NOISE FORUM SUMMARY

North/South Field Working Groups

NOISE ABATEMENT REPORT

1.110

100.00

SECOND QUARTER 2023

Disclaimer

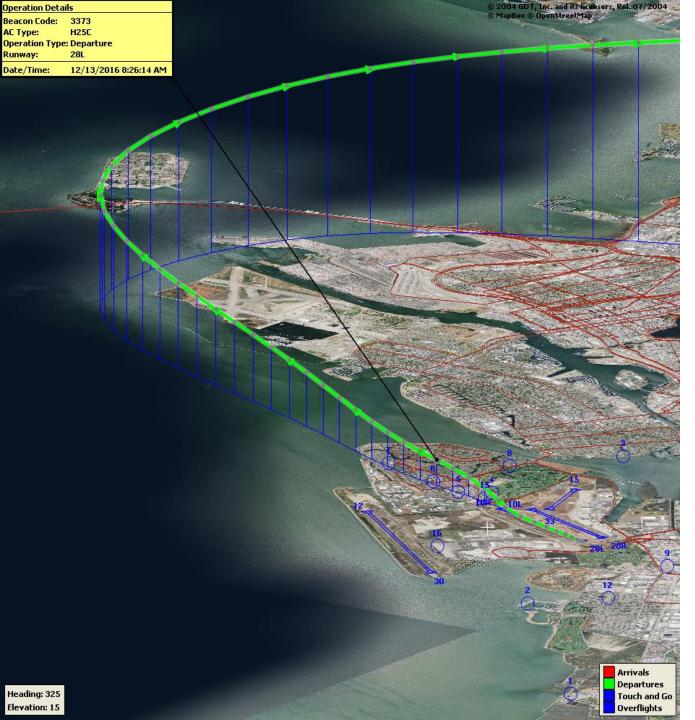
The Port of Oakland's Airport Noise and Operations Monitoring System (ANOMS) is the source of the data used in this report. Although ANOMS is a very sophisticated computer program that provides a state-of-the-art solution for collecting aircraft noise complaints. The number of aircraft noise complaints in the report are for informational purposes. Airport staff carefully reviews the data for accuracy and will make corrections whenever possible.

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Compliance Monitoring Quarterl Second Quarte		rison
	202202	202

	2022Q2 2023Q2		3Q2	
	Compl.	N/C	Compl.	N/C
Runway 28R/L Jet Departure Compliance	93%	7%	93%	7%
Total Airport-wide Corporate Jet Departures	2,442	172	2,061	159
Runway 10R/L Jet Landing Compliance	86%	14%	75%	25%
Total Southeast Plan Corporate Jet Landings	30	5	36	12
North Field VFR Departure Compliance	86%	14%	96%	4%
Total Runways 28R/L & 33 Departures	258	41	249	11
North Field Quiet Hours Compliance	72%	28%	86%	14%
Total North Field Quiet Hours Departures	114	44	168	28
Runway 30 BFI Right Turn Departure Compliance	100%	0%	100%	0%
Total Runway 30 Turbojet Departures	17,737	3	16,661	2
Night Time Departure Compliance	99%	1%	99%	1%
Total Runway 30 Night Turbojet Departures	3,422	32	3,571	46
Runway 12 Night Departure Compliance	98%	2%	96%	4%
Total Runway 12 Night Turbojet Departures	49	1	64	3
Runway 30 East Turn Departure Compliance	100%	0%	100%	0%
Total Runway 30 East Turn Departures	4,109	5	3,953	1
100 Degree Radial Turbojet Landing Compliance	99%	1%	98%	2%
Total 100 Degree Radial Turbojet Landings	1,138	12	749	13
Engine Runup Program Compliance	100%	0%	100%	0%
Total Evening and Nighttime Engine Runups	6	0	9	0
Note: NC means non-compliant. Percentage v	alues are r	ounded out		

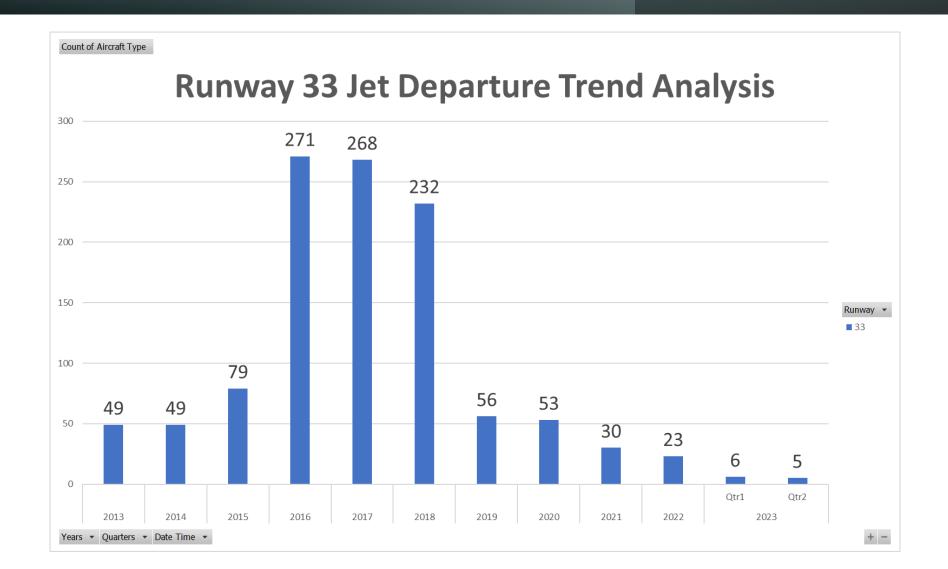


Runway 28R/L Jet Departure NAP

2023Q2 93% Compliance (2,220 total departures) (159 non-compliant)

