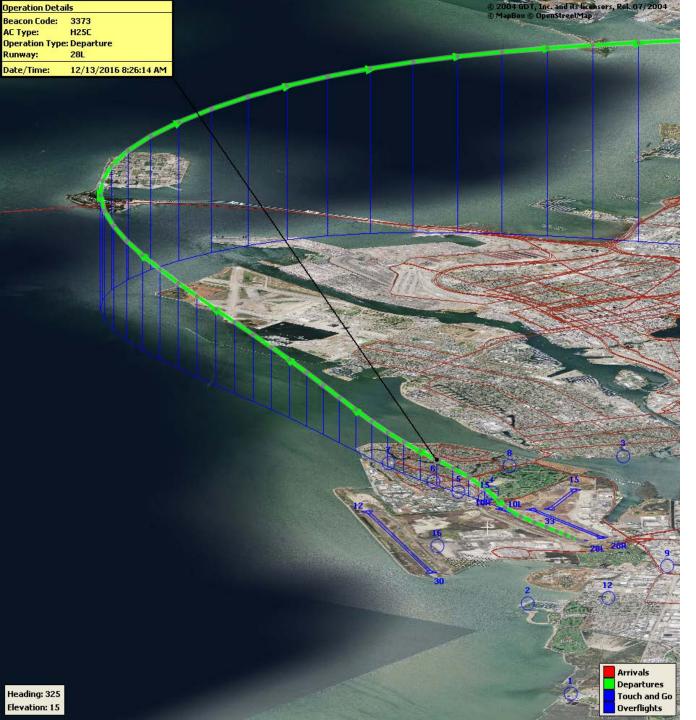
NOISE FORUM SUMMARY

North/South Field Working Groups

NOISE ABATEMENT REPORT THIRD QUARTER 2017

| Compliance Monitoring Quarterly Summary Comparison Third Quarter 2017 | | | | | | |
|--|--------|------|--------|-----|--|--|
| | 201 | 6Q3 | 201 | 7Q3 | | |
| | Compl. | N/C | Compl. | N/C | | |
| Runway 28R/L Jet Departure Compliance | 92% | 8% | 95% | 5% | | |
| Total Airport-wide Corporate Jet Departures | 2,290 | 205 | 2,742 | 155 | | |
| Runway 10R/L Jet Landing Compliance | 100% | 0% | 100% | 0% | | |
| Total Southeast Plan Corporate Jet Landings | 13 | 0 | 0 | 0 | | |
| North Field VFR Departure Compliance | 98% | 2% | 98% | 2% | | |
| Total Runways 28R/L & 33 Departures | 387 | 8 | 534 | 9 | | |
| North Field Quiet Hours Compliance | 63% | 37% | 88% | 12% | | |
| Total North Field Quiet Hours Departures | 100 | 60 | 409 | 54 | | |
| Runway 30 BFI Right Turn Departure Compliance | 100% | 0% | 100% | 0% | | |
| Total Runway 30 Turbojet Departures | 17,699 | 1 | 18,623 | 3 | | |
| Night Time Departure Compliance | 98% | 2% | 96% | 4% | | |
| Total Runway 30 Night Turbojet Departures | 3,265 | 57 | 3,570 | 165 | | |
| Runway 12 Night Departure Compliance | 0% | 100% | 75% | 25% | | |
| Total Runway 12 Night Turbojet Departures | 0 | 1 | 3 | 1 | | |
| Runway 30 East Turn Departure Compliance | 97% | 3% | 100% | 0% | | |
| Total Runway 30 East Turn Departures | 5,635 | 164 | 5,878 | 20 | | |
| 100 Degree Radial Turbojet Landing Compliance | 95% | 5% | 96% | 4% | | |
| Total 100 Degree Radial Turbojet Landings | 2,386 | 138 | 2,745 | 109 | | |
| Engine Runup Program Compliance | 100% | 0% | 100% | 0% | | |
| Total Evening and Nighttime Engine Runups | 21 | 0 | 12 | 0 | | |

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



Runway 28R/L Jet Departure NAP

2017Q3 95% Compliance (2,897 total departures) (155 non-compliant)

