## APPENDIX B

## Synopsis of Pilot Testing Scenario

Submit this worksheet by September 28, 2007 for each performance measure your institution plans to pilot test.

Organization: Maricopa Association of Governments
Description of transportation network managed by the volunteer organization:

The MAG modeling area developed for the purposes of regional planning covers more than 4,500 square miles, includes nearly 2000 traffic zones, and more than 15,000 lane miles of road network. The network includes close to a hundred transit lines, including different types of bus service and LRT lines in the future years. MAG maintains extensive modeling networks for a number of horizon years. The networks serve as a major tool for the purposes of regional planning and travel forecasting. The base year network geographical coverage includes all of Maricopa County as well as substantial parts of Pinal County. The networks include road and transit facilities of regional significance, with detailed representation of all freeways and major arterial roads within modeling area.

Primary Point of Contact:

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| :--- | :--- | :--- |
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Indicate the performance measure your organization plans to pilot test:
$\begin{array}{ll}\square \text { Recurring Delay } & \square \text { Non-Recurring Delay } \\ \square \text { Extent of Congestion - Spatial } & \boxed{\text { Extent of Congestion - Temporal }} \\ \begin{array}{l}\text { Travel Time - Facility }\end{array} & \square \text { Travel Time - Trip } \\ \square \text { Travel Time - Trip } & \boxtimes \text { Speed } \\ \square \text { Incident Duration } & \square \text { Customer Satisfaction } \\ \boxtimes \text { Throughput - Vehicle } & \boxtimes \text { Throughput - Person }\end{array}$
Provide a brief description of the pilot test.
This pilot test includes 2006 data sets collected by 26 detectors located on major commute freeway corridors instrumented as part of the ADOT Freeway Management System FMS. This system collects 24-hour freeway data 7 days a week for approximately $50 \%$ of the MAG urbanized regional freeway system. A selected set of approximately 58 detectors have been determined to have consistent volume and speed data appropriate for analytical and archival purposes. Data from these FMS detectors has been collected since January 2000. Performance indicators such as volume, speed, VMT, and delay are have been calculated and reported as part of the MAG Performance Monitoring initial efforts.

## APPENDIX C <br> Description of Reporting Requirements Common to all Performance Measures

## For each performance measure report on the following:

Study Area - Describe the extents of the study area. Provide a description of the types of facilities (i.e. roadway types and modes of transit) within the transportation network. Attach diagrams and maps as appropriate.

Study Period - Describe the period over which the performance measure is assessed (i.e. yearly survey or quarterly commuting trends). Also include any time specific aspects (such as peak hour, peak period, etc.) and how these were defined and/or determined.

Sample Size - Report the sample size of the data used to calculate the performance measure and its resulting level of confidence.

Deviations or Exceptions - If data collection or processing methods deviated from that contained in the definitions, explain the circumstances and reasoning for using alternative methods.

Cost Estimate - Provide an itemized estimate of the cost of compiling the performance measure. This includes the cost of data collection, labor hours, equipment, and any consulting resources used in the process. If the base level data or data collection mechanism is used for purposes other than performance measures, provide a synopsis of all programs over which the cost of the data collection is justified.

Utility of Performance Measures - If the performance measure is incorporated into operations, planning, traveler information, or other agency programs, report on its use. Include a description of the application, method and frequency of reporting, extent of distribution, and target audience.

# APPENDIX D 

## Worksheets for Submitting Performance Measure Data and Reporting Experience

Worksheets Include:
Throughput - Person \& Vehicle
Speed
Extent of Congestion - Spatial \& Temporal
Travel Time - Facility
Travel Time Data Collection

## Throughput - Person \& Throughput - Vehicle

Indicate the performance measure tested -> X Throughput - Vehicle X Throughput - Person
Study Area - 26 locations on 6 selected corridors, see map for details.

Study Period - Average 24-hour vehicle throughput volume and person throughput, during the following nonholiday weekdays: Tuesday, Wednesday, and Thursday, including HOV and GP lanes.

Sample Size - Tuesday, Wednesday, and Thursday for 2006. A total of 155 days are defined as core weekdays. Note that there is no data on some specific days or some specific time periods.

Deviations or exceptions - Person throughput data is obtained by multiplying vehicle throughput number by average vehicle occupancy. MAG manually collected vehicle occupancy data on each freeway detector location in 2006-2007. Method used here is consistent to pilot study's definition.

Cost Estimates - N/A

Utility of Performance Measure - Data has been reported on the MAG annual freeway mobility report, MAG regional traffic counts database and HPMS database. This data has also been used in validating the MAG regional travel demand forecasting model.

Attach a copy of the data collected, and calculated performance metrics.


Throughput Vehicle／Person，Corridors \＃1，2，3，AM Peak，5－10 am，Inbound Traffic

|  | $\begin{gathered} \hline \text { Corridor \# } 1 \\ \text { Peak Period: 5-10 am } \\ \hline \end{gathered}$ | I－10 EB，Inbound，83rd Ave to 7th St， 10 miles， 2006 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | STN 002，l－10 EB／83rd Ave |  |  | STN 020，l－10 EB／59th Ave |  |  | STN 068，l－10 EB／35th Ave |  |  | STN 075，l－10 EB／19th Ave |  |  | STN 085，l－10 EB／7th St |  |  |
|  |  | Daily <br> Thruough put Vehicle （Veh） | Daily <br> Thruough put Person （person） | Thruough put <br> Vehicle in Peak Period （Veh） | Daily <br> Thruough put <br> Vehicle （Veh） | Daily <br> Thruough put Person （person） | Thruough put Vehicle in Peak Period （Veh） | Daily <br> Thruough put Vehicle （Veh） | Daily <br> Thruough put Person （person） | Thruough put Vehicle in Peak Period （Veh） | Daily <br> Thruough put <br> Vehicle <br> （Veh） | Daily <br> Thruough put Person （person） | Thruough put Vehicle in Peak Period （Veh） | Daily <br> Thruough put Vehicle （Veh） | Daily <br> Thruough put Person （person） | Thruough put <br> Vehicle in Peak Period （Veh） |
|  | Annual Daily Average | 82，335 | 115，306 | 35，391 | 68，123 | 94，010 | 26，400 | 113，490 | 145，268 | 46，165 | 123，533 | 163，064 | 58，047 | 138，152 | 182，360 | 55，485 |
| 를 | MAX Throughtput | 90，234 | 126，368 | 40，245 | 81，321 | 112，223 | 34，923 | 124，884 | 159，852 | 50，717 | 135，874 | 179，353 | 62，384 | 152，787 | 201，679 | 58，803 |
| 哀 | MIN Throughtput | 74，000 | 103，633 | 12，548 | 45，590 | 62，914 | 11，095 | 105，126 | 134，561 | 28，395 | 112，084 | 147，951 | 42，447 | 120，928 | 159，625 | 41，859 |
| 产 | Median Throughtput | 82，316 | 115，279 | 35，709 | 70，000 | 96，600 | 27，078 | 113，490 | 145，267 | 46，421 | 123，494 | 163，011 | 58，827 | 138，280 | 182，530 | 56，210 |
| $\bigcirc$ | 95 Percentile | 87，022 | 121，869 | 39，756 | 79，219 | 109，322 | 32，701 | 118，451 | 151，617 | 49，973 | 129，497 | 170，937 | 61，490 | 143，744 | 189，742 | 58，060 |
|  | Coefficient of Variation | 3\％ | 3\％ | 11\％ | 12\％ | 12\％ | 19\％ | 3\％ | 3\％ | 7\％ | 3\％ | 3\％ | 6\％ | 3\％ | 3\％ | 6\％ |
|  | January | 80，411 | 112，611 | 34，676 | 68，664 | 94，757 | 28，571 | 111，221 | 142，363 | 46，545 | 122，174 | 161，270 | 58，284 | 135，465 | 178，814 | 53，892 |
|  | February | 79，847 | 111，821 | 32，391 | 73，459 | 101，373 | 27，133 | 112，206 | 143，624 | 45，184 | 124，206 | 163，952 | 58，658 | 138，785 | 183，196 | 57，461 |
|  | March | 82，560 | 115，621 | 33，341 | 60，148 | 83，004 | 21，987 | 114，207 | 146，185 | 44，415 | 125，593 | 165，783 | 57，488 | 139，621 | 184，300 | 56，140 |
|  | April | 83，074 | 116，340 | 35，568 | 50，162 | 69，224 | 17，955 | 113，187 | 144，879 | 44，784 | 124，996 | 164，995 | 58，428 | 138，529 | 182，859 | 55，429 |
|  | May | 84，089 | 117，763 | 39，030 | 65，852 | 90，876 | 28，144 | 115，037 | 147，247 | 49，189 | 125，867 | 166，145 | 60，091 | 136，729 | 180，482 | 55，536 |
|  | June | 84，908 | 118，909 | 37，396 | 74，717 | 103，109 | 32，528 | 116，372 | 148，957 | 49，866 | 125，735 | 165，970 | 59，636 | 139，028 | 183，517 | 55，675 |
|  | July | 83，554 | 117，013 | 38，047 | 72，490 | 100，037 | 29，879 | 114，380 | 146，406 | 46，639 | 120，750 | 159，390 | 55，994 | 138，155 | 182，365 | 53，804 |
|  | August | 82，564 | 115，626 | 35，884 | 72，699 | 100，324 | 29，536 | 114，256 | 146，247 | 46，736 | 121，380 | 160，222 | 57，662 | 138，766 | 183，171 | 55，456 |
|  | September | 79，984 | 112，013 | 33，116 | 69，204 | 95，501 | 26，060 | 111，159 | 142，284 | 44，769 | 120，891 | 159，577 | 57，355 | 136，116 | 179，674 | 55，258 |
|  | October | 82，556 | 115，615 | 34，371 | 70，382 | 97，127 | 24，950 | 112，519 | 144，024 | 44，416 | 123，550 | 163，086 | 57，503 | 139，028 | 183，517 | 55，477 |
|  | November | 84，034 | 117，685 | 36，048 | 70，304 | 97，020 | 25，234 | 113，304 | 145，029 | 45，645 | 124，033 | 163，724 | 58，356 | 139，745 | 184，463 | 57，152 |
|  | December | 79，304 | 111，062 | 34，222 | 71，079 | 98，089 | 25，925 | 113，121 | 144，795 | 45，324 | 122，656 | 161，906 | 56，650 | 136，853 | 180，645 | 54，694 |
|  | Corridor \＃ 2Peak Period：5－10 am | Loop 202 WB，Inbound，Scottsdale Rd to 7th Ave， 10 miles， 2006 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | STN 278，L202 WB／Socttsdale |  |  | STN 223，L202 WB／38th St |  |  | STN 139，l－10 WB／16th St |  |  | STN 078，I－10 WB／7th Ave |  |  |  |  |  |
|  |  | Daily <br> Thruough put <br> Vehicle <br> （Veh） | Daily <br> Thruough put Person （person） | Thruough put <br> Vehicle in <br> Peak <br> Period <br> （Veh） | Daily <br> Thruough put <br> Vehicle （Veh） | Daily <br> Thruough put <br> Person （person） | Thruough put <br> Vehicle in <br> Peak <br> Period <br> （Veh） | Daily <br> Thruough <br> put <br> Vehicle <br> （Veh） | Daily <br> Thruough put <br> Person （person） | Thruough put <br> Vehicle in Peak Period （Veh） | Daily <br> Thruough put <br> Vehicle （Veh） | Daily <br> Thruough put Person （person） | Thruough put <br> Vehicle in Peak Period （Veh） |  |  |  |
|  | Annual Daily Average | 89，394 | 122，470 | 49，294 | 92，464 | 130，374 | 39，176 | 143，220 | 247，770 | 63，475 | 99，356 | 142，080 | 33，053 |  |  |  |
|  | MAX Throughtput | 95，508 | 130，845 | 53，297 | 98，479 | 138，855 | 41，806 | 154，323 | 266，979 | 67，477 | 111，266 | 159，110 | 35，326 |  |  |  |
|  | MIN Throughtput | 73，801 | 101，108 | 33，178 | 72，594 | 102，357 | 25，759 | 128，369 | 222，078 | 45，448 | 92，198 | 131，843 | 26，550 |  |  |  |
|  | Median Throughtput | 89，083 | 122，044 | 49，516 | 92，687 | 130，689 | 39，583 | 143，075 | 247，520 | 63，842 | 99，294 | 141，990 | 33，244 |  |  |  |
|  | 95 Percentile | 93，937 | 128，694 | 51，995 | 96，623 | 136，239 | 40，901 | 148，462 | 256，839 | 66，010 | 103，271 | 147，678 | 34，428 |  |  |  |
|  | Coefficient of Variation | 3\％ | 3\％ | 5\％ | 3\％ | 3\％ | 5\％ | 2\％ | 2\％ | 4\％ | 3\％ | 3\％ | 3\％ |  |  |  |
|  | January | 90，575 | 124，087 | 50，472 | 93，645 | 132，039 | 39，482 | 140，673 | 243，364 | 62，818 | 97，021 | 138，741 | 32，570 |  |  |  |
|  | February | 91，242 | 125，002 | 49，606 | 94，130 | 132，723 | 39，331 | 140，290 | 242，701 | 63，144 | 96，326 | 137，746 | 33，050 |  |  |  |
|  | March | 93，313 | 127，839 | 50，541 | 94，088 | 132，665 | 40，245 | 145，350 | 251，456 | 64，320 | 100，791 | 144，130 | 33，770 |  |  |  |
|  | April | 91，880 | 125，875 | 52，020 | 92，922 | 131，020 | 40，545 | 144，110 | 249，311 | 65，137 | 99，538 | 142，339 | 33，935 |  |  |  |
|  | May | 88，278 | 120，941 | 49，594 | 91，803 | 129，443 | 39，598 | 142，429 | 246，402 | 63，135 | 98，487 | 140，836 | 32，708 |  |  |  |
|  | June | 88，495 | 121，238 | 48，568 | 92，414 | 130，304 | 39，036 | 143，156 | 247，660 | 62，003 | 99，174 | 141，819 | 31，828 |  |  |  |
|  | July | 87，298 | 119，598 | 47，936 | 90，936 | 128，220 | 37，990 | 141，567 | 244，912 | 61，109 | 98，240 | 140，484 | 31，465 |  |  |  |
|  | August | 88，293 | 120，961 | 48，993 | 93，078 | 131，240 | 39，369 | 144，471 | 249，936 | 63，849 | 99，997 | 142，996 | 33，064 |  |  |  |
|  | September | 87，262 | 119，549 | 48，381 | 92，798 | 130，845 | 38，560 | 144，693 | 250，318 | 65，200 | 100，382 | 143，546 | 33，805 |  |  |  |
|  | October | 90，082 | 123，412 | 50，868 | 92，857 | 130，929 | 39，910 | 144，704 | 250，338 | 65，119 | 100，796 | 144，139 | 33，893 |  |  |  |
|  | November | 90，821 | 124，425 | 50，253 | 91，747 | 129，363 | 39，447 | 144，871 | 250，627 | 65，325 | 100，600 | 143，857 | 34，163 |  |  |  |
|  | December | 86，868 | 119，009 | 46，616 | 88，726 | 125，103 | 36，514 | 141，846 | 245，394 | 60，630 | 100，647 | 143，926 | 32，415 |  |  |  |
| Corridor \＃ 3Peak Period：5－10 am |  |  |  |  |  | I－17 SB | B，Inboun | d，Peoria | Rd to Bu | uckeye Rd | d， 10 miles | s， 2006 |  |  |  |  |
|  |  | STN 358，I－17 SB／PeoriaAve |  |  | STN 367，l－17 SB／Glendale Ave |  |  | STN 367，l－17 SB／Indian School |  |  | STN 118，I－17 SB／Buckeye Rd |  |  |  |  |  |
|  |  | Daily <br> Thruough put <br> Vehicle （Veh） | Daily <br> Thruough put Person （person） | Thruough put <br> Vehicle in <br> Peak <br> Period <br> （Veh） | Daily <br> Thruough put <br> Vehicle （Veh） | Daily <br> Thruough put <br> Person <br> （person） | Thruough put <br> Vehicle in <br> Peak <br> Period <br> （Veh） | Daily <br> Thruough <br> put <br> Vehicle <br> （Veh） | Daily <br> Thruough put <br> Person <br> （person） | Thruough put <br> Vehicle in <br> Peak <br> Period <br> （Veh） | Daily <br> Thruough put Vehicle （Veh） | Daily <br> Thruough put Person （person） | Thruough put <br> Vehicle in <br> Peak <br> Period <br> （Veh） |  |  |  |
|  | Annual Daily Average | 86，748 | 118，845 | 34，308 | 63，875 | 88，147 | 23，124 | 93，088 | 134，977 | 38，357 | 62，694 | 71，472 | 20，461 |  |  |  |
| 를 | MAX Throughtput | 93，011 | 127，425 | 38，624 | 78，791 | 108，732 | 29，091 | 100，468 | 145，679 | 41，584 | 67，804 | 77，297 | 24，640 |  |  |  |
| － | MIN Throughtput | 72，214 | 98，933 | 16，432 | 49，624 | 68，481 | 16，454 | 83，975 | 121，764 | 31，365 | 55，377 | 63，130 | 15，430 |  |  |  |
| 容 | Median Throughtput | 86，747 | 118，843 | 34，585 | 61，727 | 85，183 | 22，378 | 93，266 | 135，236 | 38，611 | 62，935 | 71，746 | 21，063 |  |  |  |
| $\bigcirc$ | 95 Percentile | 89，983 | 123，277 | 36，410 | 75，836 | 104，654 | 28，014 | 96，952 | 140，581 | 40，918 | 65，746 | 74，951 | 22，221 |  |  |  |
|  | Coefficient of Variation | 3\％ | 3\％ | 6\％ | 13\％ | 13\％ | 14\％ | 3\％ | 3\％ | 5\％ | 4\％ | 4\％ | 9\％ |  |  |  |
|  | January | 84，636 | 115，951 | 33，261 | 61，050 | 84，249 | 19，984 | 91，706 | 132，974 | 38，083 | 63，982 | 72，940 | 22，153 |  |  |  |
|  | February | 85，163 | 116，673 | 33，909 | 58，273 | 80，417 | 20，402 | 92，490 | 134，111 | 37，102 | 61，621 | 70，247 | 19，620 |  |  |  |
|  | March | 88，709 | 121，531 | 35，806 | 57，473 | 79，312 | 21，816 | 94，175 | 136，554 | 38，045 | 61，685 | 70，321 | 18，774 |  |  |  |
|  | April | 89，502 | 122，617 | 36，598 | 56，370 | 77，790 | 21，623 | 95，100 | 137，896 | 38，974 | 63，847 | 72，785 | 20，651 |  |  |  |
|  | May | 87，018 | 119，215 | 34，906 | 54，817 | 75，647 | 21，810 | N／A | N／A | N／A | 64，516 | 73，548 | 21，651 |  |  |  |
|  | June | 87，628 | 120，050 | 34，530 | 53，542 | 73，887 | 20，384 | 97，429 | 141，272 | 40，768 | 64，523 | 73，556 | 21，583 |  |  |  |
|  | July | 86，672 | 118，741 | 34，258 | 65，021 | 89，729 | 23，416 | 94，385 | 136，858 | 39，677 | 63，522 | 72，415 | 21，178 |  |  |  |
|  | August | 86，586 | 118，623 | 34，436 | 66，306 | 91，502 | 23，872 | 93，593 | 135，709 | 39，236 | 62，978 | 71，795 | 21，177 |  |  |  |
|  | September | 84，833 | 116，221 | 32，998 | 65，725 | 90，701 | 23，746 | 92，559 | 134，211 | 39，549 | 61，606 | 70，231 | 19，724 |  |  |  |
|  | October | 87，724 | 120，182 | 34，335 | 74，532 | 102，854 | 26，800 | 94，028 | 136，340 | 38，963 | 62，190 | 70，896 | 19，725 |  |  |  |
|  | November | 87，234 | 119，510 | 33，996 | 73，571 | 101，528 | 26，063 | 93，075 | 134，958 | 37，432 | 61，606 | 70，231 | 19，835 |  |  |  |
|  | December | 86，406 | 118，376 | 33，566 | 73，642 | 101，626 | 26，271 | 90，505 | 131，232 | 36，837 | 60，375 | 68，827 | 19，199 |  |  |  |

Throughput Vehicle/Traveler, Corridors \# 4, 5, 6, PM Peak, 2-7 am, Outbound Traffic


## Speed

Study Area - 26 locations on 6 selected corridors, see map for details.

