

NOISE FORUM SUMMARY

North/South Field Working Groups



NOISE ABATEMENT REPORT

SECOND QUARTER 2021

Compliance Monitoring Quarterly Summary Comparison Second Quarter 2021				
	2020Q2		2021Q2	
	Compl.	N/C	Compl.	N/C
Runway 28R/L Jet Departure Compliance	96%	4%	95%	5%
Total Airport-wide Corporate Jet Departures	1,106	49	2,610	146
Runway 10R/L Jet Landing Compliance	85%	15%	100%	0%
Total Southeast Plan Corporate Jet Landings	11	2	2	0
North Field VFR Departure Compliance	87%	13%	96%	4%
Total Runways 28R/L & 33 Departures	124	18	278	11
North Field Quiet Hours Compliance	78%	22%	89%	11%
Total North Field Quiet Hours Departures	162	47	164	20
Runway 30 BFI Right Turn Departure Compliance	100%	0%	100%	0%
Total Runway 30 Turbojet Departures	7,676	3	14,590	0
Night Time Departure Compliance	99%	1%	99%	0%
Total Runway 30 Night Turbojet Departures	1,825	26	2,676	21
Runway 12 Night Departure Compliance	92%	8%	0%	0%
Total Runway 12 Night Turbojet Departures	48	4	0	0
Runway 30 East Turn Departure Compliance	100%	0%	100%	0%
Total Runway 30 East Turn Departures	2,712	3	4,449	17
100 Degree Radial Turbojet Landing Compliance	99%	1%	98%	2%
Total 100 Degree Radial Turbojet Landings	540	6	723	12
Engine Runup Program Compliance	100%	0%	100%	0%
Total Evening and Nighttime Engine Runups	11	0	4	0
Note: N/C means non-compliant. Percentage values are rounded out.				

Operation Details
Beacon Code: 3373
AC Type: H25C
Operation Type: Departure
Runway: 28L
Date/Time: 12/13/2016 8:26:14 AM

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Runway 28R/L Jet Departure NAP

2021Q2
95% Compliance
(2,756 total departures)
(146 non-compliant)

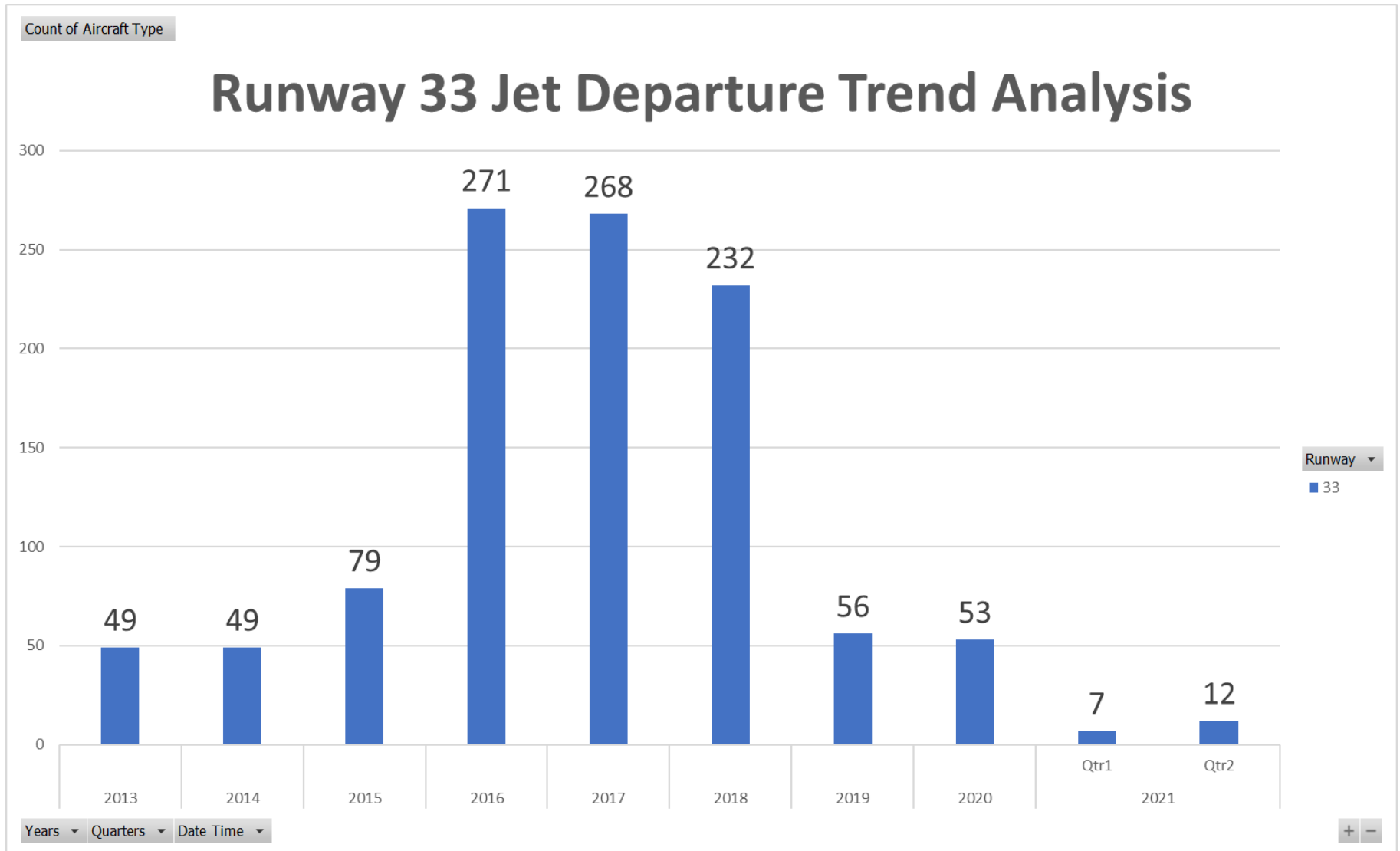
2020Q2
96% Compliance
(1,155 total departures)
(49 non-compliant)

Heading: 325
Elevation: 15

Arrivals
Departures
Touch and Go
Overflights

RUNWAY 33 JET DEPARTURES

Second Quarter 2021



Operation Details
Beacon Code: 4564
AC Type: C550
Operation Type: Arrival
Runway: 10R
Date/Time: 12/15/2016 8:15:42 PM

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Runway 10R/L Jet Landing NAP

2021Q2

100% Compliance
(2 total landings)
(0 non-compliant)

2020Q2

85% Compliance
(13 total landings)
(2 non-compliant)

Heading: 325
Elevation: 15

Arrivals
Departures
Touch and Go
Overflights



Operation Details
Beacon Code: 4544
AC Type: P28A
Operation Type: Departure
Runway: 28R
Date/Time: 6/1/2016 6:27:01 PM

Heading: 338
Elevation: 29



VFR Aircraft Departure NAP

2021Q2

96% Compliance
(289 total departures)
(11 non-compliant)

2020Q2

87% Compliance
(142 total departures)
(18 non-compliant)

Operation Details
Beacon Code: 3351
AC Type: PC12
Operation Type: Departure
Runway: 28R
Date/Time: 12/13/2016 6:02:33 AM