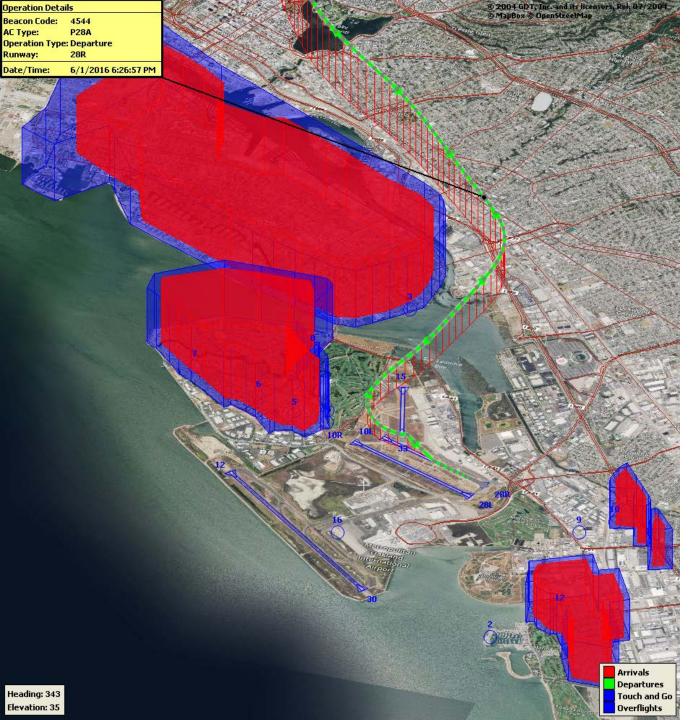
2016Q3 92% Compliance (2,495 total departures) (205 non-compliant)



Runway 10R/L Jet Landing NAP

2017Q3 100% Compliance (0 total landings) (0 non-compliant)

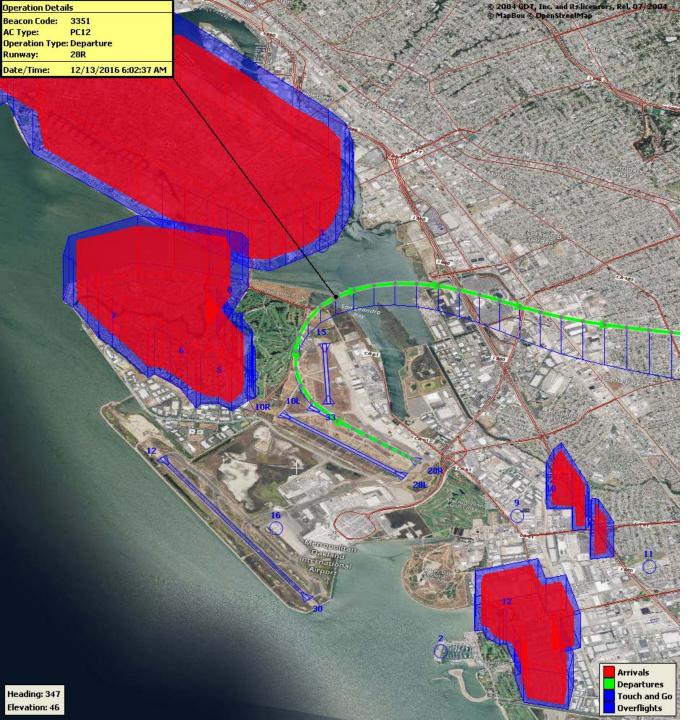
2016Q3 100% Compliance (13 total landings) (0 non-compliant)



VFR Aircraft Departure NAP

2017Q3 98% Compliance (543 total departures) (9 non-compliant)

2016Q3 98% Compliance (395 total departures) (8 non-compliant)



North Field Quiet Hours NAP

2017Q3 88% Compliance (463 total departures) (54 non-compliant)

2016Q3 63% Compliance (160 total departures) (60 non-compliant)