Study Period - 5:00 a.m. to 10:00 a.m. for inbound traffic and 2:00 p.m. to 7:00 p.m. for outbound traffic for core weekdays. HOV lanes are excluded.

Sample Size - Tuesday, Wednesday, and Thursday for 2006. A total of 155 days are defined as core weekdays. Note that there is no data on some specific days or some specific time periods.

Deviations or exceptions - Time-mean speeds are measured by dual-loop detectors or passive acoustic detectors. Average speed on each location is weighted by volume per lane, HOV lanes are excluded.

Cost Estimates - N/A

Utility of Performance Measure - Data has been used on ADOT 511 Freeway Management System Real-time Speed Map (http://www.az511.com/RoadwayConditions/index.php). Data is also archived into MAG annual freeway mobility report. This data has also been used in validating and calibrating regional travel demand forecasting model.

Complete a TRAVEL TIME DATA COLLECTION WORKSHEET for the base level travel time data. Attach a copy of the data collected, and calculated performance metrics.

Speed, Corridor \# 1, AM Peak, 5-10 am, Inbound Traffic
I-10, $83^{\text {rd }}$ Ave $-7^{\text {th }}$ St, EB

|  |  | STN 002, I-10 EB at 83rd Ave, Inbound |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AM Peak |  | 5:15 | 5:30 | 5:45 | 6:00 | 6:15 | 6:30 | 6:45 | 7:00 | 7:15 | 7:30 | 7:45 | 8:00 | 8:15 | 8:30 | 8:45 | 9:00 | 9:15 | 9:30 | 9:45 | 10:00 |
|  | Annual Average Spd | 60.6 | 59.6 | 53.3 | 52.1 | 51.5 | 48.7 | 43.2 | 40.2 | 35.5 | 29.5 | 28.4 | 32.6 | 39.3 | 45.2 | 49.6 | 54.1 | 58.2 | 60.7 | 61.2 | 61.0 |
|  | MAX Spd | 64.0 | 79.0 | 64.0 | 64.0 | 63.0 | 64.0 | 63.0 | 63.0 | 63.0 | 63.0 | 63.0 | 63.0 | 63.0 | 64.0 | 65.0 | 64.0 | 64.0 | 65.0 | 65.0 | 64.0 |
|  | MIN Spd | 40.0 | 33.0 | 13.0 | 11.0 | 13.0 | 11.0 | 9.0 | 9.0 | 9.0 | 8.0 | 8.0 | 9.0 | 9.0 | 12.0 | 16.0 | 21.0 | 23.0 | 48.0 | 56.0 | 56.0 |
|  | Median Spd | 61.0 | 61.0 | 58.0 | 57.0 | 57.0 | 55.0 | 46.0 | 40.5 | 33.5 | 21.0 | 19.5 | 26.5 | 36.0 | 48.0 | 56.0 | 60.0 | 61.0 | 61.0 | 61.0 | 61.0 |
|  | 95 Percentile Spd | 63.0 | 63.0 | 63.0 | 63.0 | 63.0 | 62.0 | 62.0 | 62.0 | 62.0 | 61.0 | 61.0 | 61.0 | 62.0 | 63.0 | 62.0 | 62.3 | 63.0 | 63.0 | 63.0 | 63.0 |
|  | Coefficient of Variation | 4\% | 7\% | 22\% | 25\% | 26\% | 29\% | 38\% | 44\% | 52\% | 63\% | 63\% | 56\% | 45\% | 35\% | 28\% | 21\% | 13\% | 4\% | 3\% | 3\% |
|  |  | STN 020, l-10 EB at 59th Ave, Inbound |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | AM Peak | 5:15 | 5:30 | 5:45 | 6:00 | 6:15 | 6:30 | 6:45 | 7:00 | 7:15 | 7:30 | 7:45 | 8:00 | 8:15 | 8:30 | 8:45 | 9:00 | 9:15 | 9:30 | 9:45 | 10:00 |
|  | Annual Average Sp | 65.2 | 59.8 | 54.2 | 53.1 | 53.1 | 49.4 | 46.4 | 45.2 | 45.3 | 43.9 | 42.7 | 43.8 | 46.5 | 50.2 | 53.0 | 56.7 | 61.5 | 64.3 | 65.7 | 66.5 |
|  | MAX Spd | 72.0 | 72.0 | 71.0 | 72.0 | 72.0 | 71.0 | 72.0 | 72.0 | 71.0 | 71.0 | 72.0 | 72.0 | 74.0 | 73.0 | 74.0 | 73.0 | 73.0 | 74.0 | 73.0 | 74.0 |
|  | MIN Spd | 45.0 | 13.0 | 11.0 | 10.0 | 16.0 | 10.0 | 8.0 | 8.0 | 7.0 | 8.0 | 8.0 | 14.0 | 12.0 | 15.0 | 11.0 | 18.0 | 23.0 | 22.0 | 32.0 | 36.0 |
|  | Median Spd | 68.5 | 60.0 | 56.0 | 54.0 | 54.0 | 50.5 | 49.5 | 47.5 | 49.0 | 47.0 | 45.0 | 47.0 | 48.5 | 52.0 | 53.5 | 60.0 | 66.0 | 69.5 | 70.0 | 70.0 |
|  | 95 Percentile Spd | 72.0 | 71.0 | 70.0 | 71.0 | 71.3 | 70.0 | 68.0 | 68.0 | 69.0 | 67.0 | 65.3 | 64.3 | 69.0 | 71.0 | 71.0 | 72.0 | 72.0 | 72.0 | 72.0 | 73.0 |
|  | Coefficient of Variation | 9\% | 16\% | 23\% | 27\% | 29\% | 34\% | 37\% | 39\% | 40\% | 39\% | 39\% | 35\% | 35\% | 30\% | 27\% | 24\% | 19\% | 15\% | 11\% | 10\% |
|  |  | STN 068, I-10 EB at 35th Ave, Inbound |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | AM Peak | 5:15 | 5:30 | 5:45 | 6:00 | 6:15 | 6:30 | 6:45 | 7:00 | 7:15 | 7:30 | 7:45 | 8:00 | 8:15 | 8:30 | 8:45 | 9:00 | 9:15 | 9:30 | 9:45 | 10:00 |
|  | Annual Average Spd | 54.5 | 52.0 | 47.0 | 44.6 | 42.8 | 42.0 | 38.6 | 36.9 | 38.2 | 37.8 | 37.9 | 37.5 | 40.4 | 42.8 | 46.2 | 49.2 | 52.3 | 54.9 | 55.5 | 56.1 |
|  | MAX Spd | 57.0 | 57.0 | 56.0 | 58.0 | 56.0 | 57.0 | 55.0 | 56.0 | 56.0 | 57.0 | 57.0 | 56.0 | 56.0 | 56.0 | 57.0 | 57.0 | 59.0 | 73.0 | 58.0 | 75.0 |
|  | MIN Spd | 12.0 | 12.0 | 9.0 | 11.0 | 9.0 | 8.0 | 9.0 | 8.0 | 7.0 | 8.0 | 8.0 | 8.0 | 18.0 | 16.0 | 17.0 | 18.0 | 16.0 | 25.0 | 19.0 | 34.0 |
|  | Median Spd | 55.0 | 54.0 | 50.0 | 48.5 | 45.5 | 44.5 | 39.0 | 38.0 | 41.0 | 37.5 | 38.0 | 37.0 | 40.0 | 43.0 | 47.5 | 51.5 | 55.0 | 56.0 | 56.0 | 56.0 |
|  | 95 Percentile Spd | 57.0 | 56.0 | 56.0 | 55.3 | 55.3 | 55.0 | 54.0 | 54.3 | 54.0 | 54.0 | 53.0 | 52.3 | 54.0 | 55.0 | 55.3 | 55.0 | 57.0 | 57.0 | 57.0 | 57.3 |
|  | Coefficient of Variation | 8\% | 12\% | 20\% | 24\% | 27\% | 28\% | 34\% | 37\% | 35\% | 33\% | 29\% | 27\% | 23\% | 21\% | 18\% | 14\% | 14\% | 9\% | 6\% | 5\% |
|  |  | STN 075, l-10 EB at 19th Ave, Inbound |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | AM Peak | 5:15 | 5:30 | 5:45 | 6:00 | 6:15 | 6:30 | 6:45 | 7:00 | 7:15 | 7:30 | 7:45 | 8:00 | 8:15 | 8:30 | 8:45 | 9:00 | 9:15 | 9:30 | 9:45 | 10:00 |
|  | Annual Average Spd | 62.2 | 59.4 | 54.6 | 50.7 | 49.7 | 45.5 | 39.6 | 38.8 | 40.6 | 39.7 | 37.6 | 37.6 | 40.9 | 44.6 | 48.9 | 53.2 | 57.8 | 60.5 | 61.5 | 61.9 |
|  | MAX Spd | 66.0 | 66.0 | 66.0 | 65.0 | 66.0 | 66.0 | 66.0 | 66.0 | 66.0 | 65.0 | 65.0 | 65.0 | 65.0 | 64.0 | 64.0 | 64.0 | 64.0 | 65.0 | 65.0 | 65.0 |
|  | MIN Spd | 12.0 | 20.0 | 11.0 | 10.0 | 11.0 | 7.0 | 7.0 | 9.0 | 8.0 | 10.0 | 10.0 | 15.0 | 19.0 | 19.0 | 17.0 | 18.0 | 17.0 | 27.0 | 42.0 | 43.0 |
|  | Median Spd | 63.0 | 61.0 | 59.0 | 57.0 | 56.0 | 48.0 | 35.5 | 34.0 | 36.0 | 35.5 | 34.0 | 34.0 | 36.0 | 41.5 | 51.0 | 58.0 | 61.0 | 62.0 | 62.0 | 62.0 |
|  | 95 Percentile Spd | 64.0 | 63.0 | 62.0 | 62.0 | 62.3 | 61.0 | 60.0 | 60.0 | 60.3 | 59.0 | 57.3 | 56.3 | 60.3 | 61.0 | 62.0 | 62.0 | 63.0 | 63.0 | 63.0 | 63.0 |
|  | Coefficient of Variation | 9\% | 12\% | 19\% | 25\% | 27\% | 32\% | 37\% | 36\% | 35\% | 33\% | 28\% | 26\% | 27\% | 25\% | 23\% | 20\% | 15\% | 8\% | 5\% | 3\% |
|  |  | STN 085, I-10 EB at 7th St, Inbound |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | AM Peak | 5:15 | 5:30 | 5:45 | 6:00 | 6:15 | 6:30 | 6:45 | 7:00 | 7:15 | 7:30 | 7:45 | 8:00 | 8:15 | 8:30 | 8:45 | 9:00 | 9:15 | 9:30 | 9:45 | 10:00 |
|  | Annual Average Spd | 60.4 | 56.5 | 53.0 | 52.1 | 52.3 | 50.0 | 48.2 | 47.5 | 48.6 | 47.6 | 46.7 | 46.2 | 47.3 | 47.9 | 48.2 | 50.1 | 54.7 | 56.9 | 57.4 | 58.4 |
|  | MAX Spd | 64.0 | 64.0 | 68.0 | 64.0 | 66.0 | 64.0 | 64.0 | 65.0 | 66.0 | 65.0 | 65.0 | 65.0 | 65.0 | 64.0 | 63.0 | 71.0 | 64.0 | 64.0 | 64.0 | 72.0 |
|  | MIN Spd | 40.0 | 41.0 | 39.0 | 36.0 | 11.0 | 9.0 | 11.0 | 20.0 | 34.0 | 29.0 | 35.0 | 24.0 | 30.0 | 32.0 | 34.0 | 36.0 | 20.0 | 17.0 | 16.0 | 19.0 |
|  | Median Spd | 61.0 | 57.0 | 54.0 | 53.0 | 54.0 | 50.0 | 47.0 | 46.0 | 47.0 | 46.5 | 46.0 | 45.0 | 46.0 | 46.0 | 46.0 | 48.0 | 56.0 | 58.0 | 58.0 | 59.0 |
|  | 95 Percentile Spd | 64.0 | 61.0 | 59.3 | 59.0 | 59.0 | 57.0 | 56.0 | 56.0 | 57.0 | 56.3 | 54.3 | 54.3 | 56.0 | 57.3 | 57.0 | 59.0 | 60.0 | 60.0 | 60.0 | 60.0 |
|  | Coefficient of Variation | 5\% | 7\% | 10\% | 11\% | 12\% | 13\% | 13\% | 12\% | 12\% | 11\% | 11\% | 11\% | 12\% | 12\% | 12\% | 13\% | 10\% | 9\% | 9\% | 7\% |

Speed, Corridor \# 2, AM Peak, 5-10 am, Inbound Traffic Loop 202, Scottsdale Rd $-7^{\text {th }}$ Ave, WB

| AM Peak |  | STN 278, Loop 202 WB at Scottsdale Rd, Inbound |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | 5:15 | 5:30 | 5:45 | 6:00 | 6:15 | 6:30 | 6:45 | 7:00 | 7:15 | 7:30 | 7:45 | 8:00 | 8:15 | 8:30 | 8:45 | 9:00 | 9:15 | 9:30 | 9:45 | 10:00 |
|  | Annual Average Spd | 65.8 | 65.5 | 64.9 | 65.0 | 62.6 | 59.9 | 55.2 | 46.2 | 42.8 | 40.6 | 38.5 | 37.1 | 40.7 | 43.1 | 48.1 | 52.0 | 60.3 | 63.5 | 63.7 | 64.6 |
|  | MAX Spd | 68.0 | 67.0 | 67.0 | 79.0 | 67.0 | 67.0 | 79.0 | 75.0 | 69.0 | 77.0 | 69.0 | 74.0 | 76.0 | 78.0 | 68.0 | 78.0 | 68.0 | 78.0 | 67.0 | 79.0 |
|  | MIN Spd | 52.0 | 51.0 | 51.0 | 50.0 | 22.0 | 21.0 | 26.0 | 19.0 | 19.0 | 18.0 | 23.0 | 19.0 | 22.0 | 23.0 | 25.0 | 11.0 | 16.0 | 9.0 | 12.0 | 10.0 |
|  | Median Spd | 66.0 | 66.0 | 65.0 | 65.0 | 63.0 | 61.0 | 55.0 | 45.0 | 38.0 | 34.5 | 33.0 | 32.0 | 35.0 | 39.0 | 47.0 | 57.0 | 63.0 | 64.0 | 65.0 | 65.0 |
|  | 95 Percentile Spd | 67.0 | 67.0 | 66.0 | 67.0 | 65.0 | 63.0 | 63.3 | 63.3 | 62.3 | 61.5 | 64.0 | 64.0 | 63.3 | 64.0 | 64.0 | 65.0 | 66.0 | 66.0 | 66.0 | 67.0 |
|  | Coefficient of Variation | 3\% | 3\% | 3\% | 5\% | 6\% | 8\% | 12\% | 23\% | 27\% | 31\% | 31\% | 32\% | 29\% | 28\% | 24\% | 25\% | 14\% | 11\% | 8\% | 7\% |
|  |  | STN 223, Loop 202 WB at 38th St, Inbound |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | AM Peak | 5:15 | 5:30 | 5:45 | 6:00 | 6:15 | 6:30 | 6:45 | 7:00 | 7:15 | 7:30 | 7:45 | 8:00 | 8:15 | 8:30 | 8:45 | 9:00 | 9:15 | 9:30 | 9:45 | 10:00 |
|  | Annual Average Spd | 68.1 | 68.0 | 67.4 | 67.5 | 65.6 | 63.4 | 58.6 | 56.7 | 58.2 | 52.7 | 44.3 | 36.8 | 41.3 | 41.4 | 41.9 | 45.2 | 59.5 | 63.8 | 64.8 | 65.3 |
|  | MAX Spd | 70.0 | 70.0 | 69.0 | 70.0 | 69.0 | 69.0 | 69.0 | 70.0 | 69.0 | 70.0 | 69.0 | 71.0 | 69.0 | 70.0 | 76.0 | 70.0 | 70.0 | 70.0 | 70.0 | 70.0 |
|  | MIN Spd | 64.0 | 66.0 | 65.0 | 62.0 | 63.0 | 56.0 | 32.0 | 20.0 | 18.0 | 19.0 | 18.0 | 20.0 | 19.0 | 20.0 | 17.0 | 20.0 | 14.0 | 13.0 | 18.0 | 23.0 |
|  | Median Spd | 68.0 | 68.0 | 67.5 | 67.0 | 66.0 | 64.0 | 62.0 | 62.0 | 62.0 | 59.0 | 40.5 | 31.0 | 34.0 | 35.0 | 37.0 | 42.0 | 65.0 | 66.0 | 66.0 | 66.0 |
|  | 95 Percentile Spd | 69.0 | 69.0 | 69.0 | 69.0 | 67.0 | 66.0 | 65.0 | 65.0 | 64.0 | 63.0 | 62.0 | 63.0 | 63.0 | 64.0 | 64.0 | 65.0 | 67.0 | 67.0 | 67.0 | 67.3 |
|  | Coefficient of Variation | 1\% | 1\% | 1\% | 2\% | 2\% | 3\% | 14\% | 20\% | 17\% | 22\% | 28\% | 33\% | 33\% | 32\% | 32\% | 29\% | 18\% | 12\% | 9\% | 9\% |
|  |  | STN 139, I-10 WB at 16th St, Inbound |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | AM Peak | 5:15 | 5:30 | 5:45 | 6:00 | 6:15 | 6:30 | 6:45 | 7:00 | 7:15 | 7:30 | 7:45 | 8:00 | 8:15 | 8:30 | 8:45 | 9:00 | 9:15 | 9:30 | 9:45 | 10:00 |
|  | Annual Average Spd | 64.2 | 63.8 | 63.0 | 62.5 | 61.8 | 59.4 | 57.7 | 57.3 | 57.7 | 56.4 | 55.1 | 54.7 | 55.1 | 54.9 | 54.4 | 55.3 | 57.1 | 59.0 | 59.4 | 60.3 |
|  | MAX Spd | 65.0 | 65.0 | 77.0 | 66.0 | 77.0 | 65.0 | 71.0 | 66.0 | 66.0 | 66.0 | 67.0 | 67.0 | 67.0 | 66.0 | 67.0 | 67.0 | 67.0 | 67.0 | 66.0 | 73.0 |
|  | MIN Spd | 62.0 | 61.0 | 61.0 | 60.0 | 59.0 | 36.0 | 26.0 | 44.0 | 53.0 | 52.0 | 51.0 | 50.0 | 42.0 | 42.0 | 42.0 | 50.0 | 9.0 | 26.0 | 23.0 | 25.0 |
|  | Median Spd | 64.0 | 64.0 | 63.0 | 63.0 | 62.0 | 60.0 | 58.0 | 58.0 | 58.0 | 56.0 | 55.0 | 54.0 | 55.0 | 55.0 | 54.0 | 55.0 | 58.0 | 60.0 | 60.0 | 61.0 |
|  | 95 Percentile Spd | 65.0 | 65.0 | 64.0 | 64.0 | 63.3 | 61.3 | 60.3 | 60.0 | 60.0 | 58.3 | 58.0 | 58.0 | 59.0 | 59.0 | 58.3 | 59.0 | 61.0 | 61.0 | 62.0 | 62.0 |
|  | Coefficient of Variation | 1\% | 1\% | 2\% | 2\% | 3\% | 4\% | 6\% | 4\% | 4\% | 3\% | 4\% | 4\% | 5\% | 5\% | 5\% | 5\% | 9\% | 7\% | 6\% | 6\% |
|  |  | STN 078, I-10 WB at 7th Ave, Inbound |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | AM Peak | 5:15 | 5:30 | 5:45 | 6:00 | 6:15 | 6:30 | 6:45 | 7:00 | 7:15 | 7:30 | 7:45 | 8:00 | 8:15 | 8:30 | 8:45 | 9:00 | 9:15 | 9:30 | 9:45 | 10:00 |
|  | Annual Average Spd | 64.1 | 63.6 | 62.8 | 62.4 | 61.9 | 60.6 | 59.8 | 59.8 | 60.4 | 60.3 | 60.1 | 60.5 | 60.8 | 60.8 | 60.4 | 60.5 | 60.8 | 61.0 | 61.1 | 61.3 |
|  | MAX Spd | 66.0 | 66.0 | 66.0 | 66.0 | 66.0 | 66.0 | 66.0 | 66.0 | 66.0 | 78.0 | 66.0 | 66.0 | 67.0 | 66.0 | 66.0 | 66.0 | 78.0 | 66.0 | 66.0 | 65.0 |
|  | MIN Spd | 61.0 | 61.0 | 60.0 | 50.0 | 41.0 | 56.0 | 43.0 | 30.0 | 43.0 | 55.0 | 49.0 | 56.0 | 52.0 | 54.0 | 56.0 | 56.0 | 52.0 | 57.0 | 54.0 | 57.0 |
|  | Median Spd | 64.0 | 64.0 | 63.0 | 63.0 | 62.0 | 61.0 | 60.0 | 60.0 | 60.0 | 60.0 | 60.0 | 61.0 | 61.0 | 61.0 | 61.0 | 60.5 | 61.0 | 61.0 | 61.0 | 61.0 |
|  | 95 Percentile Spd | 65.0 | 65.0 | 64.0 | 63.3 | 63.0 | 62.0 | 62.0 | 62.0 | 62.0 | 62.0 | 62.0 | 62.0 | 62.0 | 62.0 | 62.0 | 62.0 | 63.0 | 63.0 | 62.3 | 63.0 |
|  | Coefficient of Variation | 1\% | 1\% | 1\% | 2\% | 3\% | 2\% | 4\% | 5\% | 3\% | 3\% | 3\% | 2\% | 2\% | 2\% | 2\% | 2\% | 3\% | 2\% | 2\% | 2\% |

