

Oxford PR Sites VISSIM Assessment Bus Impact Note Addendum

August 2023

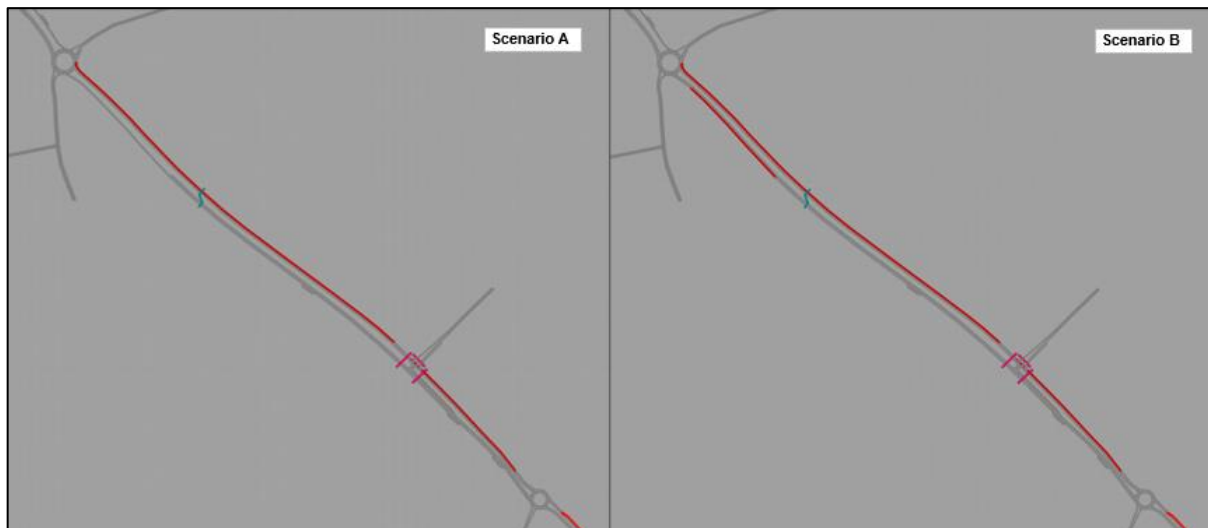
Introduction

1. This Note accompanies the Bus Impact Note issued on 2nd August 2023.
2. Two further tests have been undertaken and involve the addition of bus lanes to the DS scenarios. These tests have been assessed in all three mode shift scenarios (Low, Core, and High).
3. An analysis of the bus journey times along key routes across the model extent are given in the following sections. The full breakdown of the journey times along the sections making up the routes presented in Table 1 and Table 2 can be found in Appendix A at the end of this document.

Bus Lane Test Scenarios

4. The two bus lane tests are:
 - a. A southbound bus lane added between the A44/Sandy Lane/Rutten Lane Roundabout and Cassington Road Roundabout.
 - b. Above, plus a northbound bus lane added on the approach to the A44/Sandy Lane/Rutten Lane Roundabout.
5. The model coding for Scenario A (SB only bus lane), and Scenario B (NB + SB bus lanes), is shown below in Figure 1. The bus lane sections are highlighted in red.

Figure 1: Bus Lane Set-Up in VISSIM



AM Peak Results

6. The Table overleaf shows the bus journey time differences along the three main corridors in the model covered by bus routes, namely the A44/A4144 NB/SB, A4260/A4165 NB/SB, and A40 EB/WB. Each scenario has been compared to the 2031 Reference Case for the relevant time period and demonstrates the journey time change.

Table 1: AM Bus Journey Time Changes (seconds) in Comparison to Ref

| Route | 07:00-08:00 | | | | | | | | |
|----------------|----------------|--------|--------|-----------------|--------|--------|-----------------|--------|--------|
| | Low Mode Shift | | | Core Mode Shift | | | High Mode Shift | | |
| | DS | DS ScA | DS ScB | DS | DS ScA | DS ScB | DS | DS ScA | DS ScB |
| A44/A4144 NB | 138 | 131 | 110 | 129 | 131 | 109 | 118 | 135 | 102 |
| A44/A4144 SB | 215 | 104 | 122 | 160 | 83 | 82 | 97 | 62 | 59 |
| A4260/A4165 NB | 58 | 42 | 44 | 71 | 57 | 38 | 50 | 26 | 45 |
| A4260/A4165 SB | 9 | 10 | -2 | 24 | -18 | 4 | -18 | -17 | -6 |
| A40 EB | 10 | 7 | 2 | 25 | 4 | 4 | 5 | 9 | 10 |
| A40 WB | -1 | -5 | 2 | 0 | -5 | 0 | 2 | -2 | -3 |
| Route | 08:00-09:00 | | | | | | | | |
| | Low Mode Shift | | | Core Mode Shift | | | High Mode Shift | | |
| | DS | DS ScA | DS ScB | DS | DS ScA | DS ScB | DS | DS ScA | DS ScB |
| A44/A4144 NB | 224 | 134 | 161 | 226 | 145 | 132 | 145 | 125 | 91 |
| A44/A4144 SB | 490 | 135 | 186 | 371 | 147 | 117 | 226 | 44 | 55 |
| A4260/A4165 NB | 112 | 79 | 56 | 29 | 41 | 49 | 67 | 23 | 33 |
| A4260/A4165 SB | -27 | -58 | -47 | -105 | -126 | -91 | -129 | -149 | -118 |
| A40 EB | 20 | 3 | 56 | 25 | -10 | -9 | 6 | -15 | -4 |
| A40 WB | 3 | 0 | 1 | 1 | -1 | 8 | 4 | 3 | 10 |
| Route | 09:00-10:00 | | | | | | | | |
| | Low Mode Shift | | | Core Mode Shift | | | High Mode Shift | | |
| | DS | DS ScA | DS ScB | DS | DS ScA | DS ScB | DS | DS ScA | DS ScB |
| A44/A4144 NB | 376 | 181 | 211 | 217 | 121 | 134 | 130 | 114 | 95 |
| A44/A4144 SB | 529 | 180 | 218 | 555 | 255 | 214 | 192 | 94 | 111 |
| A4260/A4165 NB | 379 | 403 | 312 | 67 | 47 | 165 | 38 | -4 | 38 |
| A4260/A4165 SB | 75 | 135 | 132 | -16 | -19 | -13 | -14 | -15 | 0 |
| A40 EB | 191 | 92 | 264 | 77 | -16 | -26 | -10 | -28 | -32 |
| A40 WB | 1 | 0 | 0 | -9 | -2 | -1 | -3 | -4 | 0 |

