

# ASPHALT OVERLAYS FOR HIGHWAY AND STREET REHABILITATION

ASPHALT INSTITUTE

MANUAL SERIES NO. 17 (MS-17)  
JUNE 1983 EDITION

TABLE III-2 PERCENTAGE OF TOTAL TRUCK TRAFFIC IN  
DESIGN LANE

| Number of<br>Traffic Lanes<br>(Two Directions) | Percentage of<br>Trucks in<br>Design Lane |
|------------------------------------------------|-------------------------------------------|
| 2                                              | 50                                        |
| 4                                              | 45 (35-48)*                               |
| 6 or more                                      | 40 (25-48)*                               |

\* Probable range.

TABLE III-3 GROWTH FACTOR\*

| Design<br>Period,<br>Years (n) | Annual Growth Rate, Percent (g) |       |       |       |       |       |       |       |
|--------------------------------|---------------------------------|-------|-------|-------|-------|-------|-------|-------|
|                                | No<br>Growth                    | 2     | 4     | 5     | 6     | 7     | 8     | 10    |
| 1                              | 1.0                             | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   |
| 2                              | 2.02                            | 2.04  | 2.08  | 2.09  | 2.09  | 2.07  | 2.06  | 2.10  |
| 3                              | 3.06                            | 3.12  | 3.18  | 3.19  | 3.18  | 3.21  | 3.25  | 3.31  |
| 4                              | 4.12                            | 4.25  | 4.31  | 4.37  | 4.44  | 4.51  | 4.61  | 4.64  |
| 5                              | 5.20                            | 5.42  | 5.53  | 5.64  | 5.75  | 5.87  | 6.11  | 6.11  |
| 6                              | 6.31                            | 6.63  | 6.80  | 6.98  | 7.15  | 7.34  | 7.73  | 7.73  |
| 7                              | 7.43                            | 7.90  | 8.14  | 8.39  | 8.65  | 8.92  | 9.48  | 9.48  |
| 8                              | 8.58                            | 9.21  | 9.55  | 9.89  | 10.25 | 10.65 | 11.44 | 11.44 |
| 9                              | 9.75                            | 10.58 | 11.03 | 11.49 | 11.98 | 12.49 | 13.55 | 13.55 |
| 10                             | 10.95                           | 12.01 | 12.56 | 13.16 | 13.82 | 14.49 | 16.04 | 16.04 |
| 11                             | 12.17                           | 13.48 | 14.21 | 14.97 | 15.78 | 16.65 | 18.53 | 18.53 |
| 12                             | 13.41                           | 15.03 | 15.92 | 16.87 | 17.89 | 18.98 | 21.38 | 21.38 |
| 13                             | 14.68                           | 16.63 | 17.71 | 18.88 | 20.14 | 21.50 | 24.52 | 24.52 |
| 14                             | 15.97                           | 18.29 | 19.58 | 21.01 | 22.55 | 24.21 | 27.97 | 27.97 |
| 15                             | 17.28                           | 20.02 | 21.58 | 23.28 | 25.13 | 27.15 | 31.77 | 31.77 |
| 16                             | 18.64                           | 21.82 | 23.65 | 25.87 | 27.89 | 30.12 | 36.08 | 36.08 |