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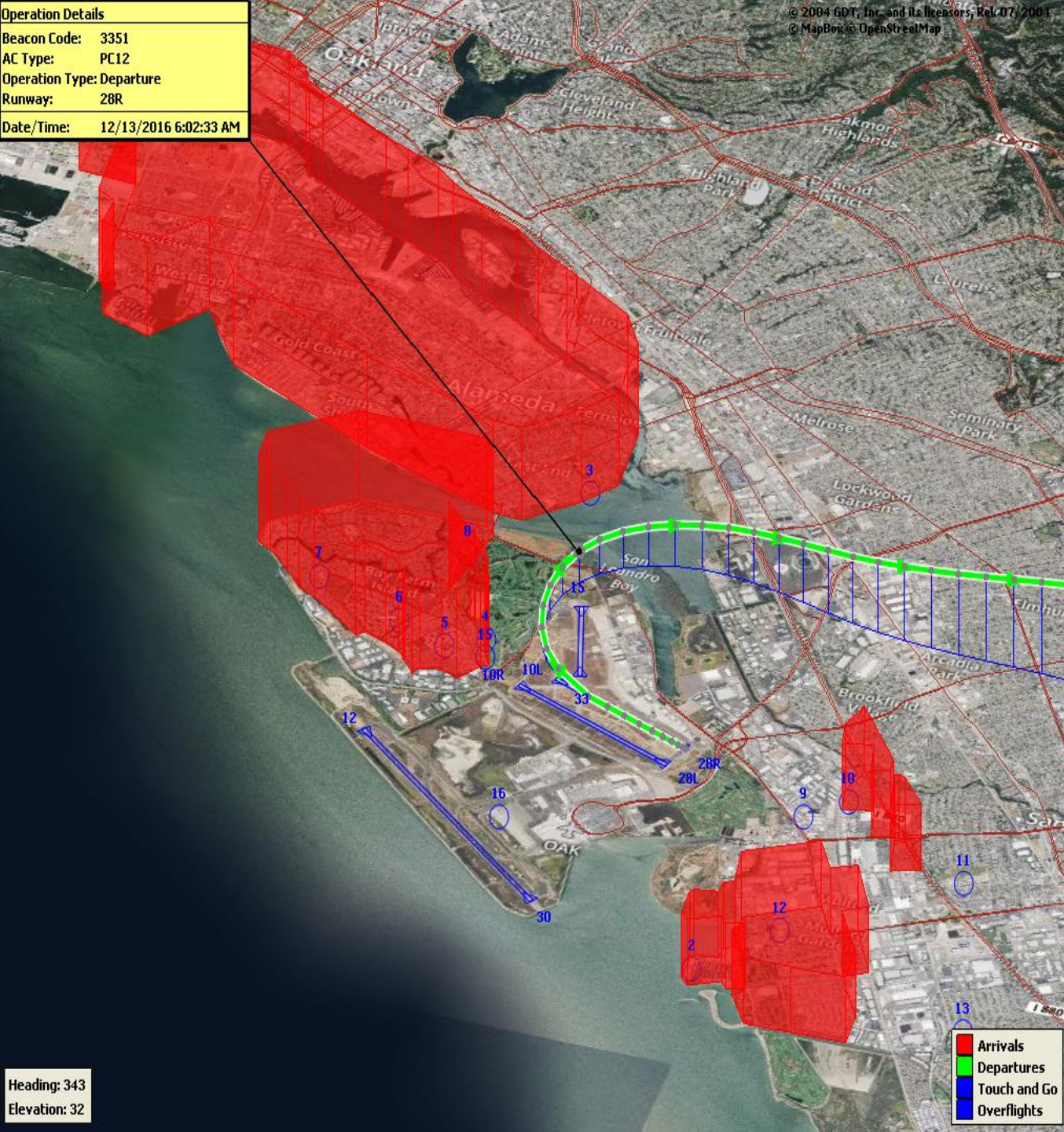
North Field Quiet Hours NAP

2021Q2
89% Compliance
(184 total departures)
(20 non-compliant)

2020Q2
78% Compliance
(209 total departures)
(47 non-compliant)

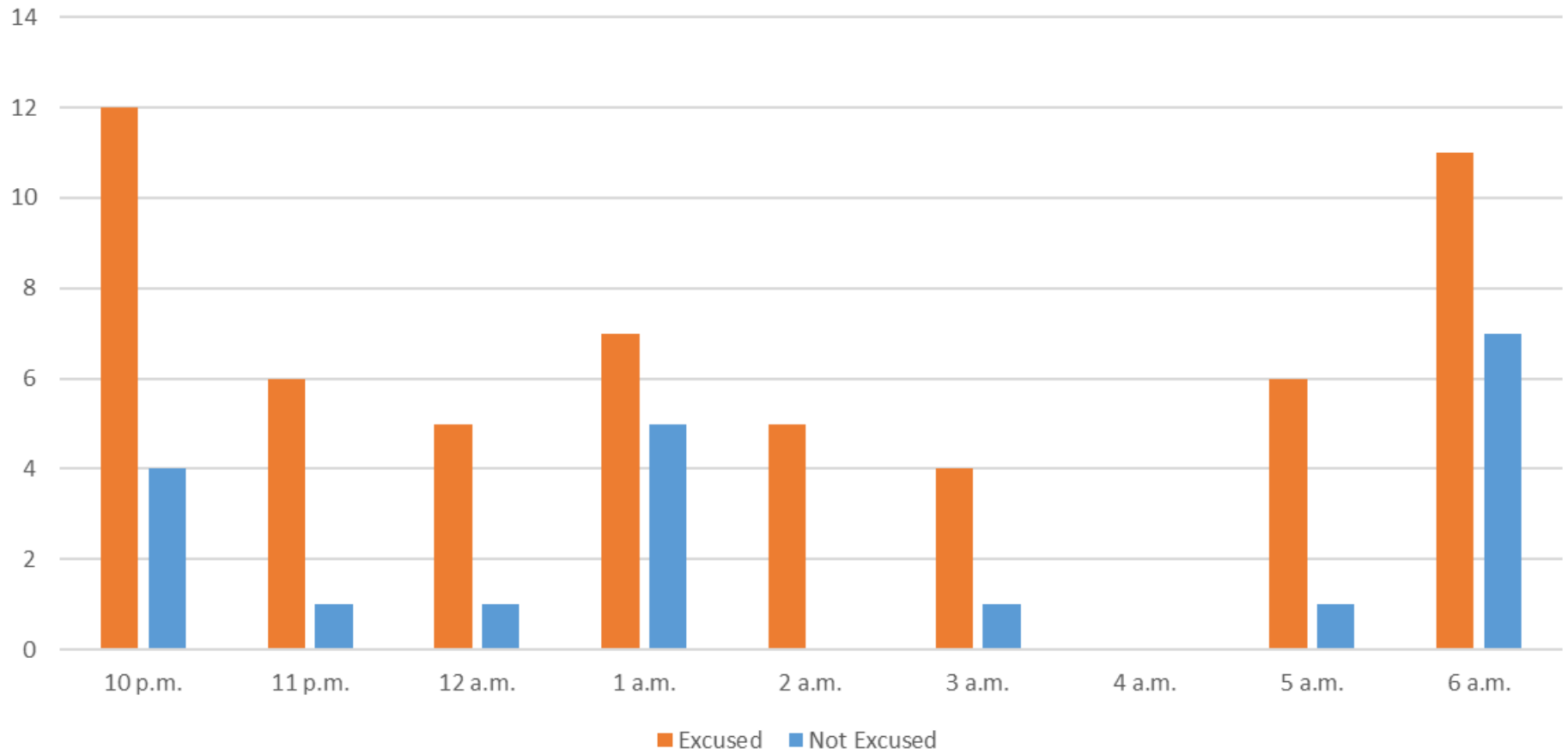
Heading: 343
Elevation: 32

- Arrivals
- Departures
- Touch and Go
- Overflights



North Field Quiet Hours NAP Non-Compliant by Hour

Excused/Not Excused Violation Count by Hour



Operation Details
 Beacon Code: 3641
 AC Type: B737
 Operation Type: Departure
 Runway: 30
 Date/Time: 8/22/2017 10:16:59 PM