Speed, Corridor \# 3, AM Peak, 5-10 am, Inbound Traffic
I-17, Peoria Rd - Buckeye Rd, SB

| AM Peak |  | STN 358, I-17 SB at Peoria Ave, Inbound |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | 5:15 | 5:30 | 5:45 | 6:00 | 6:15 | 6:30 | 6:45 | 7:00 | 7:15 | 7:30 | 7:45 | 8:00 | 8:15 | 8:30 | 8:45 | 9:00 | 9:15 | 9:30 | 9:45 | 10:00 |
|  | Annual Average Spd | 56.9 | 57.9 | 58.7 | 58.4 | 56.6 | 53.4 | 48.6 | 47.7 | 45.6 | 40.7 | 38.8 | 44.4 | 45.7 | 44.0 | 47.0 | 50.2 | 55.8 | 57.8 | 58.1 | 58.5 |
|  | MAX Spd | 60.0 | 78.0 | 79.0 | 61.0 | 59.0 | 70.0 | 72.0 | 60.0 | 70.0 | 77.0 | 68.0 | 74.0 | 78.0 | 75.0 | 67.0 | 78.0 | 78.0 | 79.0 | 78.0 | 79.0 |
|  | MIN Spd | 52.0 | 54.0 | 53.0 | 53.0 | 52.0 | 30.0 | 18.0 | 15.0 | 20.0 | 9.0 | 9.0 | 16.0 | 11.0 | 12.0 | 13.0 | 14.0 | 11.0 | 27.0 | 42.0 | 42.0 |
|  | Median Spd | 57.0 | 58.0 | 59.0 | 59.0 | 57.0 | 55.0 | 48.0 | 48.0 | 46.0 | 41.0 | 38.0 | 44.0 | 46.0 | 42.5 | 48.0 | 52.5 | 58.0 | 58.0 | 58.0 | 58.0 |
|  | 95 Percentile Spd | 58.3 | 59.0 | 60.0 | 60.0 | 58.0 | 57.0 | 57.0 | 57.0 | 57.0 | 57.3 | 57.3 | 58.3 | 58.0 | 58.0 | 58.0 | 58.0 | 59.0 | 59.0 | 59.0 | 59.3 |
|  | Coefficient of Variation | 2\% | 3\% | 4\% | 2\% | 2\% | 9\% | 14\% | 15\% | 19\% | 29\% | 30\% | 23\% | 24\% | 26\% | 21\% | 18\% | 15\% | 7\% | 5\% | 6\% |
|  |  | STN 367, l-17 SB at Glendale Ave, Inbound |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AM Peak |  | 5:15 | 5:30 | 5:45 | 6:00 | 6:15 | 6:30 | 6:45 | 7:00 | 7:15 | 7:30 | 7:45 | 8:00 | 8:15 | 8:30 | 8:45 | 9:00 | 9:15 | 9:30 | 9:45 | 10:00 |
|  | Annual Average Spd | 56.8 | 55.7 | 51.4 | 48.4 | 50.2 | 45.9 | 40.5 | 38.8 | 37.8 | 38.0 | 35.7 | 33.3 | 34.8 | 38.6 | 41.8 | 46.3 | 52.7 | 55.0 | 55.2 | 55.9 |
| 읃 | MAX Spd | 61.0 | 61.0 | 75.0 | 72.0 | 68.0 | 69.0 | 78.0 | 58.0 | 58.0 | 72.0 | 71.0 | 74.0 | 78.0 | 77.0 | 59.0 | 59.0 | 72.0 | 74.0 | 59.0 | 60.0 |
| $\left\|\begin{array}{c} \text { 멩 } \end{array}\right\|$ | MIN Spd | 53.0 | 36.0 | 9.0 | 6.0 | 8.0 | 8.0 | 8.0 | 15.0 | 11.0 | 15.0 | 12.0 | 12.0 | 17.0 | 12.0 | 12.0 | 15.0 | 19.0 | 27.0 | 32.0 | 47.0 |
| $\begin{array}{\|c\|} \hline \stackrel{0}{n} \end{array}$ | Median Spd | 56.0 | 55.5 | 54.5 | 54.0 | 53.0 | 48.0 | 41.0 | 39.0 | 37.5 | 37.5 | 34.0 | 31.0 | 33.0 | 36.5 | 41.0 | 47.0 | 54.0 | 55.0 | 55.0 | 55.0 |
| $\bigcirc$ | 95 Percentile Spd | 60.0 | 59.0 | 59.0 | 59.0 | 58.0 | 56.0 | 52.0 | 52.3 | 53.0 | 52.0 | 52.5 | 52.0 | 57.0 | 57.3 | 57.0 | 58.0 | 59.0 | 59.0 | 59.0 | 59.0 |
| - | Coefficient of Variation | 3\% | 5\% | 17\% | 23\% | 19\% | 19\% | 22\% | 24\% | 27\% | 23\% | 25\% | 29\% | 29\% | 26\% | 21\% | 18\% | 12\% | 8\% | 7\% | 4\% |
|  |  | STN 376, I-17 SB at Indian School Rd, Inbound |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AM Peak |  | 5:15 | 5:30 | 5:45 | 6:00 | 6:15 | 6:30 | 6:45 | 7:00 | 7:15 | 7:30 | 7:45 | 8:00 | 8:15 | 8:30 | 8:45 | 9:00 | 9:15 | 9:30 | 9:45 | 10:00 |
|  | Annual Average Spd | 57.7 | 55.6 | 47.2 | 42.6 | 47.6 | 46.8 | 43.3 | 42.8 | 46.5 | 46.9 | 42.0 | 43.0 | 45.5 | 49.3 | 52.0 | 55.7 | 57.0 | 57.5 | 58.6 | 58.7 |
|  | MAX Spd | 79.0 | 78.0 | 72.0 | 77.0 | 71.0 | 76.0 | 76.0 | 77.0 | 70.0 | 79.0 | 64.0 | 79.0 | 77.0 | 64.0 | 61.0 | 77.0 | 74.0 | 78.0 | 79.0 | 79.0 |
|  | MIN Spd | 47.0 | 7.0 | 23.0 | 10.0 | 18.0 | 17.0 | 8.0 | 8.0 | 11.0 | 18.0 | 15.0 | 21.0 | 24.0 | 22.0 | 14.0 | 31.0 | 23.0 | 32.0 | 23.0 | 49.0 |
|  | Median Spd | 59.0 | 57.0 | 45.0 | 38.0 | 46.0 | 44.0 | 41.0 | 40.0 | 46.0 | 45.0 | 41.0 | 39.0 | 43.0 | 49.0 | 53.0 | 56.0 | 58.0 | 58.0 | 58.0 | 59.0 |
|  | 95 Percentile Spd | 60.0 | 60.0 | 59.0 | 59.0 | 59.0 | 58.0 | 57.0 | 57.0 | 57.0 | 61.5 | 56.0 | 60.0 | 57.0 | 58.0 | 58.0 | 59.0 | 60.0 | 60.0 | 60.0 | 60.0 |
|  | Coefficient of Variation | 5\% | 14\% | 20\% | 26\% | 18\% | 20\% | 26\% | 28\% | 21\% | 21\% | 22\% | 26\% | 19\% | 14\% | 13\% | 8\% | 9\% | 8\% | 8\% | 4\% |
|  |  | STN 118, I-17 SB at Buckeye Rd, Inbound |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AM Peak |  | 5:15 | 5:30 | 5:45 | 6:00 | 6:15 | 6:30 | 6:45 | 7:00 | 7:15 | 7:30 | 7:45 | 8:00 | 8:15 | 8:30 | 8:45 | 9:00 | 9:15 | 9:30 | 9:45 | 10:00 |
|  | Annual Average Spd | 56.6 | 53.6 | 48.9 | 45.2 | 45.9 | 45.2 | 42.6 | 43.4 | 46.3 | 47.1 | 47.7 | 49.4 | 52.2 | 53.7 | 55.1 | 56.4 | 57.4 | 57.9 | 58.3 | 58.6 |
|  | MAX Spd | 63.0 | 62.0 | 62.0 | 61.0 | 61.0 | 59.0 | 61.0 | 62.0 | 61.0 | 63.0 | 63.0 | 64.0 | 63.0 | 64.0 | 64.0 | 63.0 | 64.0 | 63.0 | 63.0 | 63.0 |
|  | MIN Spd | 25.0 | 15.0 | 13.0 | 11.0 | 10.0 | 8.0 | 7.0 | 9.0 | 8.0 | 8.0 | 9.0 | 9.0 | 9.0 | 10.0 | 16.0 | 17.0 | 12.0 | 20.0 | 14.0 | 17.0 |
|  | Median Spd | 57.0 | 55.0 | 51.0 | 49.0 | 49.0 | 52.0 | 52.0 | 54.0 | 55.0 | 56.0 | 56.0 | 58.0 | 58.0 | 58.0 | 58.0 | 59.0 | 59.0 | 59.0 | 59.0 | 60.0 |
|  | 95 Percentile Spd | 61.0 | 58.0 | 56.0 | 55.0 | 58.0 | 57.0 | 57.0 | 58.0 | 59.0 | 59.0 | 59.0 | 59.0 | 59.0 | 59.3 | 60.0 | 60.0 | 61.0 | 61.0 | 61.0 | 61.0 |
|  | Coefficient of Variation | 9\% | 10\% | 14\% | 22\% | 26\% | 29\% | 38\% | 39\% | 36\% | 36\% | 34\% | 32\% | 25\% | 20\% | 15\% | 12\% | 11\% | 10\% | 9\% | 9\% |

Speed, Corridor \# 4, PM Peak, 2-7 pm, Outbound Traffic I-10, Van Buren Rd to Warner Rd, SB

| PM Peak |  | STN 149, I-10 EB at Van Buren Rd, Outbound |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | 14:15 | 14:30 | 14:45 | 15:00 | 15:15 | 15:30 | 15:45 | 16:00 | 16:15 | 16:30 | 16:45 | 17:00 | 17:15 | 17:30 | 17:45 | 18:00 | 18:15 | 18:30 | 18:45 | 19:00 |
|  | Annual Average Spd | 52.1 | 50.1 | 37.9 | 29.9 | 30.2 | 29.2 | 35.7 | 33.9 | 33.6 | 28.9 | 24.6 | 22.8 | 22.0 | 21.7 | 21.2 | 25.1 | 31.0 | 34.3 | 36.0 | 36.7 |
| 읃 | MAX Spd | 64.0 | 63.0 | 63.0 | 63.0 | 62.0 | 63.0 | 65.0 | 65.0 | 66.0 | 64.0 | 63.0 | 59.0 | 62.0 | 61.0 | 64.0 | 63.0 | 65.0 | 67.0 | 72.0 | 67.0 |
| 잉 | MIN Spd | 50.0 | 48.0 | 33.0 | 24.0 | 24.0 | 22.0 | 8.0 | 10.0 | 9.0 | 8.0 | 7.0 | 7.0 | 6.0 | 5.0 | 6.0 | 7.0 | 8.0 | 9.0 | 12.0 | 11.0 |
| in | Median Spd | 50.0 | 48.0 | 33.0 | 24.0 | 24.0 | 23.0 | 31.0 | 27.5 | 28.0 | 26.0 | 23.0 | 21.0 | 17.0 | 18.0 | 16.5 | 24.5 | 27.0 | 29.0 | 33.5 | 34.0 |
| $\bigcirc$ | 95 Percentile Spd | 62.0 | 60.0 | 61.3 | 59.5 | 59.3 | 60.0 | 61.0 | 60.0 | 60.3 | 54.3 | 47.0 | 47.0 | 45.0 | 46.0 | 47.3 | 52.0 | 59.0 | 61.0 | 61.3 | 62.0 |
| - | Coefficient of Variation | 9\% | 9\% | 28\% | $43 \%$ | 45\% | 48\% | 41\% | 39\% | $39 \%$ | 43\% | 49\% | 51\% | 54\% | 56\% | 60\% | 54\% | 47\% | 40\% | 38\% | 36\% |
|  |  | STN 040, l-10 EB at 24th St, Outbound |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| PM Peak |  | 14:15 | 14:30 | 14:45 | 15:00 | 15:15 | 15:30 | 15:45 | 16:00 | 16:15 | 16:30 | 16:45 | 17:00 | 17:15 | 17:30 | 17:45 | 18:00 | 18:15 | 18:30 | 18:45 | 19:00 |
|  | Annual Average S | 52.9 | 52.5 | 51.6 | 50.0 | 44.7 | 35.9 | 30.4 | 24.3 | 21.5 | 16.0 | 14.9 | 13.0 | 13.0 | 11.1 | 12.1 | 13.7 | 18.6 | 24.9 | 37.5 | 49.4 |
| 륻 | MAX Spd | 67.0 | 67.0 | 67.0 | 67.0 | 66.0 | 67.0 | 66.0 | 67.0 | 67.0 | 66.0 | 67.0 | 67.0 | 66.0 | 66.0 | 65.0 | 65.0 | 64.0 | 63.0 | 63.0 | 72.0 |
| $\bigcirc$ | MIN Spd | 44.0 | 40.0 | 23.0 | 12.0 | 7.0 | 9.0 | 10.0 | 9.0 | 9.0 | 8.0 | 7.0 | 8.0 | 7.0 | 7.0 | 8.0 | 8.0 | 8.0 | 6.0 | 6.0 | 7.0 |
| $\begin{array}{\|c\|} \hline 0.0 \\ \dot{0} \mid \end{array}$ | Median Spd | 51.0 | 51.0 | 51.0 | 50.0 | 45.0 | 30.0 | 26.0 | 21.0 | 18.0 | 14.0 | 13.0 | 11.0 | 11.0 | 9.0 | 10.0 | 11.0 | 14.0 | 18.0 | 34.0 | 50.0 |
| $\bigcirc$ | 95 Percentile Spd | 63.0 | 62.0 | 61.0 | 61.0 | 60.0 | 51.3 | 49.3 | 41.3 | 43.0 | 22.3 | 19.0 | 17.0 | 17.5 | 14.0 | 16.5 | 22.3 | 50.3 | 53.0 | 54.0 | 62.0 |
| - | Coefficient of Variation | 8\% | 8\% | 9\% | 15\% | 20\% | 28\% | 29\% | 34\% | 40\% | 46\% | 47\% | 58\% | 63\% | 70\% | 66\% | 66\% | 63\% | 58\% | 32\% | 17\% |
|  |  | STN 064, I-10 EB at Broadway Rd, Outbound |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| PM Peak |  | 14:15 | 14:30 | 14:45 | 15:00 | 15:15 | 15:30 | 15:45 | 16:00 | 16:15 | 16:30 | 16:45 | 17:00 | 17:15 | 17:30 | 17:45 | 18:00 | 18:15 | 18:30 | 18:45 | 19:00 |
|  | Annual Average S | 59.2 | 58.3 | 53.3 | 43.6 | 39.2 | 35.3 | 33.4 | 33.2 | 31.9 | 30.5 | 30.7 | 29.3 | 29.0 | 28.3 | 28.8 | 27.3 | 28.2 | 29.2 | 31.2 | 34.0 |
| ¢ | MAX Spd | 73.0 | 79.0 | 77.0 | 76.0 | 75.0 | 68.0 | 63.0 | 70.0 | 64.0 | 65.0 | 74.0 | 64.0 | 64.0 | 57.0 | 64.0 | 67.0 | 67.0 | 72.0 | 79.0 | 62.0 |
| $\bigcirc$ | MIN Spd | 36.0 | 31.0 | 13.0 | 11.0 | 31.0 | 12.0 | 25.0 | 13.0 | 24.0 | 13.0 | 24.0 | 18.0 | 14.0 | 20.0 | 21.0 | 21.0 | 21.0 | 18.0 | 19.0 | 23.0 |
| 軆 | Median Spd | 59.0 | 58.0 | 52.0 | 41.0 | 36.0 | 33.0 | 32.0 | 31.0 | 30.0 | 29.0 | 29.0 | 28.0 | 27.0 | 27.0 | 26.0 | 25.0 | 26.0 | 27.0 | 29.0 | 32.0 |
| $\bigcirc$ | 95 Percentile Spd | 61.0 | 60.0 | 59.3 | 60.3 | 59.0 | 51.0 | 48.3 | 57.8 | 47.3 | 47.5 | 48.0 | 48.0 | 48.0 | 43.3 | 51.0 | 46.8 | 48.0 | 49.0 | 48.3 | 52.5 |
| - | Coefficient of Variation | 4\% | 6\% | 10\% | 18\% | 22\% | 21\% | 17\% | 25\% | 20\% | 21\% | 22\% | 22\% | 25\% | 20\% | 29\% | 29\% | 28\% | 27\% | 25\% | 21\% |
|  |  | STN 401, l-10 EB at Elliot Rd, Outbound |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| PM Peak |  | 14:15 | 14:30 | 14:45 | 15:00 | 15:15 | 15:30 | 15:45 | 16:00 | 16:15 | 16:30 | 16:45 | 17:00 | 17:15 | 17:30 | 17:45 | 18:00 | 18:15 | 18:30 | 18:45 | 19:00 |
|  | Annual Average Spd | 63.2 | 62.7 | 62.6 | 61.9 | 61.5 | 60.2 | 58.9 | 57.1 | 55.4 | 52.4 | 50.2 | 48.8 | 47.5 | 45.7 | 45.6 | 46.3 | 49.2 | 49.4 | 52.6 | 56.5 |
|  | MAX Spd | 67.0 | 67.0 | 66.0 | 66.0 | 66.0 | 65.0 | 67.0 | 67.0 | 67.0 | 67.0 | 67.0 | 68.0 | 66.0 | 67.0 | 67.0 | 67.0 | 66.0 | 67.0 | 66.0 | 66.0 |
|  | MIN Spd | 58.0 | 51.0 | 56.0 | 14.0 | 14.0 | 18.0 | 27.0 | 32.0 | 32.0 | 31.0 | 33.0 | 31.0 | 31.0 | 31.0 | 27.0 | 27.0 | 28.0 | 24.0 | 24.0 | 22.0 |
|  | Median Spd | 63.0 | 63.0 | 63.0 | 62.0 | 62.0 | 61.0 | 60.0 | 59.0 | 58.0 | 55.0 | 51.5 | 50.0 | 46.0 | 45.0 | 45.0 | 45.0 | 50.5 | 49.5 | 55.0 | 58.0 |
|  | 95 Percentile Spd | 64.0 | 64.0 | 64.0 | 64.0 | 64.0 | 63.0 | 62.0 | 62.0 | 62.0 | 61.0 | 60.0 | 59.3 | 59.0 | 58.0 | 58.0 | 58.0 | 59.0 | 60.3 | 62.0 | 64.0 |
|  | Coefficient of Variation | 1\% | 2\% | 2\% | 7\% | 7\% | 7\% | 9\% | 10\% | 12\% | 16\% | 16\% | 17\% | 19\% | 19\% | 19\% | 19\% | 17\% | 17\% | 15\% | 13\% |
|  |  | STN 406, I-10 EB at Warner Rd, Outbound |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| PM Peak |  | 14:15 | 14:30 | 14:45 | 15:00 | 15:15 | 15:30 | 15:45 | 16:00 | 16:15 | 16:30 | 16:45 | 17:00 | 17:15 | 17:30 | 17:45 | 18:00 | 18:15 | 18:30 | 18:45 | 19:00 |
|  | Annual Average Spd | 64.9 | 64.4 | 64.0 | 62.9 | 61.4 | 59.3 | 58.2 | 55.6 | 54.5 | 51.5 | 50.0 | 49.1 | 48.1 | 46.6 | 46.5 | 46.8 | 48.5 | 48.9 | 51.0 | 54.6 |
|  | MAX Spd | 70.0 | 69.0 | 68.0 | 68.0 | 69.0 | 67.0 | 68.0 | 69.0 | 69.0 | 69.0 | 70.0 | 69.0 | 69.0 | 70.0 | 69.0 | 68.0 | 69.0 | 69.0 | 69.0 | 68.0 |
|  | MIN Spd | 57.0 | 53.0 | 50.0 | 46.0 | 41.0 | 35.0 | 35.0 | 30.0 | 31.0 | 29.0 | 32.0 | 30.0 | 30.0 | 29.0 | 29.0 | 29.0 | 24.0 | 20.0 | 21.0 | 19.0 |
|  | Median Spd | 65.0 | 65.0 | 64.0 | 64.0 | 62.0 | 61.0 | 60.0 | 58.0 | 56.0 | 54.0 | 52.0 | 51.0 | 51.0 | 49.0 | 49.0 | 49.0 | 50.0 | 50.0 | 52.0 | 56.0 |
|  | 95 Percentile Spd | 66.0 | 66.0 | 66.0 | 65.0 | 65.0 | 64.0 | 63.0 | 62.0 | 61.3 | 60.0 | 59.0 | 58.3 | 58.0 | 57.3 | 56.3 | 56.3 | 58.0 | 58.3 | 62.0 | 64.0 |
|  | Coefficient of Variation | 2\% | 3\% | 3\% | 5\% | 6\% | 8\% | 9\% | 11\% | 12\% | 15\% | 16\% | 16\% | 17\% | 18\% | 17\% | 16\% | 15\% | 15\% | 16\% | 15\% |

