

Noise

Mitigation Monitoring Report



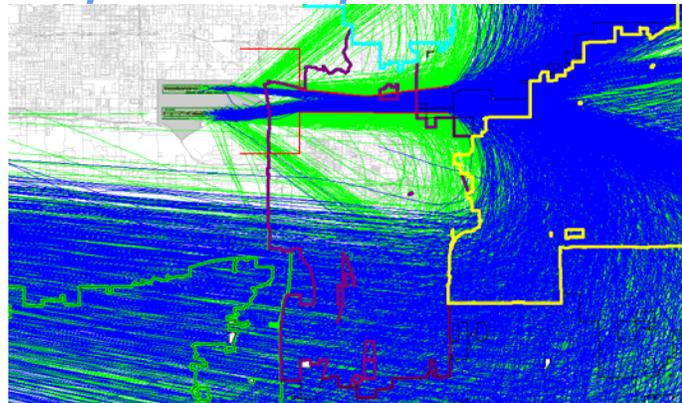
December 2007

**Most Compliant
Airline:**

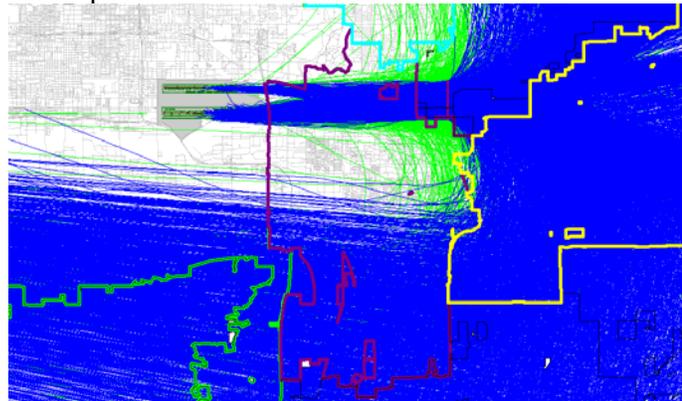
Aero Mexico

Learn about noise mitigation procedures over Tempe on p.7

Departure Compliance



Tempe Corridor: **45.2%** with the 4-DME SID



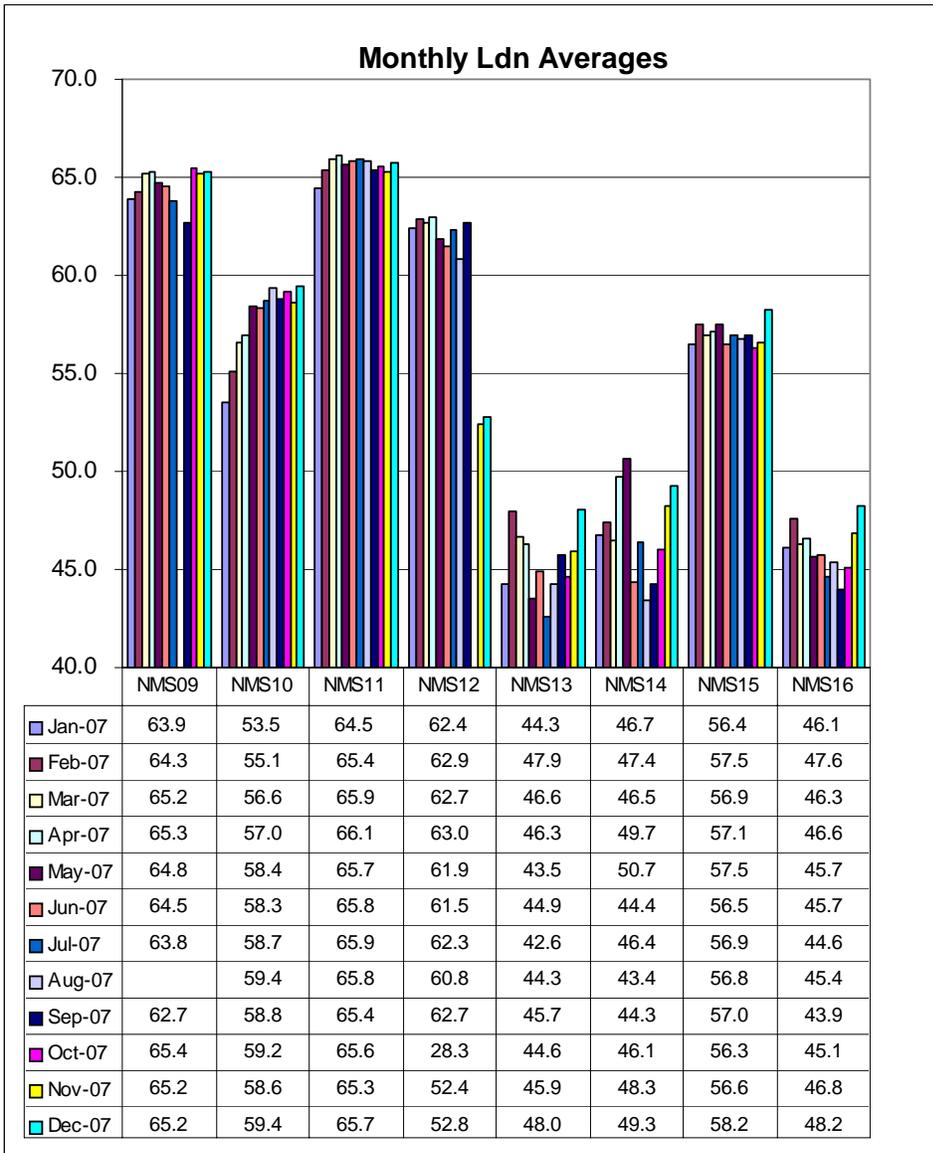
Phoenix Gate: **95.4%** with the 4-DME SID