Night Time Departure NAP

2021Q2

99% Compliance
(2,697 total departures)
(21 non-compliant)

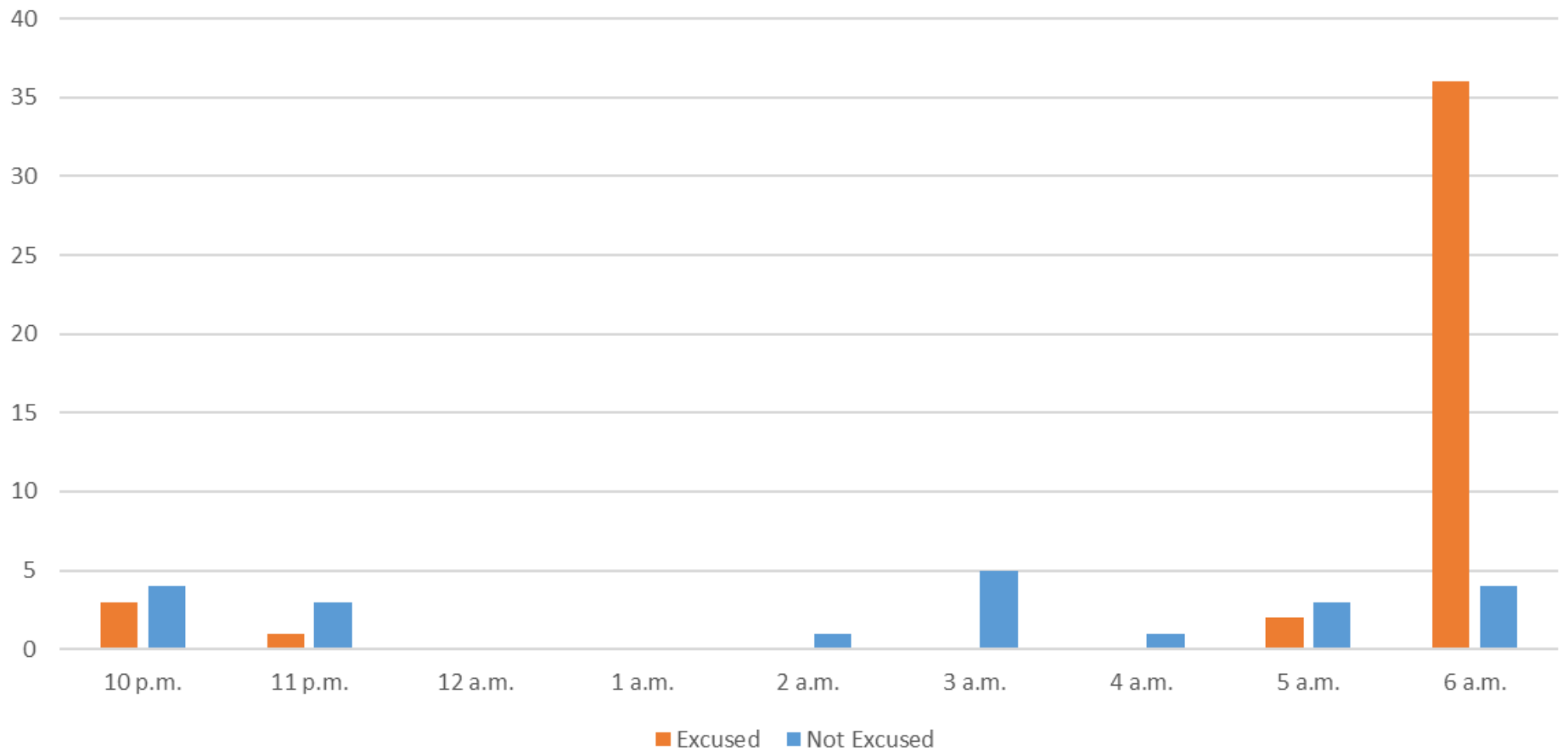
***REBAS Gate non-compliant = 19**

2020Q2

99% Compliance
(1,851 total departures)
(26 non-compliant)

Night Time NAP Non-Compliant Count by Hour

Excused/Not Excused Violation Count by Hour



Operation Details
Beacon Code: 3345
AC Type: B763
Operation Type: Departure
Runway: 12
Date/Time: 12/15/2016 3:12:56 AM

Heading: 1
Elevation: 38



Runway 12 Night Departure NAP

2021Q2

N/A

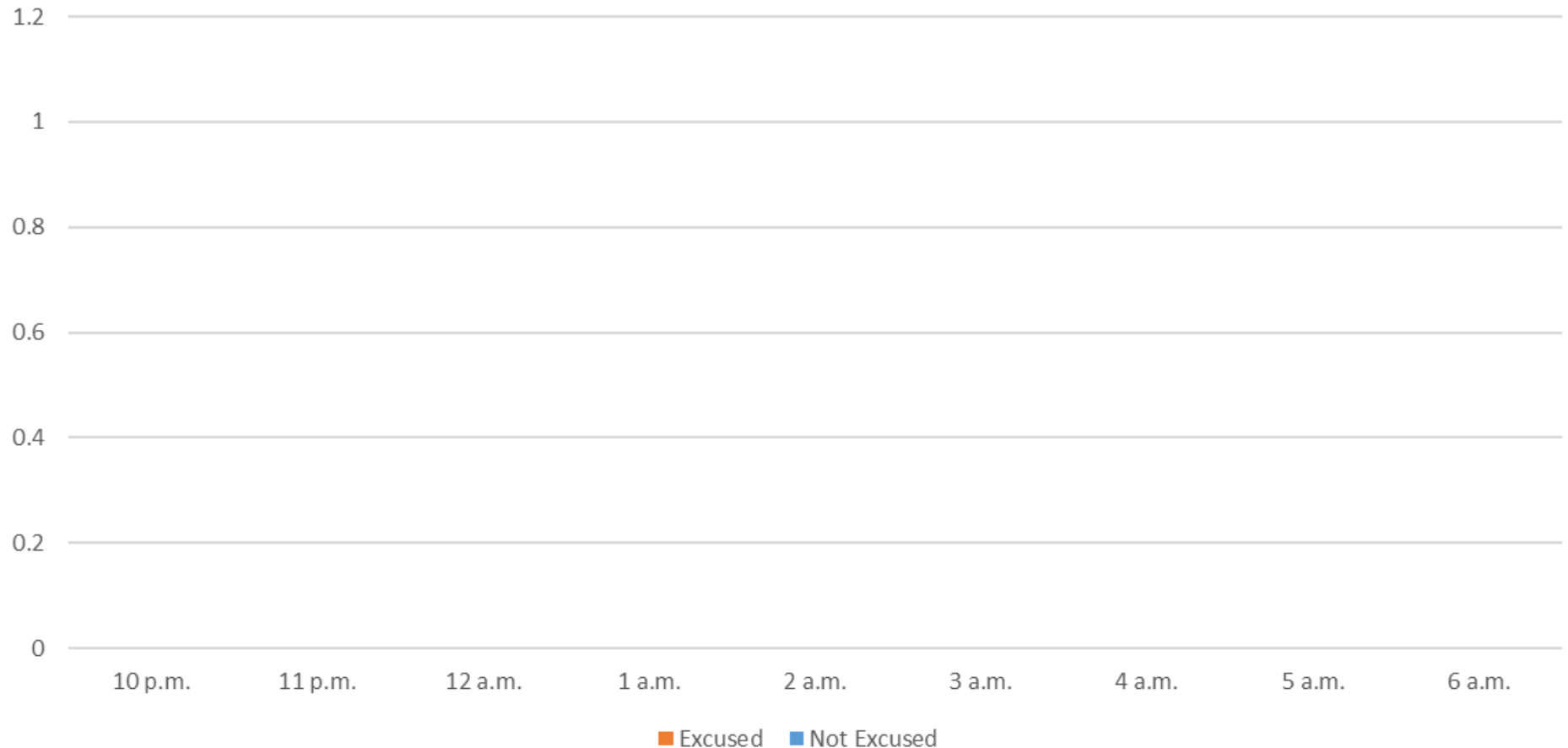
(0 total departures)
(0 non-compliant)

