MEMORANDUM

DEPARTMENT OF AVIATION

TO: DISTRIBUTION

FROM: GEORGE C. SIMS, PLANNER

SUBJECT: APRIL THROUGH JUNE 2014 NOISE COMPLAINT REPORTS

DATE: JULY 15, 2014

Attached for your review are the Clark County Department of Aviation's (CCDOA) Monthly Noise Complaint Reports for April through June 2014. Please note the following airport abbreviations: **McCarran International Airport (LAS), North Las Vegas Airport (VGT), and Henderson Executive Airport (HND)**.

The following reports describe noise complaints and operational data regarding helicopter and fixed-wing aircraft operations at LAS, VGT, and HND. Aircraft noise complaints are received either through the CCDOA's Noise Hotline (261-3694), the Noise Office (261-5600), or calls forwarded from LAS's toll free number (1-800-261-5704). Nellis Air Force Base noise complaints are forwarded to the Nellis Public Affairs Office (652-2750), and noise complaints regarding aircraft operations from the Boulder City Airport are forwarded to the Boulder City Airport Coordinator (293-9405). Individuals who express concerns regarding aircraft operations originating from private facilities (i.e., Valley Hospital, the private helipad located near Las Vegas Blvd. and Larson Lane, etc. are asked to contact the individual property owner directly.

Exhibit 1 of each Monthly Noise Complaint Report illustrates the number of calls received by community as well as the number of individual callers or households. **Exhibit 2** illustrates the primary nature of the disturbance as identified by the caller. The second page of each monthly report (**Exhibit 3**) graphically illustrates all known origins of the calls received that month. **Exhibits 4 and 5** summarize arrival and departure runway use for large and non-large air carrier aircraft. Arrival and departure corridor use for helicopters are summarized in **Exhibit 6**. **Exhibit 7** provides a complete arrival fleet mix of all aircraft landing at LAS and highlights the two noisier aircraft types, the Boeing 727 series and Boeing 737-100 and 737-200 series. **Exhibit 8** illustrates the general departure direction for large aircraft.

Lastly, **Exhibit 9** summarizes how well large aircraft and helicopters adhered to the preferred, non-regulated departure corridors. Adherence to preferred departure corridors is voluntary, and neither Clark County nor the State of Nevada regulates aircraft in flight. The FAA, through the discretion of Congress, has sole authority over the safe and efficient utilization of the nation's navigable airspace. Therefore, local and state authorities cannot legally enforce the use of these corridors, or impose penalties to pilots who opt not to comply with preferred procedures. "Compliance gates" are located along historical/fly-quietly routes. If all aircraft flew with advanced navigational technologies and operated under Required Navigational Precision (RNP) procedures, then it could be expected that up to 95% of all aircraft would be within 0.3 nautical miles (NM) of a fly-over point. Therefore, 0.3 NM is the threshold for compliance for large air carrier aircraft. The compliance threshold for helicopters is 500 feet.

The following provides a synopsis of each monthly noise complaint report and additional noise-related issues addressed during the reporting period. Please refer to each noise complaint report for more detailed information.

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Monthly Noise Complaint Summaries

April 2014: 773 total complaints - a 1,210% increase from 2013 and a 1,167% increase from 2012. On average, each caller (or household) issued 35.1 calls. The most calls received from one household totaled 743.

Calls by Community - (Exhibits 1 and 3)

Majority (more than 50%): The *Paradise and Winchester* communities issued 751 calls (97%). These communities are typically impacted by aircraft departing to the north (from Runway 01R and Runway 01L) and aircraft arriving from the north (into Runways 19R and 19L).

Minority (between 10% and 50%): (Not applicable.)

Repeat Caller Impact: One household issued 96% of the total calls.

Calls by Operation - (Exhibit 2)

- **LAS:** 99% of the total calls were due to **LAS** fixed-wing operations.
 - 53% were due to departures to the north from Runways 01L and 01R (97% from one household).
 - 41% were due to departures to the west from Runways 25L and 25R (98% from one household, which is the same household that issued 97% of the calls for Runways 01L and 01R).
- **VGT:** 0% of the total calls were due to **VGT** fixed-wing operations.
- **HND:** <1% of the total calls were due to *HND* fixed-wing operations.
- **Helos:** <1% of the total calls were due to *helicopter* operations.

LAS Operations & Runway Use by Large Air Carriers - (Exhibit 4)

Overall:	 418 daily <i>departures</i>¹ – a 1% decrease from 2013 and 9% decrease from 2012. 67% of departures were to the west, 15% east, 14% north, and 4% south. 457 daily <i>arrivals</i> – a 4% decrease from 2013 and 7% decrease from 2012. 71% of arrivals were from the east, 17% south, 9% north, 2% west.
Daytime:	 348 daily <i>departures</i>² – a 1% increase from 2013 and 10% decrease from 2012. 65% of departures were to the west, 17% east, 14% north, and 4% south.

404 daily *arrivals* – a 3% decrease from 2013 and 6% decrease from 2012.

71% of arrivals were from the east, 18% south, 9% north, and 2% west.

¹ Note: Due to the location of the radar south of Sunset Road, and the angle of the radar signal to avoid ground clutter, some aircraft that depart to the north from LAS are not captured until well north of Tropicana Avenue. Therefore, the AirScene application, used to determine runway use and traffic counts, does not tag these operations as either occurring at LAS or as a departure. Thus, total departure counts may be less than what likely occurred.

² See footnote #1.

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Nighttime: 70 daily *departures*³ – a 9% decrease from 2013 and 5% decrease from 2012.

- 76% of departures were to the west, 14% north, 7% east, and 3% south.
- 53 daily *arrivals* a 7% decrease from 2013 and 13% decrease from 2012.
 - 74% of arrivals were from the east, 16% south, and 10% north.

Daytime vs. Nighttime: Approximately 83% of all *departures* and 88% of all *arrivals* occurred during the daytime hours.

LAS Operations & Runway Use by Non-Large Air Carriers - (Exhibit 5)

Overall:	 77 daily departures⁴ – a 5% decrease from 2013 and 3% decrease from 2012. 53% of departures were to the south, 21% north, 15% west, and 11% east. 89 daily arrivals – a 7% decrease from 2013 and 5% decrease from 2012. 61% of arrivals were from the north, 22% south, 14% east, and 3% west.
Daytime:	 68 daily <i>departures</i>⁵ – a 6% decrease from 2013 and 6% decrease from 2012. 52% of departures were to the south, 21% north, 15% west, and 12% east. 83 daily <i>arrivals</i> – a 7% decrease from 2013 and 4% decrease from 2012. 61% of arrivals were from the north, 22% south, 14% east, and 3% west.
Nighttime:	 8 daily departures⁶ – a 2% increase from 2013 and 26% increase from 2012. 67% of departures were to the south, 19% north, 12% west, and 3% east. 6 daily arrivals – a 13% decrease from 2013 and 7% decrease from 2012.

62% of arrivals were from the north, 31% south, 6% east, and 1% west.

Daytime vs. Nighttime: Approximately 89% of all *departures* and 94% of all *arrivals* occurred during the daytime hours.

Operations by Corridor for Helicopter Tours - (Exhibit 6)

Tropicana: 106 daily *departures* - a 16% decrease from 2013 and a 10% decrease from 2012.

Charleston: 104 daily arrivals - a 16% decrease from 2013 and an 11% decrease from 2012.

Strip: 28 daily touch and go's - a 16% decrease from 2013 and a 26% decrease from 2012.

Daytime vs. Nighttime: Approximately 97% of all helicopter tour operations occurred during the daytime hours.

LAS Fleet Mix for All Aircraft Types - (Exhibit 7)

- **Heavies:** Very large air carrier turbine-driven aircraft (those weighing 300,000 lbs. or more) accounted for 2% of the daily traffic.
- Large: Large air carrier turbine-driven aircraft (those weighing more than 75,000 lbs. and less than 300,000 lbs.) accounted for 66% of the daily traffic.

³ See footnote #1.

⁴ See footnote #1.

⁵ See footnote #1.

⁶ See footnote #1.

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- **Medium:** *Medium* turbine-driven aircraft (those weighing more than 41,000 lbs. and less than 75,000 lbs.) accounted for 1% of the daily traffic.
- **Small: Small** turbine-driven aircraft (those weighing 41,000 lbs. or less) accounted for 8% of the daily traffic.
- **Military:** *Military* turbine-driven aircraft accounted for virtually 0% of the daily traffic.
- Non-Jet: *Piston-driven* aircraft and unassigned aircraft types accounted for 4% of the daily traffic.

Heli: *Touring helicopters* accounted for 20% of the daily traffic.

Noisier Aircraft Types: The hush-kitted Boeing 727 aircraft and Boeing 737 (100 & 200 series) aircraft accounted for zero operations.

LAS General Departure Direction for Large Aircraft - (Exhibit 8)

- **Primary:** In 2014, 67% departed to the *west* (from LAS's primary departure runways). This figure was 73% in 2013 and 64% in 2012.
- Secondary: In 2014, 4% departed to the *south* (from LAS's secondary departure runways). This figure was 3% in 2013 and 11% in 2012.
- Alternate 1: In 2014, 14% departed to the *north* (from LAS's alternate departure runways). This figure was 16% in 2013 and 16% in 2012.
- Alternate 2: In 2014, 15% departed to the *east* (from LAS's alternate departure runways). This figure was 8% in 2013 and 9% in 2012.

Gate Compliance for Large Aircraft and Helicopters - (Exhibit 9)

SVHS: In 2014, 96% of the large air carrier aircraft (excluding those destined to the Nevada National Security Site) that departed to the west from Runways 25L or 25R and made a left-hand turn were within 0.3 NM of *Sierra Vista High School* (SVHS). This figure was 96% in 2013 and 94% in 2012.

The SVHS "compliance gate" is located southwest of Warm Springs Rd. and Buffalo Dr., approximately 5 miles due west and 1.5 miles due south of the extended runway centerline of Runways 25L and 25R. This gate was established along an existing noise abatement flight track which requests pilots to proceed runway heading to 3 nautical miles from the Las Vegas very-high frequency omnidirectional range tactical air navigation (VORTAC) facility before turning left (or towards the south) - where large air carrier aircraft have historically been encouraged to operate. This noise abatement flight track avoids communities impacted by aircraft turning early along this corridor (like the Nevada Trails community) and aircraft turning late along this corridor (like the Rhodes Ranch community).

Peace: In 2014, 95% of the large air carrier aircraft (excluding those destined to the Nevada National Security Site) that departed to the west from Runways 25L or 25R and made a right-hand turn were within 0.3 NM of the intersection of *Peace Way & Summers Shade Street*. This figure was 96% in 2013 and 95% in 2012.