DISTRIBUTION OF TRUCK FACTORS FOR DIFFERENT CLASSES OF  
HIGHWAYS AND VEHICLES\*

| Truck Factors  |           |             |           |           |           |               |           |           |             |             |           |  |
|----------------|-----------|-------------|-----------|-----------|-----------|---------------|-----------|-----------|-------------|-------------|-----------|--|
| Rural Systems  |           |             |           |           |           | Urban Systems |           |           | All Systems |             |           |  |
| Variable Rural |           | Other Rural |           | All Rural |           | All Urban     |           | All Urban |             | All Systems |           |  |
| Range          | Average   | Range       | Average   | Range     | Average   | Range         | Average   | Range     | Average     | Range       | Average   |  |
| 12             | 0.01-0.06 | 0.02        | 0.01-0.06 | 0.03      | 0.02-0.08 | 0.03          | 0.01-0.05 | 0.03      | 0.01-0.05   | 0.03        | 0.01-0.05 |  |
| 15             | 0.01-0.06 | 0.03        | 0.01-0.06 | 0.05      | 0.01-0.06 | 0.05          | 0.01-0.06 | 0.05      | 0.01-0.06   | 0.05        | 0.01-0.06 |  |
| 20             | 0.01-0.06 | 0.05        | 0.01-0.06 | 0.07      | 0.01-0.06 | 0.07          | 0.01-0.06 | 0.07      | 0.01-0.06   | 0.07        | 0.01-0.06 |  |
| 25             | 0.01-0.06 | 0.07        | 0.01-0.06 | 0.09      | 0.01-0.06 | 0.09          | 0.01-0.06 | 0.09      | 0.01-0.06   | 0.09        | 0.01-0.06 |  |
| 30             | 0.01-0.06 | 0.09        | 0.01-0.06 | 0.11      | 0.01-0.06 | 0.11          | 0.01-0.06 | 0.11      | 0.01-0.06   | 0.11        | 0.01-0.06 |  |
| 35             | 0.01-0.06 | 0.11        | 0.01-0.06 | 0.13      | 0.01-0.06 | 0.13          | 0.01-0.06 | 0.13      | 0.01-0.06   | 0.13        | 0.01-0.06 |  |
| 40             | 0.01-0.06 | 0.13        | 0.01-0.06 | 0.15      | 0.01-0.06 | 0.15          | 0.01-0.06 | 0.15      | 0.01-0.06   | 0.15        | 0.01-0.06 |  |
| 45             | 0.01-0.06 | 0.15        | 0.01-0.06 | 0.17      | 0.01-0.06 | 0.17          | 0.01-0.06 | 0.17      | 0.01-0.06   | 0.17        | 0.01-0.06 |  |
| 50             | 0.01-0.06 | 0.17        | 0.01-0.06 | 0.19      | 0.01-0.06 | 0.19          | 0.01-0.06 | 0.19      | 0.01-0.06   | 0.19        | 0.01-0.06 |  |
| 55             | 0.01-0.06 | 0.19        | 0.01-0.06 | 0.21      | 0.01-0.06 | 0.21          | 0.01-0.06 | 0.21      | 0.01-0.06   | 0.21        | 0.01-0.06 |  |
| 60             | 0.01-0.06 | 0.21        | 0.01-0.06 | 0.23      | 0.01-0.06 | 0.23          | 0.01-0.06 | 0.23      | 0.01-0.06   | 0.23        | 0.01-0.06 |  |
| 65             | 0.01-0.06 | 0.23        | 0.01-0.06 | 0.25      | 0.01-0.06 | 0.25          | 0.01-0.06 | 0.25      | 0.01-0.06   | 0.25        | 0.01-0.06 |  |
| 70             | 0.01-0.06 | 0.25        | 0.01-0.06 | 0.27      | 0.01-0.06 | 0.27          | 0.01-0.06 | 0.27      | 0.01-0.06   | 0.27        | 0.01-0.06 |  |
