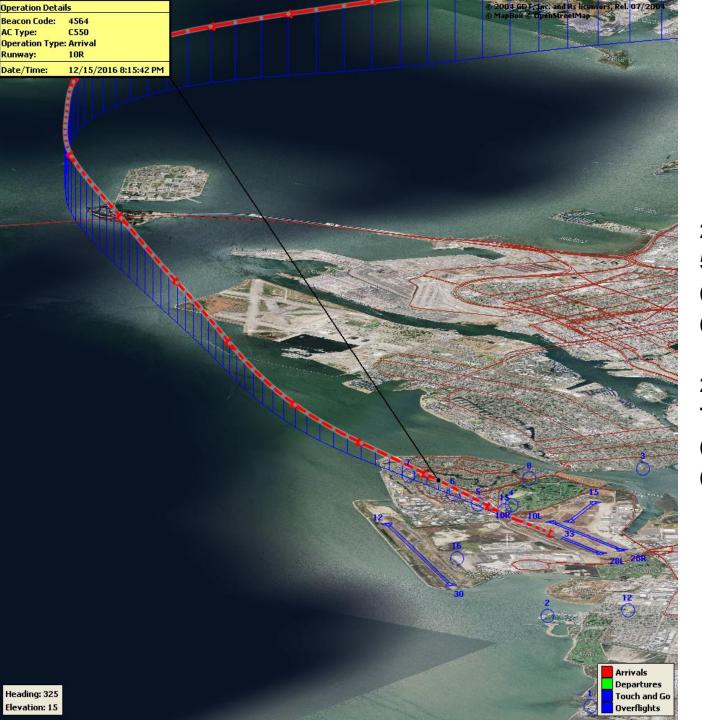
Link to full report: http://flyquietoak.com/pages/reports/quarterly_noise_compliance.html



Runway 28R/L Jet Departure NAP

2018Q4 96% Compliance (2,991 total departures) (123 non-compliant)

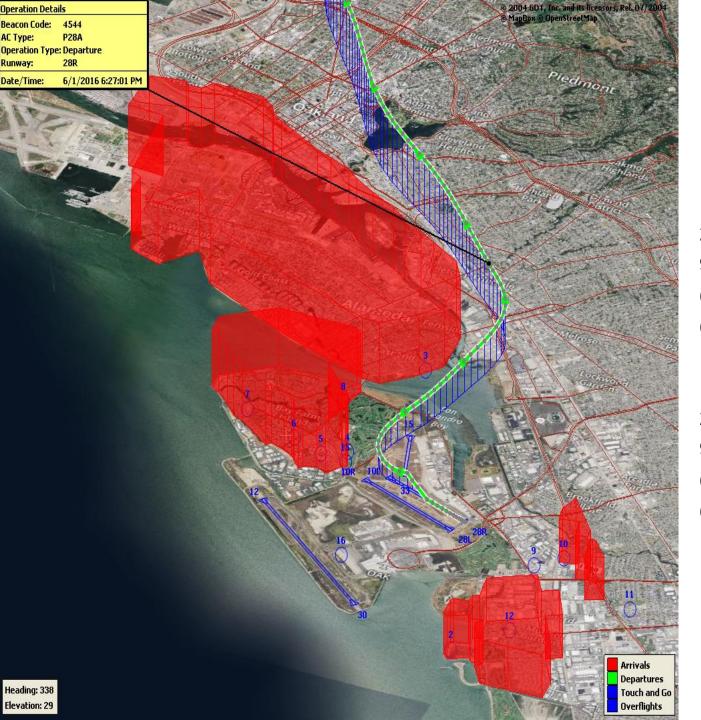
2017Q4 94% Compliance (3,034 total departures) (178 non-compliant)



Runway 10R/L Jet Landing NAP

2018Q4 59 % Compliance (162 total landings) (66 non-compliant)