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The Peace "compliance gate" is located northeast of Tropicana Ave. and I-215, approximately 6 miles due west and 2 miles due north of the extended runway centerline of Runways 25L and 25R. This gate was also established along an existing noise abatement flight track which requests pilots to proceed runway heading to 4 nautical miles from the Las Vegas VORTAC before turning right (or towards the north) - where large air carrier aircraft have historically been encouraged to operate. This noise abatement flight track avoids communities impacted by aircraft turning early along this corridor (like the Spanish Trail community) and aircraft turning late along this corridor (like the South community).

Pebble: In 2014, almost 100% of the large air carrier aircraft (excluding those destined to the Nevada National Security Site) that departed to the south from Runways 19L or 19R were within 0.3 NM of the intersection of *Pebble Road & Arville Street*. This figure was 93% in 2013 and 97% in 2012.

The Pebble "compliance gate" is located southeast of Blue Diamond Rd. and Decatur Blvd., approximately 4 miles due south by southwest of the extended runway centerline of Runways 19L and 19R. This gate was also established along an existing noise abatement flight track which requests pilots to proceed runway heading to 3 nautical miles from the Las Vegas VORTAC before turning - where large air carrier aircraft have historically been encouraged to operate. This noise abatement flight track avoids communities impacted by aircraft turning early along this corridor (like the Warm Spring Estates community) and aircraft turning late along this corridor (like the Southern Highlands community).

UNLV: In 2014, 81% of the large air carrier aircraft that departed to the north from Runways 01L or 01R were within 0.3 NM of the *UNLV sports complex*. This figure was 77% in 2013 and 83% in 2012.

The UNLV "compliance gate" is located southeast of Flamingo Rd. and Paradise Rd., approximately 1 mile due north by northeast of the extended runway centerline of Runways 01L and 01R. This gate was also established along an existing noise abatement flight track which requests pilots to proceed runway heading to 2 nautical miles from the Las Vegas VORTAC before turning - where large air carrier aircraft have historically been encouraged to operate. This noise abatement flight track avoids communities impacted by aircraft turning early along this corridor, located due east and due west of UNLV.

Boulder: In 2014, 94% of the large air carrier aircraft that departed to the north from Runways 07L or 07R were within 0.3 NM of the extended runway centerline, near *Boulder Highway*. This figure was 98% in 2013 and 97% in 2012.

The Boulder Hwy. "compliance gate" is located southeast of Russell Rd. and I-93/95, approximately 7 miles due east of the extended runway centerline of Runways 07L and 07R. This gate was also established along an existing noise abatement flight track which requests pilots to proceed runway heading to 7 nautical miles from the Las Vegas VORTAC before turning - where large air carrier aircraft have historically been encouraged to operate. This noise abatement flight track avoids communities impacted by aircraft turning early along this corridor (like the Green Valley community, located in the City of Henderson, and older neighborhoods located north of Patrick Ln.).

Hualapai: In 2014, 87% of the large air carrier aircraft destined to the Nevada National Security Site that departed to the west from Runways 25L or 25R were within 0.3 NM of the extended runway centerline, near *Hualapai Way*. This figure was 93% in 2013 and 89% in 2012.

The Hualapai Way "compliance gate" is located northeast of Sunset Rd. and Hualapai Way, approximately 7 miles due west of the extended runway centerline of Runways 25L and 25R. This gate was established in May 2011 along a new noise abatement flight track which requests pilots of aircraft destined to the Nevada National Security Site to proceed runway heading to 7 nautical miles from the Las Vegas VORTAC before turning. This noise abatement flight track avoids communities impacted by aircraft turning early along this corridor (like the Spanish Trail community and the Summerlin South community).

Eastern: In 2014, 98% of the touring helicopters destined east of the Las Vegas Valley were within 500 feet of the intersection of *Tropicana Avenue & Eastern Avenue*. This figure was 99% in 2013 and 98% in 2012.

The Eastern Ave. "compliance gate" is located at Tropicana Ave. and Eastern Ave, approximately 2 miles due west of the their initial departure route. This gate was also established along an existing noise abatement flight track which requests helicopter pilots to proceed along the centerline of Tropicana Ave. until 10 nautical miles from the Las Vegas VORTAC before turning. This noise abatement flight track avoids communities impacted by helicopters located north and south of the corridor.

Hollywood: In 2014, almost 100% of the touring helicopters returning from areas east of the Las Vegas Valley were within 500 feet of the intersection of *Charleston Boulevard* & *Hollywood Boulevard*. This figure was 99% in 2013 and 99% in 2012.

The Hollywood Blvd. "compliance gate" is located at Charleston Blvd. and Los Feliz St., where their initial arrival route begins over the urbanized area of the Las Vegas Valley. This gate was also established along an existing noise abatement flight track which requests helicopter pilots to proceed along the centerline of Charleston Blvd. This noise abatement flight track avoids communities impacted by helicopters located north and south of the corridor.

Stratosphere: In 2014, 98% of the north-bound helicopters providing tours of the Las Vegas Strip were within 500 feet of the intersection of Oakey Boulevard & Las Vegas Boulevard, *northeast of the Stratosphere Tower*. This figure was 90% in 2013 and 88% in 2012.

The Stratosphere Tower "compliance gate" is located northeast of Sahara Avenue and Las Vegas Blvd., where an important turn in their fly-quietly routing structure begins near a historic portion of the urbanized area of the Las Vegas Valley.

The information denoted in this monthly summary represents **typical** residential complaints, flight activity, fleet mix, and gate compliance with the exception of increased departures to the east and the number of complaints tied to a single household.

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May 2014: 453 total complaints - a 1,410% decrease from 2013 and a 1,062% decrease from 2012. On average, each caller (or household) issued 21.6 calls. The most calls received from one household totaled 428.

Calls by Community - (Exhibits 1 and 3)

Majority (more than 50%): The *Paradise and Winchester* communities issued 432 calls (95%). (See April 2014 synopsis of typical aircraft overflight impacts on this community.)

Minority (between 10% and 50%): (Not applicable.)

Repeat Caller Impact: One household issued 94% of the total calls.

Calls by Operation - (Exhibit 2)

- LAS: 99% of the total calls were due to LAS fixed-wing operations.
 - 50% were due to departures to the west from Runways 25L and 25R (98% from one household).
 - 37% were due to departures to the north from Runways 01L and 01R (96% from one household, which is the same household that issued 98% of the calls for Runways 25L and 25R).
- **VGT:** <1% of the total calls received were due to **VGT** fixed-wing operations.
- **HND:** 1% of the total calls received were due to *HND* fixed-wing operations.
- **Helis:** <1% of the total calls received were due to *helicopter* operations.

LAS Operations & Runway Use by Large Air Carriers - (Exhibit 4)

Overall:	 441 daily <i>departures</i>⁷ – a 4% increase from 2013 and no change from 2012. 73% of departures were to the west, 14% east, 10% north, and 3% south. 481 daily <i>arrivals</i> – a 1% increase from 2013 and no change from 2012. 76% of arrivals were from the east, 16% south, 8% north, and 1% from the west.
Daytime:	 365 daily <i>departures</i>⁸ – a 5% increase from 2013 and 2% decrease from 2012. 72% of departures were to the west, 16% east, 9% north, and 3% south. 425 daily <i>arrivals</i> – a 1% increase from 2013 and no change from 2012. 75% of arrivals were from the east, 17% south, 7% north, and 1% west.
Nighttime:	 76 daily <i>departures</i>⁹ – a 3% decrease from 2013 and 14% increase from 2012. 80% of departures were to the west, 14% north, 3% east, and 3% south. 56 daily <i>arrivals</i> – a 3% decrease from 2013 and a 2% decrease from 2012. 81% of arrivals were from the east, 11% south, and 9% north.

Daytime vs. Nighttime: Approximately 83% of all *departures* and 88% of all *arrivals* occurred during the daytime hours.

⁷ See footnote #1.

⁸ See footnote #1.

⁹ See footnote #1.

LAS Operations & Runway Use by Non-Large Air Carriers - (Exhibit 5)

- Overall: 91 daily *departures*¹⁰ a 4% increase from 2013 and 1% increase from 2012.
 62% of departures were to the south, 18% west, 17% north, and 10% east.
 100 daily *arrivals* a 1% decrease from 2013 and 7% decrease from 2012.
 69% of arrivals were from the north, 19% south, 10% east, and 2% west.
- Daytime: 81 daily *departures*¹¹ a 4% increase from 2013 and a 2% decrease from 2012.
 61% of departures were to the south, 18% west, 11% east, and 10% north.
 93 daily *arrivals* a 2% decrease from 2013 and an 8% decrease from 2012.
 - 69% of arrivals were from the north, 19% south, 10% east, and 2% west.
- Nighttime: 11 daily *departures*¹² a 2% increase from 2013 and a 36% increase from 2012.
 66% of departures were to the south, 18% west, 14% north, and 2% east.
 - 8 daily *arrivals* a 17% increase from 2013 and a 10% increase from 2012.
 - 70% of arrivals were from the north, 22% south, 8% east, and 1% west.

Daytime vs. Nighttime: Approximately 89% of all *departures* and 93% of all *arrivals* occurred during the daytime hours.

Operations by Corridor for Helicopter Tours - (Exhibit 6)

Tropicana: 107 daily *departures* – a 20% decrease from 2013 and a 4% decrease from 2012.

Charleston: 106 daily arrivals - a 20% decrease from 2013 and a 5% decrease from 2012.

Strip: 35 daily touch and go's - a 20% decrease from 2013 and a 24% decrease from 2012.

Daytime vs. Nighttime: Approximately 95% of all helicopter tour operations occurred during the daytime hours.

LAS Fleet Mix for All Aircraft Types - (Exhibit 7)

Heavies: Very large air carrier turbine-driven aircraft (those weighing 300,000 lbs. or more) accounted for 2% of the daily traffic. Large air carrier turbine-driven aircraft (those weighing more than 75,000 lbs. and less Large: than 300,000 lbs.) accounted for 65% of the daily traffic. Medium turbine-driven aircraft (those weighing more than 41,000 lbs. and less than Medium: 75,000 lbs.) accounted for 1% of the daily traffic. Small: Small turbine-driven aircraft (those weighing 41,000 lbs. or less) accounted for 9% of the daily traffic. *Military* turbine-driven aircraft accounted for virtually 0% of the daily traffic. Military: **Piston-driven** aircraft and unassigned aircraft types accounted for 4% of the daily traffic. Non-Jet:

¹⁰ See footnote #1.

See footnote #1.

¹² See footnote #1.

Heli: *Touring helicopters* accounted for 20% of the daily traffic.

Noisier Aircraft Types: The hush-kitted Boeing 727 aircraft and Boeing 737 (100 & 200 series) aircraft accounted for zero operations per day.