| 75             | 0.01-0.06 | 0.27        | 0.01-0.06 | 0.29      | 0.01-0.06 | 0.29          | 0.01-0.06 | 0.29      | 0.01-0.06   | 0.29        | 0.01-0.06 |  |
| 80             | 0.01-0.06 | 0.29        | 0.01-0.06 | 0.31      | 0.01-0.06 | 0.31          | 0.01-0.06 | 0.31      | 0.01-0.06   | 0.31        | 0.01-0.06 |  |
| 85             | 0.01-0.06 | 0.31        | 0.01-0.06 | 0.33      | 0.01-0.06 | 0.33          | 0.01-0.06 | 0.33      | 0.01-0.06   | 0.33        | 0.01-0.06 |  |
| 90             | 0.01-0.06 | 0.33        | 0.01-0.06 | 0.35      | 0.01-0.06 | 0.35          | 0.01-0.06 | 0.35      | 0.01-0.06   | 0.35        | 0.01-0.06 |  |
| 95             | 0.01-0.06 | 0.35        | 0.01-0.06 | 0.37      | 0.01-0.06 | 0.37          | 0.01-0.06 | 0.37      | 0.01-0.06   | 0.37        | 0.01-0.06 |  |
| 100            | 0.01-0.06 | 0.37        | 0.01-0.06 | 0.39      | 0.01-0.06 | 0.39          | 0.01-0.06 | 0.39      | 0.01-0.06   | 0.39        | 0.01-0.06 |  |
| 105            | 0.01-0.06 | 0.39        | 0.01-0.06 | 0.41      | 0.01-0.06 | 0.41          | 0.01-0.06 | 0.41      | 0.01-0.06   | 0.41        | 0.01-0.06 |  |
| 110            | 0.01-0.06 | 0.41        | 0.01-0.06 | 0.43      | 0.01-0.06 | 0.43          | 0.01-0.06 | 0.43      | 0.01-0.06   | 0.43        | 0.01-0.06 |  |
| 115            | 0.01-0.06 | 0.43        | 0.01-0.06 | 0.45      | 0.01-0.06 | 0.45          | 0.01-0.06 | 0.45      | 0.01-0.06   | 0.45        | 0.01-0.06 |  |
| 120            | 0.01-0.06 | 0.45        | 0.01-0.06 | 0.47      | 0.01-0.06 | 0.47          | 0.01-0.06 | 0.47      | 0.01-0.06   | 0.47        | 0.01-0.06 |  |
| 125            | 0.01-0.06 | 0.47        | 0.01-0.06 | 0.49      | 0.01-0.06 | 0.49          | 0.01-0.06 | 0.49      | 0.01-0.06   | 0.49        | 0.01-0.06 |  |
| 130            | 0.01-0.06 | 0.49        | 0.01-0.06 | 0.51      | 0.01-0.06 | 0.51          | 0.01-0.06 | 0.51      | 0.01-0.06   | 0.51        | 0.01-0.06 |  |
| 135            | 0.01-0.06 | 0.51        | 0.01-0.06 | 0.53      | 0.01-0.06 | 0.53          | 0.01-0.06 | 0.53      | 0.01-0.06   | 0.53        | 0.01-0.06 |  |
| 140            | 0.01-0.06 | 0.53        | 0.01-0.06 | 0.55      | 0.01-0.06 | 0.55          | 0.01-0.06 | 0.55      | 0.01-0.06   | 0.55        | 0.01-0.06 |  |
| 145            | 0.01-0.06 | 0.55        | 0.01-0.06 | 0.57      | 0.01-0.06 | 0.57          | 0.01-0.06 | 0.57      | 0.01-0.06   | 0.57        | 0.01-0.06 |  |
| 150            | 0.01-0.06 | 0.57        | 0.01-0.06 | 0.59      | 0.01-0.06 | 0.59          | 0.01-0.06 | 0.59      | 0.01-0.06   | 0.59        | 0.01-0.06 |  |
| 155            | 0.01-0.06 | 0.59        | 0.01-0.06 | 0.61      | 0.01-0.06 | 0.61          | 0.01-0.06 | 0.61      | 0.01-0.06   | 0.61        | 0.01-0.06 |  |
| 160            | 0.01-0.06 | 0.61        | 0.01-0.06 | 0.63      | 0.01-0.06 | 0.63          | 0.01-0.06 | 0.63      | 0.01-0.06   | 0.63        | 0.01-0.06 |  |
| 165            | 0.01-0.06 | 0.63        | 0.01-0.06 | 0.65      | 0.01-0.06 | 0.65          | 0.01-0.06 | 0.65      | 0.01-0.06   | 0.65        | 0.01-0.06 |  |