2022Q2 93% Compliance (2,614 total departures) (172 non-compliant)

RUNWAY 33 JET DEPARTURES SECOND Quarter 2023

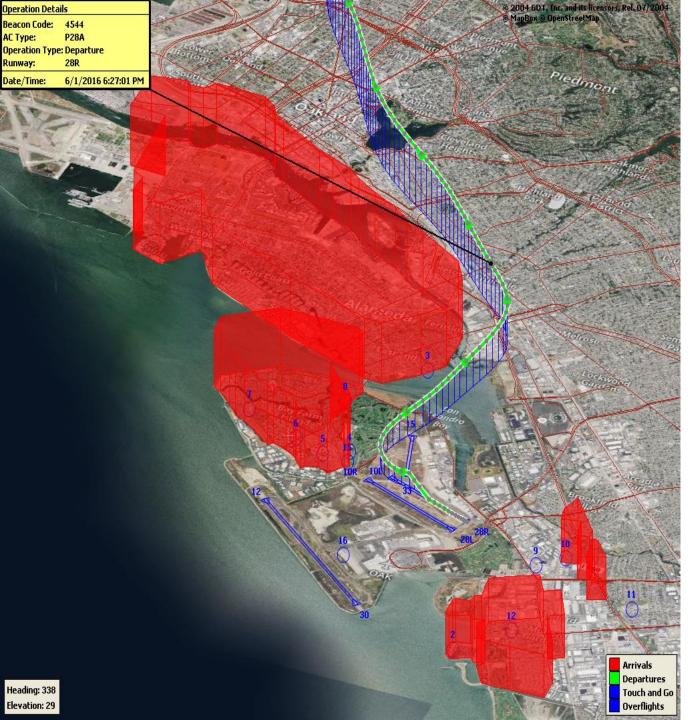




Runway 10R/L Jet Landing NAP

2023Q2 75% Compliance (48 total landings) (12 non-compliant)

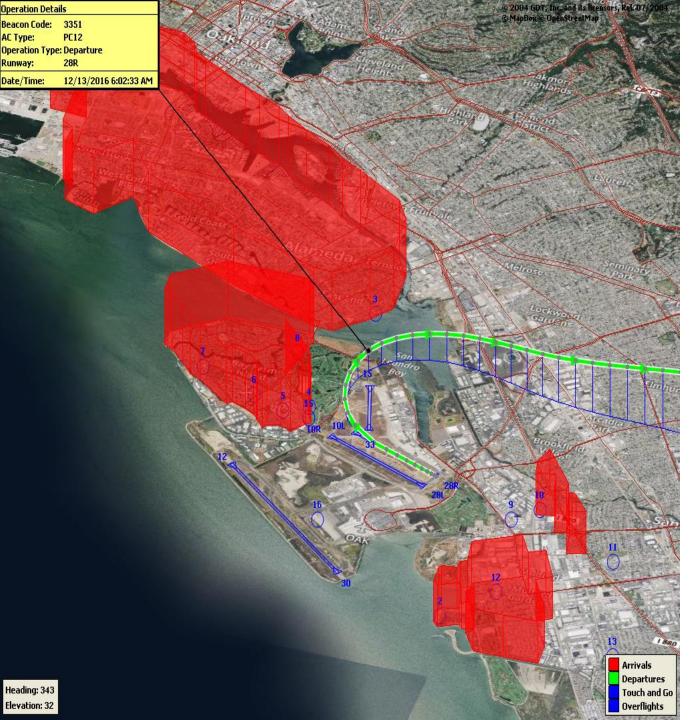
2022Q2 86% Compliance (35 total landings) (5 non-compliant)



VFR Aircraft Departure NAP

2023Q2 96% Compliance (260 total departures) (11 non-compliant)

2022Q2 86% Compliance (299 total departures) (41 non-compliant)