LAS General Departure Direction for Large Aircraft - (Exhibit 8)

- **Primary:** In 2014, 73% departed to the *west* (from LAS's primary departure runways). This figure was 73% in 2013 and 55% in 2012.
- Secondary: In 2014, 3% departed to the *south* (from LAS's secondary departure runways). This figure was 3% in 2013 and 9% in 2012.
- Alternate 1: In 2014, 10% departed to the *north* (from LAS's alternate departure runways). This figure was 15% in 2013 and 21% in 2012.
- Alternate 2: In 2014, 14% departed to the *east* (from LAS's alternate departure runways). This figure was 9% in 2013 and 14% in 2012.

Gate Compliance for Large Aircraft and Helicopters - (Exhibit 9)

- SVHS: In 2014, 96% of the large air carrier aircraft (excluding those destined to the Nevada National Security Site) that departed to the west from Runways 25L or 25R and made a left-hand turn were within 0.3 NM of *Sierra Vista High School* (SVHS). This figure was 96% in 2013 and 95% in 2012. (See April 2014 synopsis for specific location of the SVHS gate.)
- Peace: In 2014, 96% of the large air carrier aircraft (excluding those destined to the Nevada National Security Site) that departed to the west from Runways 25L or 25R and made a right-hand turn were within 0.3 NM of the intersection of *Peace Way & Summers Shade Street*. This figure was 95% in 2013 and 94% in 2012. (See April 2014 synopsis for specific location of the Peace gate.)
- Pebble: In 2014, 99% of the large air carrier aircraft (excluding those destined to the Nevada National Security Site) that departed to the south from Runways 19L or 19R were within 0.3 NM of the intersection of *Pebble Road & Arville Street*. This figure was 90% in 2013 and 97% in 2012. (See April 2014 synopsis for specific location of the Pebble gate.)
- **UNLV:** In 2014, 78% of the large air carrier aircraft that departed to the north from Runways 01L or 01R were within 0.3 NM of the *UNLV sports complex*. This figure was 78% in 2013 and 84% in 2012. (See April 2014 synopsis for specific location of the UNLV gate.)
- **Boulder:** In 2014, 96% of the large air carrier aircraft that departed to the north from Runways 07L or 07R were within 0.3 NM of the extended runway centerline, near *Boulder Highway*. This figure was 98% in 2013 and 97% in 2012. (See April 2014 synopsis for specific location of the Boulder Hwy. gate.)
- **Hualapai:** In 2014, 89% of the large air carrier aircraft destined to the Nevada National Security Site that departed to the west from Runways 25L or 25R were within 0.3 NM of the extended runway centerline, near *Hualapai Way*. This figure was 97% in 2013 and 91% in 2012. (See April 2014 synopsis for specific location of the Hualapai gate.)

- Eastern: In 2014, 97% of the touring helicopters destined east of the Las Vegas Valley were within 500 feet of the intersection of *Tropicana Avenue & Eastern Avenue*. This figure was 99% in 2013 and 98% in 2012. (See April 2014 synopsis for specific location of the Eastern gate.)
- Hollywood: In 2014, almost 100% of the touring helicopters returning from areas east of the Las Vegas Valley were within 500 feet of the intersection of *Charleston Boulevard & Hollywood Boulevard*. This figure was 99% in 2013 and 99% in 2012. (See April 2014 synopsis for specific location of the Hollywood gate.)
- Stratosphere: In 2014, 94% of the north-bound helicopters providing tours of the Las Vegas Strip were within 500 feet of the intersection of Oakey Boulevard & Las Vegas Boulevard, *northeast of the Stratosphere Tower*. This figure was 80% in 2013 and 72% in 2012. (See April 2014 synopsis for specific location of the Stratosphere gate.)

The information denoted in this monthly summary represents **typical** residential complaints, flight activity, fleet mix, and gate compliance with the exception of increased departures to the east and the number of complaints tied to a single household.

June 2014: 146 total complaints – a 1,986% inecrease from 2013 and a 711% increase from 2012. On average, each caller (or household) issued 20.9 calls. The most calls received from one household totaled 140.

Calls by Community - (Exhibits 1 and 3)

Majority (more than 50%): The *Paradise and Winchester* communities issued 142 calls (97%). (See April 2014 synopsis of typical aircraft overflight impacts on this community.)

Minority (between 10% and 50%): (Not applicable.)

Repeat Caller Impact: One household issued 96% of the total calls.

Calls by Operation - (Exhibit 2)

- LAS: 93% of the total calls received were due to LAS fixed-wing operations.
 - 93% were due to departures to the west from Runways 25L and 25R (96% from one household).
- **VGT:** 0% of the total calls received were due to **VGT** fixed-wing operations.
- **HND:** 0% of the total calls received were due to *HND* fixed-wing operations.
- **Helis:** 7% of the total calls received were due to *helicopter* operations (80% from one household, which is also the same household noted for complaint calls for departures to the west from Runway 25L and 25R).

LAS Operations & Runway Use by Large Air Carriers - (Exhibits 4)

Overall: 441 daily departures¹³ – a 2% increase from 2013 and a 3% decrease from 2012. 72% of departures were to the west, 19% east, 6% north, and 3% south. 487 daily arrivals – a 3% increase from 2013 and 1% increase from 2012.

- 70% of arrivals were from the east, 18% north, 7% west and 4% south.
- Daytime: 361 daily departures¹⁴ a 5% increase from 2013 and 4% decrease from 2012.
 67% of departures were to the west, 24% east, 6% north, and 3% south.
 424 daily arrivals a 4% increase from 2013 and 1% increase from 2012.
 - 67% of arrivals were from the east, 19% north, 8% west, and 5% south.

Nighttime: 80 daily *departures*¹⁵ – a 6% decrease from 2013 and 1% increase from 2012.

- 94% of departures were to the west, 3% south, 2% north, and 1% east.
- 63 daily *arrivals* a 6% decrease from 2013 and 1% decrease from 2012.
 - 87% of arrivals were from the east, and 12% from the north.

Daytime vs. Nighttime: Approximately 82% of all *departures* and 87% of all *arrivals* occurred during the daytime hours.

LAS Operations & Runway Use by Non-Large Air Carriers - (Exhibit 5)

Overall:	 75 daily departures¹⁶ – a 9% increase from 2013 and a 2% decrease from 2012. 55% of departures were to the south, 20% east, 18% west, and 7% north. 83 daily arrivals – a 9% increase from 2013 and a 9% decrease from 2012. 71% of arrivals were from the north, 11% east, 10% west, and 8% south.
Daytime:	 66 daily <i>departures</i>¹⁷ – an 11% increase from 2013 and a 3% decrease from 2012. 53% of departures were to the south, 23% east, 17% west, and 7% north. 77 daily <i>arrivals</i> – a 10% increase from 2013 and a 10% decrease from 2012. 70% of arrivals were from the north, 11% east, 10% west, and 8% south.
Nighttime:	 9 daily <i>departures</i>¹⁸ – a 1% decrease from 2013 and a 10% increase from 2012. 70% of departures were to the south, 23% west, 5% north, and 1% east. 6 daily <i>arrivals</i> – a 5% decrease from 2013 and no change from 2012. 85% of arrivals were from the north, 10% east, 4% south, and 1% west.

Daytime vs. Nighttime: Approximately 88% of all *departures* and 93% of all *arrivals* occurred during the daytime hours.

¹³ See footnote #1.

¹⁴ See footnote #1.

¹⁵ See footnote #1.

¹⁶ See footnote #1.

¹⁷ See footnote #1.

¹⁸ See footnote #1.

Operations by Corridor for Helicopter Tours - (Exhibit 6)

Tropicana: 102 daily *departures* – a 15% decrease from 2013 and a 9% decrease from 2012.

Charleston: 103 daily arrivals - a 14% decrease from 2013 and an 8% decrease from 2012.

Strip: 45 daily *touch and go's* - an 18% decrease from 2013 and a 10% decrease from 2012.

Daytime vs. Nighttime: Approximately 86% of all helicopter tour operations occurred during the daytime hours.

LAS Fleet Mix for All Aircraft Types - (Exhibit 7)

- **Heavies:** Very large air carrier turbine-driven aircraft (those weighing 300,000 lbs. or more) accounted for 2% of the daily traffic.
- Large: Large air carrier turbine-driven aircraft (those weighing more than 75,000 lbs. and less than 300,000 lbs.) accounted for 66% of the daily traffic.
- **Medium:** *Medium* turbine-driven aircraft (those weighing more than 41,000 lbs. and less than 75,000 lbs.) accounted for 1% of the daily traffic.
- **Small: Small** turbine-driven aircraft (those weighing 41,000 lbs. or less) accounted for 7% of the daily traffic.
- **Military:** *Military* turbine-driven aircraft accounted for virtually 0% of the daily traffic.
- Non-Jet: *Piston-driven* aircraft and unassigned aircraft types accounted for 4% of the daily traffic.

Heli: *Touring helicopters* accounted for 21% of the daily traffic.

Noisier Aircraft Types: The hush-kitted Boeing 727 aircraft and Boeing 737 (100 & 200 series) aircraft accounted for zero operations per day.

LAS General Departure Direction for Large Aircraft - (Exhibit 8)

- **Primary:** In 2014, 72% departed to the *west* (from LAS's primary departure runways). This figure was 82% in 2013 and 65% in 2012.
- Secondary: In 2014, 3% departed to the *south* (from LAS's secondary departure runways). This figure was 3% in 2013 and 8% in 2012.
- Alternate 1: In 2014, 6% departed to the *north* (from LAS's alternate departure runways). This figure was 2% in 2013 and 6% in 2012.
- Alternate 2: In 2014, 19% departed to the *east* (from LAS's alternate departure runways). This figure was 13% in 2013 and 21% in 2012.