2020Q2

92% Compliance
(52 total departures)
(4 non-compliant)

Runway 12 Night Departure Non-Compliant Count by Hour

Excused/Not Excused Violation Count by Hour



Operation Details	
Beacon Code:	3374
AC Type:	B737
Operation Type:	Departure
Runway:	30
Date/Time:	1/7/2019 8:57:05 AM

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Runway 30 Bay Farm Right Turn NAP

2021Q2
100% Compliance
(14,590 total departures)
(0 non-compliant)

2020Q2
100% Compliance
(7,679 total departures)
(3 non-compliant)

Heading: 299
Elevation: 36



Runway 30 East Turn NAP

2021Q2
100% Compliance
(4,466 total departures)
(17 non-compliant)

*Excused Departures = 40

2020Q2
100% Compliance
(2,715 total departures)
(3 non-compliant)

Operation Details

Beacon Code: 3777

AC Type: B737

Operation Type: Departure

Runway: 30

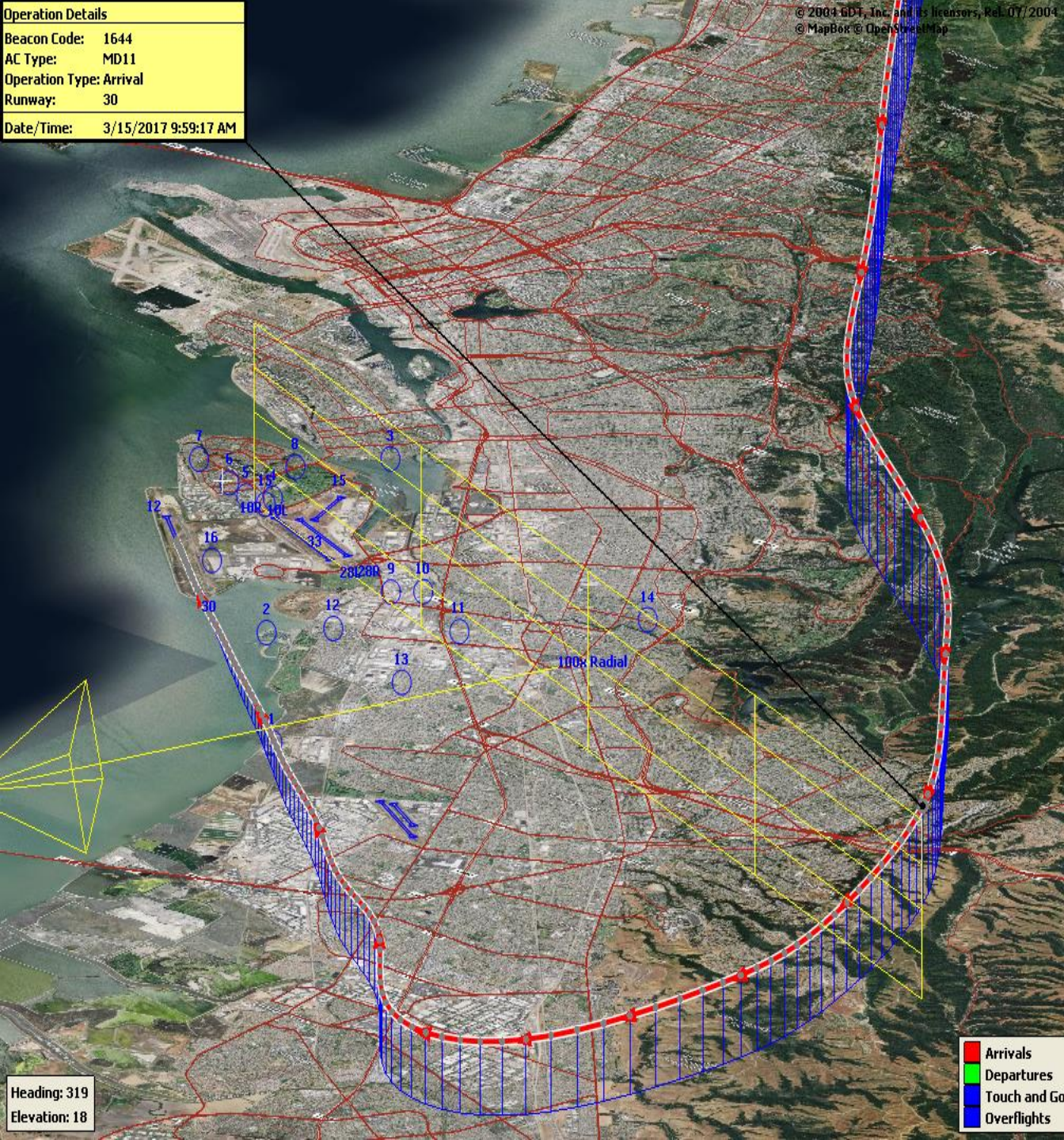
Date/Time: 3/15/2017 9:53:47 AM

Alameda Rwy 30



Operation Details	
Beacon Code:	1644
AC Type:	MD11
Operation Type:	Arrival
Runway:	30
Date/Time:	3/15/2017 9:59:17 AM

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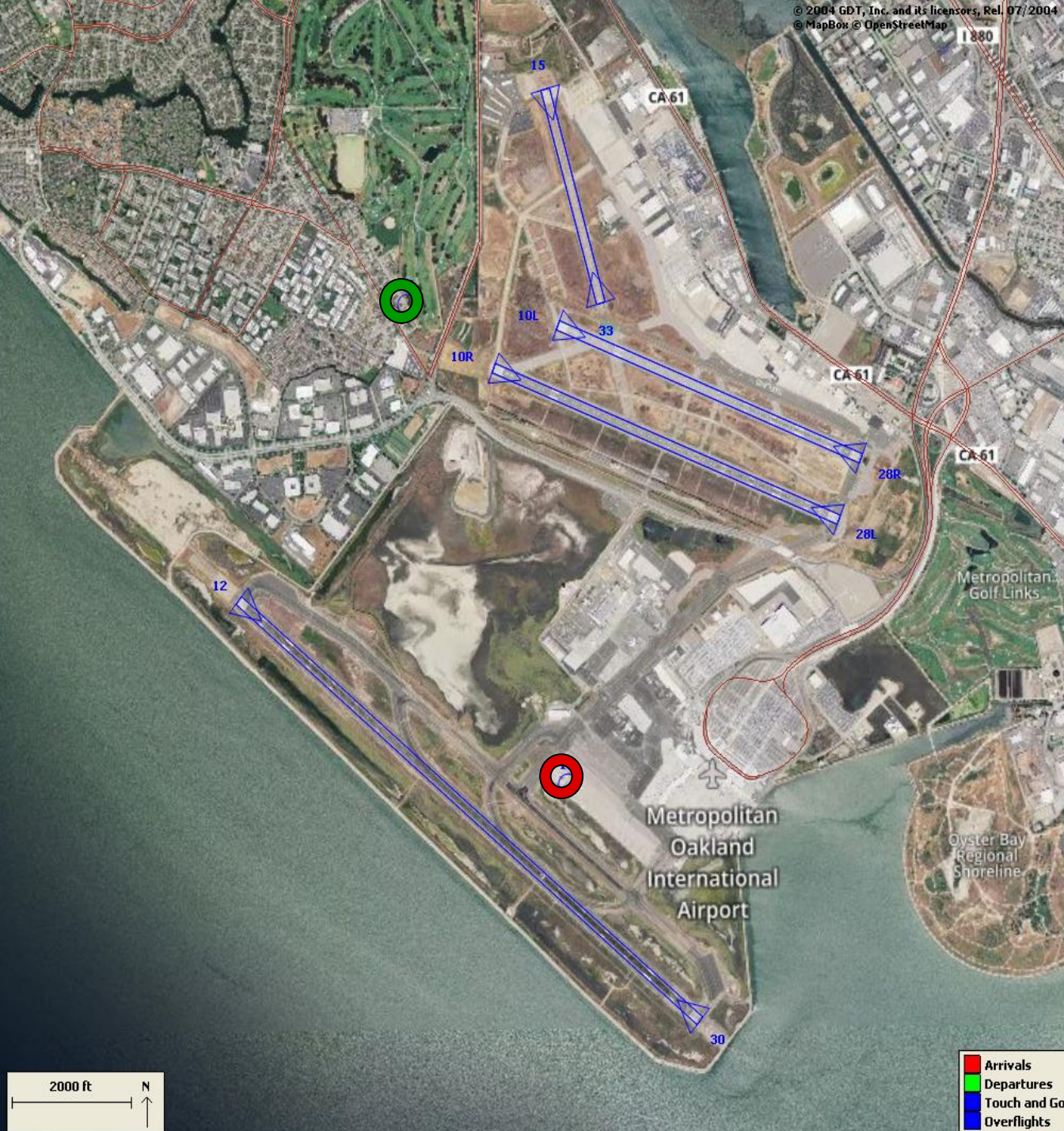
100 Degree Radial At 3,000 ft. NAP

