

Enforcement

Occupancy Count

- Field observation on Sept 7th
- Vehicle counts at Central Toll Zone – 8 to 9 am

- Total Vehicles in EL 1153
- Valid Toll Reads 379
- Observed Carpools 639
- Estimated Violations 135

Challenges With Occupancy Detection

- Speed of Vehicles
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- Tinted Windows
- Baby in backseat
- SUV/Vans/Third Row Seats
- Accuracy of Tag Reads

Evaluation of Readers

- 75 Vehicle Test Runs
- 95% accurate reads
- Reasons for Mis-Reads:
 - “Un-Framed” Tag Reads
 - Improper Mounting of Fastrak
 - Weak Fastrak Battery

Automated Enforcement Strategy

- Installation of camera system for license plate capture
- Observers in field determine occupancy for any vehicles without a valid toll read
- Violators matched to images of license plate

Evaluation of Occupancy Detection

- Options Evaluated
 - Single observer working independently – monitoring enforcement beacon, determining occupancy
 - Observers working in two person teams
 - Observers only counting SOVs

Evaluation of Occupancy Detection

- Next Steps
 - Move forward with system to capture all license plates when no tag is read
 - Link SOV counts to license plates for recapture of lost toll revenue

Next Steps

- Additional field surveys to determine areas with high buffer zone violations
- Coordinate with CHP for “high presence” enforcement day in late Sept
- Continued discussions with Caltrans and CHP regarding delineators and or rumble strips in buffer zone