Gate Compliance for Large Aircraft and Helicopters - (Exhibit 9)

- **SVHS:** In 2014, 95% of the large air carrier aircraft (excluding those destined to the Nevada National Security Site) that departed to the west from Runways 25L or 25R and made a left-hand turn were within 0.3 NM of *Sierra Vista High School* (SVHS). This figure was 96% in 2013 and 95% in 2012. (See April 2014 synopsis for specific location of the SVHS gate.)
- Peace: In 2014, 96% of the large air carrier aircraft (excluding those destined to the Nevada National Security Site) that departed to the west from Runways 25L or 25R and made a right-hand turn were within 0.3 NM of the intersection of *Peace Way & Summers Shade Street*. This figure was 95% in 2013 and 94% in 2012. (See April 2014 synopsis for specific location of the Peace gate.)
- **Pebble:** In 2014, 99% of the large air carrier aircraft (excluding those destined to the Nevada National Security Site) that departed to the south from Runways 19L or 19R were within 0.3 NM of the intersection of *Pebble Road & Arville Street*. This figure was 99% in 2013 and 96% in 2012. (See April 2014 synopsis for specific location of the Pebble gate.)
- **UNLV:** In 2014, 80% of the large air carrier aircraft that departed to the north from Runways 01L or 01R were within 0.3 NM of the *UNLV sports complex*. This figure was 81% in 2013 and 82% in 2012. (See April 2014 synopsis for specific location of the UNLV gate.)
- **Boulder:** In 2014, 93% of the large air carrier aircraft that departed to the north from Runways 07L or 07R were within 0.3 NM of the extended runway centerline, near *Boulder Highway*. This figure was 97% in 2013 and 97% in 2012. (See April 2014 synopsis for specific location of the Boulder Hwy. gate.)
- **Hualapai:** In 2014, 86% of the large air carrier aircraft destined to the Nevada National Security Site that departed to the west from Runways 25L or 25R were within 0.3 NM of the extended runway centerline, near *Hualapai Way*. This figure was 95% in 2013 and 94% in 2012. (See April 2014 synopsis for specific location of the Hualapai gate.)
- **Eastern:** In 2014, 97% of the touring helicopters destined east of the Las Vegas Valley were within 500 feet of the intersection of *Tropicana Avenue & Eastern Avenue*. This figure was 99% in 2013 and 98% in 2012. (See April 2014 synopsis for specific location of the Eastern gate.)
- Hollywood: In 2014, almost 100% of the touring helicopters returning from areas east of the Las Vegas Valley were within 500 feet of the intersection of *Charleston Boulevard & Hollywood Boulevard*. This figure was 99% in 2013 and 99% in 2012. (See April 2014 synopsis for specific location of the Hollywood gate.)
- Stratosphere: In 2014, 91% of the north-bound helicopters providing tours of the Las Vegas Strip were within 500 feet of the intersection of Oakey Boulevard & Las Vegas Boulevard, *northeast of the Stratosphere Tower*. This figure was 79% in 2013 and 70% in 2012. (See April 2014 synopsis for specific location of the Stratosphere gate.)

The information denoted in this monthly summary represents **typical** residential complaints, flight activity, fleet mix, and gate compliance with the exception of increased departures to the east and the number of complaints tied to a single household.

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Other Notable Issues

Electric Daisy Carnival: On June 20 thru 22, 2014, this concert event was held at the Las Vegas Motor Speedway, with a total attendance in excess of 400,000 people. Total revenue for this concert exceeded \$250 million for Clark County. Helicopter tour operators provided an estimated 545 passenger flights to and from the event over the three day period, resulting in zero noise complaints issued.

Safety and Security Threats: Any threats to DOA staff or an aircraft in flight are taken seriously, and such threats will be forwarded to the appropriate law enforcement agencies.

GCS:jj

Attachments

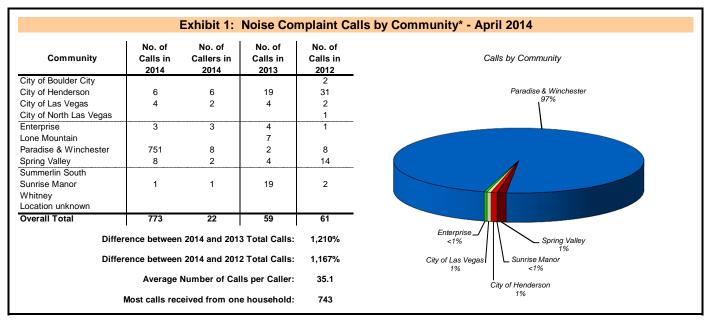
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Distribution: Commissioner Sisolak, Chair Commissioner Brager Commissioner Collins Commissioner Weekly Saeed Bonabian Donald G. Burnette Ralph LePore Sam Ingalls Teresa Motley Dan Kezar Linda Healey Tucker Field **Tina Frias** Judy Villalta Sandra Cikity Donna Bergstrom Stephen J. Lloyd (FAA TRACON) Jon Holman (FAA ATC) Charlie Halterman (HND Tower) Reid Walburg (FAA FSDO) Bristol Ellington (COH) Josh Reid (COH) Elizabeth Fretwell (CLV) Vicki Mayes (CBC) Mayor Carolyn Goodman (CLV) Councilman Bob Beers (CLV) Councilman Bob Coffin (CLV) Councilwoman L. Tarkanian (CLV) Mayor Pro Tem S. Anthony (CLV) Councilman Ricki Barlow (CLV) Councilman Steven Ross (CLV)

Bradford Jerbic, (CLV) Mayor Roger Tobler (CBC) Brok Armantrout (CBC) David Parks (Nevada State Assembly) J. Gordon Arkin (Foley & Lardner) John Williams (Ricondo) Douglas Pomeroy (FAA ADO) La Nea M. Conner (Boeing) Mike Jeck (Metro Wash. Air Auth.) Frank Fiori (CNLV) James Davies (Sky Harbor Airport) Karen Everitt (Dallas City Hall) Thomas Miller (Nellis AFB) Stephanie Garcia-Vause (COH) Andrew Powell (COH) William Ruggiero (FAA TRACON)

Commissioner Brown, Vice-Chair Commissioner Giunchigliani **Commissioner Scow Rosemary Vassiliadis** Harry Waters Brian McMahon E. Lee Thomson Chris Jones Barbara Bolton Jeff Jacquart Charlie Hall Ben Czyzewski Dennis Anderson Tom Peterson Mark Silverstein Brenda Bell James Erbeck (CLV) Wayne M. Niimi (FAA ATC) Paul Alukonis (FAA FSDO) Sydney Lowe (University Libraries) Bob Brown (BBA) Lisa Butterfield (Reno-Tahoe Airport) Andrea Christensen (Denver Airport) Jennifer Lewis (Scottsdale Airport) Frank lacovino (Mass Port Authority) Robert Butler (Papillon Helicopters) Christine Gerencher (American Airlines) Bert Ganoung (SFO) Nigel Turner (Heli USA Airways) San Diego Airport Noise Management Jeannie Denham (Citizen) Judge Bob Johnston (Citizen) Roy Fuhrmann (Metro Airports Commission) Tom Schaus (Sundance Helicopters) Brooke Satern (Port of Portland) Gary Brodt (Citizen) James P. Callahan (Nellis AFB) Stan Shepherd (SEATAC) Eric Sheng (Long Beach Airport) Jason Schwartz (Portland Airport) Todd Lobato (Nellis AFB) William Olivieri (Citizen) Samuel Carter (ITT) Steven Peacock (Dallas City Hall)

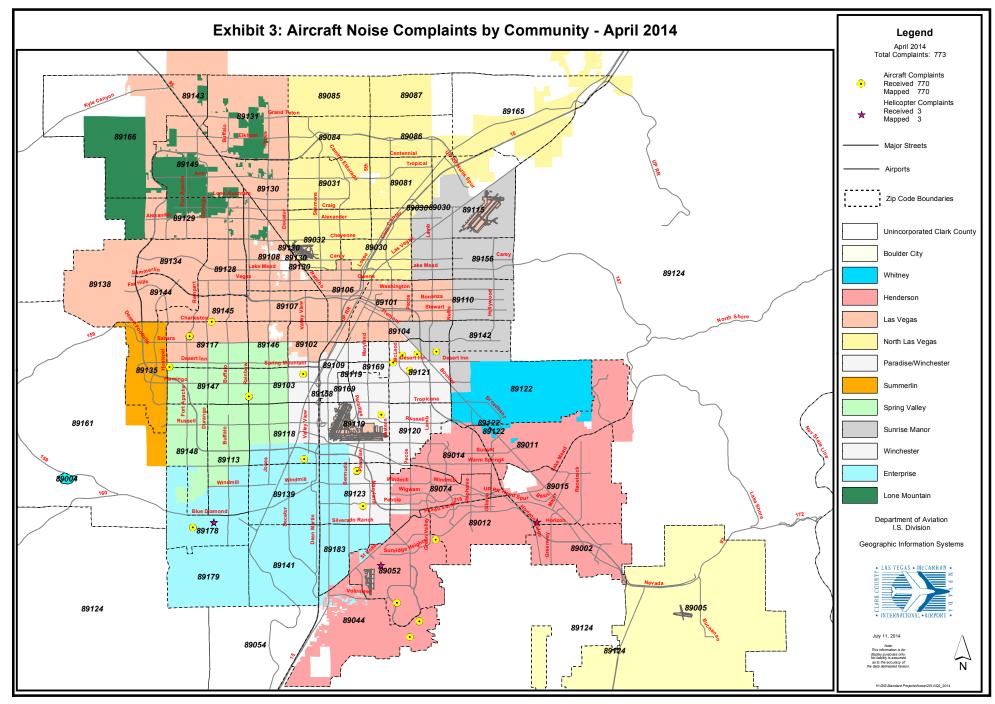
- Jacob Snow (COH)
- John Dietz (FAA TRACON)



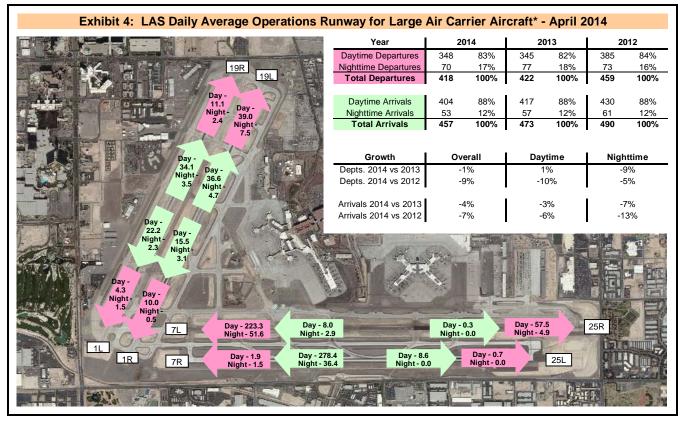
* See map on reverse side for community boundaries and location of known noise complaints.