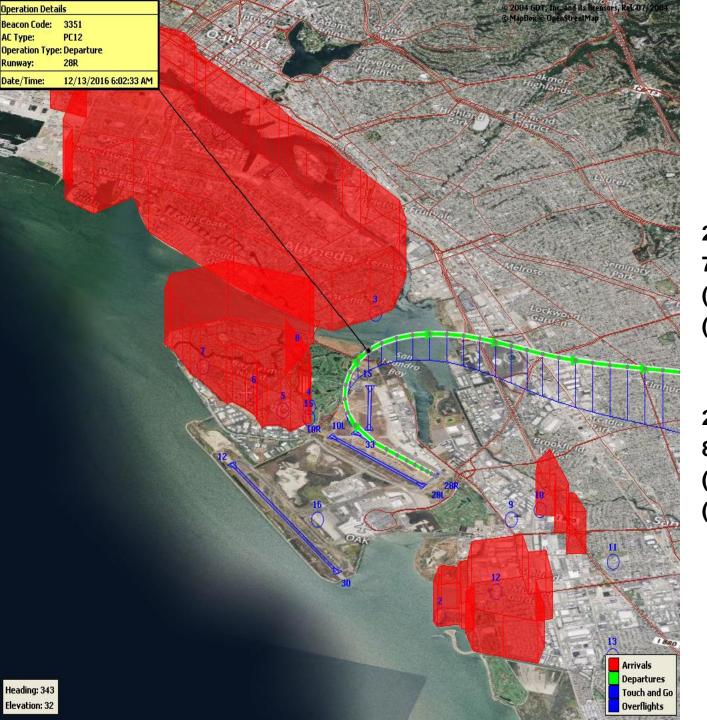
2017Q4 76% Compliance (127 total landings) (30 non-compliant)



VFR Aircraft Departure NAP

2018Q4 93% Compliance (253 total departures) (18 non-compliant)

2017Q4 94% Compliance (394 total departures) (25 non-compliant)

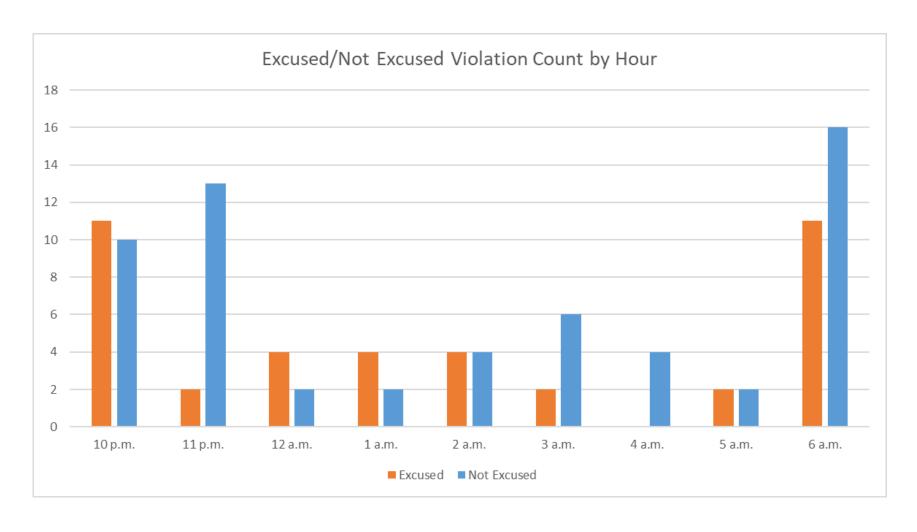


North Field Quiet Hours NAP

2018Q4 70% Compliance (197 total departures) (59 non-compliant)

2017Q4 82% Compliance (325 total departures) (60 non-compliant)

North Field Quiet Hours NAP Non-Compliant by Hour



© 2004 GDT, Inc. and its licensors, Rel. 07/2004 © MapBox © OpenStreetMap Operation Details Beacon Code: B737 AC Type: Operation Type: Departure Runway: 8/22/2017 10:16:59 PM Date/Time: Arrivals Departures Heading: 349 Touch and Go Elevation: 59 Overflights