Speed，Corridor \＃5，PM Peak，2－7 pm，Outbound Traffic
US－60，Rural Rd to Gilbert Rd，EB

| PM Peak |  | STN 435，US－60 EB at Rural Rd，Outbound |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | 14：15 | 14：30 | 14：45 | 15：00 | 15：15 | 15：30 | 15：45 | 16：00 | 16：15 | 16：30 | 16：45 | 17：00 | 17：15 | 17：30 | 17：45 | 18：00 | 18：15 | 18：30 | 18：45 | 19：00 |
|  | Annual Average Spd | 57.4 | 56.6 | 56.7 | 53.0 | 51.3 | 49.0 | 48.8 | 47.9 | 47.9 | 47.9 | 47.0 | 47.1 | 47.4 | 47.4 | 47.1 | 48.4 | 50.6 | 51.2 | 51.9 | 53.5 |
|  | MAX Spd | 61.0 | 61.0 | 79.0 | 77.0 | 60.0 | 59.0 | 60.0 | 59.0 | 59.0 | 59.0 | 60.0 | 60.0 | 62.0 | 59.0 | 59.0 | 59.0 | 60.0 | 60.0 | 60.0 | 61.0 |
|  | MIN Spd | 41.0 | 39.0 | 26.0 | 26.0 | 30.0 | 28.0 | 28.0 | 27.0 | 25.0 | 28.0 | 28.0 | 27.0 | 26.0 | 27.0 | 24.0 | 24.0 | 28.0 | 24.0 | 21.0 | 26.0 |
|  | Median Spd | 58.0 | 58.0 | 57.0 | 53.0 | 51.5 | 48.0 | 48.0 | 47.0 | 46.5 | 47.0 | 46.0 | 46.0 | 46.0 | 46.0 | 46.0 | 47.0 | 50.0 | 50.0 | 51.0 | 54.0 |
|  | 95 Percentile Spd | 60.0 | 60.0 | 60.0 | 60.0 | 58.0 | 58.0 | 58.0 | 57.3 | 58.0 | 56.0 | 56.0 | 57.3 | 57.0 | 56.3 | 57.0 | 58.0 | 59.0 | 59.0 | 59.0 | 59.0 |
|  | Coefficient of Variation | 7\％ | 7\％ | 9\％ | 11\％ | 12\％ | 12\％ | 13\％ | 13\％ | 13\％ | 11\％ | 12\％ | 12\％ | 13\％ | 12\％ | 13\％ | 13\％ | 13\％ | 13\％ | 13\％ | 11\％ |
|  |  | STN 444，US－60 EB at Dobson Rd，Outbound |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| PM Peak |  | 14：15 | 14：30 | 14：45 | 15：00 | 15：15 | 15：30 | 15：45 | 16：00 | 16：15 | 16：30 | 16：45 | 17：00 | 17：15 | 17：30 | 17：45 | 18：00 | 18：15 | 18：30 | 18：45 | 19：00 |
|  | Annual Average S | 58.4 | 59.0 | 58.1 | 58.0 | 56.7 | 56.7 | 56.2 | 56.2 | 56.8 | 56.6 | 56.8 | 56.9 | 57.0 | 56.8 | 56.8 | 56.9 | 56.8 | 56.7 | 56.6 | 56.3 |
|  | MAX Spd | 72.0 | 74.0 | 73.0 | 79.0 | 59.0 | 59.0 | 59.0 | 59.0 | 78.0 | 59.0 | 59.0 | 59.0 | 60.0 | 59.0 | 59.0 | 59.0 | 59.0 | 59.0 | 59.0 | 59.0 |
|  | MIN Spd | 53.0 | 52.0 | 43.0 | 25.0 | 37.0 | 37.0 | 23.0 | 12.0 | 27.0 | 30.0 | 45.0 | 51.0 | 50.0 | 45.0 | 33.0 | 49.0 | 55.0 | 55.0 | 51.0 | 54.0 |
|  | Median Spd | 58.0 | 58.0 | 58.0 | 58.0 | 57.0 | 57.0 | 57.0 | 57.0 | 57.0 | 57.0 | 57.0 | 57.0 | 57.0 | 57.0 | 57.0 | 57.0 | 57.0 | 57.0 | 56.0 | 56.0 |
|  | 95 Percentile Spd | 59.0 | 71.0 | 59.0 | 61.5 | 58.0 | 58.0 | 58.0 | 58.0 | 58.0 | 58.0 | 58.0 | 58.0 | 58.0 | 58.0 | 58.0 | 58.0 | 58.0 | 58.0 | 58.0 | 58.0 |
|  | Coefficient of Variation | 5\％ | 7\％ | 5\％ | 7\％ | 4\％ | 4\％ | 7\％ | 8\％ | 5\％ | 5\％ | 2\％ | 2\％ | 2\％ | 3\％ | 4\％ | 2\％ | 2\％ | 2\％ | 2\％ | 2\％ |
|  |  | STN 453，US－60 EB at Mesa Dr，Outbound |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| PM Peak |  | 14：15 | 14：30 | 14：45 | 15：00 | 15：15 | 15：30 | 15：45 | 16：00 | 16：15 | 16：30 | 16：45 | 17：00 | 17：15 | 17：30 | 17：45 | 18：00 | 18：15 | 18：30 | 18：45 | 19：00 |
|  | Annual Average Spd | 63.8 | 63.9 | 64.5 | 64.3 | 63.1 | 62.5 | 62.7 | 62.4 | 62.8 | 62.5 | 62.3 | 62.2 | 61.8 | 61.2 | 60.8 | 61.0 | 62.1 | 62.5 | 62.3 | 62.4 |
|  | MAX Spd | 79.0 | 78.0 | 79.0 | 78.0 | 67.0 | 68.0 | 73.0 | 68.0 | 68.0 | 68.0 | 68.0 | 67.0 | 68.0 | 68.0 | 67.0 | 67.0 | 67.0 | 67.0 | 67.0 | 67.0 |
|  | MIN Spd | 54.0 | 19.0 | 39.0 | 42.0 | 50.0 | 23.0 | 33.0 | 38.0 | 52.0 | 45.0 | 40.0 | 38.0 | 36.0 | 33.0 | 32.0 | 25.0 | 36.0 | 57.0 | 54.0 | 59.0 |
|  | Median Spd | 64.0 | 64.0 | 64.0 | 64.0 | 63.0 | 63.0 | 63.0 | 63.0 | 63.0 | 63.0 | 62.0 | 63.0 | 62.0 | 62.0 | 62.0 | 62.0 | 62.0 | 62.0 | 62.0 | 62.0 |
|  | 95 Percentile Spd | 66.0 | 66.0 | 67.3 | 67.0 | 66.0 | 66.0 | 66.0 | 67.0 | 67.0 | 67.0 | 67.0 | 66.0 | 66.0 | 65.0 | 65.3 | 66.0 | 65.3 | 65.0 | 65.0 | 65.3 |
|  | Coefficient of Variation | 3\％ | 6\％ | 6\％ | 5\％ | 3\％ | 7\％ | 5\％ | 6\％ | 3\％ | 5\％ | 6\％ | 6\％ | 7\％ | 9\％ | 10\％ | 9\％ | 5\％ | 2\％ | 3\％ | 2\％ |
|  |  | STN 459，US－60 EB at Gilbert Rd，Outbound |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| PM Peak |  | 14：15 | 14：30 | 14：45 | 15：00 | 15：15 | 15：30 | 15：45 | 16：00 | 16：15 | 16：30 | 16：45 | 17：00 | 17：15 | 17：30 | 17：45 | 18：00 | 18：15 | 18：30 | 18：45 | 19：00 |
|  | Annual Average Spd | 54.3 | 54.6 | 53.9 | 54.0 | 46.3 | 43.5 | 41.4 | 44.3 | 42.0 | 38.9 | 37.7 | 35.9 | 35.4 | 33.8 | 32.1 | 36.2 | 41.7 | 51.4 | 53.1 | 52.7 |
|  | MAX Spd | 57.0 | 57.0 | 57.0 | 73.0 | 67.0 | 74.0 | 57.0 | 57.0 | 57.0 | 56.0 | 77.0 | 64.0 | 60.0 | 77.0 | 56.0 | 74.0 | 56.0 | 75.0 | 75.0 | 56.0 |
|  | MIN Spd | 15.0 | 47.0 | 25.0 | 27.0 | 23.0 | 26.0 | 16.0 | 19.0 | 24.0 | 23.0 | 20.0 | 22.0 | 20.0 | 26.0 | 21.0 | 23.0 | 21.0 | 22.0 | 11.0 | 12.0 |
|  | Median Spd | 54.0 | 54.0 | 53.0 | 53.0 | 42.0 | 40.0 | 37.0 | 43.0 | 40.0 | 35.0 | 33.0 | 32.0 | 31.0 | 30.0 | 29.0 | 32.0 | 39.0 | 53.0 | 54.0 | 53.0 |
|  | 95 Percentile Spd | 56.0 | 56.0 | 56.0 | 56.0 | 56.0 | 56.0 | 55.0 | 55.0 | 55.0 | 55.0 | 55.0 | 55.0 | 55.0 | 54.0 | 55.0 | 55.0 | 55.0 | 56.0 | 56.0 | 55.3 |
|  | Coefficient of Variation | 6\％ | 2\％ | 6\％ | 8\％ | 16\％ | 19\％ | 22\％ | 18\％ | 20\％ | 23\％ | 27\％ | 26\％ | 27\％ | 26\％ | 27\％ | 27\％ | 21\％ | 15\％ | 11\％ | 10\％ |

Speed，Corridor \＃6，PM Peak，2－7 pm，Outbound Traffic
SR－51 McDowell Rd to Shea Blvd，NB
STN 203，SR－51 NB at McDowell Rd，outbound