Operation	No. of Calls in 2014	Percent of Overall Total	No. of Calls in 2013	No. of Calls in 2012	Calls by Operation 0 50 100 150 200 250 300 350
AS 01R/L Arrivals	1	0.1%			
AS 07R/L Arrivals					396 calls from one household
AS 19R/L Arrivals					
AS 25R/L Arrivals	1	0.1%		2	
AS 01R/L Departures	409	52.9%	11	15	
AS 07R/L Departures	40	5.2%	1		40 calls from one household
AS 19R/L Departures	1	0.1%			
AS 25R/L Departures	314	40.6%	17	7	
AS Run-ups	1				
LAS GA					
AS Other					307 calls from one household
AS Total	767	99.2%	29	24	
/GT 07 Arrivals					743 total calls from same household
/GT 12R/L Arrivals					
/GT 25 Arrivals					
/GT 30R/L Arrivals					
/GT 07 Departures					
/GT 12R/L Departures					
/GT 25 Departures					
/GT 30R/L Departures					
/GT Run-ups					
/GT GA				1	
/GT Other					
/GT Total	0	0.0%	0	1	
HND 17R/L Arrivals					
HND 35R/L Arrivals					
IND 17R/L Departures					
IND 35R/L Departures					
HND Run-ups					
IND GA	3	0.4%	14	2	
IND Other					
IND Total	3	0.4%	14	2	
lelicopters**	3	0.4%	16	34	

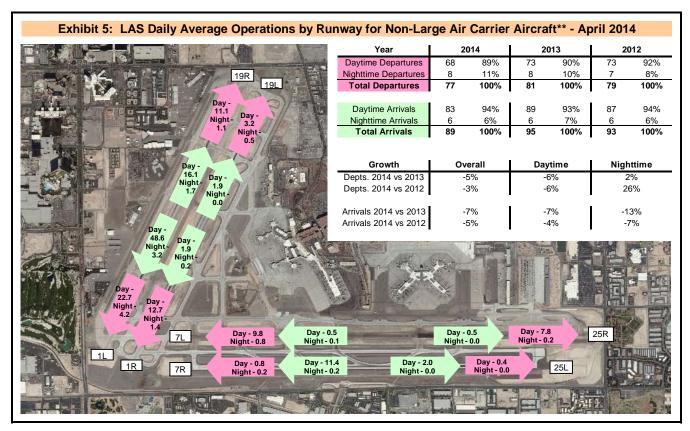
** Note that helicopter noise complaints are not tied to a specific facility since the operation cannot always be associated to a specific airport. Additionally, helicopter calls do nc include those associated with operations conducted by the Metropolitan Police Department or those associated with operations conducted at non-DOA facilities.



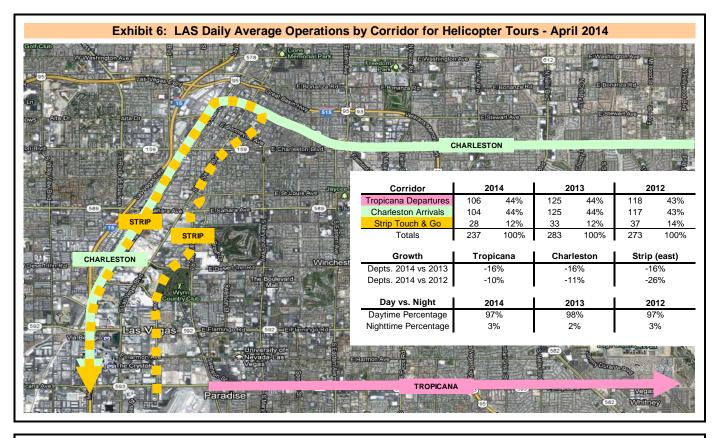
2014 Noise Complaint Report



* Aircraft types: All aircraft with a maximum gross take of weight of at least 75,000 pounds, including but not limited to, A306, A310, A311, A318, A319, A320, A330, A340 B707, B717, B727, B737, B747, B757, B767, B777, CRJ7, CRJ9, DC8, DC9, DC10, E170, E190, HA4T, L1011, MD80, MD90, MD10, MD11, VC10.

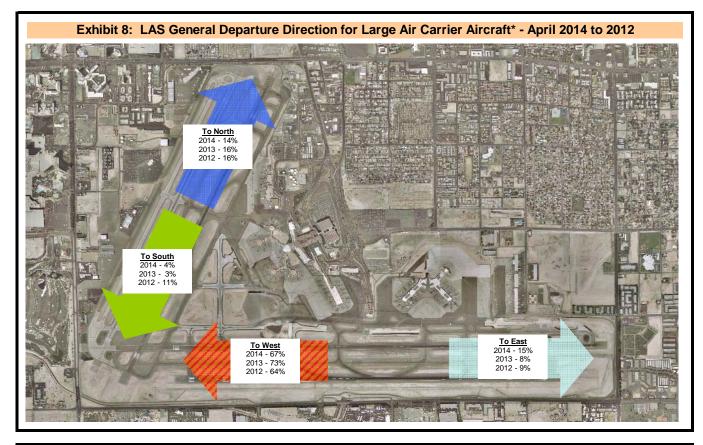


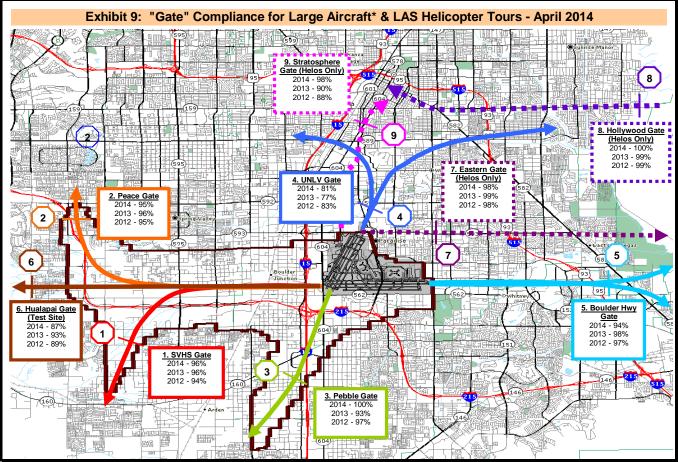
** Aircraft types: All aircraft with a maximum gross take of weight less than 75,000 pounds, excluding helicopters.



		Exhibi	t 7: LAS	Aircraft A	rrival Fle	et M	ix* -	Apri	I 20 ′	14							
Operation	Daily Average in 2014	Percent of Overall Total	Daily Average in 2013	Daily Average in 2012	0 25	50	75	100	Fleet	Mix 150	175	200	225	250	275	300	325
A300s, A310s	0.77	0.1%	1.20	1.07		ł	1	1					1				
A330s, A340s	2.80	0.4%	1.93	2.97	in i	1											
B747s	2.23	0.3%	2.63	2.47	i i												
B767s	4.03	0.6%	3.27	4.30	h !												
B777s	0.90	0.1%	0.73	0.00	ī !												
DC10, L1011, MD11	1.60	0.2%	1.17	0.97	i i												
Misc. (B707s, DC8s, etc.)	0.00	0.0%	0.00	0.00	T I												
Heavy Jets (>300,000 lbs.)	12.33	1.8%	10.93	11.77													
	•		•														
A318s, A319s	33.70	5.0%	37.33	37.00													
A320s, A321s	47.23	7.0%	50.77	49.83		٦İ											
B717s	0.00	0.0%	0.00	0.00													
B727s	0.00	0.0%	0.03	0.03		1							ł				
B737-100s, -200s	0.00	0.0%	0.00	0.00													
B737-300s to -900s	297.47	43.9%	296.27	302.53											•		
B757s	23.83	3.5%	33.30	30.53		l											
BAC 111s, E170s, E190s	0.27	0.0%	0.27	0.80													
CRJ7s, CRJ9s	16.30	2.4%	12.03	15.77													
MD80s	24.20	3.6%	27.87	39.83													
MD90s	1.33	0.2%	4.20	2.30													
Misc. (Bae 146s, DC9s)	0.13	0.0%	0.33	0.07													
Large Jets (>75,000 lbs.)	444.47	65.6%	462.40	478.70													
Medium Jets (>41,000	5.40	0.8%	5.50	7.33													
Small Jets (<41,000 lbs.)	54.93	8.1%	59.90	51.63		-											
Military Jets	0.57	0.1%	0.33	0.17													
Non-Jets & Unknowns	27.60	4.1%	29.63	33.50													
Helicopter Tours	131.80	19.5%	157.50	154.90					<u> </u>								
Overall Total*	677	100%	726	738													

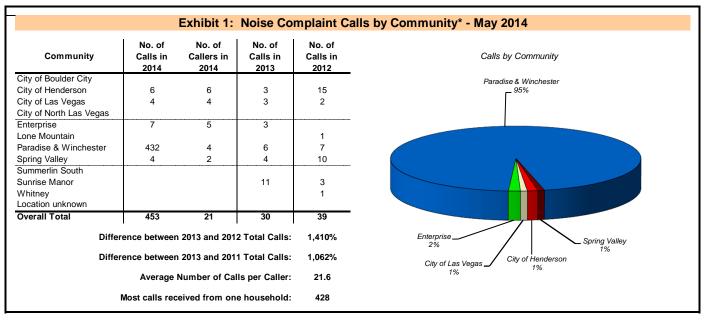
* Overall Total: Note that operation type and runway use counts are estimated by ITT Exelis AirScene.com Noise and Monitoring Operations (NOMS) system based on radar data. Due to limitations of radar data, information for aircraft weighing less than 75,000 lbs. is inexact.





* Aircraft types: All aircraft with a maximum gross take of weight of at least 75,000 pounds, including but not limited to, A306, A310, A311, A318, A319, A320, A330, A B707, B717, B727, B737, B747, B757, B767, B777, CRJ7, CRJ9, DC8, DC9, DC10, E170, E190, HA4T, L1011, MD80, MD90, MD10, MD11, VC10.