7. Results show that the addition of the southbound bus lane results in journey time improvements on the A44/A144 SB and NB routes. The main journey time saving on the A44 SB is between Sandy Lane and Cassington Road roundabouts, where the new bus lane is located. The individual journey time sections along this route demonstrate that some delay is shifted north of the Sandy Lane roundabout as private vehicles lose the second lane between Sandy Lane and Cassington. Overall however, the southbound buses show a considerable net reduction in journey times compared to the original DS scenarios.
8. The A44/A144 NB route also improves in Scenario A, primarily on the northbound section between Cassington Lane and Sandy Lane. This appears to be because vehicles on the A44 northbound approach to Sandy Lane are slightly less hesitant due to fewer lane changes on the roundabout when private vehicles can only use the one lane to exit southbound. Furthermore, delays on the southbound approach to the roundabout have increased (due to private vehicles losing a lane to the bus lane), which reduces throughput north to south at Sandy Lane meaning fewer trips and more gap opportunities for vehicles travelling northbound.
9. When the northbound bus lane section is added in Scenario B, the A44 northbound generally shows additional journey time reductions as the buses are able to bypass the queues on the approach to Sandy Lane roundabout. It is demonstrated in the individual journey time sections in Appendix A that instances where the northbound route has higher journey times in ScB compared with ScA are because of small journey time variations elsewhere; A44 northbound to Sandy Lane improves in all B scenarios compared to A.

PM Peak Results

10. The Table below displays the journey time changes compared to the Reference Case for the PM peak.

Table 2: PM Bus Journey Time Changes (seconds) in Comparison to Ref

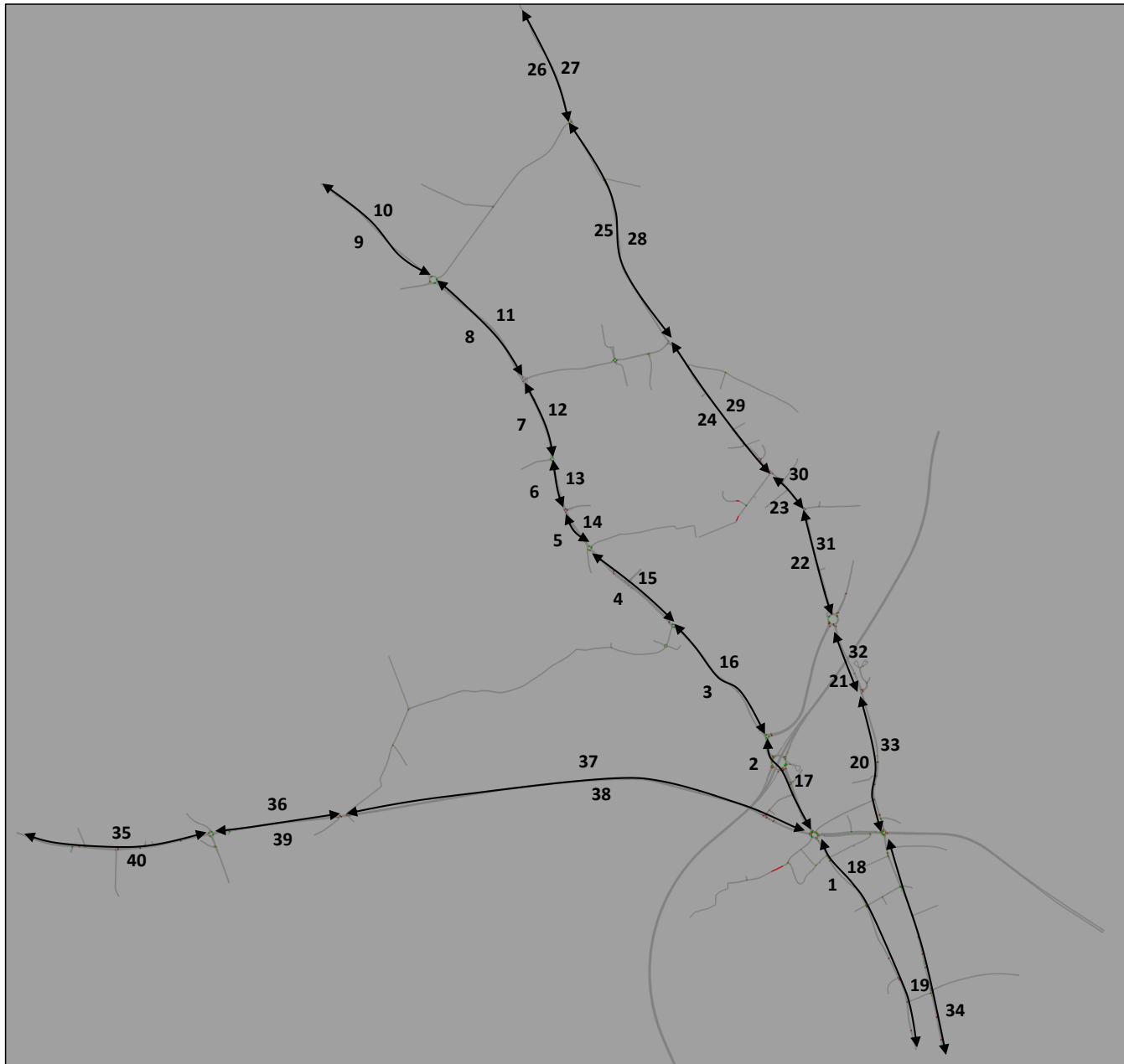
| Route | 15:00-16:00 | | | | | | | | |
|----------------|----------------|--------|--------|-----------------|--------|--------|-----------------|--------|--------|
| | Low Mode Shift | | | Core Mode Shift | | | High Mode Shift | | |
| | DS | DS ScA | DS ScB | DS | DS ScA | DS ScB | DS | DS ScA | DS ScB |
| A44/A4144 NB | 91 | 88 | 79 | 75 | 75 | 69 | 74 | 73 | 69 |
| A44/A4144 SB | 110 | 98 | 85 | 99 | 81 | 95 | 93 | 82 | 90 |
| A4260/A4165 NB | 30 | 34 | 32 | 27 | 16 | 27 | 16 | 19 | 15 |
| A4260/A4165 SB | 36 | 32 | 36 | 34 | 35 | 28 | 38 | 32 | 34 |
| A40 EB | 12 | 14 | 12 | 15 | 25 | 18 | 11 | 7 | 22 |
| A40 WB | -5 | -3 | -1 | -1 | -2 | 2 | 0 | 0 | -4 |
| Route | 16:00-17:00 | | | | | | | | |
| | Low Mode Shift | | | Core Mode Shift | | | High Mode Shift | | |
| | DS | DS ScA | DS ScB | DS | DS ScA | DS ScB | DS | DS ScA | DS ScB |
| A44/A4144 NB | 84 | 66 | 78 | 80 | 72 | 70 | 65 | 68 | 49 |
| A44/A4144 SB | 352 | 156 | 172 | 297 | 171 | 153 | 284 | 144 | 168 |
| A4260/A4165 NB | 48 | 43 | 58 | 37 | 43 | 37 | 38 | 45 | 23 |
| A4260/A4165 SB | 57 | 49 | 61 | 66 | 60 | 54 | 50 | 39 | 40 |
| A40 EB | 21 | 22 | 26 | 12 | 17 | 17 | 4 | 5 | 4 |
| A40 WB | 1 | -4 | 5 | 4 | -3 | -1 | 3 | 3 | 0 |
| Route | 17:00-18:00 | | | | | | | | |
| | Low Mode Shift | | | Core Mode Shift | | | High Mode Shift | | |
| | DS | DS ScA | DS ScB | DS | DS ScA | DS ScB | DS | DS ScA | DS ScB |
| A44/A4144 NB | 72 | 46 | 68 | 51 | 47 | 48 | 39 | 31 | 32 |
| A44/A4144 SB | 799 | 233 | 279 | 790 | 266 | 227 | 711 | 207 | 207 |
| A4260/A4165 NB | 68 | 63 | 73 | 53 | 39 | 47 | 22 | 31 | 25 |
| A4260/A4165 SB | 91 | 75 | 63 | 69 | 55 | 62 | 79 | 59 | 52 |
| A40 EB | 9 | 11 | 13 | 9 | 7 | 9 | 5 | 9 | 13 |
| A40 WB | -4 | -1 | -7 | -10 | -13 | -7 | 1 | -4 | -4 |