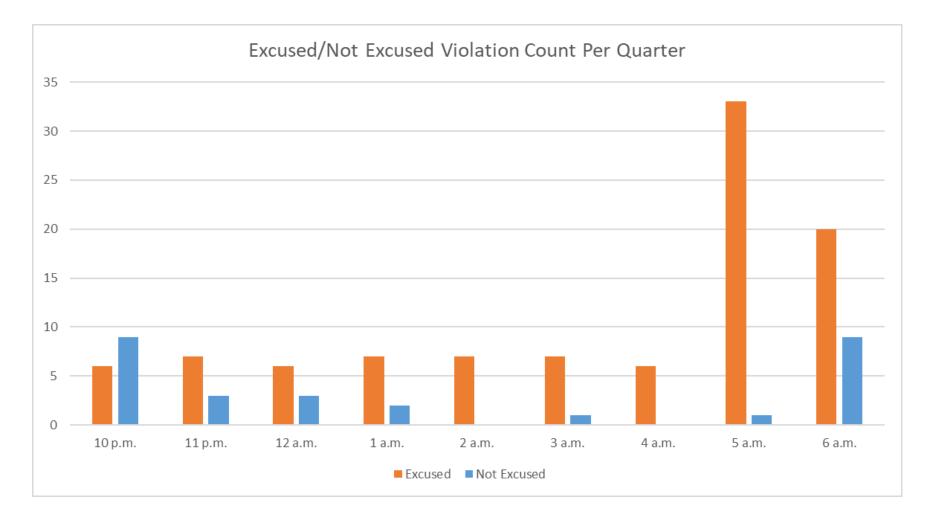


North Field Quiet Hours NAP

2023Q2 86% Compliance (196 total departures) (28 non-compliant)

2022Q2 72% Compliance (158 total departures) (44 non-compliant)

Quartely North Field Quiet Hours NAP Non-Compliant Per Quarter





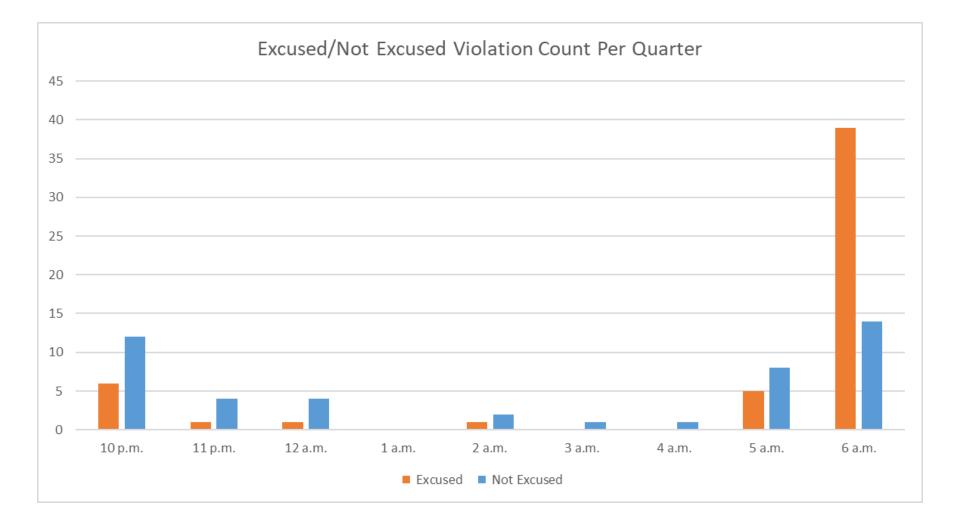
Night Time Departure NAP

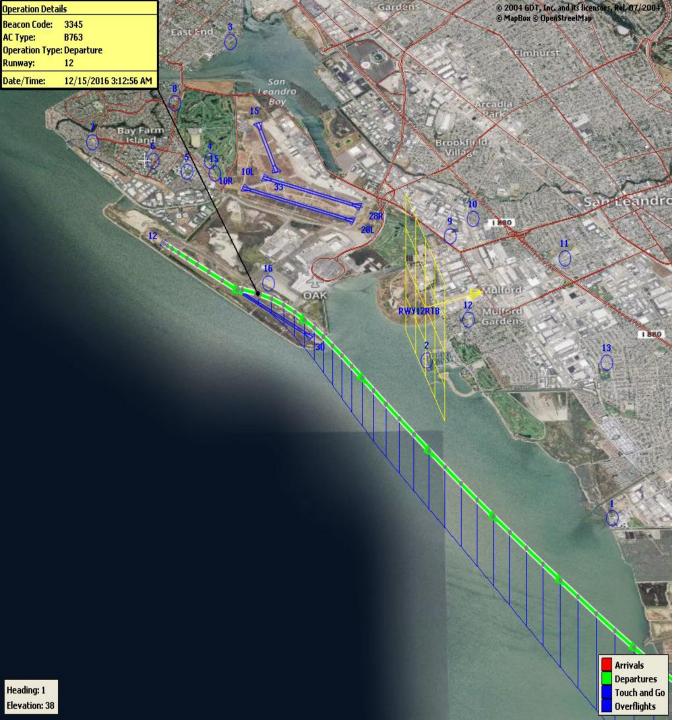
2023Q2 99% Compliance (3,617 total departures) (46 non-compliant)

*REBAS Gate non-compliant = 46

2022Q2 99% Compliance (3,454 total departures) (32 non-compliant)