2021Q2
98% Compliance
(735 total landings)
(12 non-compliant)

2020Q2
99% Compliance
(546 total landings)
(6 non-compliant)

- Arrivals
- Departures
- Touch and Go
- Overflights

Heading: 319
Elevation: 18



Engine Run-up NAP

2021Q2

100% Compliance
(4 engine run-ups)*
(0 non-compliant)

2020Q2

100% Compliance
(11 engine run-ups)
(0 non-compliant)

***Only above idle-power run-ups
recorded.**

Compliance Monitoring Quarterly Summary Comparison Second Quarter 2021 - Quarter-to-Quarter				
	2021Q1		2021Q2	
	Compl.	N/C	Compl.	N/C
Runway 28R/L Jet Departure Compliance	95%	5%	95%	5%
Total Airport-wide Corporate Jet Departures	2,209	113	2,610	146
Runway 10R/L Jet Landing Compliance	78%	22%	100%	0%
Total Southeast Plan Corporate Jet Landings	147	42	2	0
North Field VFR Departure Compliance	93%	7%	96%	4%
Total Runways 28R/L & 33 Departures	265	21	278	11
North Field Quiet Hours Compliance	76%	24%	89%	11%
Total North Field Quiet Hours Departures	105	34	164	20
Runway 30 BFI Right Turn Departure Compliance	100%	0%	100%	0%
Total Runway 30 Turbojet Departures	10,822	7	14,590	0
Night Time Departure Compliance	99%	1%	99%	0%
Total Runway 30 Night Turbojet Departures	2,024	19	2,676	21
Runway 12 Night Departure Compliance	100%	0%	N/A	N/A
Total Runway 12 Night Turbojet Departures	120	0	0	0
Runway 30 East Turn Departure Compliance	100%	0%	100%	0%
Total Runway 30 East Turn Departures	3,487	5	4,449	17
100 Degree Radial Turbojet Landing Compliance	98%	2%	98%	2%
Total 100 Degree Radial Turbojet Landings	640	14	723	12
Engine Runup Program Compliance	100%	0%	100%	0%
Total Evening and Nighttime Engine Runups	11	0	4	0
Note: N/C means non-compliant. Percentage values are rounded out.				

Table 1. North Field Night Aircraft Departure SEL Noise Measurements
Total Aircraft Departures = 184

Second Quarter 2021 (10:00 p.m. to 7:00 a.m.)

NMT Number	Aircraft Noise Events Below SEL 80 dBA	Aircraft Noise Events SEL 80 - 84.9 dBA			Aircraft Noise Events SEL 85 - 89.9 dBA			Aircraft Noise Events SEL ≥ 90 dBA			Total Aircraft Noise Events
		Amount	Nightly Average	As Percentage of Departures	Amount	Nightly Average	As Percentage of Departures	Amount	Nightly Average	As Percentage of Departures	
1	0	0	0.0	0.0%	0	0.0	0.0%	0	0.0	0.0%	0
2	6	3	0.0	0.5%	1	0.0	0.2%	0	0.0	0.0%	10
3	33	1	0.0	0.2%	0	0.0	0.0%	0	0.0	0.0%	34
4	80	54	0.6	9.5%	23	0.3	4.1%	14	0.2	2.5%	171
5	77	16	0.2	2.8%	12	0.1	2.1%	19	0.2	3.4%	124
6	15	10	0.1	1.8%	18	0.2	3.2%	8	0.1	1.4%	51
7	14	21	0.2	3.7%	7	0.1	1.2%	2	0.0	0.4%	44
8	33	11	0.1	1.9%	1	0.0	0.2%	0	0.0	0.0%	45
9	2	2	0.0	0.4%	1	0.0	0.2%	0	0.0	0.0%	5
10	27	3	0.0	0.5%	1	0.0	0.2%	0	0.0	0.0%	31
11	1	0	0.0	0.0%	0	0.0	0.0%	0	0.0	0.0%	1
12	0	2	0.0	0.4%	0	0.0	0.0%	0	0.0	0.0%	2
13	0	0	0.0	0.0%	0	0.0	0.0%	0	0.0	0.0%	0
14	0	0	0.0	0.0%	0	0.0	0.0%	0	0.0	0.0%	0
All NMTs	288	123	1	0	64	1	0	43	0	0	518

Table 2. Aircraft SEL Noise Measurements in Alameda - Total Aircraft Departures = 178

Second Quarter 2021 (10:00 p.m. to 7:00 a.m.)											
NMT Number	Aircraft Noise Events Below SEL 80 dBA	Aircraft Noise Events SEL 80 - 84.9 dBA			Aircraft Noise Events SEL 85 - 89.9 dBA			Aircraft Noise Events SEL ≥ 90 dBA			Total Aircraft Noise Events
		Amount	Nightly Average	As Percentage of Departures	Amount	Nightly Average	As Percentage of Departures	Amount	Nightly Average	As Percentage of Departures	
3	33	1	0.0	0.4%	0	0.0	0.0%	0	0.0	0.0%	34
4	80	54	0.6	22.6%	23	0.3	9.6%	14	0.2	5.9%	171
5	77	16	0.2	6.7%	12	0.1	5.0%	19	0.2	7.9%	124
6	15	10	0.1	4.2%	18	0.2	7.5%	8	0.1	3.3%	51
7	14	21	0.2	8.8%	7	0.1	2.9%	2	0.0	0.8%	44
8	33	11	0.1	4.6%	1	0.0	0.4%	0	0.0	0.0%	45
Total	252	113	1.3		61	0.7		43	0.5		469

Table 3. Aircraft SEL Noise Measurements in San Leandro - Total Aircraft Departures = 6