11. Like the AM, the addition of the southbound bus lane means journey times improve in Scenarios A and B on the A44/A4144 NB and SB. The southbound journey times reduce significantly in the third peak hour, with time savings of over 8 minutes in all mode shift scenarios compared to each original DS. These improvements are focused on the bus lane section between Sandy Lane and Cassington Road. Similar to the AM, there are some delay shifts just north of Sandy Lane roundabout as private vehicles lose stacking space on the approach to Cassington.
12. Journey time reductions are observed on A44 northbound to Sandy Lane in both Scenario A and Scenario B compared to the original DS. These are a result of the same reasons as mentioned for the AM. Scenario B does not show as much additional journey time saving on average over Scenario A in the PM as it does in the AM. This is because delays on the northbound approach to Sandy Lane are not as significant in the PM, and so there is limited benefit to be had from the northbound bus lane.



Appendix A

Journey Times by Section



AM

| Route | Section | Journey Time (Seconds) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|----------------|--|---|---------------|--------------------|---------|----------------|---------------------|---------|----------------|---------------------|-----|--------|---------------|--------------------|-------------|----------------|---------------------|---------|----------------|---------------------|-----|--------|---------------|--------------------|---------|----------------|---------------------|---------|----------------|---------------------|-----|-----|--|--|--|--|--|--|--|--|--|--|
| | | 07:00-08:00 | | | | | | | | | | | | | | 08:00-09:00 | | | | | | | | | | | | | | 09:00-10:00 | | | | | | | | | | | | | |
| | | Ref | DS Low | DS Low SB Bus | DS Low NB + SB Bus | DS Core | DS Core SB Bus | DS Core NB + SB Bus | DS High | DS High SB Bus | DS High NB + SB Bus | Ref | DS Low | DS Low SB Bus | DS Low NB + SB Bus | DS Core | DS Core SB Bus | DS Core NB + SB Bus | DS High | DS High SB Bus | DS High NB + SB Bus | Ref | DS Low | DS Low SB Bus | DS Low NB + SB Bus | DS Core | DS Core SB Bus | DS Core NB + SB Bus | DS High | DS High SB Bus | DS High NB + SB Bus | | | | | | | | | | | | |
| A44/A4144 NB | 1 | A4144 Woodstock Rd NB to Wolvercote Roundabout | 368 | 382 | 385 | 383 | 385 | 389 | 385 | 382 | 387 | 384 | 361 | 383 | 381 | 383 | 381 | 388 | 381 | 376 | 389 | 376 | 367 | 390 | 386 | 385 | 383 | 393 | 384 | 379 | 390 | 381 | | | | | | | | | | | |
| | 2 | A44 Woodstock Rd NB Wolvercote Roundabout to Loop Farm Roundabout | 146 | 176 | 178 | 172 | 177 | 170 | 169 | 169 | 170 | 164 | 166 | 196 | 195 | 228 | 212 | 183 | 182 | 177 | 175 | 174 | 163 | 258 | 248 | 271 | 200 | 180 | 180 | 173 | 178 | 173 | | | | | | | | | | | |
| | 3 | A44 Woodstock Rd NB Loop Farm Roundabout to Cassington Rd | 80 | 89 | 88 | 89 | 87 | 88 | 88 | 87 | 88 | 88 | 85 | 93 | 93 | 91 | 96 | 93 | 90 | 89 | 90 | 89 | 80 | 86 | 84 | 87 | 83 | 82 | 81 | 85 | 82 | 83 | | | | | | | | | | | |
| | 4 | A44 Woodstock Rd NB Cassington Rd to Sandy Lane | 93 | 142 | 124 | 108 | 127 | 126 | 120 | 129 | 128 | 109 | 109 | 220 | 135 | 114 | 215 | 143 | 121 | 175 | 136 | 132 | 95 | 272 | 128 | 115 | 186 | 133 | 122 | 159 | 128 | 111 | | | | | | | | | | | |
| | 5 | A44 Woodstock Rd NB Sandy Lane to Begbroke HI | 27 | 32 | 34 | 35 | 34 | 33 | 36 | 35 | 40 | 38 | 29 | 40 | 47 | 56 | 46 | 62 | 79 | 48 | 50 | 59 | 28 | 68 | 32 | 44 | 55 | 36 | 64 | 34 | 38 | 41 | | | | | | | | | | | |
| | 6 | A44 Woodstock Rd NB Begbroke HI to Spring Hill Rd | 33 | 59 | 61 | 62 | 60 | 65 | 63 | 56 | 63 | 61 | 37 | 69 | 68 | 70 | 66 | 66 | 65 | 64 | 71 | 66 | 33 | 64 | 65 | 69 | 65 | 63 | 62 | 62 | 64 | 65 | | | | | | | | | | | |
| | 7 | A44 Woodstock Rd NB Spring Hill Rd to Langford Ln | 55 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 57 | 57 | 56 | 56 | 57 | 55 | 56 | 56 | 54 | 56 | 56 | 56 | 55 | 55 | 56 | 56 | 55 | 56 | | | | | | | | | | | |