| PM Peak |  | STN 203，SR－51 NB at McDowell Rd，Outbound |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | 14：15 | 14：30 | 14：45 | 15：00 | 15：15 | 15：30 | 15：45 | 16：00 | 16：15 | 16：30 | 16：45 | 17：00 | 17：15 | 17：30 | 17：45 | 18：00 | 18：15 | 18：30 | 18：45 | 19：00 |
|  | Annual Average Spd | 64.0 | 63.9 | 64.0 | 63.8 | 63.7 | 63.5 | 63.0 | 60.6 | 59.8 | 52.3 | 48.8 | 46.5 | 45.4 | 43.5 | 41.9 | 47.9 | 58.6 | 61.5 | 62.7 | 63.0 |
| $\overline{⿳ 亠 口 冋 口 \mid ~}$ | MAX Spd | 66.0 | 66.0 | 66.0 | 66.0 | 66.0 | 65.0 | 65.0 | 65.0 | 65.0 | 79.0 | 65.0 | 65.0 | 65.0 | 79.0 | 79.0 | 65.0 | 69.0 | 66.0 | 66.0 | 65.0 |
| $\bigcirc$ | MIN Spd | 62.0 | 62.0 | 62.0 | 62.0 | 62.0 | 60.0 | 48.0 | 34.0 | 25.0 | 24.0 | 30.0 | 24.0 | 30.0 | 24.0 | 23.0 | 23.0 | 28.0 | 36.0 | 32.0 | 35.0 |
| $\left.\begin{array}{\|c\|} \stackrel{\rightharpoonup}{0} \\ \end{array} \right\rvert\,$ | Median Spd | 64.0 | 64.0 | 64.0 | 64.0 | 64.0 | 64.0 | 63.0 | 63.0 | 62.0 | 53.0 | 46.0 | 43.0 | 40.0 | 39.0 | 37.0 | 48.0 | 62.0 | 63.0 | 63.0 | 63.0 |
| $\bigcirc$ | 95 Percentile Spd | 65.0 | 65.0 | 65.0 | 65.0 | 65.0 | 65.0 | 65.0 | 64.3 | 64.0 | 63.0 | 64.0 | 63.0 | 64.0 | 63.0 | 63.3 | 64.0 | 65.0 | 65.0 | 65.0 | 65.0 |
| － | Coefficient of Variation | 1\％ | 1\％ | 1\％ | 1\％ | 1\％ | 1\％ | 3\％ | 10\％ | 11\％ | 17\％ | 20\％ | 21\％ | 24\％ | 24\％ | 27\％ | 26\％ | 14\％ | 9\％ | 5\％ | 4\％ |
|  |  | STN 209，SR－51 NB at Indian School Rd，Outbound |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| PM Peak |  | 14：15 | 14：30 | 14：45 | 15：00 | 15：15 | 15：30 | 15：45 | 16：00 | 16：15 | 16：30 | 16：45 | 17：00 | 17：15 | 17：30 | 17：45 | 18：00 | 18：15 | 18：30 | 18：45 | 19：00 |
|  | Annual Average Spd | 65.5 | 65.7 | 65.8 | 65.8 | 64.9 | 64.5 | 64.3 | 63.0 | 62.1 | 58.8 | 55.1 | 52.7 | 50.9 | 46.7 | 45.2 | 49.2 | 56.5 | 61.9 | 63.6 | 64.3 |
| $\overline{⿳ 亠 口 冋 口 木 \mid}$ | MAX Spd | 67.0 | 67.0 | 67.0 | 68.0 | 67.0 | 67.0 | 67.0 | 67.0 | 66.0 | 66.0 | 66.0 | 79.0 | 66.0 | 65.0 | 74.0 | 70.0 | 67.0 | 68.0 | 68.0 | 67.0 |
| \％ | MIN Spd | 64.0 | 64.0 | 63.0 | 64.0 | 50.0 | 46.0 | 56.0 | 50.0 | 36.0 | 32.0 | 22.0 | 26.0 | 23.0 | 26.0 | 28.0 | 27.0 | 25.0 | 21.0 | 23.0 | 27.0 |
| $\|\stackrel{0}{n}\|$ | Median Spd | 66.0 | 66.0 | 66.0 | 66.0 | 65.0 | 65.0 | 64.0 | 64.0 | 63.0 | 60.0 | 55.0 | 52.0 | 51.0 | 47.0 | 44.5 | 49.0 | 60.0 | 64.0 | 65.0 | 65.0 |
| $\bigcirc$ | 95 Percentile Spd | 67.0 | 67.0 | 67.0 | 67.0 | 66.0 | 66.0 | 66.0 | 65.0 | 65.0 | 64.0 | 64.0 | 63.0 | 63.3 | 61.0 | 63.3 | 64.3 | 65.0 | 66.0 | 66.0 | 66.0 |
| － | Coefficient of Variation | 1\％ | 1\％ | 1\％ | 1\％ | 2\％ | 3\％ | 2\％ | 4\％ | 7\％ | 9\％ | 12\％ | $13 \%$ | 14\％ | 16\％ | 17\％ | 16\％ | 15\％ | 10\％ | 8\％ | 6\％ |
|  |  | STN 313，SR－51 NB at Glendale Rd，Outbound |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| PM Peak |  | 14：15 | 14：30 | 14：45 | 15：00 | 15：15 | 15：30 | 15：45 | 16：00 | 16：15 | 16：30 | 16：45 | 17：00 | 17：15 | 17：30 | 17：45 | 18：00 | 18：15 | 18：30 | 18：45 | 19：00 |
|  | Annual Average Spd | 67.8 | 67.8 | 67.9 | 68.1 | 68.1 | 68.1 | 67.9 | 67.6 | 67.1 | 66.4 | 66.0 | 65.5 | 65.1 | 63.6 | 62.9 | 63.6 | 65.2 | 66.4 | 67.0 | 67.2 |
| $\overline{\bar{\xi}} \mid$ | MAX Spd | 70.0 | 71.0 | 70.0 | 70.0 | 70.0 | 70.0 | 70.0 | 70.0 | 70.0 | 69.0 | 69.0 | 69.0 | 70.0 | 70.0 | 69.0 | 71.0 | 69.0 | 69.0 | 71.0 | 71.0 |
| $\ddot{0}$ | MIN Spd | 58.0 | 54.0 | 60.0 | 66.0 | 65.0 | 65.0 | 61.0 | 56.0 | 23.0 | 21.0 | 21.0 | 28.0 | 28.0 | 26.0 | 51.0 | 39.0 | 29.0 | 30.0 | 40.0 | 52.0 |
| $\dot{0} \mid$ | Median Spd | 68.0 | 68.0 | 68.0 | 68.0 | 68.0 | 68.0 | 68.0 | 68.0 | 68.0 | 67.0 | 67.0 | 67.0 | 67.0 | 66.0 | 65.0 | 66.0 | 67.0 | 67.0 | 68.0 | 67.0 |
| $\bigcirc$ | 95 Percentile Spd | 69.0 | 69.0 | 69.0 | 69.0 | 69.0 | 69.0 | 69.0 | 69.0 | 69.0 | 69.0 | 68.0 | 68.0 | 68.0 | 68.0 | 68.0 | 68.0 | 68.0 | 68.3 | 69.0 | 68.0 |
| $\stackrel{\sim}{\sim}$ | Coefficient of Variation | 2\％ | 2\％ | 1\％ | 1\％ | 1\％ | 1\％ | 1\％ | 2\％ | 6\％ | 7\％ | 9\％ | 7\％ | 7\％ | 9\％ | 8\％ | 8\％ | 7\％ | 7\％ | 5\％ | 2\％ |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| PM Peak |  | STN 325，SR－51 NB at Shea Blvd，Outbound |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Annual Average Spd | 69.7 | 69.1 | 68.9 | 67.6 | 67.6 | 65.7 | 65.6 | 63.4 | 62.6 | 56.7 | 54.2 | 51.1 | 50.2 | 48.3 | 48.0 | 48.1 | 50.9 | 57.0 | 64.7 | 68.2 |
|  | MAX Spd | 73.0 | 74.0 | 73.0 | 73.0 | 74.0 | 74.0 | 73.0 | 74.0 | 73.0 | 73.0 | 74.0 | 73.0 | 73.0 | 73.0 | 72.0 | 72.0 | 73.0 | 72.0 | 72.0 | 73.0 |
|  | MIN Spd | 50.0 | 66.0 | 63.0 | 37.0 | 38.0 | 42.0 | 13.0 | 13.0 | 31.0 | 35.0 | 36.0 | 36.0 | 27.0 | 32.0 | 33.0 | 29.0 | 33.0 | 33.0 | 30.0 | 49.0 |
|  | Median Spd | 70.0 | 69.0 | 69.0 | 68.0 | 68.0 | 66.0 | 66.0 | 65.0 | 64.0 | 58.5 | 51.0 | 49.0 | 48.0 | 47.0 | 47.0 | 47.0 | 48.0 | 57.0 | 67.0 | 69.0 |
|  | 95 Percentile Spd | 71.0 | 70.0 | 70.0 | 70.0 | 69.0 | 69.0 | 68.0 | 67.3 | 68.0 | 65.3 | 65.0 | 63.0 | 63.3 | 62.0 | 59.0 | 60.3 | 66.3 | 68.0 | 70.0 | 71.0 |
|  | Coefficient of Variation | 3\％ | 1\％ | 2\％ | 4\％ | 5\％ | 6\％ | 8\％ | 10\％ | 10\％ | 13\％ | 14\％ | 13\％ | 14\％ | 13\％ | 11\％ | 12\％ | 16\％ | 15\％ | 10\％ | 5\％ |

# Extent of Congestion - Spatial and Temporal 

Performance measure tested -> Extent of Congestion - $\mathbb{Z}$ Spatial $\quad$ Temporal
Study Area - In-bound corridors: 1. I-10 EB from $83^{\text {rd }}$ Ave to $7^{\mathrm{h}} \mathrm{St}$;
2. Loop 202 WB \& I-10 WB from Scottsdale Rd to $7^{\text {th }}$ Ave;
3. I-17 SB from Peoria Ave to Buckeye Rd.

Out-bound corridors: 4. I-10 WB from Van Buren Rd to Warner Rd;
5. US-60 EB from Rural Rd to Gilbert Rd;
6. SR-51 NB from McDowell Rd to Shea Blvd.

Study Period - Inbound Corridors: 5:00-10:00 a.m.; Outbound Corridors: 2:00-7:00 p.m. Core weekdays.

Sample Size - Tuesday, Wednesday, and Thursday for 2006. A total of 155 days are defined as core weekdays.

Deviations or exceptions -Link travel times were first obtained by spot-measure speeds, then the free flow travel time is estimated at 85 percentile of off-peak travel time. Congestion thresholds were set at 1.3 x "free flow travel times". Spatial Congestion is estimated using corridor length under congested conditions for every 15 minutes during peak periods. Temporal Congestion is estimated using percentage of congested time periods out of the entire peak period.

Cost Estimates - N/A

Utility of Performance Measure - Results have been used in the MAG annual freeway mobility report. However, the previous congestion definition was based on speeds, using "speed $<=35 \mathrm{mph}$ and speed $<=50$ mph" as the thresholds for severe congestion and congestion respectively.

Complete a TRAVEL TIME DATA COLLECTION WORKSHEET for the base level travel time data. How was unconstrained travel time determined?

Attach a copy of the data collected, and calculated performance metrics.

## Extent of Congestion - Spatial, AM Peak, 5-10 am, Inbound Traffic Spatial Congestion: miles of congested freeway

|  |  | I-10 EB, Inbound, 83rd Ave to 7th St, 10 miles, 2006 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Corridor \#1: AM Peak | 5:15 | 5:30 | 5:45 | 6:00 | 6:15 | 6:30 | 6:45 | 7:00 | 7:15 | 7:30 | 7:45 | 8:00 | 8:15 | 8:30 | 8:45 | 9:00 | 9:15 | 9:30 | 9:45 | 10:00 |
|  | Average | 0 | 0 | 2 | 2 | 3 | 3 | 4 | 5 | 5 | 5 | 6 | 6 | 5 | 4 | 3 | 2 | 1 | 0 | 0 | 0 |
|  | MAX | 5 | 8 | 9 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 9 | 5 | 3 | 3 |
|  | MIN | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | Median | 0 | 0 | 0 | 1 | 2 | 3 | 5 | 6 | 5 | 6 | 6 | 6 | 5 | 4 | 2 | 1 | 0 | 0 | 0 | 0 |
|  | 95 Percentile | 0 | 3 | 7 | 9 | 9 | 9 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 8 | 6 | 5 | 3 | 1 | 0 |
| Monthly \% of Congestion Freeway | January | 0\% | 0\% | 0\% | 0\% | 0\% | 28\% | 65\% | 80\% | 74\% | 85\% | 87\% | 81\% | 76\% | 61\% | 40\% | 21\% | 7\% | 6\% | 2\% | 2\% |
|  | February | 0\% | 0\% | 3\% | 16\% | 40\% | 77\% | 98\% | 100\% | 96\% | 100\% | 98\% | 97\% | 89\% | 79\% | 78\% | 48\% | 13\% | 5\% | 0\% | 0\% |
|  | March | 0\% | 1\% | 21\% | 60\% | 81\% | 90\% | 88\% | 93\% | 86\% | 86\% | 88\% | 86\% | 73\% | 65\% | 45\% | 21\% | 11\% | 4\% | 0\% | 0\% |
|  | April | 1\% | 23\% | 54\% | 63\% | 52\% | 57\% | 64\% | 57\% | 50\% | 61\% | 59\% | 64\% | 49\% | 47\% | 33\% | 21\% | 11\% | 5\% | 0\% | 0\% |
|  | May | 0\% | 2\% | 8\% | 6\% | 0\% | 2\% | 7\% | 13\% | 11\% | 14\% | 26\% | 24\% | 19\% | 19\% | 11\% | 6\% | 3\% | 3\% | 3\% | 1\% |
|  | June | 1\% | 1\% | 1\% | 1\% | 1\% | 0\% | 1\% | 4\% | 4\% | 3\% | 14\% | 19\% | 3\% | 2\% | 2\% | 0\% | 0\% | 0\% | 0\% | 0\% |
|  | July | 3\% | 3\% | 5\% | 4\% | 3\% | 2\% | 5\% | 10\% | 10\% | 12\% | 29\% | 25\% | 25\% | 15\% | 9\% | 6\% | 3\% | 4\% | 4\% | 2\% |
|  | August | 5\% | 7\% | 7\% | 15\% | 15\% | 6\% | 11\% | 21\% | 20\% | 26\% | 38\% | 41\% | 34\% | 30\% | 24\% | 23\% | 10\% | 4\% | 2\% | 0\% |
|  | September | 2\% | 8\% | 41\% | 40\% | 36\% | 38\% | 51\% | 51\% | 51\% | 50\% | 53\% | 57\% | 45\% | 48\% | 25\% | 18\% | 9\% | 2\% | 0\% | 0\% |
|  | October | 0\% | 4\% | 43\% | 49\% | 42\% | 36\% | 52\% | 57\% | 60\% | 62\% | 66\% | 65\% | 48\% | 38\% | 27\% | 13\% | 6\% | 4\% | 2\% | 2\% |
|  | November | 0\% | 0\% | 7\% | 32\% | 43\% | 44\% | 51\% | 61\% | 45\% | 54\% | 58\% | 59\% | 51\% | 36\% | 28\% | 15\% | 6\% | 0\% | 0\% | 0\% |
|  | December | 0\% | 0\% | 0\% | 4\% | 23\% | 34\% | 54\% | 58\% | 63\% | 59\% | 59\% | 59\% | 59\% | 45\% | 28\% | 18\% | 5\% | 0\% | 1\% | 3\% |


|  |  | Loop 202 WB, Inbound, Scottsdale Rd to 7th Ave, 10 miles, 2006 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Corridor \#2: AM Peak | 5:15 | 5:30 | 5:45 | 6:00 | 6:15 | 6:30 | 6:45 | 7:00 | 7:15 | 7:30 | 7:45 | 8:00 | 8:15 | 8:30 | 8:45 | 9:00 | 9:15 | 9:30 | 9:45 | 10:00 |
|  | Average | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 2 | 3 | 5 | 5 | 5 | 5 | 4 | 3 | 1 | 0 | 0 | 0 |
|  | MAX | 0 | 0 | 0 | 0 | 3 | 3 | 8 | 9 | 8 | 7 | 7 | 7 | 9 | 9 | 7 | 7 | 7 | 7 | 7 | 7 |
|  | MIN | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | Median | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 3 | 3 | 7 | 7 | 7 | 7 | 4 | 4 | 0 | 0 | 0 | 0 |
|  | 95 Percentile | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 4 | 0 | 0 |
|  | January | 0\% | 0\% | 0\% | 0\% | 0\% | 2\% | 34\% | 53\% | 42\% | 43\% | 57\% | 59\% | 58\% | 49\% | 43\% | 31\% | 16\% | 5\% | 2\% | 2\% |
|  | February | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 38\% | 58\% | 41\% | 48\% | 52\% | 55\% | 48\% | 45\% | 44\% | 39\% | 11\% | 3\% | 0\% | 2\% |
|  | March | 0\% | 0\% | 0\% | 0\% | 0\% | 4\% | 13\% | 29\% | 30\% | 40\% | 45\% | 58\% | 43\% | 49\% | 34\% | 35\% | 5\% | 3\% | 3\% | 3\% |
|  | April | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 8\% | 18\% | 20\% | 55\% | 59\% | 51\% | 45\% | 47\% | 21\% | 8\% | 0\% | 0\% | 0\% |
|  | May | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 5\% | 11\% | 11\% | 21\% | 38\% | 51\% | 34\% | 40\% | 46\% | 33\% | 8\% | 8\% | 5\% | 5\% |
|  | June | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 4\% | 17\% | 17\% | 15\% | 29\% | 46\% | 36\% | 52\% | 46\% | 28\% | 3\% | 0\% | 0\% | 0\% |
|  | July | 0\% | 0\% | 0\% | 0\% | 2\% | 2\% | 2\% | 10\% | 15\% | 15\% | 25\% | 40\% | 39\% | 33\% | 26\% | 34\% | 18\% | 5\% | 3\% | 3\% |
|  | August | 0\% | 0\% | 0\% | 0\% | 2\% | 2\% | 5\% | 8\% | 15\% | 23\% | 39\% | 57\% | 57\% | 56\% | 50\% | 34\% | 16\% | 5\% | 0\% | 0\% |
|  | September | 0\% | 0\% | 0\% | 0\% | 3\% | 2\% | 2\% | 14\% | 13\% | 42\% | 58\% | 60\% | 52\% | 53\% | 49\% | 45\% | 15\% | 0\% | 0\% | 0\% |
|  | October | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 9\% | 29\% | 21\% | 30\% | 56\% | 59\% | 57\% | 50\% | 42\% | 32\% | 3\% | 2\% | 0\% | 3\% |
|  | November | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 6\% | 21\% | 25\% | 36\% | 52\% | 56\% | 50\% | 43\% | 40\% | 37\% | 9\% | 5\% | 0\% | 0\% |
|  | December | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 14\% | 36\% | 31\% | 37\% | 43\% | 41\% | 36\% | 34\% | 28\% | 30\% | 12\% | 5\% | 2\% | 0\% |


|  |  | I-17 SB, Inbound, Peoria Rd to Buckeye Rd, 10 miles, 2006 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Corridor \#3: AM Peak | 5:15 | 5:30 | 5:45 | 6:00 | 6:15 | 6:30 | 6:45 | 7:00 | 7:15 | 7:30 | 7:45 | 8:00 | 8:15 | 8:30 | 8:45 | 9:00 | 9:15 | 9:30 | 9:45 | 10:00 |
|  | Average | 0 | 0 | 1 | 3 | 2 | 2 | 3 | 5 | 3 | 4 | 5 | 6 | 4 | 3 | 2 | 1 | 1 | 0 | 0 | 0 |
|  | MAX | 2 | 6 | 9 | 9 | 9 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 8 | 10 | 8 | 8 | 3 | 2 |
|  | MIN | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | Median | 0 | 0 | 0 | 4 | 0 | 0 | 3 | 5 | 3 | 5 | 5 | 7 | 3 | 3 | 3 | 0 | 0 | 0 | 0 | 0 |
|  | 95 Percentile | 0 | 2 | 6 | 9 | 6 | 9 | 9 | 9 | 10 | 10 | 10 | 10 | 8 | 8 | 7 | 5 | 4 | 2 | 2 | 0 |
|  | January | 9\% | 9\% | 9\% | 17\% | 12\% | 29\% | 72\% | 77\% | 62\% | 53\% | 65\% | 66\% | 58\% | 38\% | 24\% | 18\% | 14\% | 10\% | 9\% | 9\% |
|  | February | 0\% | 0\% | 3\% | 36\% | 27\% | 64\% | 80\% | 68\% | 64\% | 72\% | 78\% | 73\% | 59\% | 48\% | 34\% | 12\% | 7\% | 3\% | 0\% | 0\% |
|  | March | 0\% | 0\% | 16\% | 60\% | 58\% | 61\% | 65\% | 52\% | 49\% | 49\% | 62\% | 56\% | 43\% | 33\% | 19\% | 17\% | 3\% | 1\% | 1\% | 1\% |
|  | April | 0\% | 3\% | 34\% | 59\% | 26\% | 13\% | 13\% | 41\% | 10\% | 21\% | 24\% | 51\% | 28\% | 24\% | 20\% | 13\% | 4\% | 3\% | 3\% | 0\% |
|  | May | 0\% | 1\% | 5\% | 40\% | 1\% | 1\% | 12\% | 49\% | 6\% | 23\% | 34\% | 66\% | 30\% | 29\% | 20\% | 10\% | 5\% | 0\% | 0\% | 0\% |
|  | June | 0\% | 0\% | 0\% | 32\% | 0\% | 0\% | 21\% | 58\% | 18\% | 33\% | 38\% | 66\% | 31\% | 30\% | 25\% | 5\% | 0\% | 0\% | 0\% | 0\% |
|  | July | 0\% | 0\% | 0\% | 3\% | 0\% | 0\% | 0\% | 8\% | 5\% | 17\% | 18\% | 27\% | 18\% | 11\% | 4\% | 4\% | 5\% | 3\% | 0\% | 0\% |
|  | August | 1\% | 6\% | 7\% | 17\% | 6\% | 7\% | 19\% | 27\% | 19\% | 24\% | 28\% | 35\% | 35\% | 29\% | 24\% | 11\% | 3\% | 2\% | 0\% | 0\% |
|  | September | 0\% | 9\% | 41\% | 45\% | 18\% | 18\% | 24\% | 28\% | 26\% | 30\% | 44\% | 50\% | 49\% | 39\% | 40\% | 6\% | 7\% | 3\% | 0\% | 0\% |
|  | October | 0\% | 3\% | 34\% | 43\% | 28\% | 23\% | 31\% | 42\% | 52\% | 43\% | 55\% | 67\% | 49\% | 32\% | 26\% | 6\% | 0\% | 0\% | 0\% | 0\% |
|  | November | 0\% | 0\% | 20\% | 39\% | 29\% | 24\% | 40\% | 45\% | 49\% | 55\% | 63\% | 53\% | 50\% | 38\% | 23\% | 15\% | 9\% | 6\% | 2\% | 0\% |
|  | December | 0\% | 0\% | 0\% | 8\% | 3\% | 10\% | 41\% | 53\% | 49\% | 54\% | 62\% | 55\% | 41\% | 37\% | 15\% | 6\% | 3\% | 0\% | 3\% | 0\% |