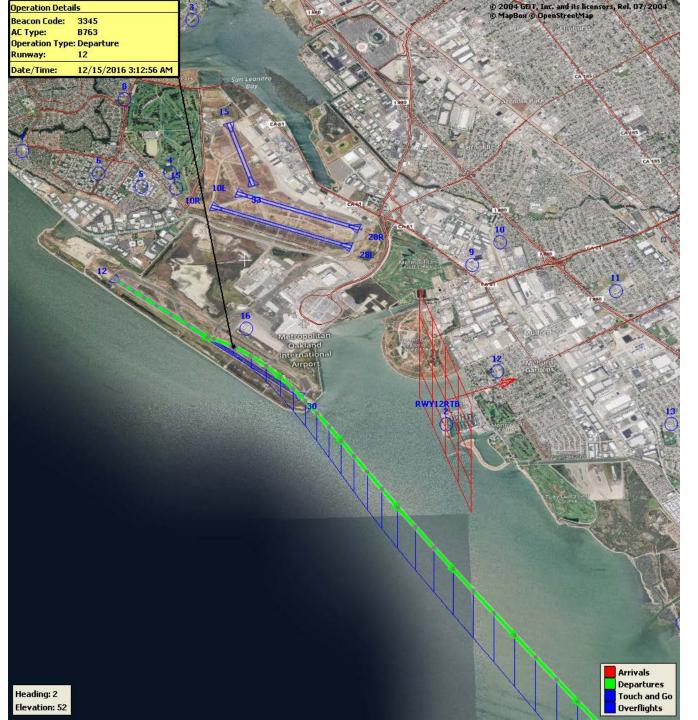
Night Time Departure NAP

2017Q3* 96% Compliance (3,735 total departures) (165 non-compliant)

*Runway Rehabilitation Project Sept. 4th to Oct. 2nd

2016Q3** 98% Compliance (3,322 total departures) (57 non-compliant)

**REBAS Gate added 2017Q2



Runway 12 Night Departure NAP

2017Q3 75% Compliance (4 total departures) (1 non-compliant)

2016Q3 0% Compliance (1 total departures) (1 non-compliant)



Runway 30 Bay Farm Right Turn NAP

2017Q3 100% Compliance (18,626 total departures) (3 non-compliant)

2016Q3 100% Compliance (17,700 total departures) (1 non-compliant)



Runway 30 East Turn NAP

2017Q3 100% Compliance (5,898 total departures) (20 non-compliant)

* Excused Departures = 111

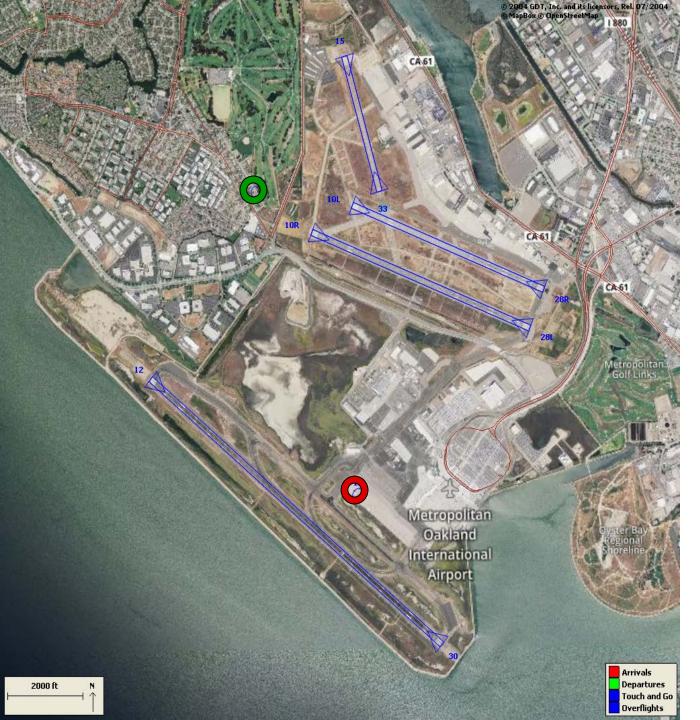
2016Q3 97% Compliance (5,799 total departures) (164 non-compliant)



100 Degree Radial At 3,000 ft. NAP

2017Q3 96% Compliance (2,854 total landings) (109 non-compliant)