| | 8 | A44 Woodstock Rd NB Langford Ln to Bladon Roundabout | 90 | 93 | 93 | 93 | 93 | 93 | 93 | 93 | 93 | 93 | 93 | 93 | 93 | 93 | 92 | 93 | 93 | 93 | 94 | 94 | 92 | 92 | 93 | 92 | 93 | 92 | 92 | 92 | 92 | 93 | | | | | | | | | | | |
| | 9 | A44 Woodstock Rd NB from Bladon Roundabout | 99 | 102 | 102 | 102 | 101 | 100 | 100 | 101 | 100 | 101 | 102 | 101 | 102 | 102 | 102 | 102 | 103 | 102 | 101 | 102 | 102 | 102 | 104 | 103 | 104 | 104 | 102 | 102 | 105 | 103 | 102 | | | | | | | | | | |
| A44/A4144 SB | 10 | A44 Woodstock Rd SB to Bladon Roundabout | 130 | 128 | 127 | 127 | 126 | 127 | 126 | 128 | 127 | 128 | 126 | 126 | 127 | 127 | 126 | 127 | 124 | 124 | 124 | 124 | 124 | 124 | 124 | 124 | 124 | 124 | 124 | 124 | 123 | 124 | | | | | | | | | | | |
| | 11 | A44 Woodstock Rd SB Bladon Roundabout to Langford Ln | 79 | 79 | 78 | 79 | 78 | 79 | 78 | 79 | 78 | 78 | 82 | 80 | 79 | 80 | 79 | 79 | 79 | 78 | 78 | 79 | 78 | 78 | 78 | 78 | 78 | 78 | 78 | 78 | 78 | 78 | | | | | | | | | | | |
| | 12 | A44 Woodstock Rd SB Langford Ln to Spring Hill Rd | 93 | 72 | 74 | 71 | 68 | 74 | 72 | 71 | 71 | 70 | 119 | 82 | 76 | 85 | 74 | 79 | 75 | 72 | 76 | 71 | 63 | 66 | 65 | 66 | 67 | 72 | 68 | 66 | 64 | 63 | | | | | | | | | | | |
| | 13 | A44 Woodstock Rd SB Spring Hill Rd to Begbroke HI | 27 | 76 | 94 | 99 | 80 | 77 | 77 | 72 | 77 | 70 | 30 | 78 | 102 | 121 | 72 | 127 | 93 | 76 | 81 | 78 | 26 | 75 | 91 | 128 | 78 | 192 | 116 | 73 | 82 | 74 | | | | | | | | | | | |
| | 14 | A44 Woodstock Rd SB Begbroke HI to Sandy Ln | 41 | 77 | 91 | 94 | 67 | 77 | 83 | 66 | 72 | 72 | 62 | 82 | 119 | 118 | 73 | 114 | 107 | 81 | 88 | 102 | 41 | 55 | 64 | 75 | 63 | 81 | 73 | 60 | 62 | 61 | | | | | | | | | | | |
| | 15 | A44 Woodstock Rd SB Sandy Lane to Cassington Rd | 70 | 225 | 82 | 81 | 181 | 82 | 81 | 128 | 80 | 80 | 71 | 484 | 82 | 86 | 404 | 84 | 83 | 262 | 84 | 84 | 90 | 436 | 84 | 85 | 414 | 81 | 82 | 187 | 77 | 78 | | | | | | | | | | | |
| | 16 | A44 Woodstock Rd SB Cassington Rd to Loop Farm Roundabout | 95 | 94 | 94 | 94 | 97 | 95 | 94 | 93 | 94 | 97 | 102 | 99 | 100 | 98 | 96 | 100 | 96 | 94 | 95 | 106 | 130 | 121 | 126 | 129 | 103 | 114 | 102 | 99 | 105 | | | | | | | | | | | | |
| | 17 | A44 Woodstock Rd SB Loop Farm Roundabout to Wolvercote Roundabout | 157 | 163 | 165 | 164 | 163 | 164 | 161 | 160 | 162 | 160 | 215 | 255 | 233 | 260 | 239 | 233 | 244 | 224 | 198 | 214 | 249 | 335 | 320 | 310 | 320 | 375 | 290 | 330 | 274 | 278 | | | | | | | | | | | |
| | 18 | A4144 Woodstock Rd SB from Wolvercote Roundabout | 399 | 394 | 391 | 404 | 391 | 399 | 400 | 392 | 393 | 398 | 578 | 583 | 600 | 591 | 588 | 591 | 593 | 594 | 592 | 590 | 367 | 375 | 380 | 371 | 373 | 379 | 376 | 374 | 377 | 375 | | | | | | | | | | | |
| A4260/A4165 NB | 19 | A4165 Banbury Rd NB to Cutteslowe Roundabout | 328 | 336 | 336 | 339 | 336 | 336 | 334 | 335 | 328 | 337 | 391 | 396 | 382 | 374 | 363 | 381 | 365 | 354 | 361 | 348 | 676 | 689 | 691 | 371 | 371 | 459 | 356 | 343 | 353 | | | | | | | | | | | | |
| | 20 | A4165 Banbury Rd / Oxford Rd NB Cutteslowe Roundabout to Park and Ride | 234 | 237 | 260 | 259 | 259 | 259 | 258 | 257 | 258 | 243 | 268 | 265 | 266 | 266 | 271 | 270 | 269 | 271 | 270 | 240 | 267 | 268 | 266 | 264 | 261 | 264 | 266 | 263 | 264 | | | | | | | | | | | | |
| | 21 | Oxford Rd NB Park and Ride to Killington Roundabout | 92 | 94 | 93 | 93 | 94 | 94 | 96 | 94 | 94 | 94 | 92 | 94 | 92 | 94 | 94 | 92 | 91 | 91 | 94 | 92 | 90 | 90 | 93 | 92 | 90 | 90 | 91 | 91 | 91 | | | | | | | | | | | | |
| | 22 | A4260 Oxford Rd NB Killington Roundabout to Bicester Rd | 117 | 118 | 117 | 118 | 120 | 117 | 115 | 119 | 119 | 118 | 121 | 127 | 126 | 121 | 122 | 126 | 126 | 128 | 124 | 123 | 119 | 123 | 127 | 125 | 117 | 115 | 118 | 117 | 116 | 118 | | | | | | | | | | | |
| | 23 | A4260 Oxford Rd NB Bicester Rd to Yarnton Rd | 56 | 59 | 57 | 57 | 60 | 58 | 58 | 58 | 55 | 58 | 66 | 70 | 68 | 70 | 65 | 64 | 66 | 64 | 67 | 65 | 68 | 68 | 69 | 68 | 63 | 64 | 65 | 63 | 63 | | | | | | | | | | | | |
| | 24 | A4260 Oxford Rd NB Yarnton Rd to Langford Ln | 225 | 242 | 232 | 229 | 247 | 244 | 233 | 233 | 228 | 233 | 279 | 327 | 310 | 290 | 274 | 296 | 283 | 317 | 282 | 290 | 268 | 288 | 294 | 265 | 293 | 269 | 316 | 276 | 252 | 279 | | | | | | | | | | | |