Quarterly Night Time NAP Non-Compliant Count Per Quarter



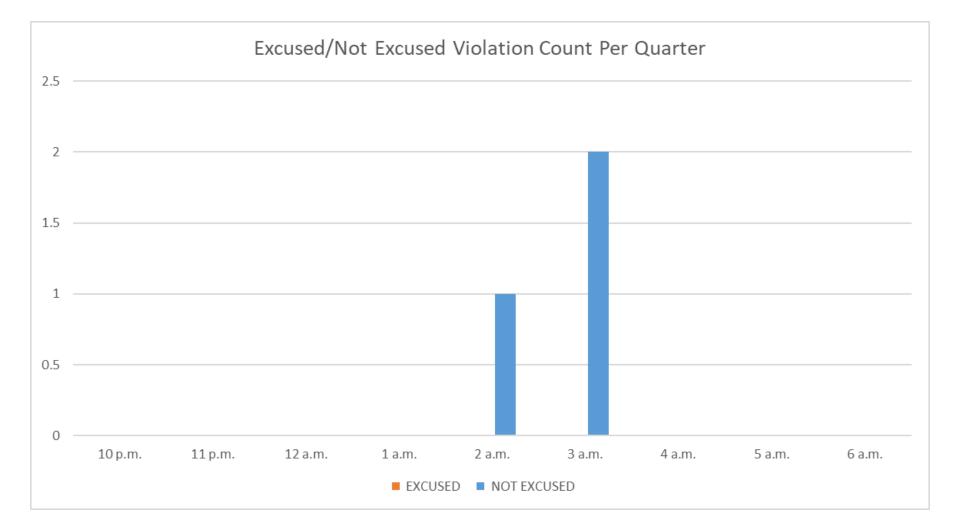


Runway 12 Night Departure NAP

2023Q2 96% Compliance (67 total departures) (3 non-compliant)

2022Q2 98% Compliance (50 total departures) (1 non-compliant)

Quartely Runway 12 Night Departure Non-Compliant Count Per Quarter





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> Arrivals Departures

Touch and Go

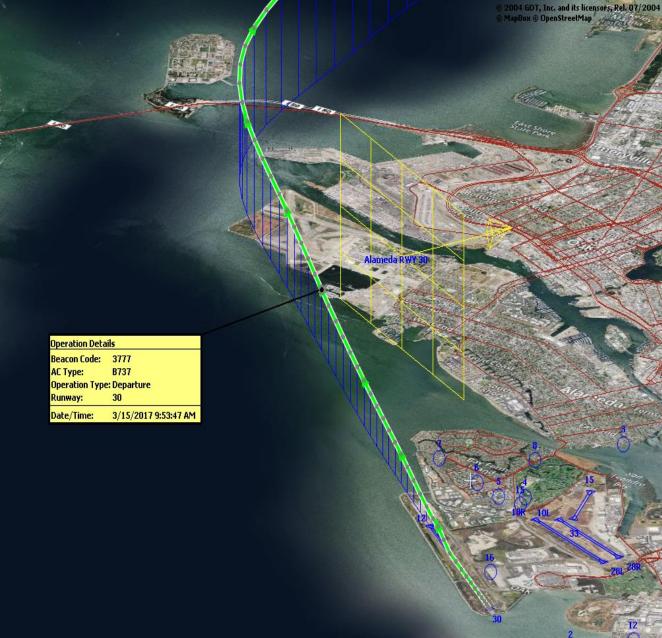
Overflights

Runway 30 Bay Farm Right Turn NAP

2023Q2 100% Compliance (16,663 total departures) (2 non-compliant)

2022Q2 100% Compliance (17,740 total departures) (3 non-compliant)

Heading: 299 Elevation: 36



Runway 30 East Turn NAP

2023Q2 100% Compliance (3,954 total departures) (1 non-compliant)

*Excused Departures = 12

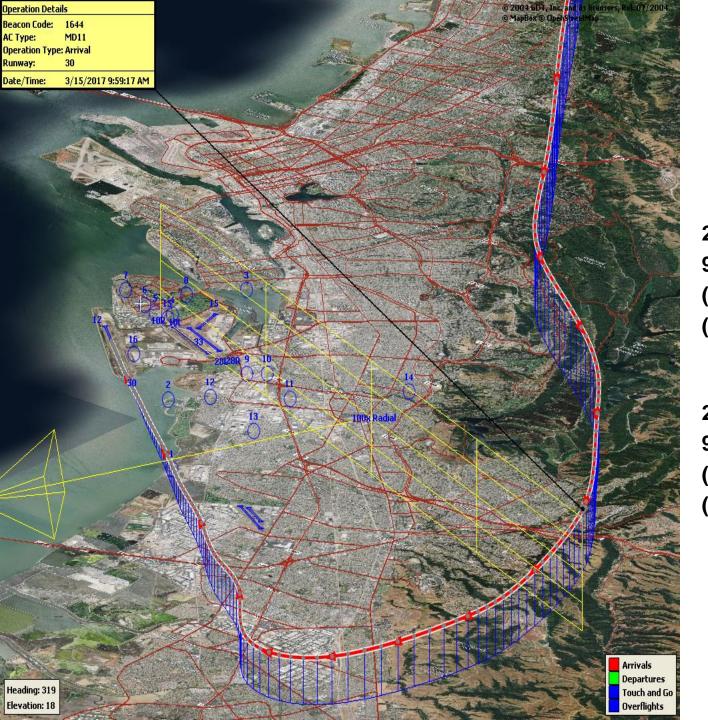
Arrivals Departures

Touch and Go

Overflights

2022Q2 100% Compliance (4,114 total departures) (5 non-compliant)