2016Q3 95% Compliance (2,524 total landings) (138 non-compliant)



Engine Run-up NAP

2017Q3 100% Compliance (12 engine run-ups)* (0 non-compliant)

2016Q3 100% Compliance (21 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 = 258 | | | | | | | | | | |
|---------|---|--------|-----------------------------|--------------------------------|--------|-----------------------------|--------------------------------|---------------------------------------|--------------------|--------------------------------|-------------------|
| | Third Quarter 2017 (10:00 p.m. to 7:00 a.m.) | | | | | | | | | | |
| NMT | Aircraft Noise | A | ircraftNoise SEL 80 - 84 | | Α | ircraft Nois SEL 85 - 89 | | Aircraft Noise Events SEL ≥ 90 dBA | | | 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 | 2 | 1 | 0.0 | 0.2% | 0 | 0.0 | 0.0% | 0 | 0.0 | 0.0% | 3 |
| 2 | 17 | 5 | 0.1 | 0.9% | 0 | 0.0 | 0.0% | 0 | 0.0 | 0.0% | 22 |
| 3 | 48 | 4 | 0.0 | 0.7% | 0 | 0.0 | 0.0% | 0 | 0.0 | 0.0% | 52 |
| 4 | 63 | 54 | 0.6 | 9.5% | 63 | 0.7 | 11.1% | 53 | 0.6 | 9.3% | 233 |
| 5 | 55 | 38 | 0.4 | 6.7% | 32 | 0.4 | 5.6% | 73 | 0.8 | 12.9% | 198 |
| 6 | 31 | 27 | 0.3 | 4.8% | 45 | 0.5 | 7.9% | 45 | 0.5 | 7.9% | 148 |
| 7 | 44 | 35 | 0.4 | 6.2% | 47 | 0.5 | 8.3% | 2 | 0.0 | 0.4% | 128 |
| 8 | 57 | 32 | 0.4 | 5.6% | 3 | 0.0 | 0.5% | 1 | 0.0 | 0.2% | 93 |
| 9 | 3 | 2 | 0.0 | 0.4% | 3 | 0.0 | 0.5% | 3 | 0.0 | 0.5% | 11 |
| 10 | 17 | 7 | 0.1 | 1.2% | 1 | 0.0 | 0.2% | 0 | 0.0 | 0.0% | 25 |
| 11 | 0 | 1 | 0.0 | 0.2% | 0 | 0.0 | 0.0% | 0 | 0.0 | 0.0% | 1 |
| 12 | 8 | 2 | 0.0 | 0.4% | 1 | 0.0 | 0.2% | 0 | 0.0 | 0.0% | 11 |
| 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 |
| AllNMTs | 349 | 208 | 2 | 0 | 195 | 2 | 0 | 177 | 2 | 0 | 929 |

| Table 2. Aircraft SEL Noise Measurements in Alameda - Total Aircraft Departures = 251 | | | | | | | | | | | |
|---|---|--|-----------------------------|--------------------------------|--|--|--------------------------------|---------------------------------------|--------------------------|--------------------------------|-------------------|
| | | | | Third Qua | rter 2017 (1 | 0:00 p.m. t | o 7:00 a.m.) | | | | |
| NMT | Aircraft Noise | А | ircraft Nois SEL 80 - 84 | | Α | Aircraft Noise Events SEL 85 - 89.9 dBA | | 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 |
| 3 | 48 | 4 | 0.0 | 1.7% | 0 | 0.0 | 0.0% | 0 | 0.0 | 0.0% | 52 |
| 4 | 63 | 54 | 0.6 | 22.6% | 63 | 0.7 | 26.4% | 53 | 0.6 | 22.2% | 233 |
| 5 | 55 | 38 | 0.4 | 15.9% | 32 | 0.4 | 13.4% | 73 | 0.8 | 30.5% | 198 |
| 6 | 31 | 27 | 0.3 | 11.3% | 45 | 0.5 | 18.8% | 45 | 0.5 | 18.8% | 148 |
| 7 | 44 | 35 | 0.4 | 14.6% | 47 | 0.5 | 19.7% | 2 | 0.0 | 0.8% | 128 |
| 8 | 57 | 32 | 0.4 | 13.4% | 3 | 0.0 | 1.3% | 1 | 0.0 | 0.4% | 93 |
| Total | 298 | 190 | 2.1 | | 190 | 2.1 | | 174 | 1.9 | | 852 |
| _ | Table 3. Aircraft SEL Noise Measurements in San Leandro - Total Aircraft Departures = 7 Third Quarter 2017 (10:00 p.m. to 7:00 a.m.) | | | | | | | | | | |
| NMT | Aircraft Noise | e 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 | 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 |
| 2 | 17 | 5 | 0.1 | 1.5% | 0 | 0.0 | 0.0% | 0 | 0.0 | 0.0% | 22 |

