

**Table 1  
Diagnostic Norms for Urban, 4-Lane Freeways and  
Observed C-470 (Mainline) Performance**

| Accident Description     | C-470 Observed % of Total Accidents | Statewide Avg. for Similar Hwys. |
|--------------------------|-------------------------------------|----------------------------------|
| PDO                      | 67.76%                              | 68.19%                           |
| INJ                      | 31.29%                              | 31.24%                           |
| FAT                      | 0.94%                               | 0.58%                            |
| Single Vehicle Accidents | 28.24%                              | 30.19%                           |
| Two Vehicle Accidents    | 56.47%                              | 54.65%                           |
| Three + Veh Accidents    | 15.29%                              | 15.02%                           |
| Unknown Number of Veh    | 0.00%                               | 0.14%                            |
| On Road                  | 72.82%                              | 68.76%                           |
| Off Road Left            | 12.35%                              | 14.50%                           |
| Off Road Right           | 12.94%                              | 14.35%                           |
| Off Road at Tee          | 0.00%                               | 0.02%                            |
| Off Road in Median       | 1.76%                               | 0.56%                            |
| Unknown Road Location    | 0.12%                               | 1.81%                            |
| Overturning              | 5.41%                               | 5.76%                            |
| Other Non Collision      | 4.59%                               | 2.46%                            |
| School Age Pedestrians   | 0.00%                               | 0.01%                            |
| All Other Pedestrians    | 0.00%                               | 0.26%                            |
| Broadside                | 0.12%                               | 1.07%                            |
| Head On                  | 1.29%                               | 0.69%                            |
| Rear End                 | 48.71%                              | 45.53%                           |
| Sideswipe, Same Direct.  | 11.65%                              | 13.15%                           |
| Sideswipe, Oppos. Direct | 0.47%                               | 0.28%                            |
| Approach Turn            | 0.35%                               | 1.09%                            |
| Overtaking Turn          | 0.24%                               | 0.25%                            |
| Parked Motor Car         | 1.41%                               | 1.59%                            |
| Railway Vehicle          | 0.00%                               | 0.00%                            |
| Bicycle                  | 0.00%                               | 0.05%                            |
| Motorized Bicycle        | 0.00%                               | 0.01%                            |
| Domestic Animal          | 0.12%                               | 0.03%                            |
| Wild Animal              | 1.53%                               | 1.79%                            |
| Light or Utility Pole    | 0.47%                               | 1.21%                            |
| Traffic Signal Pole      | 0.00%                               | 0.03%                            |
| Sign                     | 1.06%                               | 1.10%                            |
| Bridge Rail              | 0.82%                               | 0.83%                            |
| Guard Rail               | 4.35%                               | 5.43%                            |
| Median Barrier           | 1.76%                               | 7.88%                            |
| Bridge Abutment          | 0.00%                               | 0.22%                            |
| Column or Pier           | 0.00%                               | 0.03%                            |
| Culvert or Headwall      | 0.00%                               | 0.12%                            |
| Embankment               | 1.65%                               | 1.01%                            |
| Curb                     | 0.12%                               | 0.42%                            |

| Accident Description (continued) | C-470 Observed % of Total Accidents | Statewide Avg. for Similar Hwys. |
|----------------------------------|-------------------------------------|----------------------------------|
| Delineator Post                  | 4.71%                               | 1.59%                            |
| Fence                            | 2.94%                               | 1.13%                            |
| Tree                             | 0.24%                               | 0.14%                            |
| Large Boulder                    | 0.00%                               | 0.02%                            |
| Rocks in Roadway                 | 0.00%                               | 0.02%                            |
| Barricade                        | 0.00%                               | 0.31%                            |
| Wall or Building                 | 0.24%                               | 0.15%                            |
| Crash Cushion                    | 0.00%                               | 0.32%                            |
| Mailbox                          | 0.00%                               | 0.02%                            |
| Other Fixed Object               | 0.35%                               | 0.22%                            |
| Involving Other Object           | 5.18%                               | 2.12%                            |
| Road Maint. Equip.               | 0.12%                               | 0.10%                            |
| Unknown Acc. Type                | 0.12%                               | 1.57%                            |
| Total Fixed Objects              | 18.71%                              | 22.17%                           |
| Total Other Objects              | 5.29%                               | 2.24%                            |
| Daylight                         | 54.35%                              | 63.67%                           |
| Dawn or Dusk                     | 3.29%                               | 4.63%                            |
| Dark - Lighted                   | 6.59%                               | 13.36%                           |
| Dark - Unlighted                 | 13.41%                              | 12.55%                           |
| Unknown Lighting                 | 22.35%                              | 5.78%                            |
| No Adverse Weather               | 67.06%                              | 76.34%                           |
| Rain                             | 3.88%                               | 5.25%                            |
| Snow, Sleet, Hail                | 6.47%                               | 11.72%                           |
| Fog                              | 0.12%                               | 0.30%                            |
| Dust                             | 0.00%                               | 0.01%                            |
| Wind                             | 0.12%                               | 0.54%                            |
| Unknown Weather                  | 22.35%                              | 5.85%                            |
| Dry Road                         | 64.35%                              | 71.48%                           |
| Wet Road                         | 6.59%                               | 8.83%                            |
| Muddy Road                       | 0.00%                               | 0.08%                            |
| Snowy Road                       | 2.00%                               | 3.05%                            |
| Icy Road                         | 2.94%                               | 7.88%                            |
| Slushy Road                      | 0.94%                               | 1.29%                            |
| Foreign Material Road            | 0.00%                               | 0.12%                            |
| With Road Treatment              | 0.00%                               | 0.09%                            |
| Dry, Icy Rd. Trtmnt.             | 0.24%                               | 0.17%                            |
| Wet, Icy Rd. Trtmnt.             | 0.24%                               | 0.05%                            |
| Snowy, Icy Rd Trtmnt             | 0.12%                               | 0.08%                            |
| Icy, Icy Rd Trtmnt               | 0.12%                               | 0.20%                            |
| Slushy, Icy Rd Trtmnt            | 0.00%                               | 0.06%                            |
| Unknown Condition                | 22.47%                              | 6.60%                            |
| <b>Total Accidents:</b>          | <b>850</b>                          | <b>19,886</b>                    |