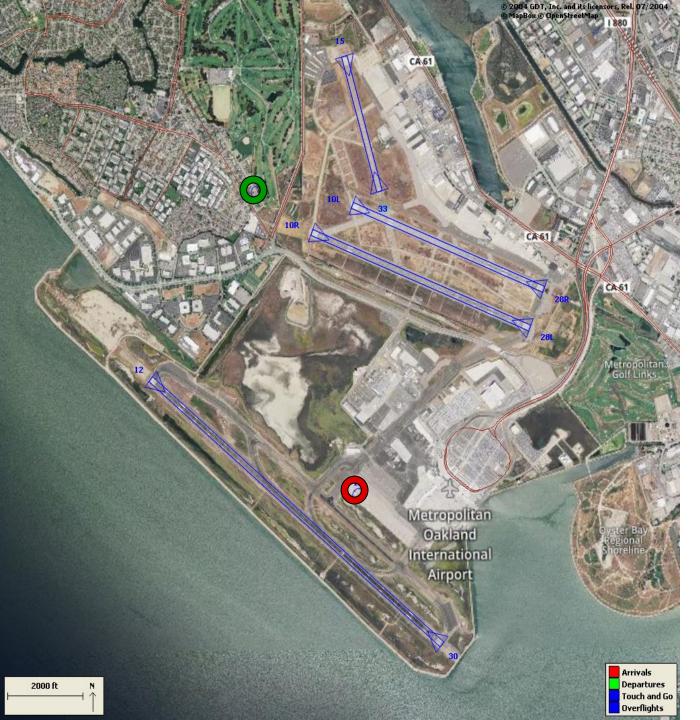
Heading: 328 Elevation: 21



100 Degree Radial At 3,000 ft. NAP

2023Q2 98% Compliance (762 total landings) (13 non-compliant)

2022Q2 99% Compliance (1,150 total landings) (12 non-compliant)



Engine Run-up NAP

2023Q2 100% Compliance (9 engine run-ups)* (0 non-compliant)

2022Q2 100% Compliance (6 engine run-ups) (0 non-compliant)

*Only above idle-power run-ups recorded.

Compliance Monitoring Quarterly Summary Comparison Second Quarter 2023 - Quarter-to-Quarter

	2023	3Q1	2023	3Q2
	Compl.	N/C	Compl.	N/C
Runway 28R/L Jet Departure Compliance	94%	6%	93%	7%
Total Airport-wide Corporate Jet Departures	2,400	156	2,061	159
Runway 10R/L Jet Landing Compliance	84%	16%	75%	25%
Total Southeast Plan Corporate Jet Landings	566	107	36	12
North Field VFR Departure Compliance	92%	8%	96%	4%
Total Runways 28R/L & 33 Departures	172	15	249	11
North Field Quiet Hours Compliance	85%	15%	86%	16%
Total North Field Quiet Hours Departures	150	26	168	28
Runway 30 BFI Right Turn Departure Compliance	100%	0%	100%	0%
Total Runway 30 Turbojet Departures	12,497	7	16,661	2
Night Time Departure Compliance	99%	1%	99%	1%
Total Runway 30 Night Turbojet Departures	2,366	19	3,571	46
Runway 12 Night Departure Compliance	94%	6%	96%	4%
Total Runway 12 Night Turbojet Departures	769	52	64	3
Runway 30 East Turn Departure Compliance	100%	0%	100%	0%
Total Runway 30 East Turn Departures	2,759	2	3,953	1
100 Degree Radial Turbojet Landing Compliance	98%	2%	98%	2%
Total 100 Degree Radial Turbojet Landings	737	18	749	13
Engine Runup Program Compliance	100%	0%	100%	0%
Total Evening and Nighttime Engine Runups	8	0	9	0
Note: №C means non-compliant. Percentage va	lues are rou	unded out.		

				Tota		Departure					
				Second Qu	uarter 2023	(10:00 p.m	. to 7:00 a.m.)				
NMT	Aircraft Noise	А	ircraft Nois SEL 80 - 84		Α	ircraft Noise SEL 85 - 89		Α	ircraft Nois SEL ≥ 90		Total Aircraft
Number	Events Below 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	0	0	0.0	0.0%	0	0.0	0.0%	0	0.0	0.0%	0
3	37	2	0.0	0.4%	0	0.0	0.0%	0	0.0	0.0%	39
4	65	53	0.6	9.3%	28	0.3	4.9%	42	0.5	7.4%	188
5	69	15	0.2	2.6%	16	0.2	2.8%	47	0.5	8.3%	147
6	58	13	0.1	2.3%	23	0.3	4.1%	32	0.4	5.6%	126
7	19	17	0.2	3.0%	34	0.4	6.0%	11	0.1	1.9%	81
8	42	31	0.3	5.5%	3	0.0	0.5%	0	0.0	0.0%	76
9	9	5	0.1	0.9%	3	0.0	0.5%	0	0.0	0.0%	17
10	45	6	0.1	1.1%	3	0.0	0.5%	0	0.0	0.0%	54
11	4	2	0.0	0.4%	0	0.0	0.0%	0	0.0	0.0%	6
12	2	0	0.0	0.0%	1	0.0	0.2%	0	0.0	0.0%	3
13	2	0	0.0	0.0%	0	0.0	0.0%	0	0.0	0.0%	2
14	28	0	0.0	0.0%	0	0.0	0.0%	0	0.0	0.0%	28
AllNMTs	380	144	2	0	111	1	0	132	1	0	767