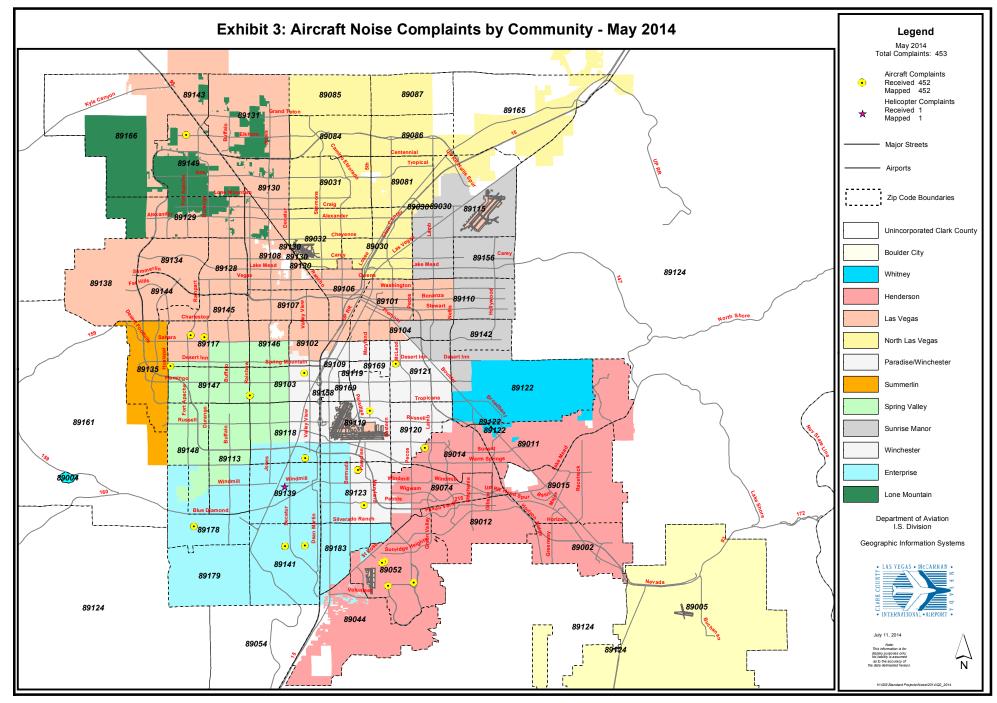
April 2014 Noise Complaint Report



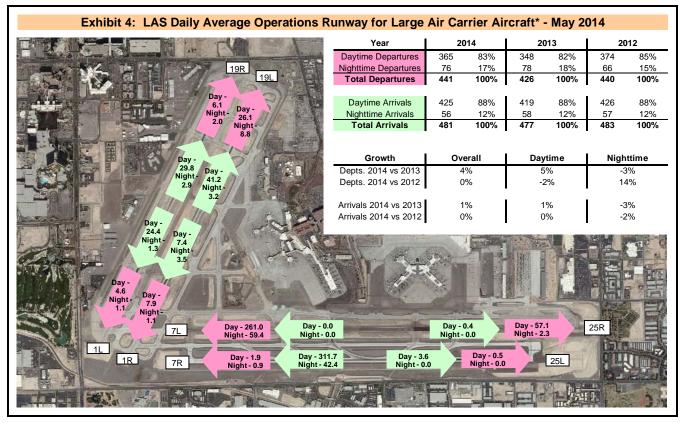
* See map on reverse side for community boundaries and location of known noise complaints.

AS OFRL Arrivals AS VAL Departures AS Offer AS Offer AS VAL Departures VGT OF Arrivals VGT OF Arri						by Type of Operation - May 2014
LAS OFRIL Arrivals LAS 198/LL Arrivals LAS 198/LL Arrivals LAS 198/L Arrivals LAS 198/L Arrivals LAS 078/L Departures R 8 1.8% 1 3 Comparise 227 50.1% 6 4 LAS North- Lepartures 227 50.1% 6 4 LAS Num-ups 1 0.2% 1 23 cals from one household 23 cals from one househol	Operation	Calls in	Overall	Calls in	Calls in	
CAS UPRL Arrivals 1 0.2% 1 LAS 19RL Arrivals 1 0.2% 1 LAS 25RL Departures 169 37.3% 6 16 LAS 19RL Departures 8 1.8% 1 3 LAS 25RL Departures 37 6 4 LAS 19RL Departures 227 50.1% 6 4 LAS 6A 1 0.2% 1 25 cals from one household 25 cals from one household LAS 5DrkL Departures 227 50.1% 6 4 23 cals from one household LAS 6A 1 0.2% 1 23 23 cals from one household 23 cals from one household LAS 70rail 446 98.5% 14 23 23 23 cals from one household 223 cals from one household VGT 07 Arrivals	LAS 01R/L Arrivals	3	0.7%			
LAS SR/L Arrivals	LAS 07R/L Arrivals					163 calls from one household 428 total calls from same household
LAS OTR/L Departures 169 37.3% 6 16 LAS 07R/L Departures 8 1.8% 1 3 LAS 19R/L Departures 227 50.1% 6 4 LAS SR/L Departures 227 50.1% 6 4 LAS Run-ups 1 0.2% 1 35.3% 6 LAS Other	LAS 19R/L Arrivals	1	0.2%			
LAS 07R/L Departures 8 1.8% 1 3 LAS 19R/L Departures 37 6 4 LAS 25R/L Departures 227 50.1% 6 4 LAS GA 1 0.2% 1 5 23 calls from one household LAS Other 1 0.2% 1 1 223 calls from one household LAS Other 1 23 calls from one household 223 calls from one household 223 calls from one household VGT 07 Arrivals VGT 12R/L Arrivals VGT 25 Arrivals 223 calls from one household 223 calls from one household VGT 12R/L Arrivals VGT 25 Arrivals	LAS 25R/L Arrivals					
LAS 19R/L Departures 37 227 50.1% 6 4 LAS 26R/L Departures 227 50.1% 6 4 LAS Run-ups 1 0.2% 1 25 calls from one household LAS Other	LAS 01R/L Departures	169	37.3%	6	16	
LAS 19R/L Departures 37 227 50.1% 6 4 LAS 26R/L Departures 227 50.1% 6 4 LAS Run-ups 1 0.2% 1 25 calls from one household LAS Other	LAS 07R/L Departures	8	1.8%	1	3	
LAS 25R/L Departures 227 50.1% 6 4 LAS Run-ups 1 0.2% 1 23 LAS GA 1 0.2% 1 23 LAS Other						
LAS Run-ups 1 0.2% 1 LAS GA LAS Other		-	50.1%	6	4	
LAS GA LAS Other LAS Total 446 98.5% 14 23 VGT 07 Arrivals VGT 07 Drepartures VGT 30 <i>R</i> /L Arrivals VGT 30 <i>R</i> /L Arrivals VGT 30 <i>R</i> /L Departures VGT 25 Departures VGT 25 Departures VGT 25 Departures VGT 26 A 1 0.2% 1 VGT GA 1 0.2% 0 1 HND 17 <i>R</i> /L Arrivals HND 35 <i>R</i> /L Arrivals HND 35 <i>R</i> /L Arrivals HND 35 <i>R</i> /L Arrivals HND 35 <i>R</i> /L Arrivals HND 55 1.1% 2 HND 6A 5 1.1% 0 2 HND Cher HND Total 5 1.1% 0 2 HND Cher HND Total 5 1.1% 0 2 HND Cher						
LAS Other						
LAS Total 446 98.5% 14 23 VGT 07 Arrivals VGT 12R/L Arrivals VGT 25 Arrivals VGT 25 Arrivals VGT 30R/L Arrivals VGT 07 Departures VGT 25 Departures VGT 25 Departures VGT 30R/L Departures VGT 12R/L Departures VGT 30R/L Departures VGT 30R/L Departures VGT 30R/L Departures VGT GA 1 0.2% 1 VGT GA 1 0.2% 0 1 VGT Total 1 0.2% 0 1 HND 35R/L Arrivals 1 2 1 HND 35R/L Departures 1 2 1 HND 35R/L Departures 1 2 1 HND 35R/L Arrivals 5 1.1% 2 HND GA 5 1.1% 0 2 HND Total 5 1.1% 0 2 Helicopters** 1 0.2% 16 13						223 calls from one household
VGT 07 Arrivals VGT 25 Arrivals VGT 25 Arrivals VGT 307/L Arrivals VGT 307/L Departures VGT 307/L Departures VGT 128/L Departures VGT 307/L Departures VGT 6A 1 0.2% VGT 6A 1 0.2% VGT 70tal 1 0.2% HND 17R/L Arrivals 1 HND 35R/L Arrivals 1 HND 35R/L Departures 1 HND 35R/L Departures 1 HND 35R/L Departures 1 HND 6A 5 HND 6A 5 HND 7tal 5 HND 7tal 5 HND 7tal 1 0.2% 16		446	98.5%	14	23	
VGT 12R/L Arrivals VGT 25 Arrivals VGT 30R/L Arrivals			001070	••		
VGT 12R/L Arrivals VGT 25 Arrivals VGT 30R/L Arrivals	VGT 07 Arrivals					
VGT 25 Arrivals						
VGT 30R/L Arrivals VGT 07 Departures VGT 07 Departures VGT 12R/L Departures VGT 25 Departures VGT 30R/L Departures VGT 30R/L Departures 1 VGT 30R/L Departures 1 VGT 45 Departures 1 VGT 6A 1 VGT Other 1 VGT Other 1 VGT Total 1 HND 17R/L Arrivals HND 35R/L Departures						
VGT 07 Departures VGT 12R/L Departures VGT 12R/L Departures VGT 30R/L Departures VGT 30R/L Departures VGT 00-1 VGT GA 1 0.2% VGT Other 1 VGT Other 1 VGT Total 1 0.2% HND 17R/L Arrivals 1 0.2% HND 35R/L Arrivals - - HND 35R/L Departures - - HND 35R/L Departures - - HND 35R/L Departures - - HND 400 - 2 - - HND 6A 5 1.1% 2 HND 70tal 5 1.1% 0 HND 70tal 5 1.1% 0 Helicopters** 1 0.2% 16						
VGT 12R/L Departures VGT 25 Departures VGT 25 Departures						
VGT 25 Departures VGT 30R/L Departures VGT 30R/L Departures 1 VGT Run-ups 1 VGT GA 1 VGT Other 1 VGT Total 1 HND 17R/L Arrivals HND 35R/L Departures HND 35R/L Departures HND 35R/L Departures HND GA 5 1.1% 2 HND Other HND Total 5 1.1% 2 Helicopters** 1 0.2% 16						
VGT 30R/L Departures						
VGT Run-ups 1 0.2% 1 VGT GA 1 0.2% 1 VGT Other 1 0.2% 0 1 VGT Total 1 0.2% 0 1 HND 17R/L Arrivals 1 0.2% 0 1 HND 3SR/L Arrivals						
VGT GA 1 0.2% 1 VGT Other 1 0.2% 0 1 VGT Total 1 0.2% 0 1 HND 17R/L Arrivals 1 0.2% 0 1 HND 35R/L Arrivals - - - - HND 35R/L Departures - - - - HND 35R/L Departures - - - - HND GA 5 1.1% 2 - - HND Other - - - - - HND Total 5 1.1% 0 2 - - Helicopters** 1 0.2% 16 13 - - -						
VGT Other Image: Constraint of the constrain			0.007			
VGT Total 1 0.2% 0 1 HND 17R/L Arrivals HND 35R/L Arrivals HND 35R/L Departures HND SR/L Departures HND GA 1		1	0.2%		1	
HND 17R/L Arrivals HND 35R/L Arrivals HND 17R/L Departures HND 05R/L Departures HND GA 5 1.1% 2 HND Other HND Total 5 1.1% 0 2 Helicopters** 1 0.2% 16 13						
HND 35R/L Arrivals HND 35R/L Departures HND 35R/L Departures 5 HND GA 5 HND Other HND Total 5 1.1% 0 2 Helicopters** 1 0.2% 16	VGIIotal	1	0.2%	0	1	
HND 35R/L Arrivals Image: Second Structure Structure Structure Second Structure Structure Structure Second Structure Second Structure Structure Structure Second Structure Second Structure Stru						
HND 17R/L Departures Image: Second						
HND 35R/L Departures Image: Constraint of the second						
HND Run-ups 5 1.1% 2 HND GA 5 1.1% 2 HND Other 5 1.1% 0 HND Total 5 1.1% 0 Helicopters** 1 0.2% 16						
HND GA 5 1.1% 2 HND Other 5 1.1% 0 2 HND Total 5 1.1% 0 2 Helicopters** 1 0.2% 16 13						
HND Other Image: Constraint of the second seco						
HND Total 5 1.1% 0 2 Helicopters** 1 0.2% 16 13		5	1.1%		2	
Helicopters** 1 0.2% 16 13						
	HND Total	5	1.1%	0	2	
	Helicopters**	1	0.2%	16	13	
Overall Total 452 400/ 20 20	Overall Total	453	100%	30	39	