| | 25 | A4260 Banbury Rd NB Langford Ln to A4095 | 151 | 152 | 152 | 148 | 153 | 153 | 152 | 152 | 149 | 153 | 148 | 151 | 144 | 152 | 148 | 149 | 149 | 147 | 147 | 151 | 151 | 153 | 148 | 150 | 150 | 148 | 150 | 150 | 148 | 148 | | | | | | | | | | | |
| | 26 | A4260 Banbury Rd NB from A4095 | 119 | 121 | 118 | 122 | 125 | 125 | 116 | 124 | 118 | 123 | 123 | 122 | 115 | 120 | 124 | 118 | 121 | 123 | 122 | 118 | 118 | 115 | 116 | 116 | 117 | 120 | 121 | 125 | 122 | 118 | | | | | | | | | | | |
| | A4260/A4165 SB | 27 | A4260 Banbury Rd SB to A4095 | 136 | 134 | 134 | 134 | 131 | 131 | 131 | 129 | 129 | 138 | 130 | 130 | 131 | 130 | 130 | 130 | 134 | 134 | 133 | 128 | 126 | 127 | 127 | 127 | 126 | 124 | 130 | 131 | 132 | | | | | | | | | | | |
| 28 | | A4260 Banbury Rd SB A4095 to Langford Ln | 175 | 185 | 173 | 170 | 215 | 169 | 183 | 175 | 171 | 172 | 228 | 240 | 207 | 211 | 208 | 197 | 213 | 186 | 177 | 203 | 174 | 174 | 187 | 173 | 171 | 169 | 179 | 171 | 180 | | | | | | | | | | | | |
| 29 | | A4260 Oxford Rd SB Langford Ln to Yarnton Rd | 237 | 234 | 238 | 236 | 234 | 232 | 234 | 234 | 231 | 234 | 247 | 249 | 243 | 245 | 238 | 233 | 235 | 238 | 237 | 238 | 243 | 247 | 241 | 247 | 239 | 238 | 237 | 233 | 237 | | | | | | | | | | | | |
| 30 | | A4260 Oxford Road SB Yarnton Rd to Bicester Rd | 77 | 78 | 75 | 74 | 72 | 72 | 72 | 72 | 74 | 75 | 80 | 78 | 80 | 79 | 76 | 76 | 76 | 76 | 76 | 76 | 73 | 78 | 82 | 82 | 73 | 73 | 70 | 72 | 73 | 75 | | | | | | | | | | | |
| 31 | | A4260 Oxford Rd SB Bicester Rd to Killington Roundabout | 114 | 113 | 113 | 114 | 113 | 112 | 112 | 113 | 113 | 114 | 114 | 114 | 114 | 114 | 113 | 113 | 113 | 113 | 112 | 113 | 115 | 117 | 119 | 122 | 113 | 113 | 113 | 114 | 114 | | | | | | | | | | | | |
| 32 | | Oxford Rd SB Killington Roundabout to Park and Ride | 74 | 76 | 74 | 75 | 75 | 75 | 75 | 74 | 75 | 74 | 74 | 75 | 73 | 74 | 74 | 74 | 74 | 74 | 74 | 74 | 74 | 73 | 77 | 80 | 72 | 73 | 72 | 72 | 72 | | | | | | | | | | | | |
| 33 | | A4165 Banbury Rd / Oxford Rd SB Park and Ride to Cutteslowe Roundabout | 241 | 268 | 265 | 266 | 263 | 264 | 264 | 259 | 262 | 264 | 278 | 271 | 272 | 275 | 264 | 266 | 269 | 263 | 262 | 265 | 236 | 327 | 363 | 354 | 364 | 260 | 259 | 261 | 259 | 258 | | | | | | | | | | | |
| 34 | | A4165 Banbury Rd SB from Cutteslowe Roundabout | 418 | 393 | 410 | 401 | 393 | 399 | 404 | 396 | 400 | 404 | 502 | 478 | 483 | 487 | 454 | 447 | 461 | 468 | 440 | 439 | 391 | 368 | 373 | 381 | 364 | 365 | 365 | 362 | 363 | 366 | | | | | | | | | | | |
| A40 EB | | 35 | A40 Eynsham Rd EB to Eynsham Roundabout | 182 | 180 | 180 | 182 | 181 | 182 | 181 | 182 | 180 | 181 | 180 | 181 | 180 | 179 | 180 | 178 | 178 | 178 | 178 | 177 | 175 | 174 | 175 | 174 | 174 | 174 | 174 | 175 | 174 | | | | | | | | | | | |
| | 36 | A40 Eynsham Rd EB Eynsham Roundabout to signals | 115 | 115 | 115 | 116 | 115 | 115 | 115 | 115 | 116 | 116 | 110 | 110 | 110 | 109 | 110 | 110 | 110 | 110 | 110 | 111 | 111 | 111 | 111 | 110 | 111 | 111 | 110 | 110 | 110 | | | | | | | | | | | | |
| | 37 | A40 EB Eynsham Rd to Wolvercote Roundabout | 391 | 405 | 401 | 394 | 417 | 395 | 397 | 396 | 402 | 401 | 409 | 428 | 409 | 464 | 434 | 399 | 400 | 416 | 395 | 405 | 419 | 612 | 515 | 686 | 500 | 405 | 397 | 412 | 394 | 392 | | | | | | | | | | | |
| A40 WB | 38 | A40 WB Wolvercote Roundabout to Eynsham Rd | 250 | 249 | 248 | 251 | 250 | 248 | 253 | 251 | 249 | 249 | 246 | 248 | 246 | 245 | 245 | 249 | 250 | 249 | 250 | 249 | 249 | 250 | 250 | 248 | 249 | 251 | 252 | 248 | 248 | | | | | | | | | | | | |
| | 39 | A40 Eynsham Rd WB signals to Eynsham Roundabout | 86 | 84 | 84 | 85 | 85 | 84 | 85 | 86 | 86 | 85 | 91 | 97 | 91 | 96 | 93 | 91 | 99 | 92 | 92 | 96 | 99 | 100 | 97 | 98 | 93 | 95 | 96 | 96 | 95 | | | | | | | | | | | | |
| | 40 | A40 Eynsham Rd WB from Eynsham Roundabout | 116 | 118 | 115 | 119 | 117 | 116 | 115 | 117 | 116 | 117 | 115 | 114 | 116 | 114 | 117 | 118 | 115 | 117 | 118 | 117 | 117 | 118 | 118 | 118 | 115 | 117 | 116 | 118 | 118 | | | | | | | | | | | | |