## Extent of Congestion - Spatial, PM Peak, 2-7 am, Outbound Traffic Spatial Congestion: miles of congested freeway

|  |  | I-10 EB, Outbound, Van Buren Rd to Warner Rd, 10 miles, 2006 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Corridor \#4: PM Peak | 14:15 | 14:30 | 14:45 | 15:00 | 15:15 | 15:30 | 15:45 | 16:00 | 16:15 | 16:30 | 16:45 | 17:00 | 17:15 | 17:30 | 17:45 | 18:00 | 18:15 | 18:30 | 18:45 | 19:00 |
|  | Average | 0 | 0 | 1 | 3 | 5 | 6 | 6 | 6 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 7 | 6 | 5 |
|  | MAX | 3 | 6 | 7 | 9 | 9 | 9 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
|  | MIN | 0 | 0 |  |  |  |  | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 0 |
|  | Median | 0 | 0 | 1 | 4 | 4 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 9 | 9 | 9 | 8 | 8 | 7 | 4 |
|  | 95 Percentile | 0 | 1 | 4 | 7 | 7 | 8 | 8 | 9 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 8 |
|  | January | 0\% | 0\% | 0\% | 30\% | 34\% | 44\% | 56\% | 57\% | 58\% | 62\% | 70\% | 67\% | 68\% | 74\% | 77\% | 77\% | 68\% | 71\% | 63\% | 48\% |
|  | February | 0\% | 0\% | 0\% | 30\% | 36\% | 51\% | 55\% | 64\% | 64\% | 65\% | 69\% | 69\% | 77\% | 79\% | 77\% | 71\% | 68\% | 71\% | 63\% | 50\% |
|  | March | 2\% | 4\% | 12\% | 48\% | 55\% | 64\% | 64\% | 67\% | 66\% | 66\% | 73\% | 76\% | 76\% | 83\% | 84\% | 79\% | 73\% | 70\% | 61\% | 45\% |
|  | April | 0\% | 0\% | 10\% | 42\% | 48\% | 61\% | 65\% | 63\% | 65\% | 68\% | 71\% | 67\% | 78\% | 84\% | 81\% | 78\% | 67\% | 57\% | 47\% | 42\% |
|  | May | 0\% | 0\% | 12\% | 44\% | 45\% | 58\% | 59\% | 63\% | 61\% | 64\% | 63\% | 66\% | 69\% | 81\% | 78\% | 78\% | 72\% | 53\% | 46\% | 44\% |
|  | June | 0\% | 0\% | 10\% | 40\% | 65\% | 65\% | 64\% | 67\% | 68\% | 68\% | 72\% | 77\% | 81\% | 81\% | 84\% | 81\% | 75\% | 73\% | 69\% | 39\% |
|  | July | 0\% | 0\% | 10\% | 40\% | 65\% | 65\% | 64\% | 65\% | 65\% | 66\% | 80\% | 80\% | 81\% | 84\% | 85\% | 82\% | 85\% | 82\% | 66\% | 40\% |
|  | August | 0\% | 0\% | 10\% | 38\% | 65\% | 65\% | 64\% | 64\% | 62\% | 64\% | 87\% | 90\% | 87\% | 89\% | 90\% | 87\% | 83\% | 83\% | 64\% | 37\% |
|  | September | 0\% | 0\% | 10\% | 26\% | 36\% | 60\% | 58\% | 61\% | 63\% | 67\% | 82\% | 85\% | 86\% | 85\% | 88\% | 91\% | 74\% | 73\% | 69\% | 36\% |
|  | October | 8\% | 8\% | 18\% | 20\% | 40\% | 53\% | 65\% | 67\% | 72\% | 84\% | 92\% | 92\% | 95\% | 97\% | 90\% | 91\% | 98\% | 91\% | 83\% | 67\% |
|  | November | 2\% | 6\% | 16\% | 33\% | 42\% | 52\% | 63\% | 73\% | 85\% | 88\% | 87\% | 89\% | 83\% | 90\% | 82\% | 91\% | 87\% | 88\% | 81\% | 69\% |
|  | December | 0\% | 0\% | 13\% | 24\% | 44\% | 55\% | 60\% | 63\% | 69\% | 86\% | 83\% | 83\% | 83\% | 90\% | 78\% | 81\% | 75\% | 74\% | 62\% | 49\% |


|  |  | US-60 EB, Outbound, Rural Rd to Gilbert Rd, 8 miles, 2006 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Corridor \#5: PM Peak | 14:15 | 14:30 | 14:45 | 15:00 | 15:15 | 15:30 | 15:45 | 16:00 | 16:15 | 16:30 | 16:45 | 17:00 | 17:15 | 17:30 | 17:45 | 18:00 | 18:15 | 18:30 | 18:45 | 19:00 |
|  | Average | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 |
|  | MAX | 1 | 3 | 4 | 3 | 3 | 3 | 6 | 6 | 3 | 5 | 4 | 4 | 4 | 4 | 7 | 4 | 4 | 3 | 2 | 3 |
| 定 | MIN | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| $\underset{\sigma}{0}$ | Median | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 |
|  | 95 Percentile | 0 | 0 | 0 | 2 | 2 | 2 | 2 | 3 | 2 | 2 | 2 | 3 | 3 | 2 | 3 | 3 | 2 | 2 | 1 | 1 |
|  | January | 0\% | 0\% | 0\% | 0\% | 0\% | 6\% | 5\% | 4\% | 5\% | 8\% | 9\% | 10\% | 10\% | 10\% | 11\% | 7\% | 2\% | 1\% | 1\% | 1\% |
| z | February | 0\% | 2\% | 0\% | 6\% | 7\% | 13\% | 13\% | 16\% | 15\% | 14\% | 15\% | 15\% | 18\% | 12\% | 17\% | 13\% | 11\% | 7\% | 4\% | 3\% |
| © | March | 0\% | 3\% | 2\% | 8\% | 10\% | 14\% | 15\% | 14\% | 9\% | 17\% | 16\% | 18\% | 17\% | 19\% | 21\% | 20\% | 9\% | 9\% | 7\% | 8\% |
| $\stackrel{\text { Ľ }}{\sim}$ | April | 0\% | 0\% | 0\% | 0\% | 1\% | 2\% | 4\% | 8\% | 5\% | 4\% | 5\% | 6\% | 5\% | 8\% | 13\% | 7\% | 4\% | 2\% | 0\% | 0\% |
| $\stackrel{\circ}{\bar{\omega}}$ | May | 0\% | 0\% | 0\% | 0\% | 0\% | 1\% | 5\% | 5\% | 4\% | 10\% | 6\% | 7\% | 6\% | 11\% | 12\% | 9\% | 6\% | 4\% | 1\% | 1\% |
| $\underset{\subset}{\square}$ | June | 1\% | 2\% | 3\% | 1\% | 0\% | 0\% | 0\% | 0\% | 1\% | 1\% | 1\% | 2\% | 2\% | 5\% | 7\% | 5\% | 6\% | 1\% | 1\% | 1\% |
| 厄్ర | July | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 1\% | 1\% | 0\% | 8\% | 9\% | 7\% | 7\% | 8\% | 7\% | 8\% | 2\% | 2\% | 0\% | 0\% |
|  | August | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 13\% | 13\% | 13\% | 15\% | 13\% | 13\% | 13\% | 0\% | 0\% | 0\% | 0\% |
| \% | September | 0\% | 0\% | 0\% | 0\% | 0\% | 6\% | 0\% | 3\% | 0\% | 13\% | 15\% | 13\% | 13\% | 13\% | 15\% | 15\% | 0\% | 0\% | 0\% | 0\% |
| 츤 | October | 0\% | 0\% | 0\% | 3\% | 3\% | 0\% | 0\% | 0\% | 0\% | 13\% | 13\% | 13\% | 13\% | 13\% | 13\% | 13\% | 0\% | 0\% | 0\% | 0\% |
| $\stackrel{\rightharpoonup}{1}$ | November | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 13\% | 14\% | 16\% | 13\% | 13\% | 13\% | 13\% | 0\% | 0\% | 0\% | 0\% |
| $\sum$ | December | 0\% | 0\% | 0\% | 0\% | 0\% | 3\% | 6\% | 6\% | 0\% | 13\% | 13\% | 15\% | 15\% | 15\% | 20\% | 15\% | 0\% | 0\% | 0\% | 0\% |


|  |  | SR-51 NB, Outbound, l-10 to Shea Blvd, 8 miles, 2006 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Corridor \#6: PM Peak | 14:15 | 14:30 | 14:45 | 15:00 | 15:15 | 15:30 | 15:45 | 16:00 | 16:15 | 16:30 | 16:45 | 17:00 | 17:15 | 17:30 | 17:45 | 18:00 | 18:15 | 18:30 | 18:45 | 19:00 |
|  | Average | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2 | 2 | 3 | 4 | 3 | 1 | 1 | 0 | 0 |
|  | MAX | 2 | 0 | 0 | 2 | 2 | 2 | 2 | 2 | 3 | 7 | 7 | 8 | 7 | 7 | 5 | 5 | 7 | 5 | 6 | 4 |
|  | MIN | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | Median | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 3 | 3 | 4 | 3 | 2 | 0 | 0 | 0 |
|  | 95 Percentile | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 3 | 3 | 4 | 5 | 5 | 5 | 5 | 4 | 3 | 2 | 0 |
|  | January | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 7\% | 19\% | 30\% | 33\% | 45\% | 49\% | 48\% | 22\% | 17\% | 3\% | 0\% |
|  | February | 0\% | 0\% | 0\% | 2\% | 2\% | 2\% | 2\% | 3\% | 4\% | 14\% | 25\% | 26\% | 35\% | 41\% | 55\% | 34\% | 24\% | 14\% | 7\% | 6\% |
|  | March | 0\% | 0\% | 0\% | 0\% | 1\% | 1\% | 1\% | 4\% | 6\% | 8\% | 21\% | 26\% | 34\% | 36\% | 45\% | 29\% | 17\% | 12\% | 1\% | 0\% |
|  | April | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 3\% | 14\% | 20\% | 23\% | 30\% | 38\% | 40\% | 25\% | 20\% | 3\% | 0\% | 0\% |
|  | May | 1\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 3\% | 1\% | 8\% | 13\% | 17\% | 21\% | 30\% | 38\% | 26\% | 13\% | 3\% | 1\% | 0\% |
|  | June | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 3\% | 4\% | 15\% | 20\% | 30\% | 39\% | 29\% | 11\% | 4\% | 1\% | 0\% |
|  | July | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 2\% | 2\% | 2\% | 5\% | 7\% | 20\% | 23\% | 14\% | 5\% | 2\% | 0\% | 0\% |
|  | August | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 3\% | 10\% | 14\% | 21\% | 23\% | 40\% | 42\% | 31\% | 12\% | 5\% | 0\% | 0\% |
|  | September | 0\% | 0\% | 0\% | 0\% | 0\% | 2\% | 0\% | 2\% | 1\% | 9\% | 19\% | 31\% | 30\% | 41\% | 56\% | 43\% | 23\% | 16\% | 2\% | 0\% |
|  | October | 0\% | 0\% | 0\% | 0\% | 0\% | 3\% | 1\% | 3\% | 2\% | 14\% | 25\% | 29\% | 39\% | 47\% | 53\% | 40\% | 28\% | 14\% | 2\% | 1\% |
|  | November | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 2\% | 2\% | 16\% | 28\% | 26\% | 35\% | 39\% | 43\% | 33\% | 27\% | 17\% | 7\% | 4\% |
|  | December | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 1\% | 4\% | 16\% | 22\% | 30\% | 37\% | 42\% | 42\% | 35\% | 17\% | 7\% | 6\% | 0\% |

## Congestion - Temporal, AM/PM Peaks, All Corridors

|  | Percentage of time the Corridor is in Congested Condition |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Corridor \#1 | Corridor \#2 | Corridor \#3 | Corridor \#4 | Corridor \#5 | Corridor \#6 |
|  | I-10 EB, <br> Inbound, 83rd <br> Ave to 7th St, <br> 10 miles | Loop 202 WB, Inbound, Scottsdale Rd to 7th Ave, 10 miles | I-17 SB, Inbound, Peoria Rd to Buckeye Rd, 10 miles | I-10 EB, Outbound, Van Buren Rd to Warner Rd, 10 miles | US-60 EB, Outbound, Rural Rd to Gilbert Rd, 8 miles | SR-51 NB, Outbound, I-10 to Shea Blvd, 8 miles |
|  | AM Peak, 5-10 am, 2006 |  |  | PM Peak, 2-7 pm, 2006 |  |  |
| January | 42\% | 37\% | 38\% | 76\% | 0\% | 5\% |
| February | 58\% | 37\% | 45\% | 76\% | 0\% | 4\% |
| March | 58\% | 31\% | 42\% | 84\% | 1\% | 3\% |
| April | 51\% | 24\% | 20\% | 85\% | 0\% | 2\% |
| May | 9\% | 25\% | 12\% | 85\% | 1\% | 2\% |
| June |  | 25\% | 10\% | 85\% | 1\% | 3\% |
| July | 1\% | 22\% | 4\% | 85\% | 0\% | 1\% |
| August | 11\% | 28\% | 12\% | 85\% | 0\% | 4\% |
| September | 21\% | 35\% | 26\% | 79\% | 0\% | 5\% |
| October | $51 \%$ | 30\% | 36\% | 80\% | 0\% | 8\% |
| November | 44\% | 32\% | 32\% | 78\% | 0\% | 7\% |
| December | 38\% | 25\% | 24\% | 72\% | 2\% | 7\% |

## Travel Time - Facility

Study Area - In-bound corridors: 1. I-10 EB from $83^{\text {rd }}$ Ave to $7^{\mathrm{h}} \mathrm{St}$;<br>2. Loop 202 WB \& I-10 WB from Scottsdale Rd to $7^{\text {th }}$ Ave;<br>3. I-17 SB from Peoria Ave to Buckeye Rd.<br>Out-bound corridors: 4. I-10 WB from Van Buren Rd to Warner Rd;<br>5. US-60 EB from Rural Rd to Gilbert Rd;<br>6. SR-51 NB from McDowell Rd to Shea Blvd.

Study Period - Inbound Corridors: 5:00-10:00 a.m.; Outbound Corridors: 2:00-7:00 p.m. Core weekdays.

Sample Size - Tuesday, Wednesday, and Thursday for 2006. A total of 155 days are defined as core weekdays.

Deviations or exceptions - Travel time is estimated from spot-measure time-mean speed collected by loop and PAD detectors. Once the speed data has passed the screening test, it is applied to each link and assumed as representative space-mean speed for the link. The arithmetic summation of travel time for every link is used to represent corridor travel time. The travel time is refreshed every $15-\mathrm{min}$. Travel Time Index (TTI) and Planning Time Index (PTI) are also calculated based on methods defined by Texas Trans Inst. TTI = Actual TT/free flow $\mathrm{TT}, \mathrm{PTI}=95 \% \mathrm{TT} /$ free-flow TT ; free-flow TT defined as TT at 60 mph speed on freeway.

Cost Estimates - N/A

Utility of Performance Measure -Travel time results for past years will be incorporated into a historical database, and data will be used for travel time reliability analysis.

Complete a TRAVEL TIME DATA COLLECTION WORKSHEET for the base level travel time data.
Attach a copy of the data collected, and calculated performance metrics.