Tempe Aviation Commission

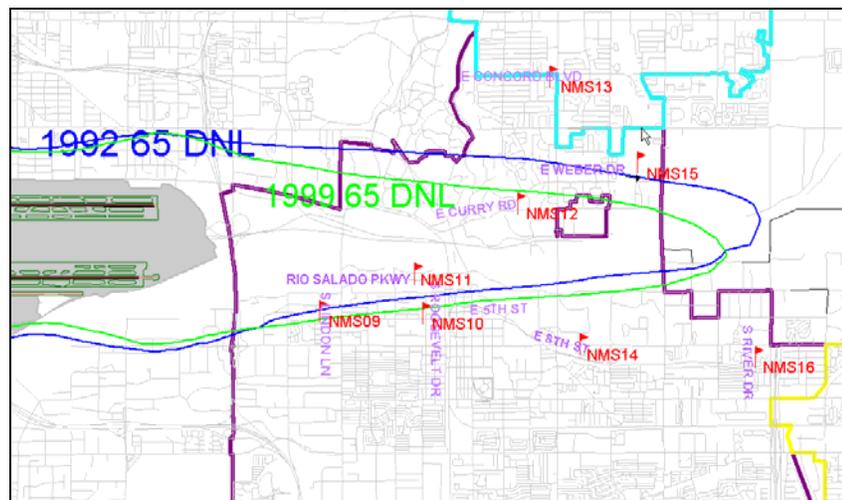
This report is assembled for the Tempe Aviation Commission (TAVCO) to monitor the monthly compliance of operations at Phoenix Sky Harbor International Airport with certain noise mitigation flight procedures over the City of Tempe. TAVCO consists of 13 Tempe residents appointed by the Tempe Mayor with approval of the City Council to assist and advise on aviation noise and other issues relating to the Phoenix Sky Harbor International Airport, which is owned and operated by the City of Phoenix. The City of Tempe is located directly east of the airport's 3 parallel runways.

Aircraft Noise Energy Levels:



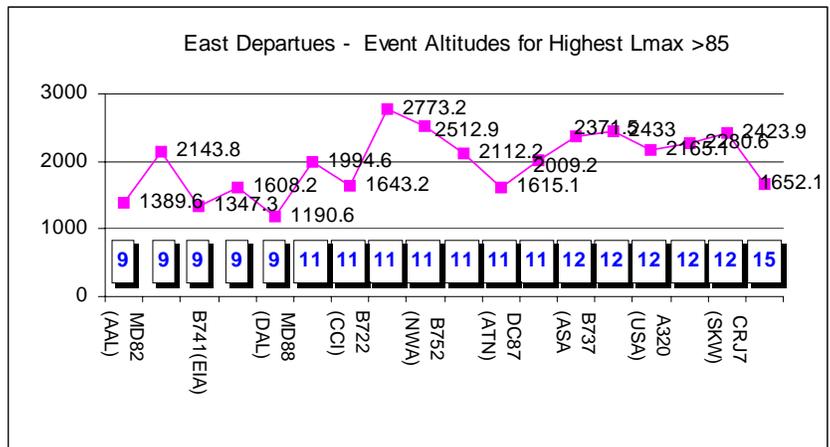
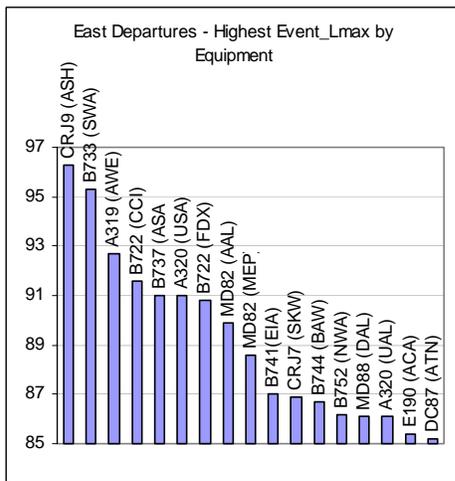
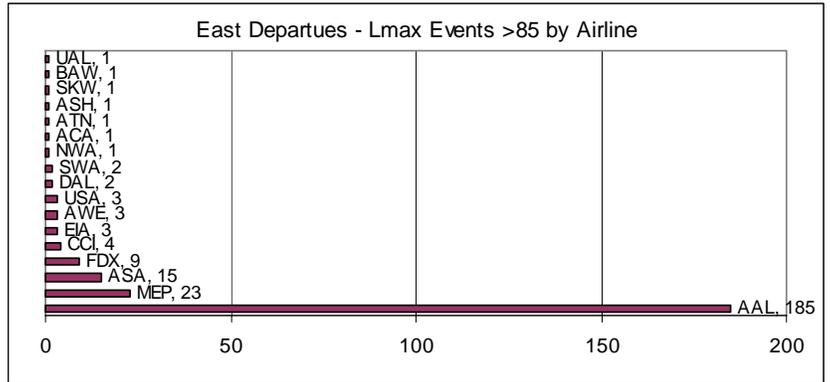
LdnA or day-night level (DNL), is a descriptor of noise level based on energy equivalent noise level (Leq) over the whole day with a penalty of 10 dB(A) for night time noise (22.00-7.00 hrs). DNL is used to forecast noise exposure contour lines around airports.

PHX Noise Monitor Sites and FAR Part 150 1992 and 1999 65 DNL contour lines in Tempe.



Peak Noise Levels:

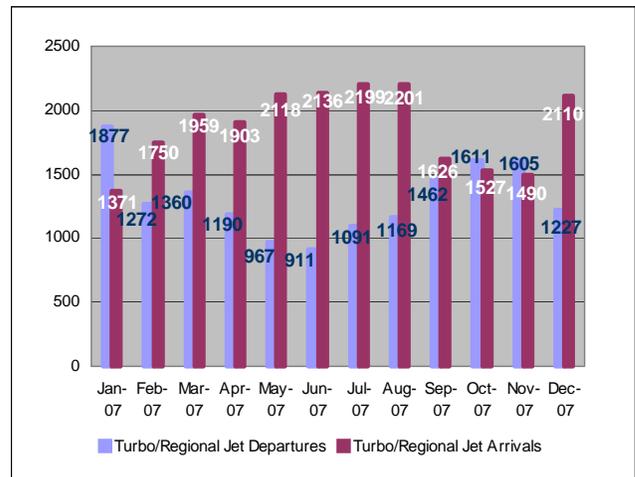
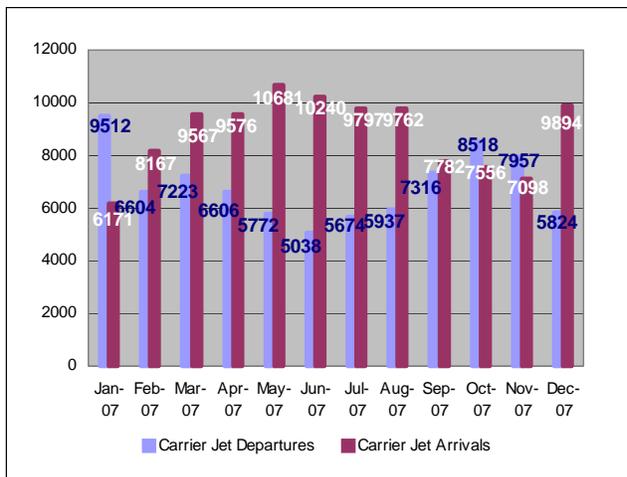
Lmax is the maximum sound level (dB) registered during a particular noise event. One aircraft departure, arrival or overflight typically results in noise events being registered at more than one NMS. The depicted maximum noise levels were registered at NMS 9, (Cook College and Theological School), NMS 11 (Tempe Beach Park), NMS 12 (Papago Park) and NMS 15 (E. Weber Drive).