| | | | • | • | | - | • | | • | • | |
|-------|----|----|-----|------|---|-----|------|---|-----|------|----|
| 2 | 17 | 5 | 0.1 | 1.5% | 0 | 0.0 | 0.0% | 0 | 0.0 | 0.0% | 22 |
| 9 | 3 | 2 | 0.0 | 0.6% | 3 | 0.0 | 0.9% | 3 | 0.0 | 0.9% | 11 |
| 10 | 17 | 7 | 0.1 | 2.1% | 1 | 0.0 | 0.3% | 0 | 0.0 | 0.0% | 25 |
| 11 | 0 | 1 | 0.0 | 0.3% | 0 | 0.0 | 0.0% | 0 | 0.0 | 0.0% | 1 |
| 12 | 8 | 2 | 0.0 | 0.6% | 1 | 0.0 | 0.3% | 0 | 0.0 | 0.0% | 11 |
| 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 | 49 | 17 | 0.2 | | 5 | 0.1 | | 3 | 0.0 | | 74 |

| | Rollin | | Departure Proce d Quarter 2017, N | • | 0 AM) | | |
|------------------|------------------------|----------------------------|--------------------------------------|--------------|-------------|----------------------------|--|
| | Aircraft Departures | | Recorded Noise Events (a) | Lmax Average | SEL Average | Avg. Duration (seconds) | |
| | | Base | line (November 200 | 2) [A] | | | |
| DC10/MD10 | | 87 | 32 | 69 | 78 | 22 | |
| MD11 | | 32 | 13 | 70 | 79 | 24 | |
| A306 | | 67 | 21 | 67 | 77 | 25 | |
| | | Т | hird Quarter 2017 [| B] | | • | |
| | Total [X] | Est. Avg. Monthly [X/3] | | | | | |
| B763 | 174 | 58 | 3 | 63 | 70 | 7 | |
| DC10/MD10 | 64 | 21 | 12 | 65 | 74 | 13 | |
| MD11 | 218 | 73 | 69 | 66 | 74 | 13 | |
| A306 | 114 | 38 | 5 | 63 | 72 | 11 | |
| B757 | 178 | 59 | 11 | 63 | 73 | 10 | |
| B77L | 65 | 22 | 9 | 64 | 72 | 13 | |
| Difference [A-B] | | | | | | | |
| DC10/MD10 | | -66 | -20 | -4 | -4 | -9 | |
| MD11 | | 41 | 56 | -4 | -5 | -11 | |
| A306 | | -29 | -16 | -4 | -5 | -14 | |

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)

| | Rollin | | Departure Proce d Quarter 2016, N | edure (1:00 to 5:00 MT 2 | 0 AM) | | |
|------------------------|---------------|----------------------------|--------------------------------------|-----------------------------|-------------|----------------------------|--|
| | Airc Depai | craft rtures | Recorded Noise Events (a) | Lmax Average | SEL Average | Avg. Duration (seconds) | |
| | | Base | ine (November 200 | 02) [A] | | | |
| DC10/MD10 | | 87 | 32 | 69 | 78 | 22 | |
| MD11 | | 32 | 13 | 70 | 79 | 24 | |
| A306 | | 67 | 21 | 67 | 77 | 25 | |
| Third Quarter 2016 [B] | | | | | | | |
| | Total [X] | Est. Avg. Monthly [X/3] | | | | | |
| B763 | 113 | 38 | 4 | 65 | 73 | 11 | |
| DC10/MD10 | 71 | 24 | 14 | 65 | 73 | 13 | |
| MD11 | 203 | 68 | 53 | 65 | 73 | 12 | |
| A306 | 115 | 38 | 9 | 65 | 72 | 10 | |
| B757 | 183 | 61 | 10 | 65 | 75 | 17 | |
| B77L | 78 | 26 | 4 | 69 | 77 | 26 | |
| Difference [A-B] | | | | | | | |
| DC10/MD10 | | -63 | -18 | -4 | -5 | -9 | |
| MD11 | | 36 | 40 | -5 | -6 | -12 | |
| A306 | | -29 | -12 | -2 | -5 | -15 | |