 Table 1. North Field Night Aircraft Departure SEL Noise Measurements

 Total Aircraft Departures = 196

		Table 2.	Aircraft S	EL NOISE Meas	urements	in Alamed	a - Total Aircra	itt Departu	ires = 185			
				Second Qua	arter 2023	(10:00 p.m.	to 7:00 a.m.)					
NMT	Aircraft Noise Events Below	SEL 60 - 64.9 UBA SEL 63 - 69.9 UB										
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	Evente	
3	37	2	0.0	0.8%	0	0.0	0.0%	0	0.0	0.0%	39	
4	65	53	0.6	22.2%	28	0.3	11.7%	42	0.5	17.6%	188	
5	69	15	0.2	6.3%	16	0.2	6.7%	47	0.5	19.7%	147	
6	58	13	0.1	5.4%	23	0.3	9.6%	32	0.4	13.4%	126	
7	19	17	0.2	7.1%	34	0.4	14.2%	11	0.1	4.6%	81	
8	42	31	0.3	13.0%	3	0.0	1.3%	0	0.0	0.0%	76	
Total	290	131	1.5		104	1.2		132	1.5		657	

Table 3. Aircraft SEL Noise Measurements in San Leandro - Total Aircraft Departures = 11

				Second Qua	arter 2023	(10:00 p.m.	to 7:00 a.m.)				
NMT	Aircraft Noise Events Below	A	ircraft Noise SEL 80 - 84		A	Aircraft Noise Events SEL 85 - 89.9 dBA			Aircraft Noise Events SEL ≥ 90 dBA		
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	0	0	0.0	0.0%	0	0.0	0.0%	0	0.0	0.0%	0
9	9	5	0.1	1.5%	3	0.0	0.9%	0	0.0	0.0%	17
10	45	6	0.1	1.8%	3	0.0	0.9%	0	0.0	0.0%	54
11	4	2	0.0	0.6%	0	0.0	0.0%	0	0.0	0.0%	6
12	2	0	0.0	0.0%	1	0.0	0.3%	0	0.0	0.0%	3
13	2	0	0.0	0.0%	0	0.0	0.0%	0	0.0	0.0%	2
14	28	0	0.0	0.0%	0	0.0	0.0%	0	0.0	0.0%	28
Total	90	13	0.1		7	0.1		0	0.0		110

Table 2. Aircraft SEL Noise Measurements in Alameda - Total Aircraft Departures = 185



The Rolling Take-Off Night Procedure Report (1:00 to 5:00 AM) is dependent on back-blast data collected by the noise monitor deployed at the San Leandro Marina (NMT #2). Due to single family home construction work at the San Leandro Marina, the noise monitor had to be removed on <u>April 20,</u> <u>2023</u>. The monitor will be redeployed once works are complete. This report cannot be created.



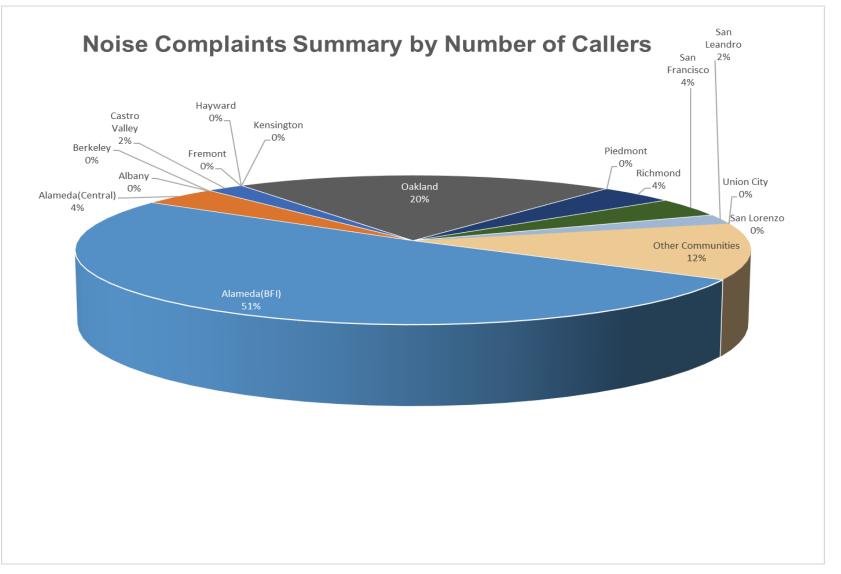
	Rollin		Departure Proce nd Quarter 2022,	•	DAM)	
		craft rtures	Recorded Noise Events (a)	Lmax Average	SEL Average	Avg. Duration (seconds)
		Basel	ine (November 200	2) [A]		
DC10/MD10		87	32	69	78	22
MD11		32	13	70	79	24
A306		67	21	67	77	25
		Se	cond Quarter 2022	[B]		
	Total [X]	Est. Avg. Monthly [X/3]				
B763	283	94	54	64	73	15
DC10/MD10	16	5	7	66	75	16
MD11	201	67	83	66	74	16
A306	16	5	1	62	69	5
B757	212	71	44	62	73	16
B77L	114	38	12	64	72	11
			Difference [A-B]			
DC10/MD10		-82	-25	-3	-3	-6
MD11		35	70	-4	-5	-8
A306		-62	-20	-5	-8	-20

back-blast noise events are effectively correlated as the program software algorithms may misidentify an aircraft noise event. Source: ANOM S (Airport Noise and Operations Monitoring System)