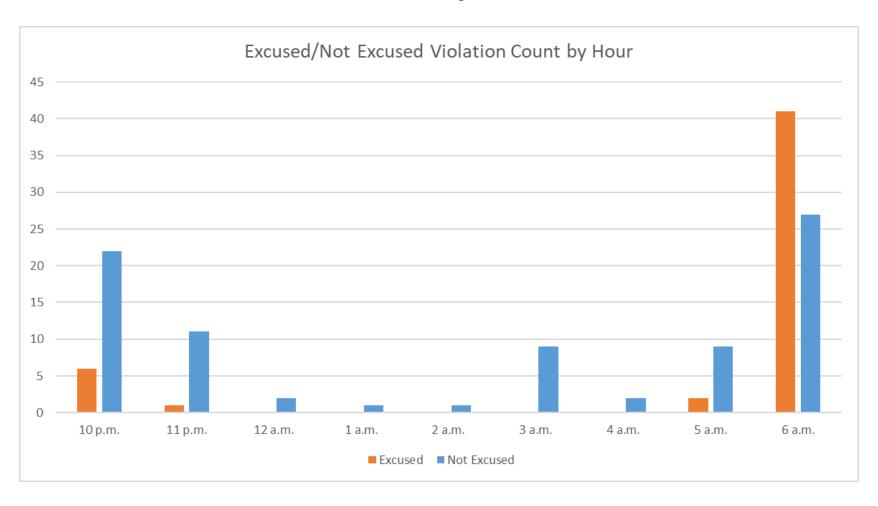
Night Time Departure NAP

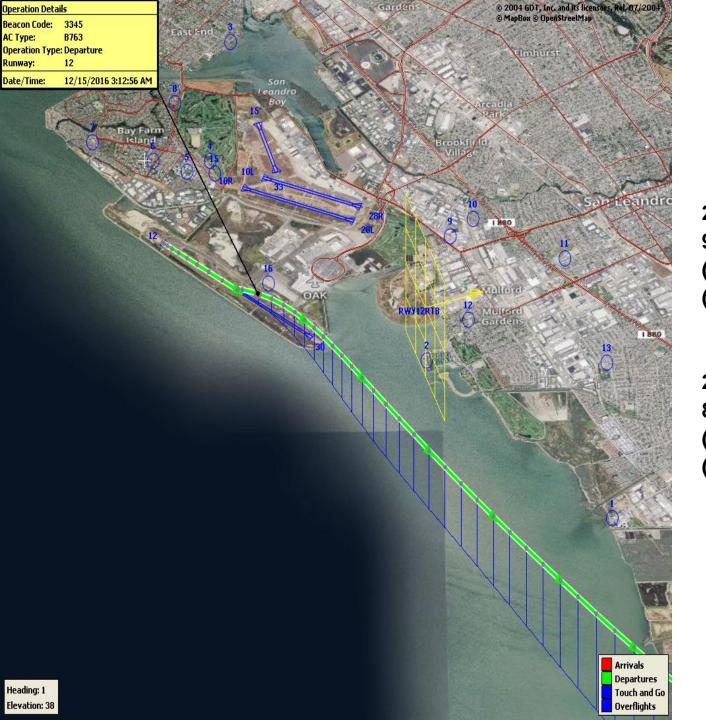
2018Q4*
97% Compliance
(3,162 total departures)
(84 non-compliant)

*REBAS Gate non-compliant = 81

2017Q4 99% Compliance (3,688 total departures) (50 non-compliant)