PM

| Route | Section | Journey Time (Seconds) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|--|--|--|---------------|--------------------|---------|----------------|---------------------|---------|----------------|---------------------|-----|--------|---------------|--------------------|---------|----------------|---------------------|---------|----------------|---------------------|-----|--------|---------------|--------------------|---------|----------------|---------------------|---------|----------------|---------------------|-----|-----|--|--|--|--|-------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| | | 15:00-16:00 | | | | | | | | | | | | | | | | | | 16:00-17:00 | | | | | | | | | | | | | | | | | | 17:00-18:00 | | | | | | | | | | | | | | | | | |
| | | Ref | DS Low | DS Low SB Bus | DS Low NB + SB Bus | DS Core | DS Core SB Bus | DS Core NB + SB Bus | DS High | DS High SB Bus | DS High NB + SB Bus | Ref | DS Low | DS Low SB Bus | DS Low NB + SB Bus | DS Core | DS Core SB Bus | DS Core NB + SB Bus | DS High | DS High SB Bus | DS High NB + SB Bus | Ref | DS Low | DS Low SB Bus | DS Low NB + SB Bus | DS Core | DS Core SB Bus | DS Core NB + SB Bus | DS High | DS High SB Bus | DS High NB + SB Bus | | | | | | | | | | | | | | | | | | | | | | | | |
| A44/A4144 NB | 1 | A4144 Woodstock Rd NB to Wolvercote Roundabout | 369 | 383 | 380 | 381 | 378 | 377 | 378 | 377 | 376 | 378 | 378 | 385 | 384 | 383 | 385 | 386 | 385 | 383 | 383 | 382 | 394 | 401 | 401 | 401 | 399 | 397 | 400 | 394 | 395 | 395 | | | | | | | | | | | | | | | | | | | | | | | |
| | 2 | A44 Woodstock Rd NB Wolvercote Roundabout to Loop Farm Roundabout | 148 | 165 | 162 | 159 | 155 | 155 | 153 | 153 | 156 | 155 | 172 | 188 | 179 | 196 | 186 | 178 | 191 | 175 | 181 | 175 | 175 | 195 | 185 | 209 | 182 | 191 | 193 | 172 | 178 | 181 | | | | | | | | | | | | | | | | | | | | | | | |
| | 3 | A44 Woodstock Rd NB Loop Farm Roundabout to Cassington Rd | 78 | 81 | 80 | 80 | 81 | 82 | 82 | 80 | 81 | 81 | 82 | 83 | 83 | 83 | 82 | 83 | 83 | 82 | 81 | 81 | 86 | 85 | 85 | 85 | 85 | 83 | 84 | 84 | 83 | 83 | | | | | | | | | | | | | | | | | | | | | | | |
| | 4 | A44 Woodstock Rd NB Cassington Rd to Sandy Lane | 87 | 116 | 113 | 108 | 116 | 113 | 109 | 115 | 112 | 108 | 97 | 119 | 115 | 109 | 118 | 112 | 108 | 119 | 113 | 106 | 100 | 121 | 117 | 108 | 119 | 116 | 108 | 122 | 116 | 108 | | | | | | | | | | | | | | | | | | | | | | | |
| | 5 | A44 Woodstock Rd NB Sandy Lane to Begbroke Hill | 28 | 24 | 25 | 25 | 24 | 25 | 24 | 24 | 24 | 25 | 29 | 27 | 28 | 28 | 26 | 27 | 27 | 26 | 28 | 27 | 28 | 26 | 26 | 26 | 26 | 26 | 26 | 28 | 25 | 29 | | | | | | | | | | | | | | | | | | | | | | | |
| | 6 | A44 Woodstock Rd NB Begbroke Hill to Spring Hill Rd | 34 | 64 | 71 | 67 | 63 | 64 | 63 | 67 | 65 | 62 | 37 | 72 | 65 | 68 | 71 | 73 | 67 | 69 | 67 | 68 | 48 | 74 | 72 | 73 | 73 | 73 | 70 | 77 | 72 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 7 | A44 Woodstock Rd NB Spring Hill Rd to Langford Ln | 55 | 56 | 55 | 56 | 56 | 56 | 56 | 55 | 56 | 56 | 55 | 55 | 56 | 56 | 55 | 56 | 55 | 55 | 56 | 55 | 57 | 57 | 57 | 56 | 56 | 56 | 57 | 57 | 56 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 8 | A44 Woodstock Rd NB Langford Ln to Bladon Roundabout | 92 | 92 | 91 | 93 | 93 | 93 | 93 | 92 | 93 | 93 | 93 | 94 | 95 | 94 | 95 | 95 | 94 | 94 | 96 | 94 | 108 | 109 | 99 | 101 | 105 | 99 | 104 | 104 | 99 | 104 | | | | | | | | | | | | | | | | | | | | | | | |
| | 9 | A44 Woodstock Rd NB Bladon Roundabout | 102 | 102 | 103 | 103 | 102 | 103 | 103 | 104 | 104 | 104 | 103 | 102 | 103 | 103 | 104 | 104 | 102 | 104 | 103 | 103 | 106 | 105 | 106 | 106 | 105 | 107 | 105 | 105 | 105 | 105 | | | | | | | | | | | | | | | | | | | | | | | |