back-blast noise events are effectively correlated as the program software algorithms may misidentify an aircraft noise event.

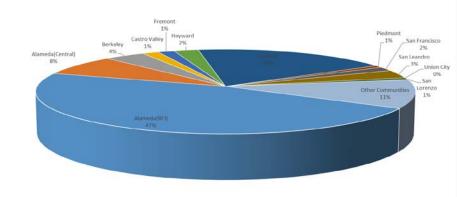
Source: ANOMS (Airport Noise and Operations Monitoring System)

Oakland International Airport Noise Complaint Summary July 2017

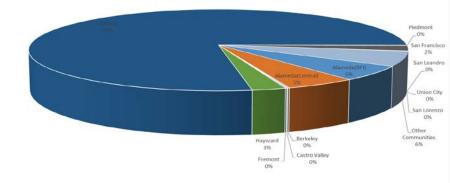
| Community | Callers | Complaints | | | | | |
|----------------------------|--------------------------|------------|--|--|--|--|--|
| Alameda(BFI) | 60 | 255 | | | | | |
| Alameda(Central) | 10 | 234 | | | | | |
| Berkeley | 5 | 6 | | | | | |
| Castro Valley | 2 | 3 | | | | | |
| Fremont | 2 | 5 | | | | | |
| Hayw ard | 3 | 111 | | | | | |
| Oakland | 24 | 3366 | | | | | |
| Piedmont | 1 | 10 | | | | | |
| San Francisco | 2 | 88 | | | | | |
| San Leandro | 4 | 5 | | | | | |
| Union City | 0 | 0 | | | | | |
| San Lorenzo | 1 | 1 | | | | | |
| Other Communities | 14 | 255 | | | | | |
| Total | 128 | 4339 | | | | | |
| Complaints by Time of Day | | | | | | | |
| Day(0700 - 1900) | 1 | 853 | | | | | |
| Evening (1900 - 2200) | 313 | | | | | | |
| Night(2200 - 0700) | 2 | 173 | | | | | |
| Complain | ts by Type of Operation | | | | | | |
| Arrivals | 3 | 433 | | | | | |
| Departures | 810 | | | | | | |
| Over-flights | | 72 | | | | | |
| Touch & Go | | 5 | | | | | |
| Not Linked to an Operation | | 19 | | | | | |
| Compla | ints by Type of Aircraft | | | | | | |
| Business Jet | | 109 | | | | | |
| Helicopter | 31 | | | | | | |
| Jet | 3605 | | | | | | |
| Military | 0 | | | | | | |
| Not Reported | | 19 | | | | | |
| Other | | 21 | | | | | |
| Propeller | | 252 | | | | | |
| Turbo-prop | : | 302 | | | | | |