Night Time NAP Non-Compliant Count by Hour



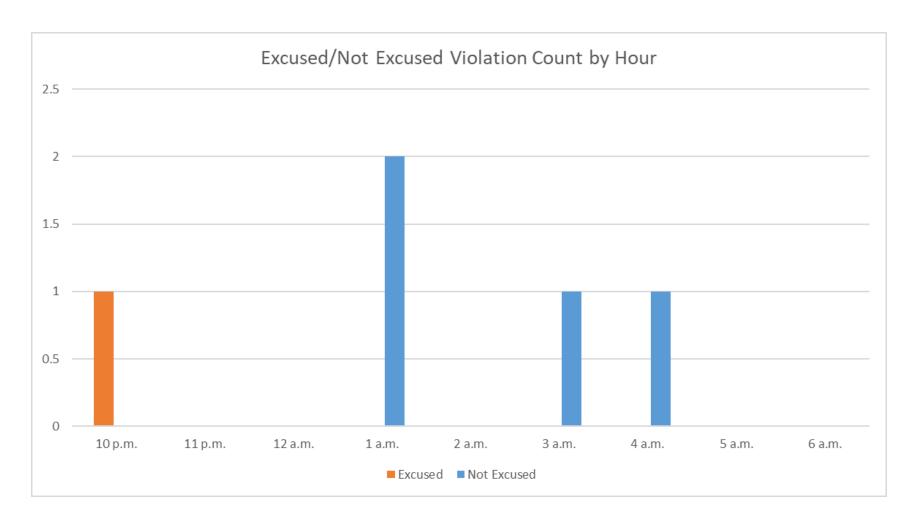


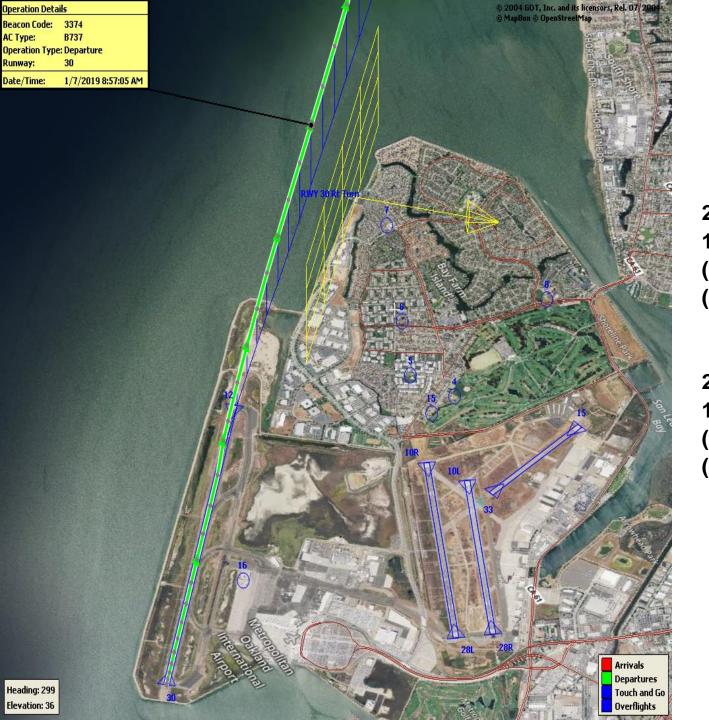
Runway 12 Night Departure NAP

2018Q4 98% Compliance (191 total departures) (4 non-compliant)

2017Q4 86% Compliance (153 total departures) (22 non-compliant)

Runway 12 Night Departure Non-Compliant Count by Hour





Runway 30 Bay Farm Right Turn NAP

2018Q4 100% Compliance (18,679 total departures) (70 non-compliant)

2017Q4 100% Compliance (18,846 total departures) (1 non-compliant)

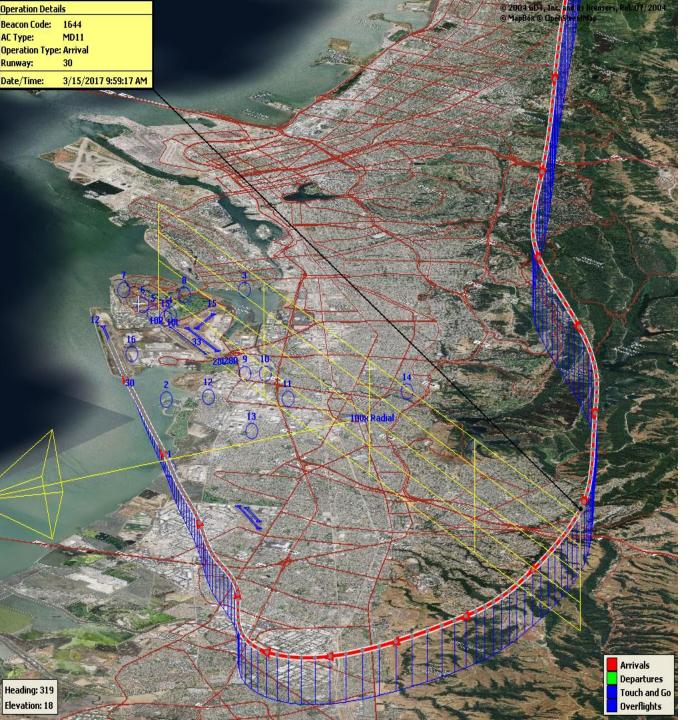


Runway 30 East Turn NAP

2018Q4 99% Compliance (5,762 total departures) (52 non-compliant)

*2018Q4 Excused Departures = 44

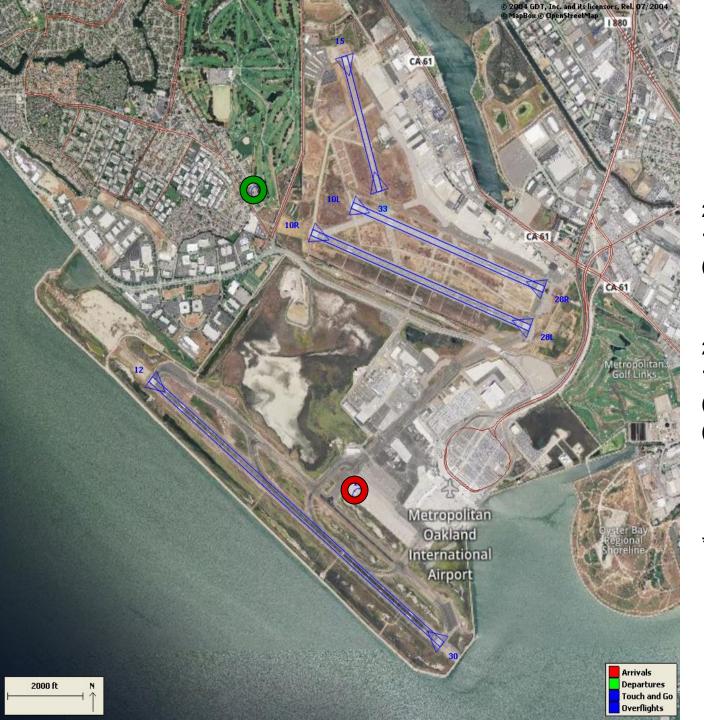
2017Q4 100% Compliance (5,772 total departures) (8 non-compliant)



100 Degree Radial At 3,000 ft. NAP

2018Q4 99% Compliance (1,419 total landings) (11 non-compliant)

2017Q4 99% Compliance (3,074 total landings) (46 non-compliant)



Engine Run-up NAP

2018Q4 100% Compliance (9 engine run-ups)* (0 non-compliant)

2017Q4 100% Compliance (7 engine run-ups) (0 non-compliant)

*Only above idle-power run-ups recorded.