| 170            | 0.01-0.06 | 0.65        | 0.01-0.06 | 0.67      | 0.01-0.06 | 0.67          | 0.01-0.06 | 0.67      | 0.01-0.06   | 0.67        | 0.01-0.06 |  |
| 175            | 0.01-0.06 | 0.67        | 0.01-0.06 | 0.69      | 0.01-0.06 | 0.69          | 0.01-0.06 | 0.69      | 0.01-0.06   | 0.69        | 0.01-0.06 |  |
| 180            | 0.01-0.06 | 0.69        | 0.01-0.06 | 0.71      | 0.01-0.06 | 0.71          | 0.01-0.06 | 0.71      | 0.01-0.06   | 0.71        | 0.01-0.06 |  |
| 185            | 0.01-0.06 | 0.71        | 0.01-0.06 | 0.73      | 0.01-0.06 | 0.73          | 0.01-0.06 | 0.73      | 0.01-0.06   | 0.73        | 0.01-0.06 |  |
| 190            | 0.01-0.06 | 0.73        | 0.01-0.06 | 0.75      | 0.01-0.06 | 0.75          | 0.01-0.06 | 0.75      | 0.01-0.06   | 0.75        | 0.01-0.06 |  |
| 195            | 0.01-0.06 | 0.75        | 0.01-0.06 | 0.77      | 0.01-0.06 | 0.77          | 0.01-0.06 | 0.77      | 0.01-0.06   | 0.77        | 0.01-0.06 |  |
| 200            | 0.01-0.06 | 0.77        | 0.01-0.06 | 0.79      | 0.01-0.06 | 0.79          | 0.01-0.06 | 0.79      | 0.01-0.06   | 0.79        | 0.01-0.06 |  |
| 205            | 0.01-0.06 | 0.79        | 0.01-0.06 | 0.81      | 0.01-0.06 | 0.81          | 0.01-0.06 | 0.81      | 0.01-0.06   | 0.81        | 0.01-0.06 |  |
| 210            | 0.01-0.06 | 0.81        | 0.01-0.06 | 0.83      | 0.01-0.06 | 0.83          | 0.01-0.06 | 0.83      | 0.01-0.06   | 0.83        | 0.01-0.06 |  |
| 215            | 0.01-0.06 | 0.83        | 0.01-0.06 | 0.85      | 0.01-0.06 | 0.85          | 0.01-0.06 | 0.85      | 0.01-0.06   | 0.85        | 0.01-0.06 |  |
| 220            | 0.01-0.06 | 0.85        | 0.01-0.06 | 0.87      | 0.01-0.06 | 0.87          | 0.01-0.06 | 0.87      | 0.01-0.06   | 0.87        | 0.01-0.06 |  |
| 225            | 0.01-0.06 | 0.87        | 0.01-0.06 | 0.89      | 0.01-0.06 | 0.89          | 0.01-0.06 | 0.89      | 0.01-0.06   | 0.89        | 0.01-0.06 |  |
| 230            | 0.01-0.06 | 0.89        | 0.01-0.06 | 0.91      | 0.01-0.06 | 0.91          | 0.01-0.06 | 0.91      | 0.01-0.06   | 0.91        | 0.01-0.06 |  |
| 235            | 0.01-0.06 | 0.91        | 0.01-0.06 | 0.93      | 0.01-0.06 | 0.93          | 0.01-0.06 | 0.93      | 0.01-0.06   | 0.93        | 0.01-0.06 |  |
| 240            | 0.01-0.06 | 0.93        | 0.01-0.06 | 0.95      | 0.01-0.06 | 0.95          | 0.01-0.06 | 0.95      | 0.01-0.06   | 0.95        | 0.01-0.06 |  |
| 245            | 0.01-0.06 | 0.95        | 0.01-0.06 | 0.97      | 0.01-0.06 | 0.97          | 0.01-0.06 | 0.97      | 0.01-0.06   | 0.97        | 0.01-0.06 |  |
| 250            | 0.01-0.06 | 0.97        | 0.01-0.06 | 0.99      | 0.01-0.06 | 0.99          | 0.01-0.06 | 0.99      | 0.01-0.06   | 0.99        | 0.01-0.06 |  |
| 255            | 0.01-0.06 | 0.99        | 0.01-0.06 | 1.01      | 0.01-0.06 | 1.01          | 0.01-0.06 | 1.01      | 0.01-0.06   | 1.01        | 0.01-0.06 |  |