Second Quarter 2021 (10:00 p.m. to 7:00 a.m.)											
NMT Number	Aircraft Noise Events Below SEL 80 dBA	Aircraft Noise Events SEL 80 - 84.9 dBA			Aircraft Noise Events SEL 85 - 89.9 dBA			Aircraft Noise Events SEL ≥ 90 dBA			Total Aircraft Noise Events
		Amount	Nightly Average	As Percentage of Departures	Amount	Nightly Average	As Percentage of Departures	Amount	Nightly Average	As Percentage of Departures	
2	6	3	0.0	0.9%	1	0.0	0.3%	0	0.0	0.0%	10
9	2	2	0.0	0.6%	1	0.0	0.3%	0	0.0	0.0%	5
10	27	3	0.0	0.9%	1	0.0	0.3%	0	0.0	0.0%	31
11	1	0	0.0	0.0%	0	0.0	0.0%	0	0.0	0.0%	1
12	0	2	0.0	0.6%	0	0.0	0.0%	0	0.0	0.0%	2
13	0	0	0.0	0.0%	0	0.0	0.0%	0	0.0	0.0%	0
14	0	0	0.0	0.0%	0	0.0	0.0%	0	0.0	0.0%	0
Total	36	10	0.1		3	0.0		0	0.0		49

Rolling Take-off Night Departure Procedure (1:00 to 5:00 AM)
Second Quarter 2021, NMT 2

	Aircraft Departures	Recorded Noise Events (a)	Lmax Average	SEL Average	Avg. Duration (seconds)
Baseline (November 2002) [A]					
DC10/MD10	87	32	69	78	22
MD11	32	13	70	79	24
A306	67	21	67	77	25
Second Quarter 2021 [B]					
	Total [X]	Est. Avg. Monthly [X/3]			
B763	273	91	12	67	74
DC10/MD10	49	16	5	66	75
MD11	225	75	45	66	74
A306	13	4	1	72	78
B757	179	60	18	72	73
B77L	142	47	11	64	73
Difference [A-B]					
DC10/MD10		-71	-27	-3	-3
MD11		43	32	-4	-5
A306		-63	-20	5	1

(a) For the current calendar quarter reported, ANOMS 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: ANOMS (Airport Noise and Operations Monitoring System)

**Rolling Take-off Night Departure Procedure (1:00 to 5:00 AM)
Second Quarter 2020, NMT 2**

	Aircraft Departures	Recorded Noise Events (a)	Lmax Average	SEL Average	Avg. Duration (seconds)	
Baseline (November 2002) [A]						
DC10/MD10	87	32	69	78	22	
MD11	32	13	70	79	24	
A306	67	21	67	77	25	
Second Quarter 2020 [B]						
	Total [X]	Est. Avg. Monthly [X/3]				
B763	198	66	18	66	75	14
DC10/MD10	63	21	9	65	73	13
MD11	183	61	57	66	75	15
A306	96	32	11	66	74	14
B757	157	52	16	66	74	13
B77L	120	40	4	65	73	12
Difference [A-B]						
DC10/MD10		-66	-23	-4	-5	-9
MD11		29	44	-4	-4	-9
A306		-35	-10	-1	-3	-11

(a) For the current calendar quarter reported, ANOMS 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.

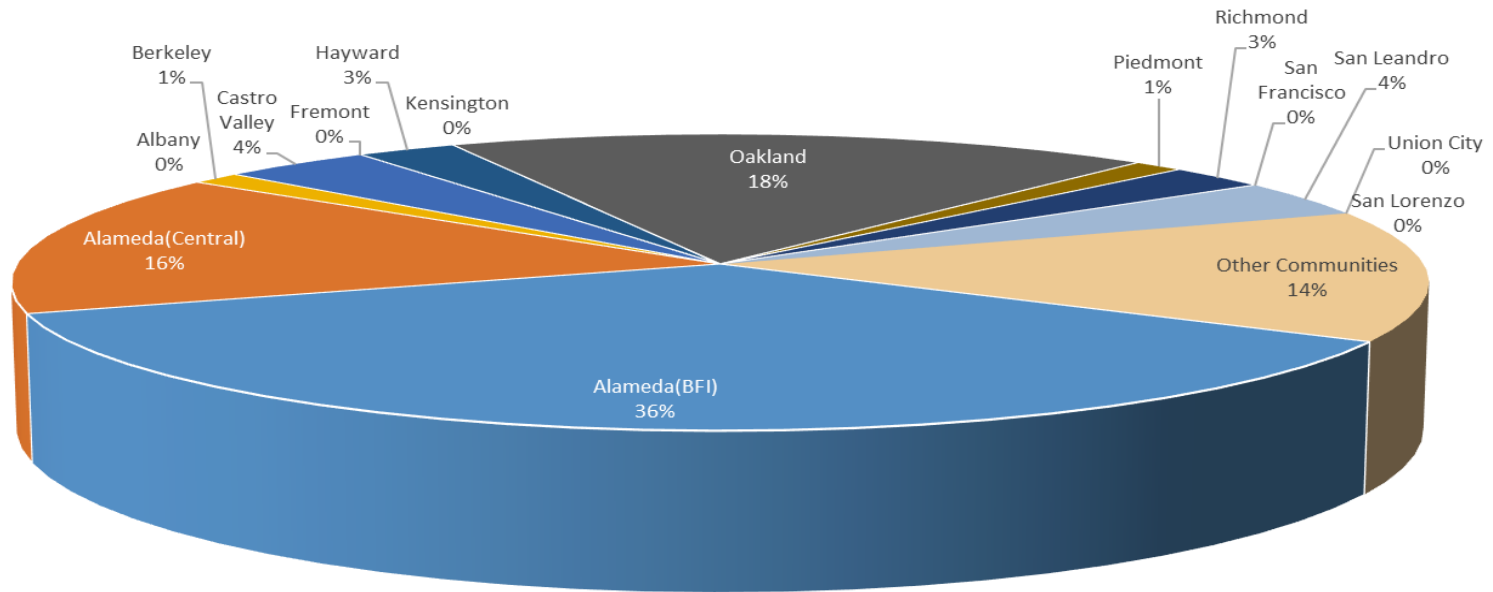
Source: ANOMS (Airport Noise and Operations Monitoring System)

Oakland International Airport Noise Complaint Summary April 2021		
Community	Callers	Complaints
Alameda(BFI)	28	1700
Alameda(Central)	12	83
Albany	0	0
Berkeley	1	2
Castro Valley	3	203
Fremont	0	0
Hayw ard	2	16
Kensington	0	0
Oakland	14	2283
Piedmont	1	1
Richmond	2	236
San Francisco	0	0
San Leandro	3	7
Union City	0	0
San Lorenzo	0	0
Other Communities	11	210
Total	77	4741
Complaints by Type		
Website	0	
E-mail	2264	
Phone	0	
View point App	2470	
Complaints by Time of Day		
Day (0700 - 1900)	1825	
Evening (1900 - 2200)	1650	
Night (2200 - 0700)	1266	
Complaints by Type of Operation		
Arrivals	1941	
Departures	2500	
Over-flights	152	
Touch & Go	148	
Not Linked to an Operation	0	
Complaints by Type of Aircraft		
Business Jet	263	
Helicopter	55	
Jet	3493	
Military	2	
Not Reported (not linked to an aircraft)	0	
Other (Type information not available)	15	
Propeller	798	
Turbo-prop	115	