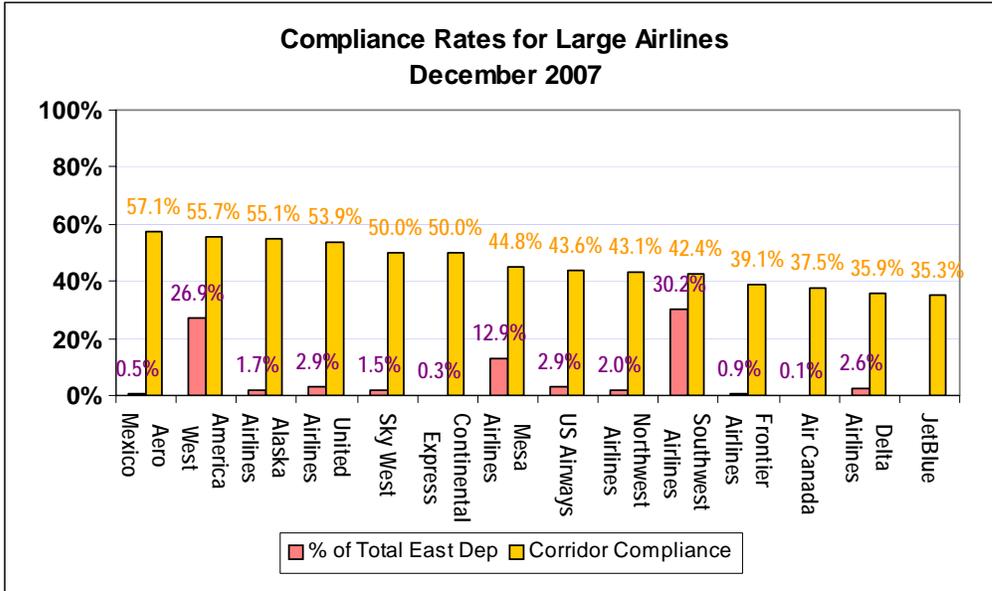
BAW	British Airways	ACA	Air Canada	CCI	Capital Cargo International
ATN	Air Transport	EIA	Evergreen	MEP	Midwest Express

See other airline codes below on p. 5.

East Operations Summary:

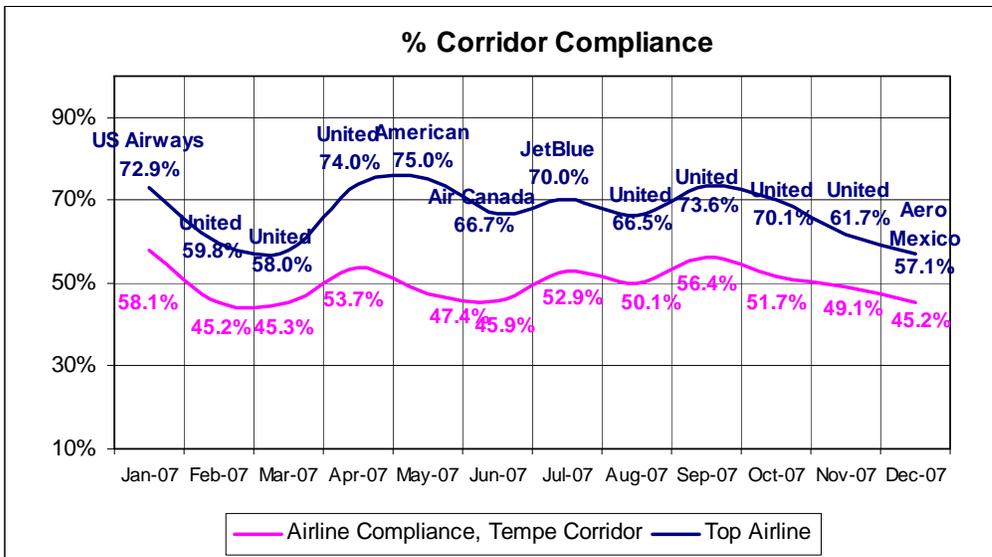
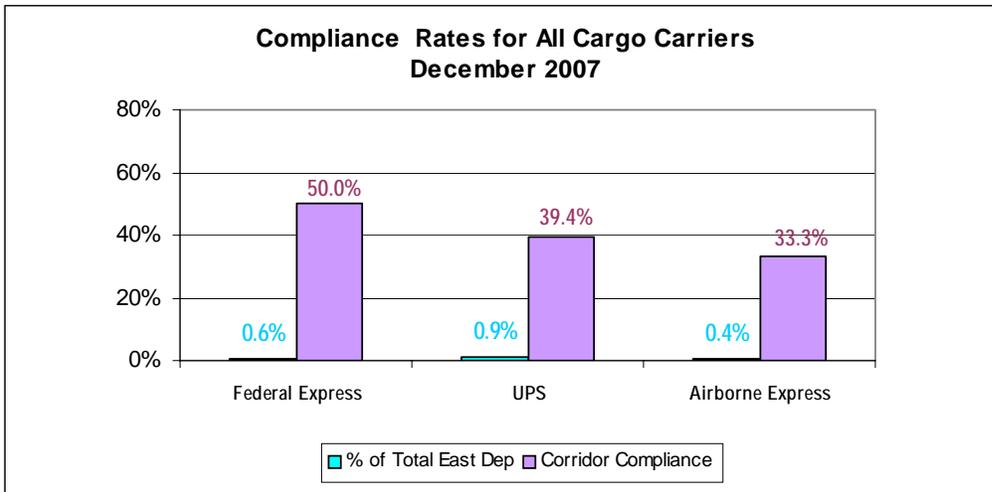


Corridor Compliance with 4-DME Standard Instrument Departure procedure:

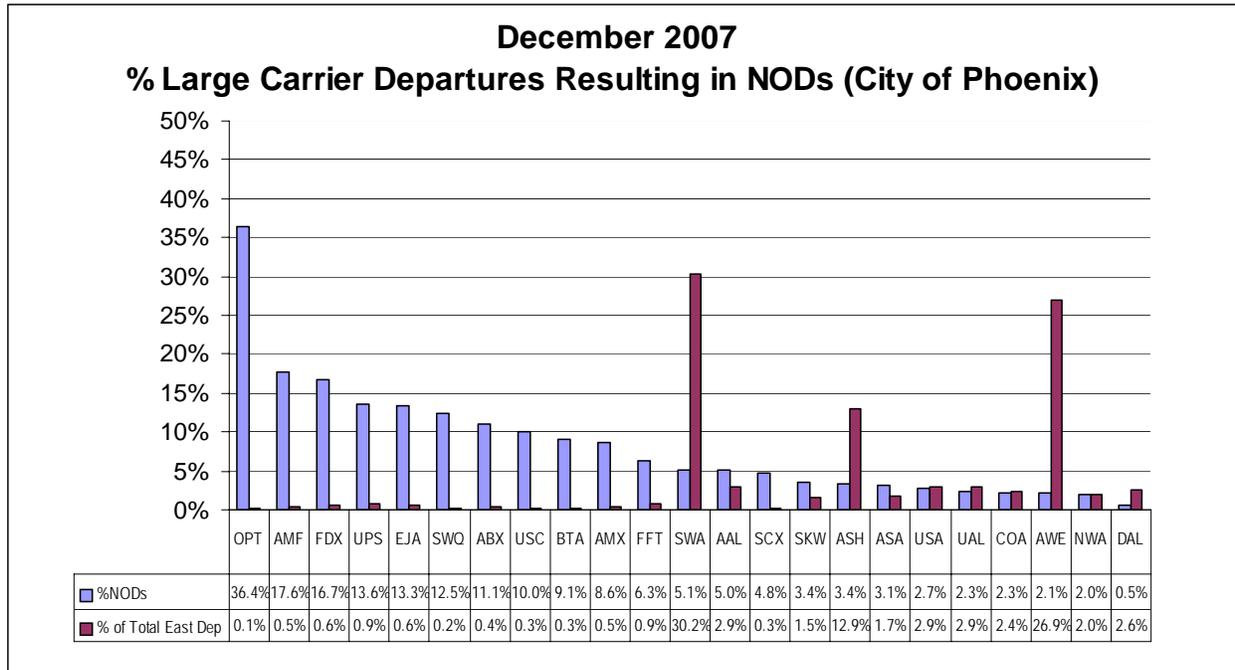


4-DME deviations during the following hours has been identified by PHX as being weather impacted, and has not been included:

- 12/1/07 01:03-01:38
- 12/1/07 3:01
- 12/3/07 10:46
- 12/3/07 11:14-11:49
- 12/3/07 12:09-13:51
- 12/4/07 10:46-11:57
- 12/7/07 07:26-07:46
- 12/9/07 10:50-11:49
- 12/10/07 11:01-12:50
- 12/10/07 20:46
- 12/10/07 21:16-23:56
- 12/11/07 12:15
- 12/11/07 14:20-14:29
- 12/11/07 20:46-21:48
- 12/13/07 07:09-07:18
- 12/13/07 10:01-10:51
- 12/18/07 08:04-08:16
- 12/18/07 09:21-09:36
- 12/25/07 15:50-20:39
- 12/26/07 2:17
- 12/28/07 12:59-13:02
- 12/29/07 09:28-09:51



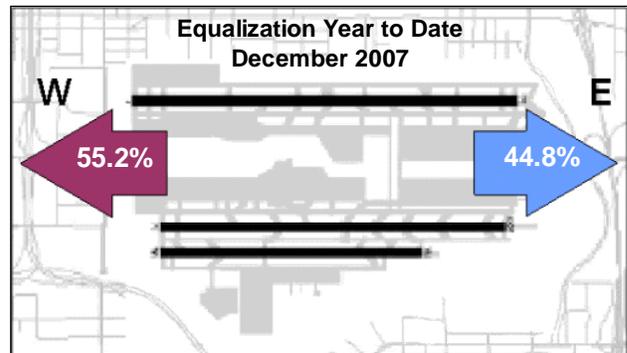
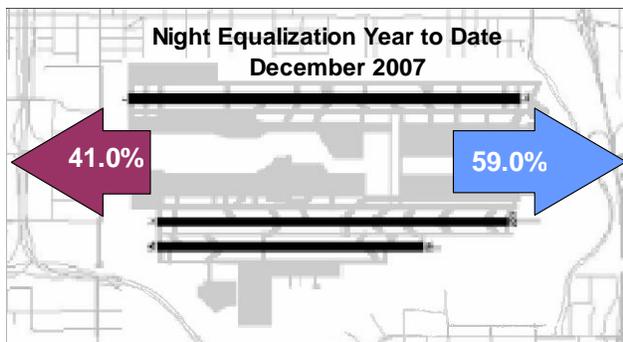
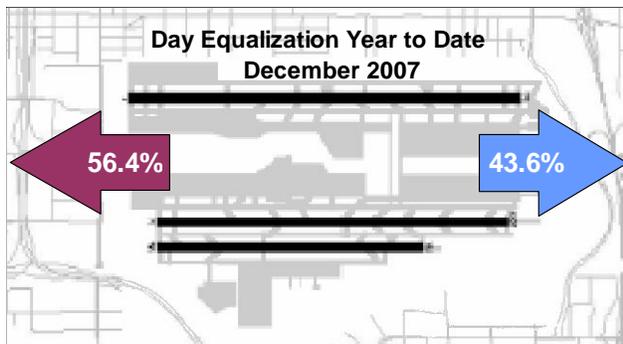
Notices of Deviation:



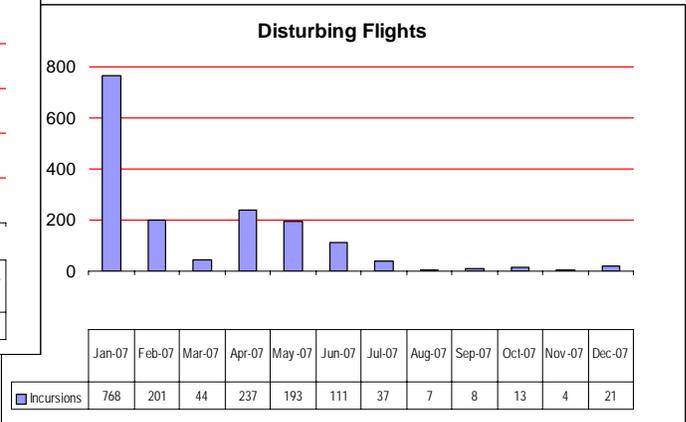
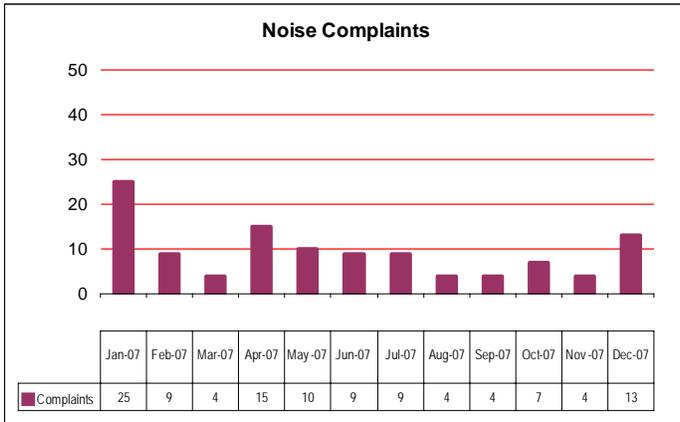
Includes the following airlines with more than 10 departures to the east:

OPT	Flight Options	EJA	Executive Jet Aviation	BTA	Continental Express	AAL	American	ASA	Alaska	AWE	America West
AMF	Ameriflight	SWQ	Swift Air	AMX	Aero Mexico	SCX	Citation Chares	USA	US Airways	NWA	Northwest
FDX	Federal Express	ABX	Airborne Express	FFT	Frontier	SKW	Sky West	UAL	United	DAL	Delta
UPS	UPS	USC	US Check	SWA	Southwest	ASH	Mesa	COA	Continental		

East/West Departure Split:



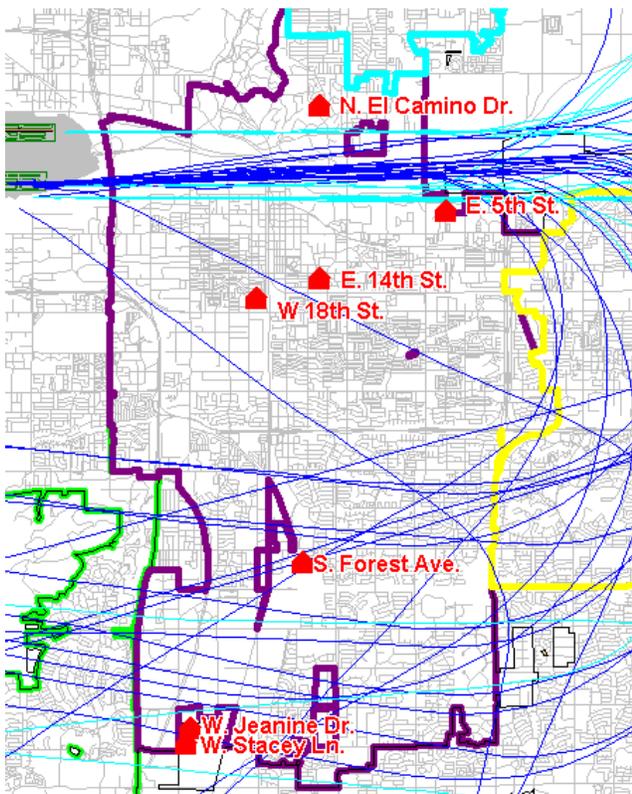
Received Complaints:



Incursions = Over flights identified to individual aircraft.