| 260            | 0.01-0.06 | 1.01        | 0.01-0.06 | 1.03      | 0.01-0.06 | 1.03          | 0.01-0.06 | 1.03      | 0.01-0.06   | 1.03        | 0.01-0.06 |  |
| 265            | 0.01-0.06 | 1.03        | 0.01-0.06 | 1.05      | 0.01-0.06 | 1.05          | 0.01-0.06 | 1.05      | 0.01-0.06   | 1.05        | 0.01-0.06 |  |
| 270            | 0.01-0.06 | 1.05        | 0.01-0.06 | 1.07      | 0.01-0.06 | 1.07          | 0.01-0.06 | 1.07      | 0.01-0.06   | 1.07        | 0.01-0.06 |  |
| 275            | 0.01-0.06 | 1.07        | 0.01-0.06 | 1.09      | 0.01-0.06 | 1.09          | 0.01-0.06 | 1.09      | 0.01-0.06   | 1.09        | 0.01-0.06 |  |
| 280            | 0.01-0.06 | 1.09        | 0.01-0.06 | 1.11      | 0.01-0.06 | 1.11          | 0.01-0.06 | 1.11      | 0.01-0.06   | 1.11        | 0.01-0.06 |  |
| 285            | 0.01-0.06 | 1.11        | 0.01-0.06 | 1.13      | 0.01-0.06 | 1.13          | 0.01-0.06 | 1.13      | 0.01-0.06   | 1.13        | 0.01-0.06 |  |
| 290            | 0.01-0.06 | 1.13        | 0.01-0.06 | 1.15      | 0.01-0.06 | 1.15          | 0.01-0.06 | 1.15      | 0.01-0.06   | 1.15        | 0.01-0.06 |  |
| 295            | 0.01-0.06 | 1.15        | 0.01-0.06 | 1.17      | 0.01-0.06 | 1.17          | 0.01-0.06 | 1.17      | 0.01-0.06   | 1.17        | 0.01-0.06 |  |
| 300            | 0.01-0.06 | 1.17        | 0.01-0.06 | 1.19      | 0.01-0.06 | 1.19          | 0.01-0.06 | 1.19      | 0.01-0.06   | 1.19        | 0.01-0.06 |  |
| 305            | 0.01-0.06 | 1.19        | 0.01-0.06 | 1.21      | 0.01-0.06 | 1.21          | 0.01-0.06 | 1.21      | 0.01-0.06   | 1.21        | 0.01-0.06 |  |
| 310            | 0.01-0.06 | 1.21        | 0.01-0.06 | 1.23      | 0.01-0.06 | 1.23          | 0.01-0.06 | 1.23      | 0.01-0.06   | 1.23        | 0.01-0.06 |  |
| 315            | 0.01-0.06 | 1.23        | 0.01-0.06 | 1.25      | 0.01-0.06 | 1.25          | 0.01-0.06 | 1.25      | 0.01-0.06   | 1.25        | 0.01-0.06 |  |
| 320            | 0.01-0.06 | 1.25        | 0.01-0.06 | 1.27      | 0.01-0.06 | 1.27          | 0.01-0.06 | 1.27      | 0.01-0.06   | 1.27        | 0.01-0.06 |  |
| 325            | 0.01-0.06 | 1.27        | 0.01-0.06 | 1.29      | 0.01-0.06 | 1.29          | 0.01-0.06 | 1.29      | 0.01-0.06   | 1.29        | 0.01-0.06 |  |
| 330            | 0.01-0.06 | 1.29        | 0.01-0.06 | 1.31      | 0.01-0.06 | 1.31          | 0.01-0.06 | 1.31      | 0.01-0.06   | 1.31        | 0.01-0.06 |  |
| 335            | 0.01-0.06 | 1.31        | 0.01-0.06 | 1.33      | 0.01-0.06 | 1.33          | 0.01-0.06 | 1.33      | 0.01-0.06   | 1.33        | 0.01-0.06 |  |
| 340            | 0.01-0.06 | 1.33        | 0.01-0.06 | 1.35      | 0.01-0.06 | 1.35          | 0.01-0.06 | 1.35      | 0.01-0.06   | 1.35        | 0.01-0.06 |  |
| 345            | 0.01-0.06 | 1.35        | 0.01-0.06 | 1.37      | 0.01-0.06 | 1.37          | 0.01-0.06 | 1.37      | 0.01-0.06   | 1.37        | 0.01-0.06 |  |
| 350            | 0.01-0.06 | 1.37        | 0.01-0.06 | 1.39      | 0.01-0.06 | 1.39          | 0.01-0.06 | 1.39      | 0.01-0.06   | 1.39        | 0.01-0.06 |  |