Number of Callers

April 2021

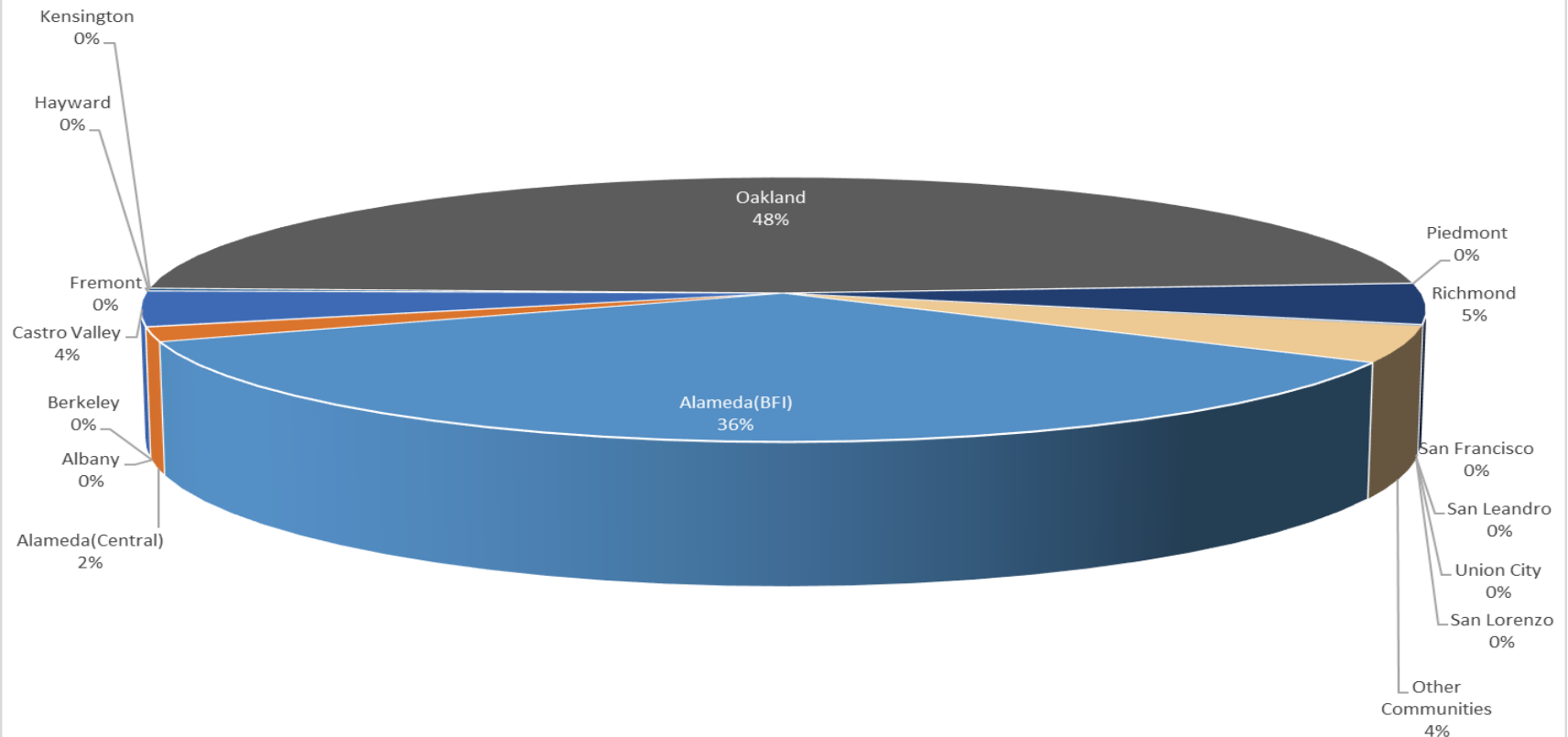
Noise Complaints Summary by Number of Callers



Number of Complaints

April 2021

Noise Complaints Summary by Number of Complaints

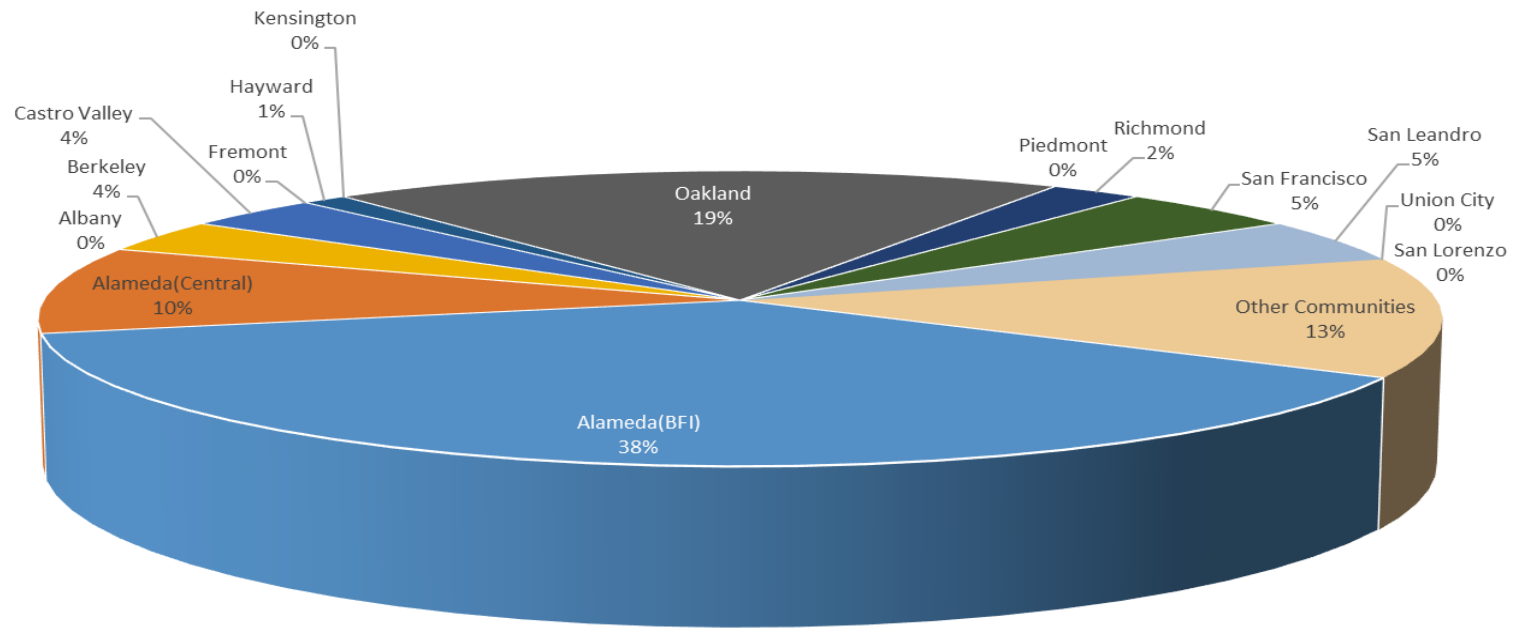


Oakland International Airport Noise Complaint Summary May 2021		
Community	Callers	Complaints
Alameda(BFI)	32	2233
Alameda(Central)	8	88
Albany	0	0
Berkeley	3	13
Castro Valley	3	112
Fremont	0	0
Hayw ard	1	2
Kensington	0	0
Oakland	16	2836
Piedmont	0	0
Richmond	2	320
San Francisco	4	14
San Leandro	4	8
Union City	0	0
San Lorenzo	0	0
Other Communities	11	386
Total	84	6012
Complaints by Type		
Website	0	
E-mail	2740	
Phone	0	
View point App	3272	
Complaints by Time of Day		
Day (0700 - 1900)	2691	
Evening (1900 - 2200)	2037	
Night (2200 - 0700)	1284	
Complaints by Type of Operation		
Arrivals	1798	
Departures	4003	
Over-flights	128	
Touch & Go	83	
Not Linked to an Operation	0	
Complaints by Type of Aircraft		
Business Jet	289	
Helicopter	49	
Jet	5157	
Military	0	
Not Reported (not linked to an aircraft)	0	
Other (Type information not available)	24	
Propeller	378	
Turbo-prop	115	

