Parameters

- Performance Data Analysis and Reporting System (PDARS) used for analysis
- Traffic for 2004 not available to system, so analysis started in 2005
- Analyzed only arrivals from the east landing straight-in
- Arrivals that originated at nearby airports such as ONT and PSP have been filtered out due to level flight over La Habra Heights
FAA Flight Track Comparison

2005 (One Week)
[2004 traffic data not available]
1/10 to 1/16, 2005

2011 (One Week)
1/10 to 1/16, 2011

La Habra Hgts

2005 (One Week)
1/10 to 1/16, 2005

2011 (One Week)
1/10 to 1/16, 2011

La Habra Hgts
PDARS Analysis

- The following slides show a single day of traffic from each of the weeks analyzed.
- The slides depict a side view of traffic through a column of airspace over La Habra Heights.
436 Arrivals established on final over La Habra
175 to RWY 24L/R
261 to RWY 25L/R
LAX Arrivals 7/14/2005

459 Arrivals established on final over La Habra 160 to RWY 24L/R 299 to RWY 25L/R
407 Arrivals established on final over La Habra
132 to RWY 24L/R
275 to RWY 25L/R

Federal Aviation Administration
LAX Arrivals near La Habra Heights
September 14, 2011

LAX Arrivals 1/14/2008

Altitude (100s ft) | New... | Clear | Default
0 | 40 | | 
40 | 50 | | 
50 | 60 | | 
60 | 70 | | 
70 | 80 | | 
80 | 999 | | 

8000 MSL
6000 MSL

LAX
La Habra Hts
LAX Arrivals  7/14/2008

413 Arrivals established on final over La Habra
136 to RWY 24L/R
277 to RWY 25L/R
LAX Arrivals 1/14/2009

368 Arrivals established on final over La Habra
113 to RWY 24L/R
255 to RWY 25L/R
398 Arrivals established on final over La Habra
145 to RWY 24L/R
253 to RWY 25L/R
413 Arrivals established on final over La Habra
149 to RWY 24L/R
264 to RWY 25L/R
459 Arrivals established on final over La Habra
136 to RWY 24L/R
323 to RWY 25L/R
PDARS Analysis

• The following slides depict an entire week of traffic displayed on a background of satellite imagery.
• Only arrivals landing straight-in from the east are included.
• Arrivals that originated at nearby airports such as ONT and PSP have been filtered out due to level flight over La Habra Heights.
Jan 10-16, 2005

6008 total LAX arrivals

2480* straight-in arrivals over La Habra Heights

*ONT, PSP & other local departures filtered out due to level flight over La Habra Heights

4.5NM

La Habra Heights
July 10-16, 2005

6451 total LAX arrivals

3213* straight-in arrivals over La Habra Heights

*ONT, PSP & other local departures filtered out due to level flight over La Habra Heights
Jan 10-16, 2008

5999 total LAX arrivals

2777* straight-in arrivals over La Habra Heights

*ONT, PSP & other local departures filtered out due to level flight over La Habra Heights

4.5NM
July 10-16, 2008

6346 total LAX arrivals
2971* straight-in arrivals over La Habra Heights

*ONT, PSP & other local departures filtered out due to level flight over La Habra Heights

4.5NM

La Habra Heights
Jan 10-16, 2009

5047 total LAX arrivals
2469* straight-in arrivals over La Habra Heights

*ONT, PSP & other local departures filtered out due to level flight over La Habra Heights

4.5NM

La Habra Heights
July 10-16, 2009

5638 total LAX arrivals

2794* straight-in arrivals over La Habra Heights

*ONT, PSP & other local departures filtered out due to level flight over La Habra Heights

4.5NM

La Habra Heights
Jan 10-16, 2011

5279 total LAX arrivals
2623* straight-in arrivals over La Habra Heights

*ONT, PSP & other local departures filtered out due to level flight over La Habra Heights

4.5NM

La Habra Heights
July 10-16, 2011

6297 total LAX arrivals
3222* straight-in arrivals over La Habra Heights

*ONT, PSP & other local departures filtered out due to level flight over La Habra Heights

La Habra Heights

LAX

4.5NM

Legend:
- Altitude (100s ft)
- Color
PDARS Analysis

• The following slides show a side view of an entire week of traffic for the weeks analyzed.
• Arrivals that originated at nearby airports such as ONT and PSP have been filtered out due to level flight over La Habra Heights.
Jan 10-16, 2005

2480* flight tracks

La Habra Heights

*ONT, PSP & other local departures filtered out due to level flight over La Habra Heights
July 10-16, 2005

3213* flight tracks

*ONT, PSP & other local departures filtered out due to level flight over La Habra Heights
Jan 10-16, 2008

2777* flight tracks

*ONT, PSP & other local departures filtered out due to level flight over La Habra Heights
July 10-16, 2008

2971* flight tracks

*ONT, PSP & other local departures filtered out due to level flight over La Habra Heights
Jan 10-16, 2009

2469* flight tracks

*ONT, PSP & other local departures filtered out due to level flight over La Habra Heights
July 10-16, 2009

2794* flight tracks

*ONT, PSP & other local departures filtered out due to level flight over La Habra Heights
Jan 10-16, 2011

2623* flight tracks

*ONT, PSP & other local departures filtered out due to level flight over La Habra Heights

LAX La Habra Heights

5000 MSL
6000 MSL
7000 MSL
10,000 MSL

4.5NM
July 10-16, 2011

3222* flight tracks

ONT, PSP & other local departures filtered out due to level flight over La Habra Heights.
Arrival Altitude Comparison
Arrivals from nearby airports (ONT, PSP) not included

[Bar chart showing arrival altitude comparison between 1/14/2005 and 1/14/2011, with altitude ranges from <6000 to >8000 feet and number of aircraft counts for each range.]
Arrival Altitude Comparison

- One day (January 14) from 2005 and 2011
- Average altitude in 2005 was 7400 ft MSL
- Average altitude in 2011 was 6600 ft MSL
- Arrivals originating from nearby airports such as ONT and PSP are not included due to level flight over La Habra Heights
Conclusions

• Currently most LAX arrivals from the east are on a profile descent (SEAVU2 or RIIVR2 Arrival) that allows for a transition to RWY 24/25 ILS approaches

• Standard operating procedure for arrivals is to be cleared for ILS approach no later than 35 nautical miles (NM) out from runway
  – The aircraft then meet the “at or above” descent altitudes until capturing the glide slope

• La Habra Heights is approx. 20 NM from runway

• Aircraft may have variable descent rates depending on pilot technique and the onboard navigation capabilities of each aircraft
Questions?