Table 1. North Field Night Aircraft Departure SEL Noise Measurements

Total Aircraft Departures = 109

Fourth Quarter 2018 (10:00 p.m. to 7:00 a.m.)

NMT	Aircraft Noise	Aircraft Noise Events SEL 80 - 84.9 dBA		Aircraft Noise Events SEL 85 - 89.9 dBA		Aircraft Noise Events SEL ≥ 90 dBA			Total Aircraft		
Number	SEL 80 dBA	Amount	Nightly Average	As Percentage of Departures	Amount	Nightly Average	As Percentage of Departures	Amount	Nightly Average	As Percentage of Departures	Noise Events
1	0	0	0.0	0.0%	0	0.0	0.0%	0	0.0	0.0%	0
2	4	1	0.0	0.2%	0	0.0	0.0%	0	0.0	0.0%	5
3	13	1	0.0	0.2%	0	0.0	0.0%	0	0.0	0.0%	14
4	10	18	0.2	3.2%	6	0.1	1.1%	4	0.0	0.7%	38
5	13	9	0.1	1.6%	4	0.0	0.7%	9	0.1	1.6%	35
6	6	3	0.0	0.5%	4	0.0	0.7%	5	0.1	0.9%	18
7	3	3	0.0	0.5%	6	0.1	1.1%	0	0.0	0.0%	12
8	6	6	0.1	1.1%	1	0.0	0.2%	0	0.0	0.0%	13
9	4	6	0.1	1.1%	3	0.0	0.5%	1	0.0	0.2%	14
10	13	7	0.1	1.2%	2	0.0	0.4%	0	0.0	0.0%	22
11	0	4	0.0	0.7%	0	0.0	0.0%	0	0.0	0.0%	4
12	7	1	0.0	0.2%	0	0.0	0.0%	0	0.0	0.0%	8
13	2	0	0.0	0.0%	0	0.0	0.0%	0	0.0	0.0%	2
14	2	0	0.0	0.0%	0	0.0	0.0%	0	0.0	0.0%	2
All NMTs	83	59	1	0	26	0	0	19	0	0	187

Table 2. Aircraft SEL Noise Measurements in Alameda - Total Aircraft Departures = 92

Fourth Quarter 2018 (10:00 p.m. to 7:00 a.m.)

NMT	Aircraft Noise Events Below	А	ircraft Noise SEL 80 - 84			ircraft Nois SEL 85 - 89		A	ircraft Noise SEL ≥ 90		Total Aircraft
Number	SEL 80 dBA	Amount	Nightly Average	As Percentage of Departures	Amount	Nightly Average	As Percentage of Departures	Amount	Nightly Average	As Percentage of Departures	Noise Events
3	13	1	0.0	0.4%	0	0.0	0.0%	0	0.0	0.0%	14
4	10	18	0.2	7.5%	6	0.1	2.5%	4	0.0	1.7%	38
5	13	9	0.1	3.8%	4	0.0	1.7%	9	0.1	3.8%	35
6	6	3	0.0	1.3%	4	0.0	1.7%	5	0.1	2.1%	18
7	3	3	0.0	1.3%	6	0.1	2.5%	0	0.0	0.0%	12
8	6	6	0.1	2.5%	1	0.0	0.4%	0	0.0	0.0%	13
Total	51	40	0.4		21	0.2		18	0.2		130

Table 3. Aircraft SEL Noise Measurements in San Leandro - Total Aircraft Departures = 17

Fourth Quarter 2018 (10:00 p.m. to 7:00 a.m.)

NMT	Aircraft Noise	3EL 60 - 64.9 UBA		A	Aircraft Noise Events SEL 85 - 89.9 dBA		Aircraft Noise Events SEL ≥ 90 dBA			Total Aircraft	
Number	SEL 80 dBA	Amount	Nightly Average	As Percentage of Departures	Amount	Nightly Average	As Percentage of Departures	Amount	Nightly Average	As Percentage of Departures	Noise Events
2	4	1	0.0	0.3%	0	0.0	0.0%	0	0.0	0.0%	5
9	4	6	0.1	1.8%	3	0.0	0.9%	1	0.0	0.3%	14
10	13	7	0.1	2.1%	2	0.0	0.6%	0	0.0	0.0%	22
11	0	4	0.0	1.2%	0	0.0	0.0%	0	0.0	0.0%	4
12	7	1	0.0	0.3%	0	0.0	0.0%	0	0.0	0.0%	8
13	2	0	0.0	0.0%	0	0.0	0.0%	0	0.0	0.0%	2
14	2	0	0.0	0.0%	0	0.0	0.0%	0	0.0	0.0%	2
Total	32	19	0.2		5	0.1		1	0.0		57