Number of Callers

May 2021

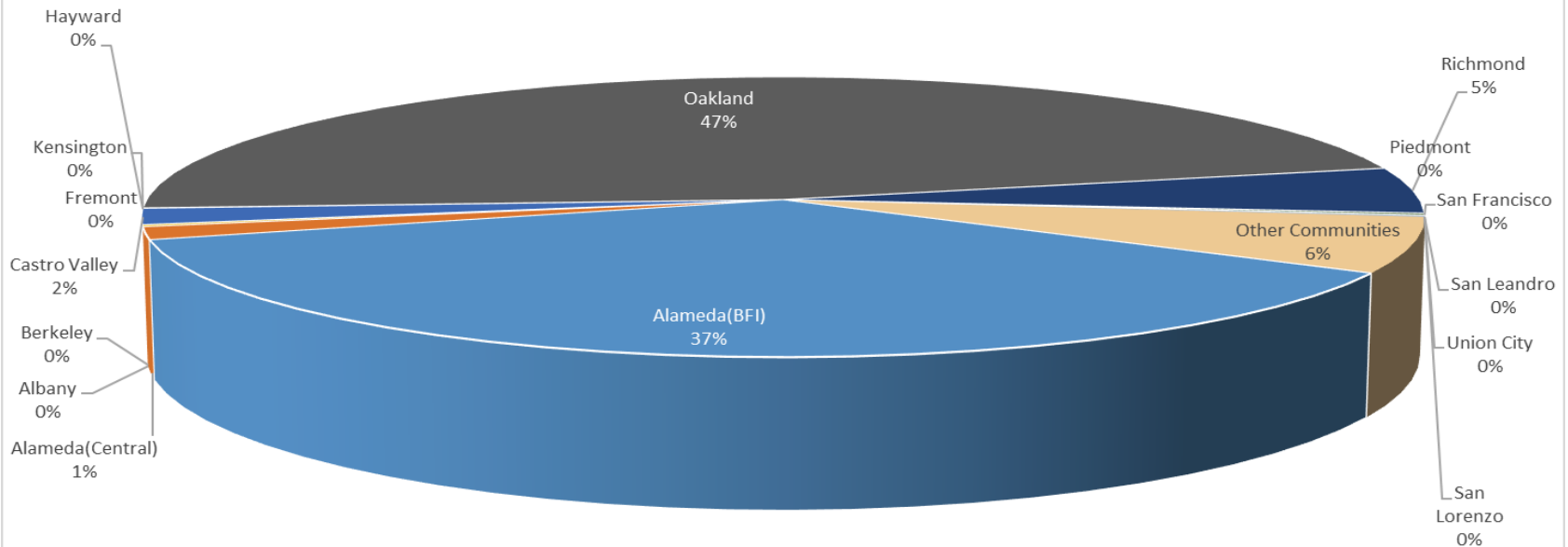
Noise Complaints Summary by Number of Callers



Number of Complaints

May 2021

Noise Complaints Summary by Number of Complaints

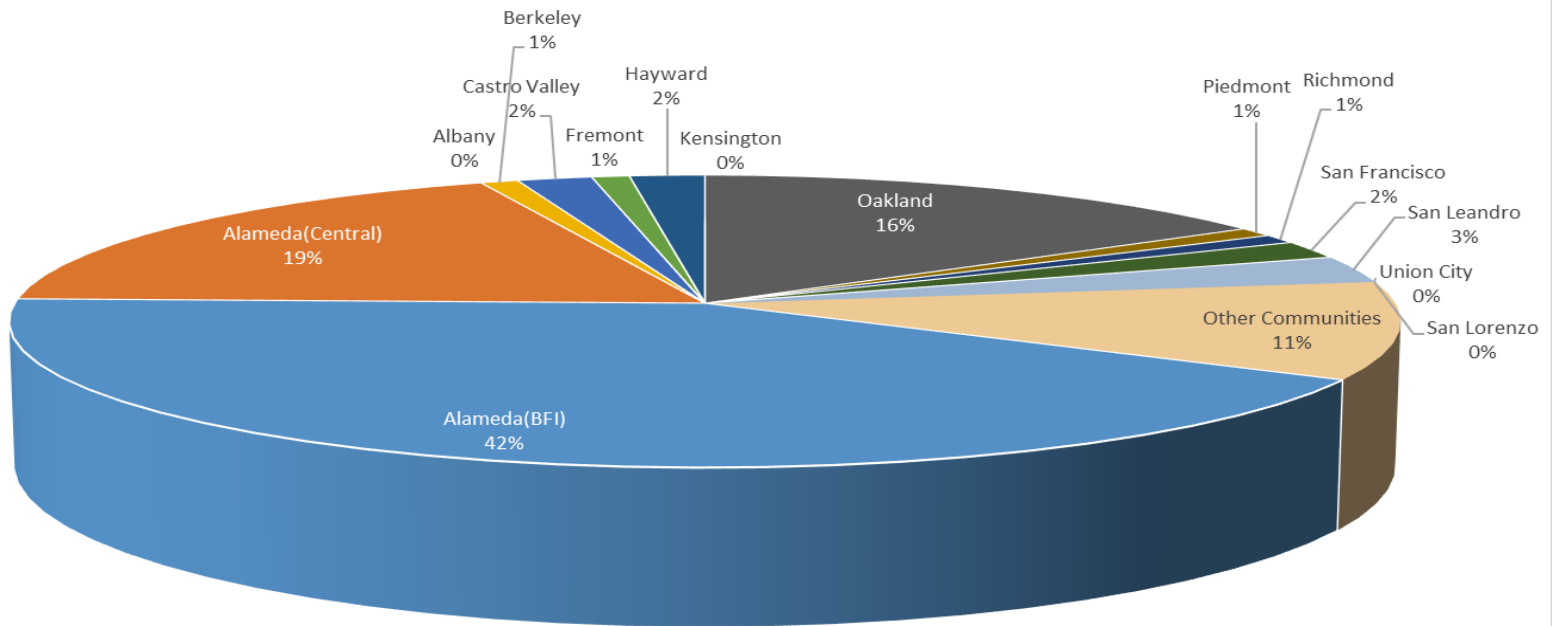


Oakland International Airport Noise Complaint Summary June 2021		
Community	Callers	Complaints
Alameda(BFI)	43	2975
Alameda(Central)	19	170
Albany	0	0
Berkeley	1	25
Castro Valley	2	59
Fremont	1	38
Hayw ard	2	9
Kensington	0	0
Oakland	16	2187
Piedmont	1	1
Richmond	1	123
San Francisco	2	17
San Leandro	3	23
Union City	0	0
San Lorenzo	0	0
Other Communities	11	346
Total	102	5973
Complaints by Type		
Website	0	
E-mail	2325	
Phone	0	
View point App	3648	
Complaints by Time of Day		
Day (0700 - 1900)	2888	
Evening (1900 - 2200)	1168	
Night (2200 - 0700)	1917	
Complaints by Type of Operation		
Arrivals	2158	
Departures	3633	
Over-flights	79	
Touch & Go	103	
Not Linked to an Operation	0	
Complaints by Type of Aircraft		
Business Jet	450	
Helicopter	86	
Jet	4697	
Military	0	
Not Reported (not linked to an aircraft)	0	
Other (Type information not available)	9	
Propeller	527	
Turbo-prop	204	

Number of Callers

June 2021

Noise Complaints Summary by Number of Callers



Number of Complaints

June 2021

Noise Complaints Summary by Number of Complaints