Noise Complaint Summary July 2017

Noise Complaints Summary by Number of Callers





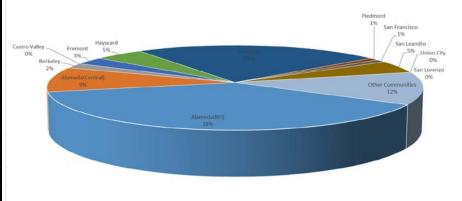


Oakland International Airport Noise Complaint Summary August 2017

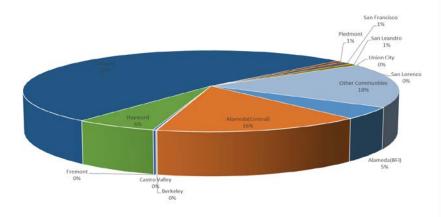
| Community | Callers | Complaints | | | | | |
|----------------------------|--------------------------|------------|--|--|--|--|--|
| Alameda(BFI) | 40 | 115 | | | | | |
| Alameda(Central) | 10 | 383 | | | | | |
| Berkeley | 2 | 2 | | | | | |
| Castro Valley | 0 | 0 | | | | | |
| Fremont | 3 | 5 | | | | | |
| Hayw ard | 5 | 152 | | | | | |
| Oakland | 25 | 1256 | | | | | |
| Piedmont | 1 | 17 | | | | | |
| San Francisco | 1 | 25 | | | | | |
| San Leandro | 5 | 19 | | | | | |
| Union City | 0 | 0 | | | | | |
| San Lorenzo | 0 | 0 | | | | | |
| Other Communities | 13 | 423 | | | | | |
| Total | 105 | 2397 | | | | | |
| Complaints by Time of Day | | | | | | | |
| Day(0700 - 1900) | 1 | 068 | | | | | |
| Evening(1900 - 2200) | 360 | | | | | | |
| Night(2200 - 0700) | 969 | | | | | | |
| Complair | ts by Type of Operation | | | | | | |
| Arrivals | 1 | 314 | | | | | |
| Departures | 9 | 976 | | | | | |
| Over-flights | | 83 | | | | | |
| Touch & Go | | 5 | | | | | |
| Not Linked to an Operation | | 19 | | | | | |
| Compla | ints by Type of Aircraft | | | | | | |
| Business Jet | | 113 | | | | | |
| Helicopter | 30 | | | | | | |
| Jet | 1804 | | | | | | |
| Military | | 1 | | | | | |
| Not Reported | 14 | | | | | | |
| Other | 19 | | | | | | |
| Propeller | | 171 | | | | | |
| Turbo-prop | | 245 | | | | | |

Noise Complaint Summary August 2017

Noise Complaints Summary by Number of Callers



Noise Complaints Summary by Number of Complaints



Oakland International Airport Noise Complaint Summary September 2017

| Community | Callers | Complaints | | | | | |
|----------------------------|-----------------------------|------------|--|--|--|--|--|
| Alameda(BFI) | 225 | 1005 | | | | | |
| Alameda(Central) | 17 | 304 | | | | | |
| Berkeley | 7 | 13 | | | | | |
| Castro Valley | 23 | 34 | | | | | |
| Fremont | 2 | 12 | | | | | |
| Hayward | 91 | 310 | | | | | |
| Oakland | 32 | 2962 | | | | | |
| Piedmont | 2 | 3 | | | | | |
| San Francisco | 3 | 175 | | | | | |
| San Leandro | 54 | 153 | | | | | |
| Union City | 0 | 0 | | | | | |
| San Lorenzo | 8 | 8 | | | | | |
| Other Communities | 28 | 423 | | | | | |
| Total | 492 | 5402 | | | | | |
| Complaints by Time of Day | | | | | | | |
| Day(0700 - 1900) | 1 | 1475 | | | | | |
| Evening(1900 - 2200) | | 947 | | | | | |
| Night(2200 - 0700) | 2 | 2980 | | | | | |
| Comp | laints by Type of Operation | | | | | | |
| Arrivals | 3 | 3258 | | | | | |
| Departures | 2 | 2019 | | | | | |
| Over-flights | | 121 | | | | | |
| Touch & Go | | 4 | | | | | |
| Not Linked to an Operation | | 0 | | | | | |
| Com | plaints by Type of Aircraft | | | | | | |
| Business Jet | | 431 | | | | | |
| Helicopter | | 61 | | | | | |
| Jet | 4 | 4413 | | | | | |
| Military | | 0 | | | | | |
| Not Reported | | 0 | | | | | |
| Other | | 27 | | | | | |
| Propeller | | 229 | | | | | |
| Turbo-prop | | 241 | | | | | |

Noise Complaint Summary September 2017

Noise Complaints Summary by Number of Callers