2006 Travel Time (TT), AM Peak, 5-10 am, Inbound Traffic

|  | Free-flow TT: 10.65 min | I-10 EB, Inbound, 83rd Ave to 7th St, Length = 10 miles, 2006 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Corridor \#1: AM Peak | 5:15 | 5:30 | 5:45 | 6:00 | 6:15 | 6:30 | 6:45 | 7:00 | 7:15 | 7:30 | 7:45 | 8:00 | 8:15 | 8:30 | 8:45 | 9:00 | 9:15 | 9:30 | 9:45 | 10:00 |
|  | Annual Average TT | 10.1 | 0.8 | 12.5 | 13.3 | 13.7 | 15.0 | 16.9 | 17.9 | 18.3 | 19.2 | 19.4 | 18.0 | 16.0 | 14.3 | 13.1 | 12.0 | 10.9 | 10.2 | 10.0 | 9.9 |
|  | MAX TT | 28.1 | 25.3 | 38.7 | 39.7 | 37.5 | 58.3 | 68.2 | 65.8 | 62.4 | 57.1 | 46.8 | 39.1 | 36.1 | 31.3 | 29.3 | 23.7 | 22.1 | 15.4 | 15.3 | 12.5 |
|  | MIN TT | 9.4 | 9.6 | 9.6 | 9.6 | 9.5 | 9.7 | 9.7 | 9.6 | 9.8 | 9.9 | 9.8 | 9.7 | 9.7 | 9.7 | 9.5 | 9.4 | 9.4 | 9.0 | 9.4 | . 4 |
| $\|\stackrel{\ddot{\omega}}{\dot{5}}\|$ | Median TT | 9.8 | 10.2 | 11.1 | 11.8 | 12.5 | 13.5 | 15.5 | 16.1 | 16.2 | 17.7 | 18.0 | 17.1 | 15.2 | 13.6 | 12.1 | 11.0 | 10.3 | 9.9 | 9.8 | 9.7 |
| $\left\|\frac{\vec{E}}{\dot{2}}\right\|$ | 95\% TT | 10.56 | 13.2 | 19.6 | 19.8 | 21.3 | 26.6 | 29.4 | 32.1 | 32.7 | 33.2 | 32.9 | 28.1 | 25.7 | 20.2 | 18.4 | 17.0 | 14.7 | 12.4 | 11.0 | 10.4 |
| F | Planning Time Index PTI | 1.06 | 1.32 | 1.96 | 1.98 | 2.13 | 2.66 | 2.94 | 3.21 | 3.27 | 3.32 | 3.29 | 2.81 | 2.57 | 2.02 | 1.84 | 1.70 | 1.47 | 1.24 | 1.10 | . 04 |
| 8 | Travel Time Index TTI | 1.01 | 1.08 | 1.25 | 1.33 | 1.37 | 1.50 | 1.69 | 1.79 | 1.83 | 1.92 | 1.94 | 1.80 | 1.60 | 1.43 | 1.31 | 1.20 | 1.09 | 1.02 | 1.00 | 1.00 |
| - | Coefficient of Variation | 15\% | 17\% | 32\% | 33\% | 34\% | 42\% | 44\% | 45\% | 46\% | 42\% | 39\% | 33\% | 30\% | 27\% | 26\% | 22\% | 18\% | 10\% | 7\% | 4\% |
|  | January | 10.2 | 10.2 | 10.5 | 11.0 | 11.6 | 13.4 | 16.5 | 18.7 | 20.9 | 23.3 | 23.2 | 20.8 | 18.5 | 15.4 | 13.7 | 12.9 | 11.6 | 10.7 | 10.3 | 10.3 |
|  | February | 10.2 | . 2 | 1.2 | 2.4 | 4.8 | 18.9 | 26.1 | 28.9 | 29.9 | 30.9 | 31.7 | 27.6 | 22.9 | 19.6 | 17.4 | 15.0 | 12.3 | 10.6 | 10.1 | 10.0 |
|  | March | 10.1 | . 7 | 4.7 | 7.4 | 20.5 | 26.4 | 29.3 | 30.5 | 30.1 | 29.6 | 27.2 | 23.4 | 20.5 | 16.7 | 14.4 | 13.2 | 11.5 | 10.6 | 10.3 | 0.2 |
|  | April | 10.4 | 3.3 | . 2 | 7.5 | 15.8 | 17.7 | 17.9 | 18.0 | 17.7 | 18.6 | 18.8 | 17.4 | 16.4 | 15.9 | 15.2 | 12.8 | 11.4 | 10.7 | 10.4 | 10.3 |
|  | May | 9.9 | 10.5 | 11.2 | 10.8 | 10.2 | 10.5 | 11.0 | 11.2 | 11.1 | 12.0 | 12.7 | 12.9 | 12.5 | 12.0 | 11.2 | 10.7 | 10.5 | 10.4 | 10.2 | 9.9 |
|  | June | 9.7 | 9.9 | 10.2 | 10.0 | 9.8 | 10.0 | 10.4 | 10.8 | 10.9 | 11.5 | 12.2 | 12.1 | 11.2 | 10.5 | 10.2 | 9.9 | 9.7 | 9.6 | 9.7 | . 6 |
|  | July | 10.0 | 10.2 | 10.7 | 10.2 | 9.9 | 10.2 | 11.4 | 11.6 | 11.5 | 11.8 | 13.1 | 13.2 | 12.5 | 11.6 | 11.2 | 10.8 | 10.3 | 10.2 | 10.1 | 9.7 |
|  | August | 11.1 | 1.1 | 12.0 | 12.5 | 11.4 | 11.3 | 11.9 | 12.5 | 12.6 | 13.9 | 14.8 | 15.0 | 14.1 | 13.8 | 12.8 | 12.0 | 10.9 | 10.2 | 9.7 | . 5 |
|  | September | 10.1 | 2.2 | 16.2 | 16.5 | 15.6 | 15.0 | 16.9 | 16.7 | 17.4 | 17.9 | 18.0 | 17.7 | 16.0 | 14.8 | 12.9 | 11.4 | 10.7 | 9.9 | 9.7 | 7 |
|  | October | 9.8 | 1.3 | 4.4 | 15.6 | 14.6 | 14.7 | 15.5 | 17.1 | 18.2 | 20.0 | 21.0 | 19.1 | 15.5 | 13.5 | 12.4 | 11.6 | 10.6 | 9.9 | 9.8 | 7 |
|  | Novembe | 9.7 | 10.3 | 1.9 | 4.9 | 17.6 | 17.2 | 18.3 | 18.4 | 17.4 | 19.2 | 19.1 | 17.7 | 15.5 | 14.2 | 13.1 | 12.0 | 10.9 | 9.9 | 9.7 | . 7 |
|  | December | 9.7 | 9.9 | 10.5 | 11.0 | 12.1 | 14.4 | 17.8 | 21.6 | 23.1 | 23.0 | 22.2 | 20.3 | 16.8 | 14.4 | 13.3 | 11.9 | 10.7 | 10.0 | 10.0 | 9.9 |
|  | Free-flow TT: 9.50 m | Loop 202 WB, Inbound, Scottsdale Rd to 7th Ave, Mileage = 10 miles, 2006 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Corridor \#2: AM Peak | 5:15 | 5:30 | 5:45 | 6:00 | 6:15 | 6:30 | 6:45 | 7:00 | 7:15 | 7:30 | 7:45 | 8:00 | 8:15 | 8:30 | 8:45 | 9:00 | 9:15 | 9:30 | 9:45 | 10:00 |
|  | nual Averag | 9.1 | 9.1 | 9.2 | 9.2 | 9.5 | 9.8 | 10.6 | 11.6 | 11.7 | 12.5 | 13.8 | 15.2 | 14.1 | 13.9 | 13.4 | 12.7 | 10.6 | 9.9 | 9.7 | . 6 |
|  | MAX | 9.7 | 9.9 | 9.9 | . 9 | 13.8 | 14.3 | 14.7 | 19.9 | 21.7 | 20.5 | 23.0 | 21.8 | 20.4 | 21.0 | 21.7 | 21.6 | 23.8 | 24.3 | 19.8 | 22.2 |
|  | MIN TT | 8.9 | 8.9 | 8.8 | 8.8 | 8.9 | 9.0 | 9.0 | 8.9 | 8.8 | 8.8 | 8.8 | 8.7 | 8.8 | 8.8 | 8.8 | 8.8 | 8.8 | 8.8 | 8.8 | . 9 |
|  | Median TT | 9.0 | 9.1 | 9.2 | 9.2 | 9.5 | 9.8 | 10.2 | 11.0 | 11.5 | 12.4 | 13.8 | 15.6 | 14.2 | 14.1 | 13.6 | 12.6 | 9.8 | 9.5 | 9.5 | 9.4 |
|  | 95\% TT | 9.2 | 9.2 | 9.3 | 9.5 | 9.7 | 10.4 | 12.7 | 14.8 | 14.9 | 16.0 | 17.0 | 17.6 | 17.1 | 17.0 | 16.8 | 16.7 | 14.3 | 12.3 | 10.2 | 10.0 |
|  | Planning Time Index PTI | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.04 | 1.27 | 1.48 | 1.49 | 1.60 | 1.70 | 1.76 | 1.71 | 1.70 | 1.68 | 1.67 | 1.43 | 1.23 | 1.02 | 1.00 |
|  | Travel Time Index TTI | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.06 | 1.16 | 1.17 | 1.25 | 1.38 | 1.52 | 1.41 | 1.39 | 1.34 | 1.27 | 1.06 | 1.00 | 1.00 | 1.00 |
|  | Coefficient of Variation | 1\% | 1\% | 1\% | 2\% | 4\% | 5\% | 10\% | 15\% | 15\% | 16\% | 15\% | 14\% | 15\% | 16\% | 17\% | 18\% | 20\% | 19\% | 15\% | 15\% |
|  | January | 9.1 | 9.1 | 9.2 | 9.2 | 9.5 | 10.1 | 12.0 | 13.4 | 12.6 | 13.6 | 15.0 | 16.0 | 14.8 | 13.8 | 13.5 | 12.9 | 11.4 | 11.0 | 10.3 | 10. |
|  | February | 9.1 | 9.1 | 9.2 | 9.2 | 9.6 | 10.2 | 12.3 | 14.0 | 13.6 | 14.4 | 15.2 | 16.2 | 14.7 | 14.2 | 14.0 | 12.8 | 10.7 | 9.8 | 9.6 | . 6 |
|  | March | 9.1 | 9.1 | 9.3 | 9.3 | 9.6 | 10.1 | 10.8 | 12.3 | 12.6 | 13.3 | 14.1 | 15.2 | 13.8 | 13.2 | 12.8 | 12.6 | 10.1 | 9.9 | 9.9 | . 8 |
|  | April | 9.1 | 9.1 | 9.2 | 9.2 | 9.4 | 9.7 | 10.0 | 10.2 | 10.9 | 11.5 | 13.7 | 15.1 | 14.1 | 13.9 | 13.3 | 11.8 | 10.1 | 9.6 | 9.5 | 9.4 |
|  | May | 9.1 | 9.1 | 9.2 | 9.2 | 9.4 | 9.7 | 10.1 | 10.5 | 10.8 | 11.8 | 12.5 | 14.4 | 13.0 | 13.2 | 13.6 | 12.4 | 11.2 | 10.1 | 10.2 | 10.2 |
|  | June | 9. | 9.0 | 9.1 | 9.1 | 9.3 | 9.5 | 9.9 | 10.6 | 11.3 | 11.5 | 12.6 | 14.1 | 12.8 | 14.2 | 13.6 | 12.0 | 9.6 | 9.4 | 9.4 | 9.4 |
|  | July | 9.2 | 9.1 | 9.2 | 9.1 | 9.3 | 9.6 | 9.9 | 10.7 | 11.1 | 11.6 | 12.1 | 13.7 | 12.9 | 12.6 | 12. | 13.0 | 11.5 | 10.8 | 10.3 | 9.5 |
|  | August | 9.1 | 9.2 | 9.3 | 9.3 | 9.4 | 9.7 | 10.0 | 10.5 | 10.9 | 11.8 | 12.9 | 15.6 | 15.2 | 15.0 | 13.9 | 12.8 | 10.6 | 9.7 | 9.6 | 9.4 |
|  | September | 9.1 | 9.2 | 9.3 | 9.3 | 9.8 | 10.0 | 10.0 | 10.9 | 11.3 | 13.1 | 14.8 | 16.0 | 15.3 | 15.1 | 14.6 | 14.7 | 10.9 | 9.6 | 9.5 | 9.4 |
|  | Octob | 9.1 | 9.1 | 9.3 | 9.4 | 9.5 | 9.8 | 10.5 | 11.8 | 11.5 | 12.4 | 14.4 | 15.8 | 14.4 | 14.1 | 13.1 | 12.3 | 9.8 | 9.6 | 9.5 | . 6 |
|  | Novemb | 9.0 | 9.1 | 9.1 | 9.2 | 9.5 | 9.8 | 10.6 | 11.5 | 12.1 | 12.6 | 14.3 | 15.7 | 14.7 | 14.0 | 13.5 | 12.7 | 10.9 | 10.0 | 9.5 | 3 |
|  | December | 9.0 | 9.0 | 9.1 | 9.2 | 9.5 | 10.0 | 11.1 | 12.2 | 11.8 | 13.3 | 14.0 | 14.3 | 13.4 | 12.9 | 12.0 | 11.8 | 10.1 | 9.5 | 9.5 | 9.4 |
|  | Free-flow TT: 11.09 min | l-17 SB, Inbound, Peoria Rd to Buckeye Rd, Mileage = 10 miles, 2006 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Corridor \#3: AM Peak | 5:15 | 30 | 5:45 | 6:00 | 6:15 | 6:30 | 6:45 | 7:00 | 7:15 | 7:30 | 7:45 | 8:00 | 8:15 | 8:30 | 8:45 | 9:00 | 9:15 | 9:30 | 9:45 | 0:00 |
|  | ual Average | 10.6 | . 1 | . 5 | 13.9 | 13.0 | 13.7 | 15.8 | 16.3 | 15.7 | 15.9 | 16.7 | 16.5 | 15.2 | 14.1 | 13.1 | 12.0 | 11.1 | 10.7 | 10.6 | 10.4 |
|  | M | 13.5 | 38.8 | 28.4 | 37.3 | 30.5 | 30.7 | 9.8 | 9.0 | 38.0 | 32.8 | 35. | 33. | 30. | 32.5 | 29. | 24. | 22.0 | 17.1 | 17.1 | 15.4 |
|  | MIN TT | 9.5 | 9.5 | 9.9 | . 0 | 10.4 | 10.5 | 10.3 | 10.4 | 10.4 | 10.4 | 10.2 | 10.2 | 10.3 | 10.2 | 10.1 | 10.1 | 10.0 | 9.5 | 9.3 | 9.4 |
|  | Median TT | 10.4 | 0.7 | 11.9 | 13.0 | 11.8 | 12.6 | 13.8 | 14.1 | 13.7 | 14.0 | 15.1 | 15.0 | 14.4 | 13.4 | 12.4 | 11.5 | 10.6 | 10.5 | 10.4 | 10. |
|  | 95\% TT | 11.3 | 12.3 | 16.0 | 19.6 | 19.0 | 19.9 | 26.2 | 25.1 | 27.2 | 26.1 | 26.3 | 26.3 | 22.2 | 18.8 | 17.1 | 16.4 | 13.8 | 12.2 | 11. | 10.9 |
|  | Planning Time Index PTI | 1.13 | 1.23 | 1.60 | 1.96 | 1.90 | 1.99 | 2.62 | 2.51 | 2.72 | 2.61 | 2.63 | 2.63 | 2.22 | 1.88 | 1.71 | 1.64 | 1.38 | 1.22 | 1.14 | 1.09 |
|  | Travel Time Index TTI | 1.06 | 1.11 | 1.25 | 1.39 | 1.30 | 1.37 | 1.58 | 1.63 | 1.57 | 1.59 | 1.67 | 1.65 | 1.52 | 1.41 | 1.31 | 1.20 | 1.11 | 1.07 | 1.06 | 1.04 |
|  | Coefficient of Variation | 4\% | 22\% | 18\% | 26\% | 24\% | 23\% | 35\% | 36\% | 33\% | 30\% | 28\% | 27\% | 23\% | 22\% | 21\% | 16\% | 15\% | 8\% | 8\% | 5\% |
|  | January | 11.0 | 10.9 | 11.3 | 12.3 | 12.2 | 13.8 | 19.0 | 20.0 | 19.4 | 19.2 | 19.6 | 18.0 | 16.2 | 14.7 | 12.9 | 12.4 | 11.3 | 11.1 | 11.3 | 10.9 |
|  | February | 10. | . 5 | 1.4 | 13.8 | 14.2 | 15.8 | 18.6 | 18.3 | 17.8 | 18.3 | 20.8 | 20.6 | 18.7 | 16.5 | 15.2 | 12.2 | 11.2 | 10.8 | 10.4 | 10.3 |
|  | March | 10.4 | 10.6 | 13.1 | 17.2 | 16.7 | 17.9 | 20.5 | 20.7 | 19.4 | 18.9 | 18.7 | 17.2 | 14.6 | 13.5 | 12.4 | 12.2 | 11.8 | 10.8 | 11.0 | 10.7 |
| 空 | April | 10.6 | 11.3 | 15.2 | 15.0 | 13.3 | 14.3 | 14.7 | 14.5 | 14.0 | 13.2 | 14.5 | 14.1 | 13.9 | 13.2 | 13.3 | 12.4 | 11.1 | 10.9 | 10.6 | 10.5 |
| $\Sigma$ | May | 10.8 | 11.4 | 12.6 | 12.9 | 11.9 | 12.5 | 13.5 | 13.5 | 13.0 | 13.8 | 14.6 | 14.7 | 14.1 | 13.4 | 12.9 | 12.2 | 11.1 | 10.6 | 10.6 | 10.5 |
| F | June | 10.8 | 10.9 | 11.8 | 12.8 | 11.7 | 12.4 | 13.4 | 13.8 | 13.1 | 13.7 | 14.6 | 15.8 | 14.0 | 13.0 | 12.3 | 11.5 | 10.7 | 10.6 | 10.5 | 10.5 |
| $\left\lvert\, \begin{aligned} & 9 \\ & \hline \end{aligned}\right.$ | July | 10.4 | . 3 | 10.6 | 10.7 | 10.5 | 10.8 | 11.6 | 11.9 | 11.8 | 12.4 | 12.8 | 12.8 | 12.6 | 11.6 | 11.4 | 10.9 | 10.8 | 10.6 | 10.4 | 10.3 |
| $\left\lvert\, \frac{\lambda}{c}\right.$ | August | 10.7 | 2.7 | 1.5 | 3.4 | 1.9 | 11.7 | 13.7 | 14.0 | 13.6 | 13.5 | 13.9 | 14.7 | 14.3 | 14.5 | 13.5 | 12. | 11. | 10.6 | 10.5 | 10.4 |
| \|言| | September | 10.5 | 11.8 | 14.3 | 15.2 | 12.9 | 12.6 | 13.9 | 14.1 | 13.7 | 14.3 | 15.9 | 17.2 | 15.9 | 14.6 | 14.6 | 12.3 | 11 | 10.6 | 10.5 | 10 |
|  | October | 10.4 | 1.3 | 13.9 | 16.0 | 15.0 | 14.9 | 15.6 | 16.9 | 17.9 | 19.3 | 18.9 | 17.9 | 16.2 | 14.2 | 12.7 | 11.4 | 10.4 | 10.3 | 10.2 | 10.2 |
|  | November | 10.3 | 10.6 | 13.2 | 15.7 | 14.4 | 14.7 | 18.5 | 19.6 | 17.4 | 17.1 | 18.5 | 17.1 | 16.0 | 15.0 | 13.5 | 12.4 | 11.4 | 10.7 | 10.4 | 10. |
|  | December | 10.2 | 10.3 | 10.7 | 11.4 | 11.2 | 12.6 | 16.3 | 18.0 | 17.1 | 17.2 | 18.0 | 17.7 | 16.5 | 14.7 | 12.4 | 11.1 | 10.5 | 10.3 | 10.4 | 10.3 |