Rolling Take-off Night Departure Procedure (1:00 to 5:00 AM) Fourth Quarter 2018, NMT 2

	Aircraft Departures		Recorded Noise Events (a)	Lmax Average	SEL Average	Avg. Duration (seconds)
		Basel	line (November 200	2) [A]		
DC10/MD10		87	32	69	78	22
MD11		32	13	70	79	24
A306		67	21	67	77	25
		Fo	ourth Quarter 2018	[B]		
	Total [X]	Est. Avg. Monthly [X/3]				
B763	129	43	45	65	74	13
DC10/MD10	33	11	20	66	75	18
MD11	238	79	173	67	77	19
A306	96	32	51	65	74	14
B757	172	57	76	65	75	15
B77L	76	25	27	66	74	14
			Difference [A-B]			
DC10/MD10		-76	-12	-3	-3	-4
MD11		47	160	-3	-2	-5
A306		-35	30	-2	-3	-11

⁽a) For the current calendar quarter reported, A NOM S does not correlate all departures to their respective noise events; that is most, but not all, aircraft back-blast noise events are effectively correlated as the program software algorithms may misidentify an aircraft noise event.

Source: A NOM S (Airport Noise and Operations Monitoring System)

Rolling Take-off Night Departure Procedure (1:00 to 5:00 AM) Fourth Quarter 2017, NMT 2

	Aircraft Departures		Recorded Noise Events (a)	Lmax Average	SEL Average	Avg. Duration (seconds)
		Basel	ine (November 200	2) [A]		
DC10/MD10		87	32	69	78	22
MD11		32	13	70	79	24
A306		67	21	67	77	25
		Fo	ourth Quarter 2017	[B]		
	Total [X]	Est. Avg. Monthly [X/3]				
B763	135	45	38	65	74	15
DC10/MD10	72	24	38	66	76	18
MD11	249	83	178	68	77	20
A306	87	29	41	66	75	17
B757	192	64	83	66	75	16
B77L	72	24	22	66	75	17
			Difference [A-B]			
DC10/MD10		-63	6	-3	-2	-4
MD11		51	165	-2	-2	-4
A306		-38	20	-1	-2	-8

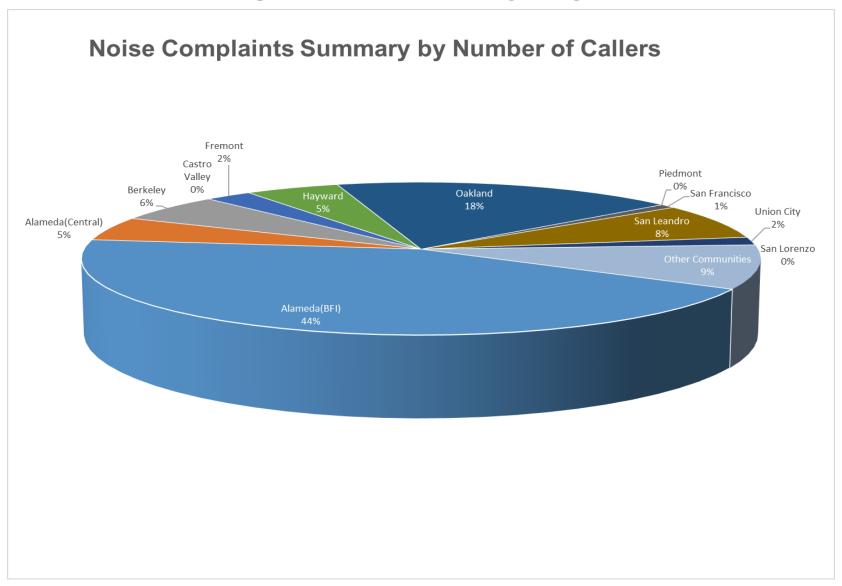
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Source: A NOM S (A irport Noise and Operations Monitoring System)