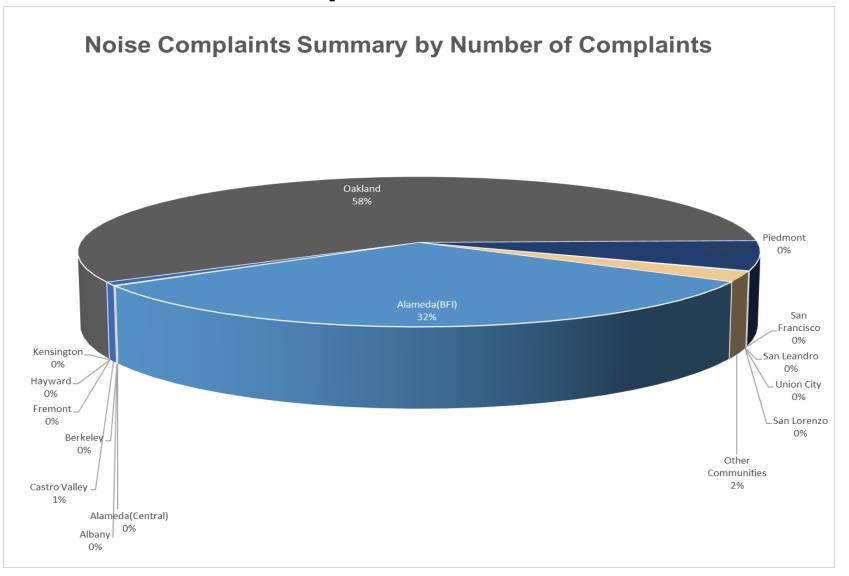
	International Airport	
Noise	Complaint Summary	
	April 2023	
Community	Callers	Complaints
Alameda(BFI)	25	1010
Alameda(Central)	2	4
Albany	0	0
Berkeley	0	0
Castro Valley	1	23
Fremont	0	0
Hayward	0	0
Kensington	0	0
Oakland	10	1808
Piedmont	0	0
Richmond	2	198
San Francisco	2	5
San Leandro	1	1
Union City	0	0
San Lorenzo	0	0
Other Communities	6	68
Total	49	3117
Co	omplaints by Type	
E-mail	1	777
View point App	1	340
Comp	plaints by Time of Day	
Day(0700 - 1900)		632
Evening (1900 - 2200)	1	110
Night(2200 - 0700)	1	375
Complai	nts by Type of Operation	
Arrivals	1	837
Departures	1	105
Dver-flights		125
Touch & Go		50
Not Linked to an Operation		0
Compla	aints by Type of Aircraft	
Business Jet	· · · · · · · · · · · · · · · · · · ·	156
Helicopter		65
Jet	2	495
Vilitary		0
Not Reported (not linked to an aircraft)		0
Other (Type information not available)		5
Propeller	2	249
Turbo-prop	,	147