| 355            | 0.01-0.06 | 1.39        | 0.01-0.06 | 1.41      | 0.01-0.06 | 1.41          | 0.01-0.06 | 1.41      | 0.01-0.06   | 1.41        | 0.01-0.06 |  |
| 360            | 0.01-0.06 | 1.41        | 0.01-0.06 | 1.43      | 0.01-0.06 | 1.43          | 0.01-0.06 | 1.43      | 0.01-0.06   | 1.43        | 0.01-0.06 |  |
| 365            | 0.01-0.06 | 1.43        | 0.01-0.06 | 1.45      | 0.01-0.06 | 1.45          | 0.01-0.06 | 1.45      | 0.01-0.06   | 1.45        | 0.01-0.06 |  |
| 370            | 0.01-0.06 | 1.45        | 0.01-0.06 | 1.47      | 0.01-0.06 | 1.47          | 0.01-0.06 | 1.47      | 0.01-0.06   | 1.47        | 0.01-0.06 |  |
| 375            | 0.01-0.06 | 1.47        | 0.01-0.06 | 1.49      | 0.01-0.06 | 1.49          | 0.01-0.06 | 1.49      | 0.01-0.06   | 1.49        | 0.01-0.06 |  |
| 380            | 0.01-0.06 | 1.49        | 0.01-0.06 | 1.51      | 0.01-0.06 | 1.51          | 0.01-0.06 | 1.51      | 0.01-0.06   | 1.51        | 0.01-0.06 |  |
| 385            | 0.01-0.06 | 1.51        | 0.01-0.06 | 1.53      | 0.01-0.06 | 1.53          | 0.01-0.06 | 1.53      | 0.01-0.06   | 1.53        | 0.01-0.06 |  |
| 390            | 0.01-0.06 | 1.53        | 0.01-0.06 | 1.55      | 0.01-0.06 | 1.55          | 0.01-0.06 | 1.55      | 0.01-0.06   | 1.55        | 0.01-0.06 |  |
| 395            | 0.01-0.06 | 1.55        | 0.01-0.06 | 1.57      | 0.01-0.06 | 1.57          | 0.01-0.06 | 1.57      | 0.01-0.06   | 1.57        | 0.01-0.06 |  |
| 400            | 0.01-0.06 | 1.57        | 0.01-0.06 | 1.59      | 0.01-0.06 | 1.59          | 0.01-0.06 | 1.59      | 0.01-0.06   | 1.59        | 0.01-0.06 |  |
| 405            | 0.01-0.06 | 1.59        | 0.01-0.06 | 1.61      | 0.01-0.06 | 1.61          | 0.01-0.06 | 1.61      | 0.01-0.06   | 1.61        | 0.01-0.06 |  |
| 410            | 0.01-0.06 | 1.61        | 0.01-0.06 | 1.63      | 0.01-0.06 | 1.63          | 0.01-0.06 | 1.63      | 0.01-0.06   | 1.63        | 0.01-0.06 |  |
| 415            | 0.01-0.06 | 1.63        | 0.01-0.06 | 1.65      | 0.01-0.06 | 1.65          | 0.01-0.06 | 1.65      | 0.01-0.06   | 1.65        | 0.01-0.06 |  |
| 420            | 0.01-0.06 | 1.65        | 0.01-0.06 | 1.67      | 0.01-0.06 | 1.67          | 0.01-0.06 | 1.67      | 0.01-0.06   | 1.67        | 0.01-0.06 |  |
| 425            | 0.01-0.06 | 1.67        | 0.01-0.06 | 1.69      | 0.01-0.06 | 1.69          | 0.01-0.06 | 1.69      | 0.01-0.06   | 1.69        | 0.01-0.06 |  |
| 430            | 0.01-0.06 | 1.69        | 0.01-0.06 | 1.71      | 0.01-0.06 | 1.71          | 0.01-0.06 | 1.71      | 0.01-0.06   | 1.71        | 0.01-0.06 |  |
| 435            | 0.01-0.06 | 1.71        | 0.01-0.06 | 1.73      | 0.01-0.06 | 1.73          | 0.01-0.06 | 1.73      | 0.01-0.06   | 1.73        | 0.01-0.06 |  |
| 440            | 0.01-0.06 | 1.73        | 0.01-0.06 | 1.75      | 0.01-0.06 | 1.75          | 0.        |           |             |             |           |  |

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**Michal Rosen-Zvi**



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