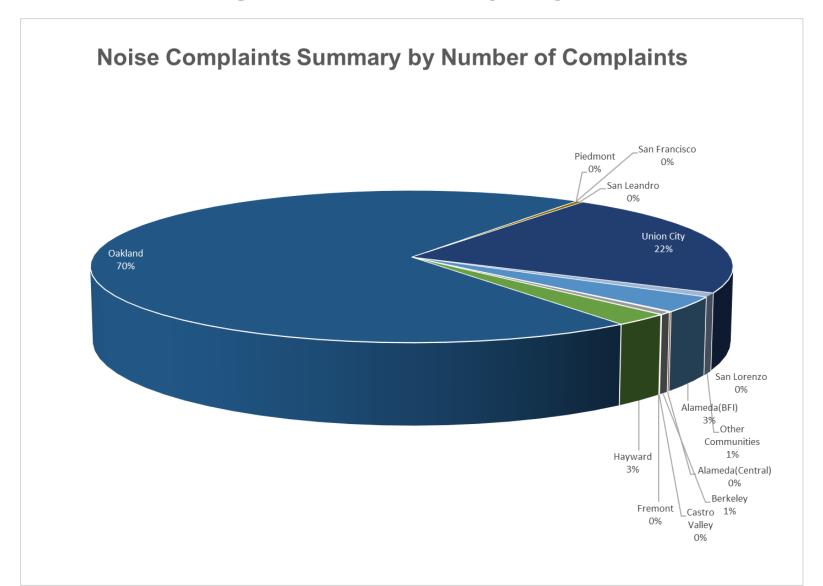
Oakland International Airport Noise Complaint Summary October 2018

	20.0.00				
Community	Callers	Complaints			
Alameda(BFI)	52	255			
Alameda(Central)	6	10			
Berkeley	7	45			
Castro Valley	0	0			
Fremont	3	4			
Hayw ard	6	201			
Oakland	22	5434			
Piedmont	0	0			
San Francisco	1	1			
San Leandro	9	30			
Union City	2	1751			
San Lorenzo	0	0			
Other Communities	11	68			
Total	119	7799			
	Complaints by Type				
Website	6	99			
E-mail	70	7003			
Phone	9	97			
Con	plaints by Time of Day				
Day (0700 - 1900)	2063				
Evening (1900 - 2200)	3	03			
Night (2200 - 0700)	54	5433			
Compl	aints by Type of Operation				
Arrivals	62	298			
Departures	14	471			
Over-flights		5			
Touch & Go	:	25			
Not Linked to an Operation		0			
Comp	plaints by Type of Aircraft				
Business Jet	3	79			
Helicopter		14			
Jet	72	7228			
Military		2			
Not Reported		0			
Other	36				
Propeller		63			
Turbo-prop		77			