7 Tempe residents made complaints to the City of Tempe in December 2007 reporting:

- Southwest Airlines departure deviation towards the southeast. A missed approach resulting in a go around over Tempe. Same maneuver by Southwest was reported by the same resident last month.
- Loud early morning departures over north Tempe.
- Increase in aircraft operations south of the riverbed east of ASU.
- Several low flying helicopters transitioning through the southwest corner of Tempe close to Priest, between Ray and Warner roads.



PHX carrier departures = —
 PHX carrier arrivals = —

IGA on Noise Mitigation Flight Procedures:

In 1994 the City of Phoenix and the City of Tempe agreed to continue noise mitigation flight procedures already in use over Tempe from the Phoenix Sky Harbor International Airport. The IGA was made after City of Tempe had challenged the plans for the construction of a third runway because of inadequate assessment of the environmental impacts, and the legal challenge was mediated and settled. The City of Phoenix agreed to submit a F.A.R. Part 150 Noise Compatibility study for the Phoenix Sky Harbor International Airport where the following agreed upon measures were included:

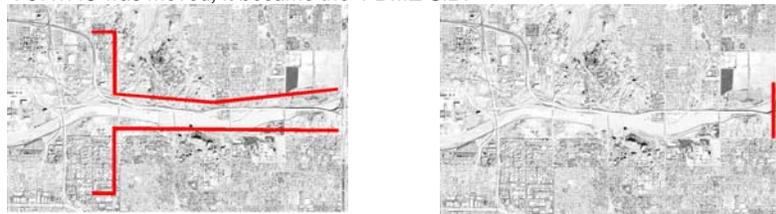
1. Have jet and large turboprop aircraft depart to the east over the Salt River.
2. On an annual basis equalize the noise burden from jet and large turboprop aircraft departures between east and west during daytime and nighttime hours.



3. The agreement also included a new procedure for mitigation noise from arriving jets and large turboprop aircraft to the proposed third runway (25L).



According to the 1993 Environmental Impact Statement for Phoenix Sky Harbor International Airport master plan improvements that included construction of the third runway, the 1-DME Standard Instrument Departure Procedure was to be continued for noise mitigation purposes. After the VORTAC was moved, it became the 4-DME SID.

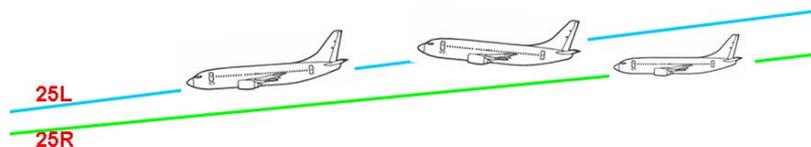


The Tempe Aviation Commission used the SID to come up with a "Corridor" to measure airline compliance with the 4-DME SID. The airport uses a 5,500 feet long imaginary line, "Gate", running north south at 4-DME or approximately at Price Road. Turns by carrier jets north or south away from the Salt riverbed before reaching this line results in a notice of deviation from the airport to the responsible airline.



On March 27, 2002 the FAA suspended formalization of a "side step" procedure that had been in use after the third runway opened in October 2000. Presently the FAA is clearing jets and large turboprop aircraft for straight-in approaches to Runway 25L from the east. 4 contributing factors led to negative effects on flight safety and the decision to suspend the side step procedure:

1. The destabilizing effect on the approach.
2. The inability to intercept the glide slope for the third runway.



Because the threshold for Runway 25L is located farther west than the threshold for Runway 25R, the glide slope is higher up than the glide slope to Runway 25R. Using the Runway 25R glide slope a pilot would need to apply power and both turn and climb close to landing to intercept the glide slope for Runway 25L when executing the side step maneuver when abeam Sun Devil Stadium.

3. Computer reprogramming going on in the cockpit.
4. Loss of visual reference, particularly at night (Sun Devil Stadium not always being lit).