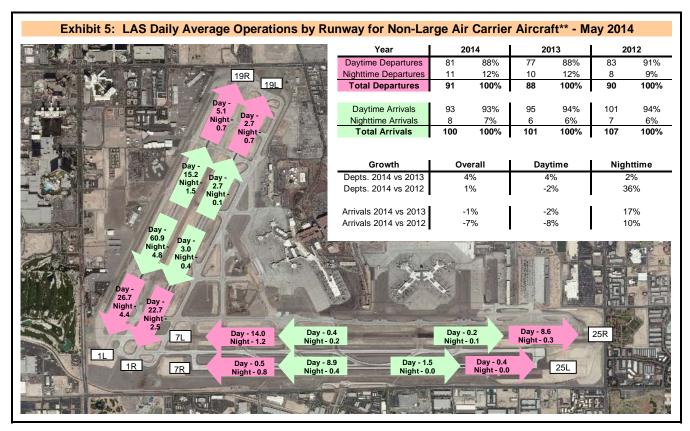
** Note that helicopter noise complaints are not tied to a specific facility since the operation cannot always be associated to a specific airport. Additionally, helicopter calls do nc include those associated with operations conducted by the Metropolitan Police Department or those associated with operations conducted at non-DOA facilities.



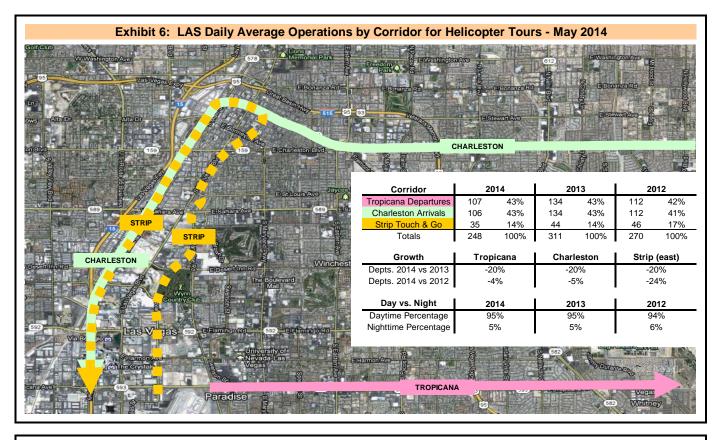
2014 Noise Complaint Report



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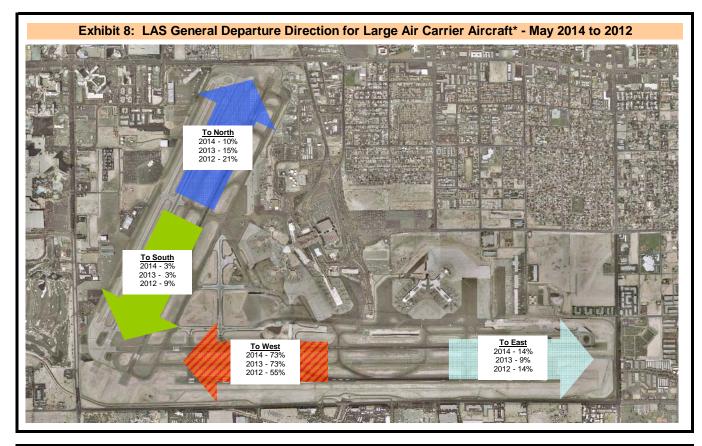


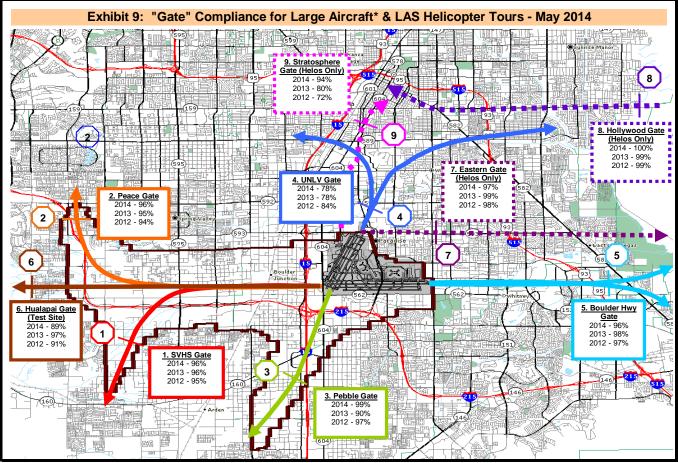
** Aircraft types: All aircraft with a maximum gross take of weight less than 75,000 pounds, excluding helicopters.



		Exhib	it 7: LAS	Aircraft A	rriva	al Fle	et N	/lix* ·	- May	y 201	4							
Operation	Daily Average in 2014	Percent of Overall Total	Daily Average in 2013	Daily Average in 2012	0	25	50	75	100	Fleet	Mix 150	175	200	225	250	275	300	325
A300s, A310s	0.90	0.1%	1.06	1.42														
A330s, A340s	2.97	0.4%	1.84	3.29	'n													
B747s	2.32	0.3%	2.32	2.48	ĭ													
B767s	3.06	0.4%	3.19	2.58	ň													
B777s	0.74	0.1%	0.87	0.03	ĩ													
DC10, L1011, MD11	1.45	0.2%	1.26	1.00	1													
Misc. (B707s, DC8s, etc.)	0.00	0.0%	0.00	0.00	ľ													
Heavy Jets (>300,000 lbs.)		1.6%	10.55	10.81														
A318s, A319s	29.42	4.1%	30.65	35.19	-	<u> </u>												
A320s, A321s	61.87	8.6%	58.81	53.00														
B717s	0.00	0.0%	0.00	0.00														
B727s	0.00	0.0%	0.00	0.06														
B737-100s, -200s	0.00	0.0%	0.06	0.00														
B737-300s to -900s	306.77	42.5%	296.94	293.81		i	<u>i</u>	i	i	i	i	i	i	i	i	i	<u> </u>	
B757s	26.32	3.6%	33.26	33.84		_	1	1				1	i					
BAC 111s, E170s, E190s	0.00	0.0%	2.16	2.58														
CRJ7s, CRJ9s	16.32	2.3%	10.97	15.71														
MD80s	26.48	3.7%	28.90	35.10														
MD90s	1.81	0.3%	4.55	2.97														
Misc. (Bae 146s, DC9s)	0.45	0.1%	0.16	0.13	ĩ													
Large Jets (>75,000 lbs.)	469.45	65.0%	466.45	472.39														
Medium Jets (>41,000	6.45	0.9%	6.94	9.03														
Small Jets (<41,000 lbs.)	64.48	8.9%	64.19	59.06														
Military Jets	0.29	0.0%	0.23	0.39														
Non-Jets & Unknowns	29.16	4.0%	29.74	38.94		\rightarrow												
Helicopter Tours	141.20	19.5%	177.30	157.77														
Overall Total*	722	100%	755	748														

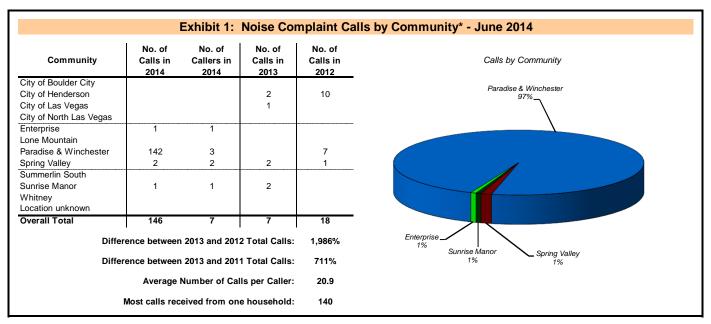
* Overall Total: Note that operation type and runway use counts are estimated by ITT Exelis AirScene.com Noise and Monitoring Operations (NOMS) system based on radar data. Due to limitations of radar data, information for aircraft weighing less than 75,000 lbs. is inexact.





* Aircraft types: All aircraft with a maximum gross take of weight of at least 75,000 pounds, including but not limited to, A306, A310, A311, A318, A319, A320, A330, A B707, B717, B727, B737, B747, B757, B767, B777, CRJ7, CRJ9, DC8, DC9, DC10, E170, E190, HA4T, L1011, MD80, MD90, MD10, MD11, VC10.