## 2006 Travel Time（TT），PM Peak，2－7 pm，Outbound Traffic

|  | Free－flow TT： 9.63 min | I－10 EB，Outbound，Van Buren Rd to Warner Rd，Mileage＝ $\mathbf{1 0}$ miles， 2006 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Corridor \＃4：PM Peak | 14：15 | 14：30 | 14：45 | 15：00 | 15：15 | 15：30 | 15：45 | 16：00 | 16：15 | 16：30 | 16：45 | 17：00 | 17：15 | 17：30 | 17：45 | 18：00 | 18：15 | 18：30 | 18：45 | 19：00 |
|  | Annual Average TT | 10.4 | 10.5 | 11.4 | 13.1 | 14.1 | 15.7 | 16.4 | 18.1 | 19.4 | 22.9 | 24.3 | 26.8 | 27.6 | 30.3 | 29.2 | 27.5 | 23.5 | 20.6 | 16.7 | 14 |
|  | MAX TT | 12.0 | 4 | 25.5 | 2.1 | 32.2 | 37.7 | 31.6 | 40.0 | 32.8 | 42.3 | 37.2 | 38.4 | 43.6 | 40.2 | 39.6 | 36.0 | 34.0 | 40.4 | 39.6 | 36.3 |
|  | MIN TT | 9.4 | 9.3 | 10.1 | 10.7 | 10.7 | 10.9 | 10.3 | 10.4 | 10.3 | 10.5 | 10.4 | 10.3 | 10.5 | 11.3 | 10.6 | 10.6 | 10.7 | 10.8 | 10.1 | 10.4 |
| $\left\lvert\, \begin{gathered} \stackrel{y y y}{c} \\ \underset{己}{2} \end{gathered}\right.$ | Median TT | 10.4 | 10.6 | 11.5 | 13.2 | 14.0 | 15.8 | 16.2 | 18.0 | 19.6 | 22.7 | 24.1 | 26.6 | 27.4 | 30.3 | 29.1 | 27.7 | 23.8 | 20.7 | 16.0 | 14.0 |
| 空 | 95\％TT | 10.6 | 10.9 | 11.8 | 14.4 | 15.5 | 18.4 | 19.5 | 22.5 | 24.0 | 29.1 | 29.4 | 33.1 | 34.8 | 36.2 | 35.8 | 33.3 | 30.4 | 27.8 | 23.2 | 2 |
| F | Planning Time Index PTI | 1.06 | ． 09 | 1.18 | ． 44 | 1.55 | 1.84 | 1.95 | 2.25 | 2.40 | 2.91 | 2.94 | 3.31 | 3.48 | 3.62 | 3.58 | 3.33 | 3.04 | 2.78 | 2.32 | 1.82 |
| 8 | Travel Time Index TTI | 1.04 | 1.05 | 1.14 | 1.31 | 1.41 | 1.57 | 1.64 | 1.81 | 1.94 | 2.29 | 2.43 | 2.68 | 2.76 | 3.03 | 2.92 | 2.75 | 2.35 | 2.06 | 1.67 | 1.44 |
| － | Coefficient of Variation | 3\％ | 4\％ | 11\％ | 17\％ | 17\％ | 17\％ | 14\％ | 16\％ | 14\％ | 15\％ | 14\％ | 14\％ | 16\％ | 14\％ | 15\％ | 16\％ | 18\％ | 20\％ | 19\％ | 17\％ |
|  | January | 10.2 | 10.3 | 10.7 | 11.7 | 12.4 | 13.3 | 14.9 | 16.4 | 17.5 | 21.4 | 23.8 | 25.0 | 27.0 | 29.7 | 30.0 | 28.8 | 25.0 | 21.9 | 17.8 | 1 |
|  | February | 10.2 | 0.3 | 10.7 | 11.7 | 12.5 | 13.9 | 15.0 | 16.9 | 18.6 | 22.4 | 24.2 | 27.2 | 28.9 | 31.8 | 31.3 | 29.1 | 25.1 | 21.5 | 16.5 | 13.8 |
|  | March | 10.4 | 10.6 | 11.6 | 14.5 | 16.0 | 17.1 | 17.3 | 18.8 | 20.4 | 24.4 | 25.1 | 28.2 | 27.5 | 30.3 | 29.0 | 27.8 | 24.4 | 22.3 | 17.9 | 15.5 |
| 容 | April | 10.4 | 10.5 | 11.5 | 13.2 | 14.2 | 15.7 | 15.8 | 16.8 | 18.7 | 22.3 | 23.3 | 25.9 | 27.8 | 28.8 | 27.7 | 25.5 | 20.2 | 17.2 | 15.1 | 14.2 |
| $\stackrel{\Sigma}{\Sigma}$ | May | 10.4 | ． 6 | 11.6 | 13.7 | 14.3 | 15.4 | 16.2 | 17.8 | 18.2 | 22.1 | 23.2 | 25.6 | 25.9 | 28.2 | 26.8 | 24.3 | 19.6 | 16.8 | 15.5 | 14.3 |
| F | June | 10.5 | 10.6 | 11.6 | 13.3 | 14.5 | 16.4 | 17.3 | 18.9 | 20.3 | 22.9 | 23.8 | 26.4 | 26.9 | 30.5 | 29.2 | 27.6 | 23.8 | 21.0 | 16.5 | 14.1 |
| 年 | July | 10.5 | 0.6 | 11.6 | 13.2 | 14.5 | 16.5 | 17.1 | 18.8 | 20.2 | 23.0 | 24.0 | 26.3 | 26.8 | 29.9 | 29.1 | 28.2 | 24.4 | 21.5 | 16.6 | 14.3 |
| 入 | August | 10.5 | ． 6 | 11.6 | 3.1 | 14.6 | 16.5 | 16.4 | 18.0 | 19.6 | 22.5 | 24.0 | 26.5 | 27.0 | 30.3 | 29.5 | 27.6 | 23.3 | 20.8 | 16.0 | 7 |
| 去 | September | 10.3 | ． 5 | 1.1 | 2.7 | 12.9 | 15.6 | 15.3 | 16.6 | 18.0 | 21.1 | 23.1 | 25.7 | 26.3 | 28.9 | 28.6 | 27.6 | 23.2 | 20.3 | 15.6 | 13.5 |
|  | Octob | 10.5 | ． 7 | 1.4 | 12.4 | 13.3 | 15.1 | 16.8 | 18.6 | 20.1 | 23.5 | 26.3 | 28.6 | 29.6 | 34.3 | 33.2 | 30.4 | 26.2 | 21.4 | 17.3 | 15.2 |
|  | Novem | 10.2 | 10.5 | ． 0 | 4.3 | 14.8 | 17.1 | 18.1 | 20.7 | 20.9 | 25.3 | 26.5 | 29.9 | 30.5 | 31.8 | 30.4 | 29.3 | 25.3 | 23.3 | 19. | 16.0 |
|  | December | 10.1 | 10.2 | 11.3 | 12.7 | 14.9 | 16.0 | 16.6 | 18.3 | 20.2 | 24.1 | 24.1 | 26.1 | 26.8 | 28.8 | 25.2 | 23.3 | 21.1 | 19.3 | 15.7 | 13.8 |
|  | Free－flow TT： 9.27 |  |  |  |  | US－60 | EB，O | utbou | und， | ural | d | Ibe | Rd， | ileag | ＝ | miles | 2006 |  |  |  |  |
|  | Corridor \＃5：PM Peak | 14：15 | 14：30 | 14：45 | 15：00 | 15：15 | 15：30 | 15：45 | 16：00 | 16：15 | 16：30 | 16：45 | 17：00 | 17：15 | 17：30 | 17：45 | 18：00 | 18：15 | 18：30 | 18：45 | 19：00 |
|  | Annual Average | 8.1 | 8.1 | 8.2 | 8.3 | 8.7 | 8.9 | 9.0 | 9.0 | 9.0 | 9.1 | 9.2 | 9.3 | 9.3 | 9.4 | 9.6 | 9.3 | 8.9 | 8.6 | 8.5 | 8.5 |
|  | MAX | 11.4 | ． 7 | 10.9 | 12.7 | 10.6 | 13.1 | 14.2 | 21.6 | 12.1 | 12.5 | 10.8 | 11.0 | 11.7 | 12.5 | 13.5 | 11.8 | 11.3 | 11.5 | 12.4 | 12.1 |
|  | MIN TT | 7.5 | 7.4 | 7.5 | 7.5 | 8.1 | 8.1 | 8.2 | 8.2 | 8.1 | 8.2 | 8.1 | 8.0 | 8.1 | 8.2 | 8.1 | 8.1 | 8.1 | 7.9 | 7.7 | 7.9 |
| $\left\|\begin{array}{c} \stackrel{\rightharpoonup}{c} \\ \vdots \end{array}\right\|$ | Median TT | 8.1 | 8.1 | 8.1 | 8.3 | 8.6 | 8.8 | 8.9 | 8.8 | 8.9 | 9.1 | 9.3 | 9.3 | 9.4 | 9.5 | 9.6 | 9.3 | 8.9 | 8.5 | 8.5 | ． 4 |
| $\sum$ | 95\％TT | 8.6 | 8.6 | 8.5 | 9.0 | 9.6 | 9.9 | 10.1 | 10.1 | 9.8 | 9.9 | 10.0 | 10.3 | 10.4 | 10.3 | 10.8 | 10.4 | 9.8 | 9.6 | 9.2 | 9.7 |
| F | Planning Time Index PTI | 1.07 | 1.08 | 1.07 | 1.13 | 1.20 | 1.24 | 1.26 | 1.26 | 1.22 | 1.24 | 1.25 | 1.29 | 1.31 | 1.29 | 1.35 | 1.30 | 1.22 | 1.20 | 1.15 | ． 21 |
| $\left\lvert\, \begin{aligned} & \circ \\ & \hline 0 \end{aligned}\right.$ | Travel Time Index TTI | 1.02 | 1.02 | 1.02 | 1.04 | 1.08 | 1.11 | 1.13 | 1.13 | 1.12 | 1.14 | 1.15 | 1.16 | 1.17 | 1.18 | 1.20 | 1.16 | 1.11 | 1.07 | 1.07 | 1.06 |
| － | Coefficient of Variation | 4\％ | 6\％ | 4\％ | 6\％ | 5\％ | 7\％ | 8\％ | 13\％ | 6\％ | 6\％ | 5\％ | 5\％ | 6\％ | 6\％ | 7\％ | 7\％ | 6\％ | 6\％ | 6\％ | 6\％ |
|  | January | 8.1 | 8.1 | ． 1 | 8.2 | 8.5 | 9.0 | 9.2 | 9.0 | 9.0 | 9.1 | 9.2 | 9.4 | 9.3 | 9.5 | 9.7 | 9.2 | 8.8 | 8.7 | 8.8 | 8.6 |
|  | February | 8.2 | 8.2 | 8． 2 | ． 5 | 8.9 | 9.3 | 9.5 | 9.7 | 9.5 | 9.5 | 9.7 | 9.7 | 9.8 | 9.5 | 10.0 | 9.6 | 9.2 | 8.8 | 8.8 | 8.7 |
|  | March | 8.3 | 8.2 | 8.3 | 8.6 | 9.2 | 9.4 | 9.8 | 10.1 | 9.3 | 9.5 | 9.6 | 9.7 | 9.8 | 9.8 | 10.0 | 9.8 | 9.2 | 9.1 | 9.0 | 8.9 |
| $1 . \overline{0}$ | Apri | 8.0 | 8.0 | 8.0 | 8.1 | 8.5 | 8.8 | 8.8 | 9.0 | 8.9 | 8.9 | 8.9 | 9.1 | 8.9 | 9.1 | 9.3 | 9.0 | 8.7 | 8.4 | 8.2 | ． 2 |
| $\stackrel{\square}{2}$ | May | 8.1 | 8.0 | 8.1 | 8.0 | 8.4 | 8.5 | 8.9 | 9.0 | 9.1 | 9.2 | 9.1 | 9.0 | 9.1 | 9.4 | 9.6 | 9.3 | 9.1 | 8.7 | 8.5 | 8.4 |
| $\|F\|$ | June | 8.4 | 8.6 | 8.3 | 8.2 | 8.3 | 8.4 | 8.5 | 8.5 | 8.5 | 8.5 | 8.6 | 8.6 | 8.7 | 8.8 | 9.0 | 8.9 | 8.7 | 8.4 | 8.5 | 8.5 |
| $\stackrel{8}{\gtrless}$ | July | 8.1 | 8.1 | 8.2 | 8.2 | 8.4 | 8.5 | 8.5 | 8.6 | 8.7 | 8.9 | 9.1 | 9.1 | 9.0 | 9.1 | 9.1 | 9.0 | 8.6 | 8.5 | 8.3 | ． |
|  | August | 8.1 | 8.2 | 8.2 | 8.4 | 8.7 | 8.9 | 9.1 | 8.9 | 9.0 | 9.2 | 9.3 | 9.4 | 9.5 | 9.5 | 9.6 | 9.4 | 9.0 | 8.5 | 8.5 | 8.5 |
| \|히 | September | 8.2 | 8.0 | 8.1 | 8.3 | 8.9 | 9.2 | 9.1 | 9.0 | 9.1 | 9.4 | 9.5 | 9.5 | 9.5 | 9.7 | 9.8 | 9.5 | 9.0 | 8.6 | 8.5 | 8.5 |
|  | October | 8. | 8.0 | 8.2 | 8.6 | 8.8 | 8.9 | 9.0 | 8.8 | 8.9 | 9.1 | 9.3 | 9.3 | 9.4 | 9.5 | 9.6 | 9.3 | 8.9 | 8.4 | 8.5 | 8.5 |
|  | November | 8.0 | 8.1 | 8.1 | 8.3 | 8.7 | 8.8 | 8.9 | 8.7 | 8.8 | 9.1 | 9.3 | 9.4 | 9.3 | 9.5 | 9.6 | 9.3 | 8.9 | 8.4 | 8.4 | ． 4 |
|  | December | 8.1 | 8.2 | 8.2 | 8.3 | 8.7 | 9.2 | 9.3 | 8.9 | 8.8 | 9.0 | 9.2 | 9.3 | 9.6 | 9.7 | 9.9 | 9.4 | 8.9 | 8.5 | 8.4 | 8.4 |
|  | Free－flow TT： 7.87 min |  |  |  |  | SR－5 | 51 NB | ，Outb | ound | I－10 | o Sh | a Blv | ，Mil | age | 8 mi | es， 2 | 06 |  |  |  |  |
|  | Corridor \＃6：PM Peak | 14：15 | 14：30 | 14：45 | 15：00 | 15：15 | 15：30 | 15：45 | 16：00 | 16：15 | 16：30 | 16：45 | 17：00 | 17：15 | 17：30 | 17：45 | 18：00 | 18：15 | 18：30 | 18：45 | 9：00 |
|  | Annual Average TT | 7.2 | 7.2 | 7.2 | 7.2 | 7.2 | 7.3 | 7.3 | 7.5 | 7.6 | 8.1 | 8.5 | 8.8 | 9.0 | 9.5 | 9.7 | 9.2 | 8.4 | 7.8 | 7.5 | 7.3 |
|  | MAX TT | 7.7 | 7.9 | 7.6 | 8.3 | 8.3 | 8.3 | 12.8 | 12.8 | 12.4 | 15.3 | 18.6 | 16.0 | 15.8 | 16.5 | 12.5 | 12.0 | 13.8 | 14.0 | 13.0 | 11.3 |
|  | MIN TT | 7.0 | 7.0 | 7.1 | 7.1 | 7.1 | 7.1 | 7.1 | 7.1 | 7.2 | 7.2 | ． 1 | 7.2 | 7.2 | 7.3 | 7.2 | 7.2 | 7.1 | 7.1 | 7.0 | 7.1 |
| $\stackrel{0}{3}$ | Median TT | 7.2 | 7.2 | 7.2 | 7.2 | 7.2 | 7.3 | 7.3 | 7.4 | 7.5 | 8.0 | 8.4 | 8.8 | 9.0 | 9.5 | 9.8 | 9.1 | 8.2 | 7.6 | 7.3 | 7.3 |
| $\Sigma$ | 95\％TT | 7.3 | 7.3 | 7.3 | 7.3 | 7.3 | 7.4 | 7.5 | 8.1 | 8.4 | 9.2 | 9.6 | 9.8 | 10.4 | 10.9 | 11.1 | 11.0 | 10.2 | 9.1 | 8.3 | 7.4 |
| F | Planning Time Index PTI | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.01 | 1.06 | 1.15 | 1.20 | 1.22 | 1.30 | 1.37 | 1.39 | 1.38 | 1.28 | 1.14 | 1.03 | 1.00 |
| 8 | Travel Time Index TTI | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.01 | 1.07 | 1.10 | 1.13 | 1.19 | 1.21 | 1.15 | 1.05 | 1.00 | 1.00 | 1.00 |
| － | Coefficient of Variation | 1\％ | 1\％ | 1\％ | 2\％ | 2\％ | 2\％ | 6\％ | 7\％ | 7\％ | 10\％ | 14\％ | 11\％ | 11\％ | 11\％ | 10\％ | 11\％ | 12\％ | 10\％ | 9\％ | 5\％ |
|  | January | 7.2 | ．1 | 7.2 | 7.2 | 7.2 | 7.2 | 7.3 | 7.4 | 7.4 | 8.0 | 8.6 | 9.1 | 9.3 | 9.8 | 10.1 | 9.8 | 8.7 | 8.1 | 7.6 | 7.3 |
|  | February | 7.2 | 7.2 | 7.1 | 7.3 | 7.3 | 7.3 | 7.3 | 7.5 | 7.6 | 8.3 | 8.7 | 9.0 | 9.3 | 9.6 | 9.9 | 9.6 | 9.1 | 8. | 7.7 | 7.5 |
|  | March | 7.2 | 7.2 | 7.2 | 7.2 | 7.3 | 7.3 | 7.7 | 7.9 | 7.8 | 8.2 | 8.8 | 9.0 | 9.1 | 9.4 | 9.6 | 9.2 | 8.3 | 7.8 | 7.4 | 7.2 |
| 完 | April | 7.2 | 7.2 | 7.2 | 7.2 | 7.2 | 7.3 | 7.3 | 7.4 | 7.7 | 8.3 | 8.6 | 8.6 | 9.0 | 9.3 | 9.3 | 9.0 | 8.2 | 7.5 | 7.3 | 7.3 |
| $\Sigma$ | May | 7.3 | 7.3 | 7.3 | 7.2 | 7.3 | 7.3 | 7.3 | 7.6 | 7.6 | 7.9 | 8.2 | 8.6 | 8.6 | 9.2 | 9.4 | 8.8 | 8.0 | 7.6 | 7.3 | 7.2 |
| F | June | 7.2 | 7.2 | 7.2 | 7.2 | 7.3 | 7.3 | 7.3 | 7.3 | 7.4 | 7.7 | 7.9 | 8.2 | 8.5 | 9.1 | 9.8 | 9.1 | 8.2 | 7.5 | 7.3 | 7.2 |
| 年 | July | 7.1 | 7.2 | 7.2 | 7.2 | 7.2 | 7.2 | 7.2 | 7.3 | 7.4 | 7.6 | 7.7 | 7.9 | 8.1 | 8.7 | 8.8 | 8.3 | 7.5 | 7.3 | 7.2 | 7.2 |
| 를 | August | 7.1 | 7.1 | 7.1 | 7.2 | 7.2 | 7.2 | 7.2 | 7.4 | 7.7 | 8.3 | 8.8 | 9.1 | 9.2 | 9.9 | 9.8 | 9.2 | 8.1 | 7.4 | 7.2 | 7.2 |
| 言 | September | 7.2 | 7.2 | 7.2 | 7.2 | 7.3 | 7.4 | 7.3 | 7.5 | 7.5 | 8.1 | 8.5 | 8.9 | 9.2 | 9.8 | 10.1 | 9.6 | 8.5 | 7.9 | 7.4 | 7.2 |
| $\Sigma$ | October | 7.2 | 7.2 | 7.2 | 7.2 | 7.2 | 7.4 | 7.4 | 7.7 | 7.7 | 8.5 | 8.9 | 9.0 | 9.4 | 9.9 | 10.4 | 9.9 | 9.1 | 8.1 | 7.6 | 7.3 |
|  | November | 7.2 | 7.2 | 7.2 | 7.2 | 7.2 | 7.3 | 7.4 | 7.6 | 7.8 | 8.4 | 8.8 | 9.1 | 9.3 | 9.5 | 9.8 | 9.3 | 8.9 | 8.5 | 7.9 | 7.6 |
|  | December | 7.2 | 7.1 | 7.2 | 7.2 | 7.2 | 7.2 | 7.3 | 7.5 | 7.7 | 8.1 | 8.9 | 9.1 | 9.2 | 9.6 | 9.6 | 9.0 | 8.3 | 7.8 | 7.6 | 7.3 |

Monthly Average Travel Time during Peak Periods (5-10am, 2-7pm) by Corridors Travel Time Pattern by Month and Time


## Travel Time Data Collection Worksheet

Complete the following worksheet for travel time data used in the calculation of performance measures.
Travel time data is based on:

## x Speed Sensors <br> Vehicle Probe Methods <br> Other - please describe

## Speed Sensors:

Type of Speed Detectors Used - > Dual-loop and Passive Acoustic detectors
Density of detectors -> every 2-3 miles
Are they uniformly spaced? (if not, explain)-> Yes
Method used to convert speed to travel time estimates -> Link travel time is estimated by taking the average of speed measures from two ends as link's space-mean speed.
Maintenance and quality control procedures -> Detector count and speed measuring is evaluated by eye-ball count benchmark and LIDAR gun speed measurement. Raw data screening process filters out invalid records, value interpolation is then applied.

## Vehicle Probes:

Probe technology (i.e. floating vehicle, toll tags, GPS AVL, etc.) ->
Sample size and anticipated level of accuracy ->
Validation procedures (if travel time data is contracted) ->

## Other:

Description of technology ->
Method to determine and validate accuracy ->

## For all methods:

Provide estimate of the cost of data collection:
Equipment: ADOT FMS data is shared with MAG at no cost.
Staff time: Program Manager time: Approximately 12 hours total. Data Analyst time: a minimum of 50 hours total.
Consultant support: TTI assisted in setting up the prototype freeway mobility report.
Contracted services: TTI assisted in setting up the prototype freeway mobility report.
Overall estimate: Total staff time 62 hours.
Does the data support other programs or applications. (For example, video based speed detection may be an outgrowth of a video surveillance program that support a traffic control center.)

Provide a log of any changes, calibrations, or technology updates during the study period that may cause fluctuation in the data not attributed to traffic flow.