| | A44/A4144 SB | 10 | A44 Woodstock Rd SB to Bladon Roundabout | 121 | 120 | 121 | 121 | 121 | 122 | 121 | 120 | 120 | 125 | 123 | 123 | 123 | 123 | 123 | 123 | 123 | 124 | 124 | 124 | 124 | 124 | 124 | 124 | 123 | 123 | 124 | 122 | 123 | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | | A44 Woodstock Rd SB Bladon Roundabout to Langford Ln | 77 | 77 | 78 | 77 | 78 | 77 | 77 | 77 | 77 | 77 | 77 | 77 | 78 | 77 | 77 | 77 | 77 | 77 | 77 | 77 | 77 | 77 | 77 | 77 | 77 | 77 | 77 | 77 | 77 | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | A44 Woodstock Rd SB Langford Ln to Spring Hill Rd | 61 | 60 | 61 | 59 | 60 | 60 | 59 | 60 | 60 | 59 | 66 | 61 | 63 | 60 | 61 | 64 | 61 | 61 | 62 | 62 | 70 | 67 | 64 | 64 | 66 | 61 | 61 | 64 | 61 | 63 | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | | A44 Woodstock Rd SB Spring Hill Rd to Begbroke Hill | 28 | 54 | 56 | 54 | 54 | 56 | 57 | 56 | 54 | 57 | 31 | 60 | 73 | 72 | 58 | 86 | 71 | 61 | 63 | 67 | 30 | 65 | 117 | 152 | 60 | 142 | 115 | 60 | 101 | 94 | | | | | | | | | | | | | | | | | | | | | | | |
| 14 | | A44 Woodstock Rd SB Begbroke Hill to Sandy Ln | 37 | 52 | 53 | 56 | 50 | 54 | 58 | 48 | 53 | 51 | 43 | 84 | 102 | 111 | 76 | 105 | 108 | 85 | 101 | 107 | 45 | 105 | 137 | 135 | 87 | 140 | 127 | 68 | 133 | 130 | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | | A44 Woodstock Rd SB Sandy Lane to Cassington Rd | 63 | 104 | 73 | 75 | 88 | 73 | 75 | 85 | 73 | 74 | 68 | 298 | 80 | 82 | 249 | 82 | 81 | 235 | 80 | 81 | 70 | 710 | 84 | 82 | 735 | 85 | 84 | 683 | 80 | 82 | | | | | | | | | | | | | | | | | | | | | | | |
| 16 | | A44 Woodstock Rd SB Cassington Rd to Loop Farm Roundabout | 92 | 95 | 95 | 95 | 94 | 95 | 94 | 94 | 94 | 94 | 97 | 122 | 114 | 121 | 124 | 122 | 123 | 126 | 126 | 123 | 97 | 121 | 105 | 117 | 126 | 116 | 117 | 121 | 115 | 117 | | | | | | | | | | | | | | | | | | | | | | | |
| 17 | | A44 Woodstock Rd SB Loop Farm Roundabout to Wolvercote Roundabout | 179 | 184 | 187 | 184 | 183 | 177 | 185 | 189 | 185 | 182 | 190 | 194 | 194 | 199 | 198 | 191 | 189 | 191 | 190 | 184 | 180 | 195 | 186 | 190 | 185 | 182 | 185 | 185 | 179 | 183 | | | | | | | | | | | | | | | | | | | | | | | |
| 18 | | A4144 Woodstock Rd SB from Wolvercote Roundabout | 338 | 360 | 369 | 361 | 366 | 363 | 365 | 360 | 363 | 373 | 563 | 593 | 590 | 587 | 591 | 579 | 582 | 584 | 583 | 585 | 345 | 375 | 379 | 378 | 371 | 380 | 377 | 369 | 378 | 378 | | | | | | | | | | | | | | | | | | | | | | | |
| A4260/A4165 NB | | 19 | A4165 Banbury Rd NB to Cutteslowe Roundabout | 352 | 362 | 360 | 360 | 359 | 358 | 364 | 358 | 359 | 354 | 372 | 371 | 378 | 368 | 364 | 370 | 368 | 367 | 369 | 360 | 393 | 391 | 396 | 396 | 396 | 390 | 382 | 371 | 376 | 371 | | | | | | | | | | | | | | | | | | | | | | |
| | 20 | A4165 Banbury Rd / Oxford Rd NB Cutteslowe Roundabout to Park and Ride | 249 | 274 | 275 | 276 | 273 | 272 | 274 | 272 | 272 | 261 | 288 | 291 | 291 | 285 | 287 | 284 | 286 | 286 | 287 | 264 | 294 | 298 | 296 | 291 | 292 | 296 | 290 | 290 | 288 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 21 | Oxford Rd NB Park and Ride to Killington Roundabout | 94 | 96 | 97 | 94 | 94 | 94 | 94 | 93 | 95 | 95 | 97 | 98 | 99 | 100 | 97 | 98 | 97 | 98 | 98 | 98 | 100 | 100 | 100 | 99 | 98 | 101 | 100 | 100 | 98 | 99 | | | | | | | | | | | | | | | | | | | | | | | |
| | 22 | A4260 Oxford Rd NB Killington Roundabout to Bicester Rd | 114 | 114 | 116 | 116 | 117 | 113 | 113 | 112 | 117 | 117 | 117 | 119 | 116 | 118 | 122 | 121 | 117 | 119 | 119 | 121 | 121 | 124 | 125 | 126 | 125 | 124 | 119 | 122 | 121 | 122 | | | | | | | | | | | | | | | | | | | | | | | |