Number of Callers October 2018



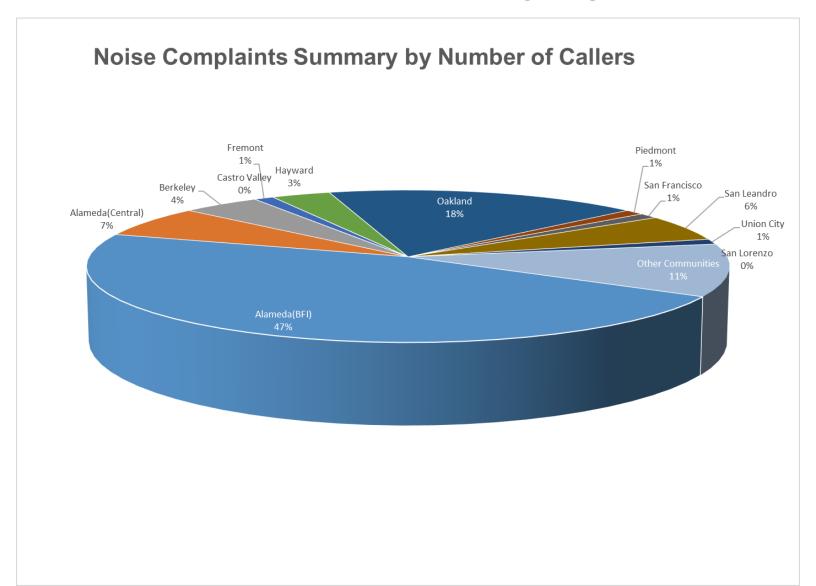
Number of Complaints October 2018



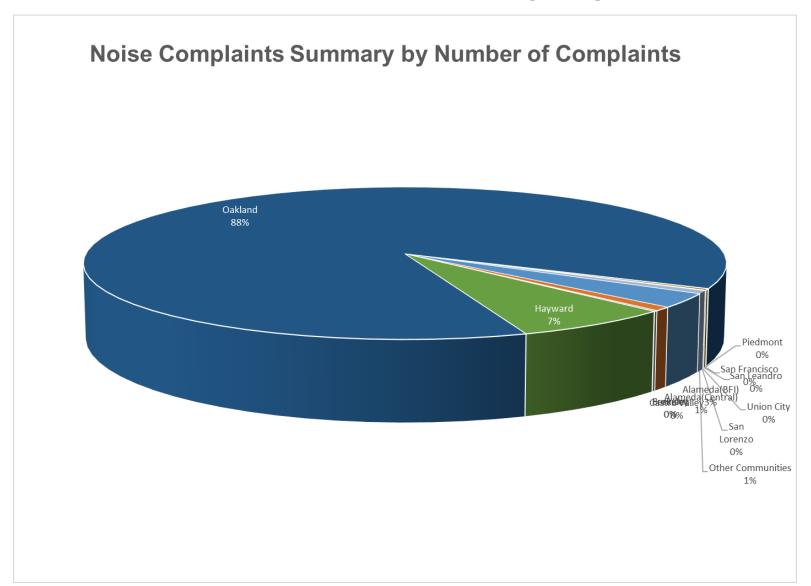
Oakland International Airport Noise Complaint Summary November 2018

	November 2018				
Community	Callers	Complaints			
Alameda(BFI)	42	154			
Alameda(Central)	6	42			
Berkeley	4	9			
Castro Valley	0	0			
Fremont	1	1			
Hayw ard	3	367			
Oakland	16	4474			
Piedmont	1	2			
San Francisco	1	2			
San Leandro	5	13			
Union City	1	6			
San Lorenzo	0	0			
Other Communities	10	34			
Total	90	5104			
	Complaints by Type				
Website		301			
E-mail		4765			
Phone		38			
Con	plaints by Time of Day				
Day (0700 - 1900)		598			
Evening (1900 - 2200)		839			
Night (2200 - 0700)		3667			
Comple	aints by Type of Operation				
Arrivals		4580			
Departures		521			
Over-flights		2			
Touch & Go		1			
Not Linked to an Operation		0			
Comp	plaints by Type of Aircraft				
Business Jet		122			
Helicopter	6				
Jet		4863			
Military		0			
Not Reported		0			
Other	11				
Propeller		49			
Turbo-prop		53			

Number of Callers November 2018



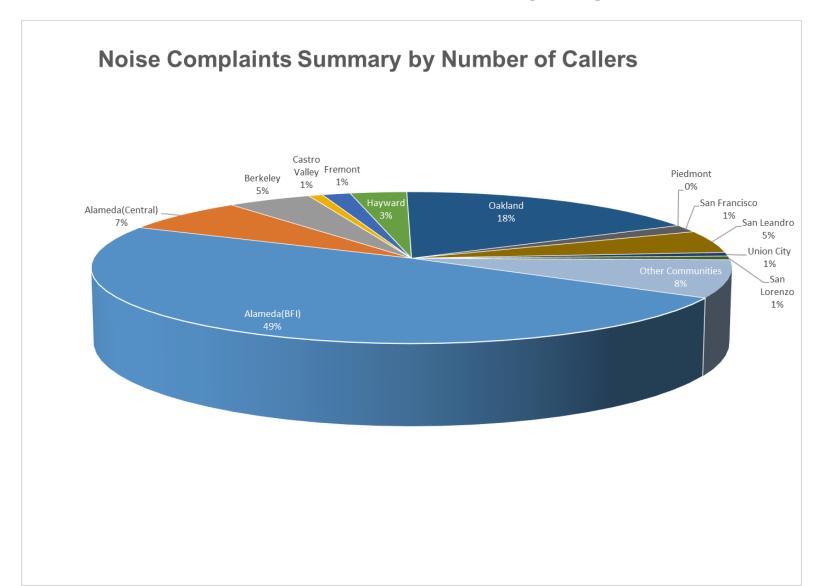
Number of Complaints November 2018



Oakland International Airport Noise Complaint Summary December 2018

	December 2010				
Community	Callers	Complaints			
Alameda(BFI)	61	287			
Alameda(Central)	9	32			
Berkeley	6	16			
Castro Valley	1	1			
Fremont	2	7			
Hayw ard	4	313			
Oakland	22	3777			
Piedmont	0	0			
San Francisco	2	8			
San Leandro	6	33			
Union City	1	552			
San Lorenzo	1	4			
Other Communities	10	75			
Total	125	5105			
	Complaints by Type				
Website	513				
E-mail	2	4553			
Phone		39			
Con	plaints by Time of Day				
Day (0700 - 1900)	1	1185			
Evening (1900 - 2200)		809			
Night (2200 - 0700)	3	3111			
Comple	aints by Type of Operation				
Arrivals	4	1099			
Departures		989			
Over-flights		4			
Touch & Go		13			
Not Linked to an Operation		0			
Comp	laints by Type of Aircraft				
Business Jet		277			
Helicopter		8			
Jet	4738				
Military		0			
Not Reported		0			
Other		7			
Propeller		48			
Turbo-prop		27			

Number of Callers December 2018



Number of Complaints December 2018