Number of Callers April 2023



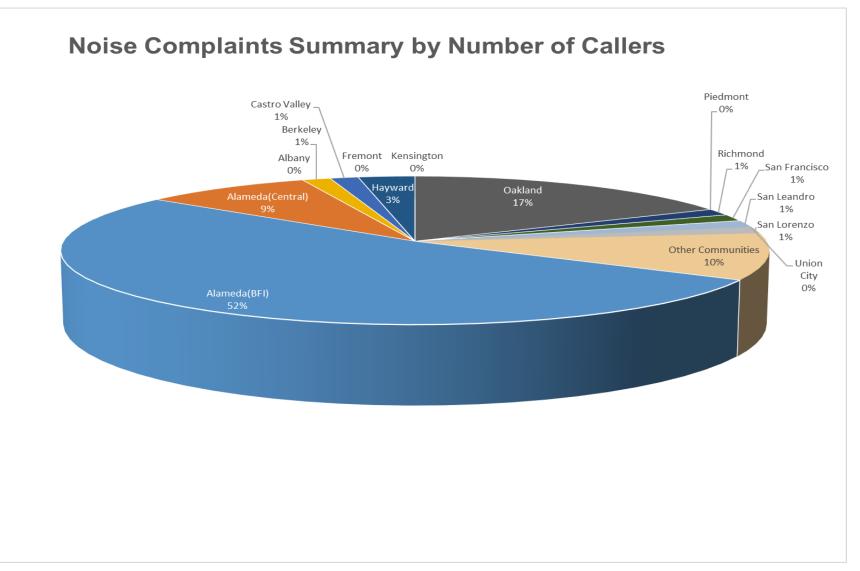
Number of Complaints April 2023



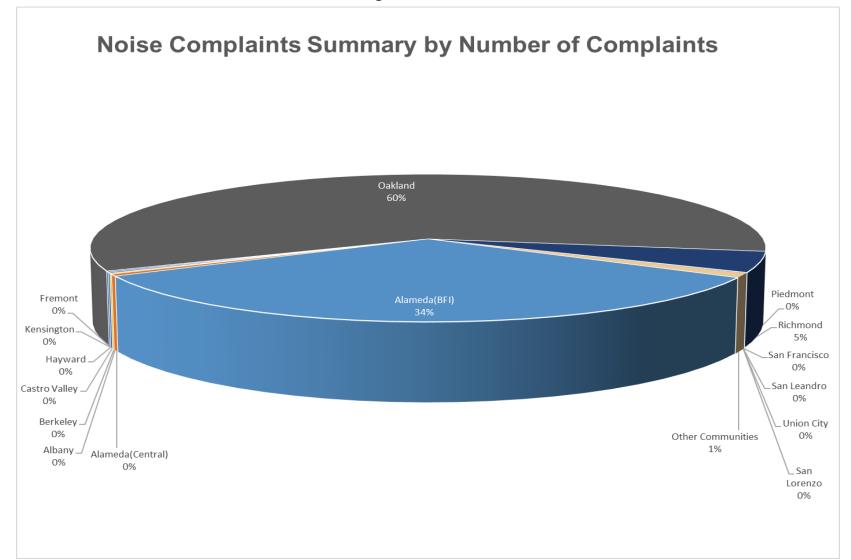
Oakland International Airport Noise Complaint Summary May 2023					
Community	Callers	Complaints			
Alameda(BFI)	36	1725			
Alameda(Central)	6	23			
Albany	0	0			
Berkeley	1	10			
Castro Valley	1	13			
Fremont	0	0			
Hayw ard	2	11			
Kensington	0	0			
Dakland	12	3052			
Piedmont	0	0			
Richmond	1	232			
San Francisco	1	1			
San Leandro	1	5			
Union City	0	0			
San Lorenzo	1	1			
Other Communities	7	51			
Total	69	5124			
Con	nplaints by Type				
-mail	30)29			
/iew point App		095			
Compla	ints by Time of Day				
Day(0700 - 1900)	7	28			
Evening (1900 - 2200)	5	73			
Night(2200 - 0700)	38	323			
Complaints	s by Type of Operation				
Arrivals	2	578			
Departures	22	208			
Dver-flights	2	57			
Touch & Go	8	31			
Not Linked to an Operation		0			
Complain	ts by Type of Aircraft				
Business Jet	2	43			
Helicopter		32			
Jet	4	176			
Vilitary		0			
lot Reported (not linked to an aircraft)		0			
Other (Type information not available)		11			
Propeller	4	66			
Turbo-prop	1	46			



Number of Callers May 2023



Number of Complaints May 2023

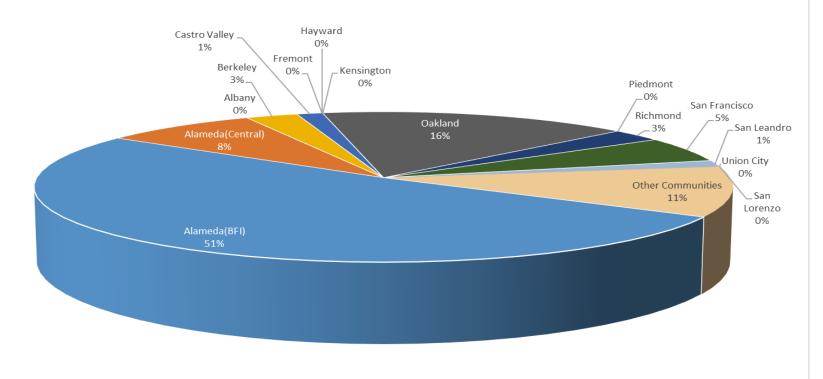


	International Airport	
Noise (Complaint Summary	
	June 2023	
Community	Callers	Complaints
Alameda(BFI)	38	1400
Alameda(Central)	6	24
Albany	0	0
Berkeley	2	104
Castro Valley	1	13
Fremont	0	0
Hayward	0	0
Kensington	0	0
Oakland	12	3495
Piedmont	0	0
Richmond	2	425
San Francisco	4	5
San Leandro	1	1
Union City	0	0
San Lorenzo	0	0
Other Communities	8	57
Total	74	5524
Cc	omplaints by Type	
E-mail	3.	756
/iew point App	1	768
Comp	laints by Time of Day	
Day(0700 - 1900)	1:	370
Evening (1900 - 2200)	5	23
Night (2200 - 0700)	31	631
Complair	nts by Type of Operation	
Arrivals	24	459
Departures	29	950
Dver-flights		17
Touch & Go		98
Not Linked to an Operation		0
	ints by Type of Aircraft	
Business Jet		66
Helicopter	2	209
Jet		715
Vilitary		0
Not Reported (not linked to an aircraft)		1
Other (Type information not available)		3
Propeller		<u>5</u> 1
Turbo-prop		79



Number of Callers June 2023

Noise Complaints Summary by Number of Callers



Number of Complaints June 2023