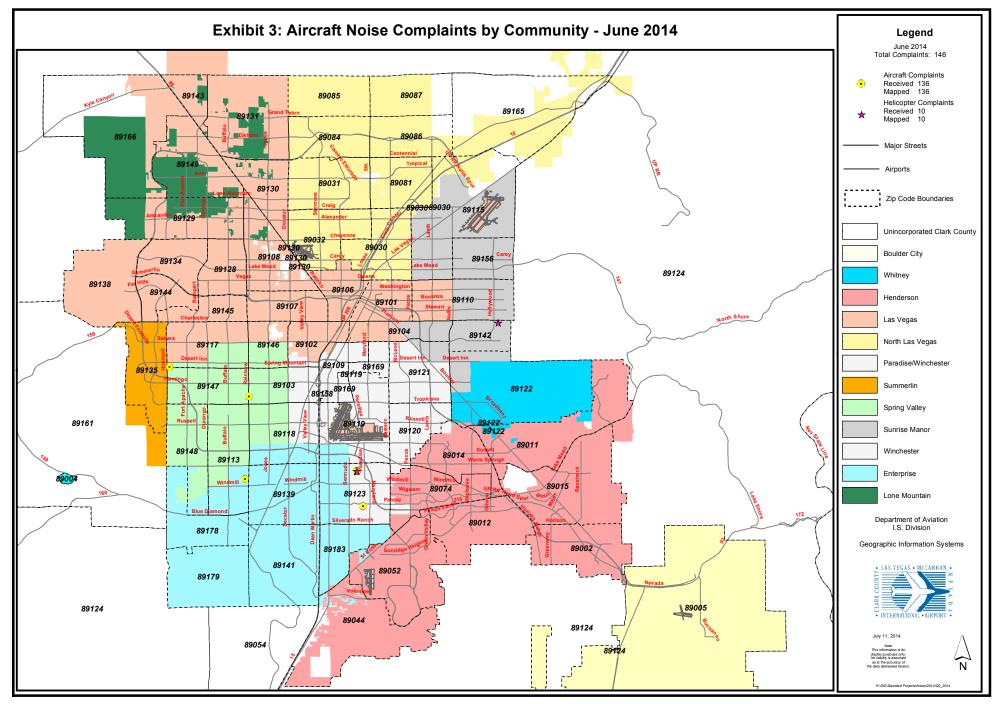
May 2014 Noise Complaint Report



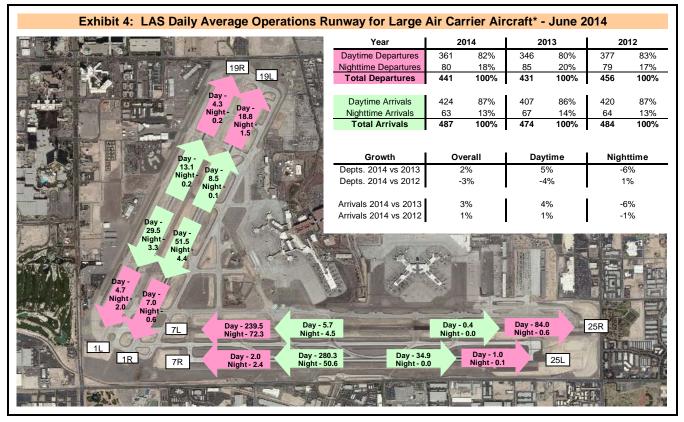
* See map on reverse side for community boundaries and location of known noise complaints.

Operation	No. of Calls in	Percent of Overall	No. of Calls in	No. of Calls in	Calls by Operation
operation	2014	Total	2013	2012	0 20 40 60 80 100 120
AS 01R/L Arrivals					
LAS 07R/L Arrivals					
LAS 19R/L Arrivals					
LAS 25R/L Arrivals				2	
LAS 01R/L Departures	1	0.7%	1	1	132 calls from one household
LAS 07R/L Departures				4	
LAS 19R/L Departures					
LAS 25R/L Departures	135	92.5%	2		7//////////////////////////////////////
LAS Run-ups	1			3	
LAS GA					
LAS Other					
LAS Total	136	93.2%	3	10	
VGT 07 Arrivals					
VGT 12R/L Arrivals					
VGT 25 Arrivals					
VGT 30R/L Arrivals					
VGT 07 Departures					
VGT 12R/L Departures					
VGT 25 Departures					
VGT 30R/L Departures					
VGT Run-ups					140 total calls from same household
VGT GA					
VGT Other					
VGT Total	0	0.0%	0	0	
HND 17R/L Arrivals					
HND 35R/L Arrivals					
HND 17R/L Departures					
HND 35R/L Departures					
HND Run-ups					
HND GA			1	1	
HND Other					
HND Total	0	0.0%	1	1	8 calls from one household
Helicopters**	10	6.8%	3	7	
Overall Total	146	100%	7	18	

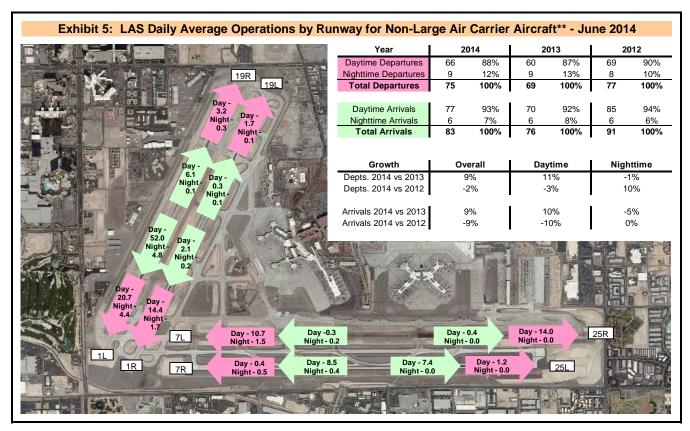
** Note that helicopter noise complaints are not tied to a specific facility since the operation cannot always be associated to a specific airport. Additionally, helicopter calls do not include those associated with operations conducted by the Metropolitan Police Department or those associated with operations conducted at non-DOA facilities.



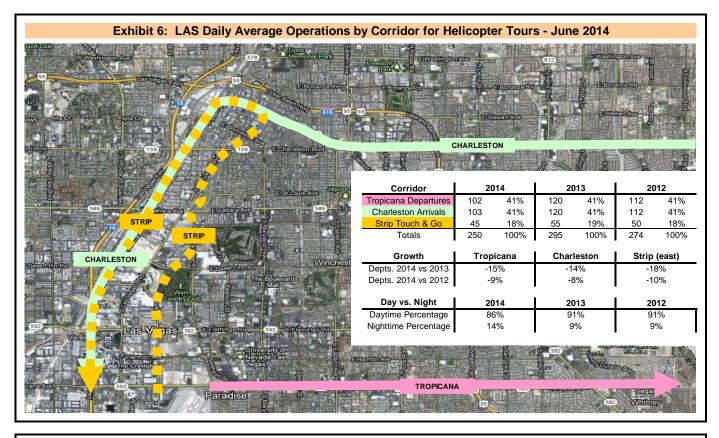
2014 Noise Complaint Report



* Aircraft types: All aircraft with a maximum gross take of weight of at least 75,000 pounds, including but not limited to, A306, A310, A311, A318, A319, A320, A330, A340 B707, B717, B727, B737, B747, B757, B767, B777, CRJ7, CRJ9, DC8, DC9, DC10, E170, E190, HA4T, L1011, MD80, MD90, MD10, MD11, VC10.

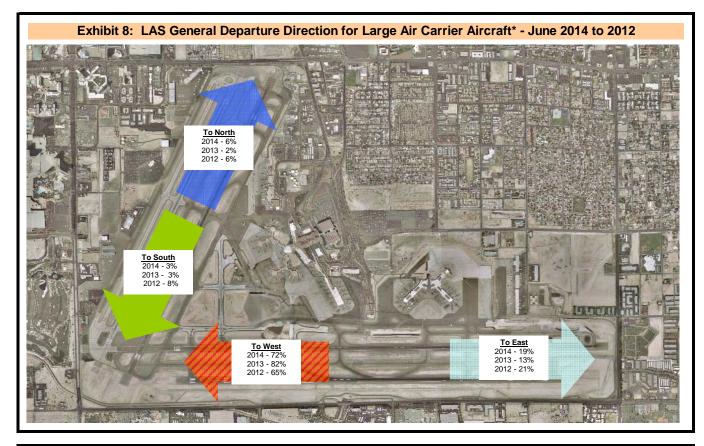


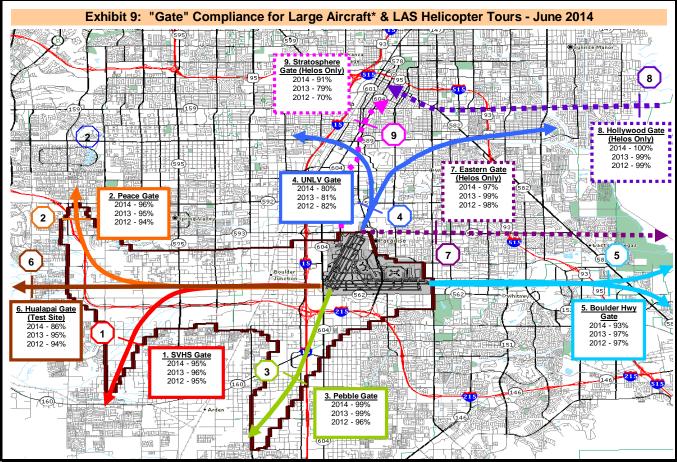
** Aircraft types: All aircraft with a maximum gross take of weight less than 75,000 pounds, excluding helicopters.



		Exhibi	t 7: LAS	Aircraft A	riva	al Fle	et M	lix* -	Jun	e 20 ⁻	14							
Operation	Daily Average in 2014	Percent of Overall Total	Daily Average in 2013	Daily Average in 2012	0	25	50	75	100	Fleet	Mix 150	175	200	225	250	275	300	325
A300s, A310s	0.80	0.1%	1.10	1.20			ł		1							1	ł	
A330s, A340s	3.20	0.4%	2.50	3.43	- h		1										1	
B747s	2.37	0.3%	2.27	2.33	ň													
B767s	2.43	0.3%	2.57	2.50	ň													
B777s	0.97	0.1%	0.80	0.07	ĭ													
DC10, L1011, MD11	1.63	0.2%	1.23	1.17	Í												1	
Misc. (B707s, DC8s, etc.)	0.00	0.0%	0.00	0.00	T												1	
Heavy Jets (>300,000 lbs.)	11.40	1.6%	10.47	10.70			1										1	
			•	•														
A318s, A319s	33.90	4.7%	35.40	37.63														
A320s, A321s	65.47	9.1%	57.10	52.40			-	٦!										
B717s	0.00	0.0%	0.00	0.00			1											
B727s	0.00	0.0%	0.07	0.03														
B737-100s, -200s	0.00	0.0%	0.00	0.03														
B737-300s to -900s	307.17	42.8%	297.57	296.60						•								
B757s	22.27	3.1%	31.53	32.13														
BAC 111s, E170s, E190s	0.07	0.0%	2.00	2.47	1													
CRJ7s, CRJ9s	14.17	2.0%	6.10	13.67														
MD80s	29.40	4.1%	31.87	37.27														
MD90s	2.97	0.4%	2.10	1.30														
Misc. (Bae 146s, DC9s)	0.23	0.0%	0.07	0.20														
Large Jets (>75,000 lbs.)	475.63	66.3%	463.80	473.73														
Medium Jets (>41,000	5.33	0.7%	5.43	6.60														
Small Jets (<41,000 lbs.)	50.97	7.1%	46.77	51.87														
Military Jets	0.20	0.0%	0.23	0.37														
Non-Jets & Unknowns	26.50	3.7%	23.67	32.33		\rightarrow												
Helicopter Tours	147.90	20.6%	175.00	162.00														
Overall Total*	718	100%	725	738														

* Overall Total: Note that operation type and runway use counts are estimated by ITT Exelis AirScene.com Noise and Monitoring Operations (NOMS) system based on radar data. Due to limitations of radar data, information for aircraft weighing less than 75,000 lbs. is inexact.





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June 2014 Noise Complaint Report