
From: Hamayasu, Toru
To: 'Karl Kim'
Sent: 11/30/2006 11:57:33 AM
Subject: FW: Estimated breakdown of vehicle types on Managed Lanes

Karl,

Below is the info you requested on the break down of the volume on the Managed Lane.

One clarification on the capacity calculation based on our conversation this morning; 2,200 vph was used as the general freeway lane capacity. Approx. 80% of that (1,760) was used for the managed lane volume to maintain 50 mph speed. This is reflected in the Table 3-12. So LOS of C and D are at v/c of 0.80 which translates to about 50 mph on a freeway lane.

Toru

From: Wellander, Chris A. [mailto:WellanderC@pbworld.com]
Sent: Thursday, November 30, 2006 11:32 AM
To: Hamayasu, Toru
Cc: Scheibe, Mark; Fujioka, Heather
Subject: Estimated breakdown of vehicle types on Managed Lanes

Toru

Here's an estimate of the breakdown of vehicle types using the Managed Lanes under each of the two options. This is for AM peak hour/peak direction. Because the model doesn't give us this information directly, we need to use factors from the toll model trip tables to estimate it. It's not exact, but with some interpretation provides a reasonable estimate I think. Let me know if you have any further questions on this.

-Chris

**Managed Lane Year 2030 AM Peak Hour - Peak
Direction Estimated Volumes by Vehicle Class**

| | Two-Direction | Reversible |
|-----------------------|----------------------|-------------------|
| Total Vehicles | 1769 | 3457 |
| 1-occ | 1254 | 2441 |
| 2-occ | 422 | 495 |
| 3+-occ | - | 429 |
| Buses | 93 | 93 |

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