| | 23 | A4260 Oxford Rd NB Bicester Rd to Yarnton Rd | 59 | 59 | 58 | 57 | 56 | 57 | 57 | 58 | 58 | 55 | 56 | 55 | 56 | 58 | 55 | 55 | 54 | 56 | 55 | 56 | 57 | 56 | 60 | 58 | 55 | 58 | 56 | 57 | 56 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 24 | A4260 Oxford Rd NB Yarnton Rd to Langford Ln | 219 | 216 | 214 | 216 | 214 | 214 | 216 | 209 | 213 | 207 | 219 | 215 | 213 | 217 | 210 | 216 | 214 | 213 | 213 | 207 | 217 | 218 | 217 | 222 | 218 | 218 | 215 | 209 | 209 | 214 | | | | | | | | | | | | | | | | | | | | | | | |
| | 25 | A4260 Banbury Rd NB Langford Ln to A4095 | 154 | 149 | 152 | 150 | 153 | 152 | 152 | 155 | 150 | 151 | 148 | 151 | 150 | 151 | 152 | 151 | 149 | 147 | 149 | 148 | 148 | 145 | 148 | 146 | 150 | 147 | 146 | 148 | 149 | 147 | | | | | | | | | | | | | | | | | | | | | | | |
| 26 | A4260 Banbury Rd NB from A4095 | 117 | 119 | 120 | 120 | 120 | 115 | 116 | 119 | 114 | 115 | 123 | 123 | 122 | 123 | 119 | 125 | 125 | 129 | 133 | 130 | 129 | 130 | 124 | 122 | 125 | 127 | 124 | 120 | 125 | 122 | | | | | | | | | | | | | | | | | | | | | | | | |
| A4260/A4165 SB | 27 | A4260 Banbury Rd SB to A4095 | 122 | 120 | 120 | 120 | 121 | 121 | 121 | 122 | 121 | 132 | 126 | 126 | 126 | 126 | 128 | 129 | 129 | 128 | 126 | 126 | 125 | 129 | 128 | 128 | 128 | 124 | 124 | 126 | 128 | 129 | | | | | | | | | | | | | | | | | | | | | | | |
| | 28 | A4260 Banbury Rd SB A4095 to Langford Ln | 166 | 164 | 162 | 167 | 161 | 167 | 164 | 166 | 162 | 166 | 167 | 164 | 162 | 169 | 170 | 171 | 167 | 169 | 164 | 169 | 168 | 164 | 164 | 164 | 167 | 169 | 167 | 166 | 166 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 29 | A4260 Oxford Rd SB Langford Ln to Yarnton Rd | 231 | 235 | 236 | 237 | 231 | 233 | 230 | 234 | 233 | 235 | 237 | 242 | 236 | 238 | 245 | 245 | 240 | 241 | 241 | 238 | 246 | 250 | 247 | 248 | 245 | 243 | 246 | 246 | 247 | 242 | | | | | | | | | | | | | | | | | | | | | | | |
| | 30 | A4260 Oxford Road SB Yarnton Rd to Bicester Rd | 70 | 70 | 71 | 71 | 72 | 70 | 70 | 71 | 71 | 70 | 70 | 73 | 71 | 73 | 74 | 73 | 74 | 75 | 73 | 73 | 69 | 78 | 75 | 75 | 78 | 75 | 78 | 75 | 74 | 74 | | | | | | | | | | | | | | | | | | | | | | | |
| | 31 | A4260 Oxford Rd SB Bicester Rd to Killington Roundabout | 112 | 113 | 114 | 114 | 114 | 113 | 114 | 114 | 113 | 113 | 115 | 117 | 117 | 117 | 116 | 115 | 116 | 115 | 117 | 116 | 112 | 120 | 118 | 118 | 118 | 119 | 117 | 117 | 119 | 117 | | | | | | | | | | | | | | | | | | | | | | | |
| | 32 | Oxford Rd SB Killington Roundabout to Park and Ride | 74 | 75 | 74 | 74 | 74 | 74 | 74 | 75 | 75 | 74 | 73 | 75 | 74 | 73 | 74 | 74 | 74 | 75 | 74 | 73 | 72 | 74 | 73 | 72 | 73 | 73 | 73 | 73 | 73 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 33 | A4165 Banbury Rd / Oxford Rd SB Park and Ride to Cutteslowe Roundabout | 225 | 255 | 253 | 254 | 258 | 254 | 252 | 255 | 254 | 253 | 223 | 250 | 250 | 252 | 251 | 250 | 249 | 247 | 248 | 250 | 226 | 256 | 256 | 253 | 254 | 257 | 255 | 258 | 255 | 257 | | | | | | | | | | | | | | | | | | | | | | | |
| 34 | A4165 Banbury Rd SB from Cutteslowe Roundabout | 367 | 371 | 369 | 367 | 370 | 371 | 371 | 370 | 371 | 368 | 391 | 418 | 421 | 420 | 417 | 411 | 413 | 408 | 403 | 402 | 379 | 416 | 410 | 398 | 402 | 393 | 399 | 403 | 392 | 390 | | | | | | | | | | | | | | | | | | | | | | | | |
| A40 EB | 35 | A40 Eynsham Rd EB to Eynsham Roundabout | 130 | 131 | 130 | 131 | 130 | 132 | 130 | 132 | 134 | 139 | 138 | 139 | 138 | 136 | 137 | 139 | 138 | 138 | 137 | 138 | 139 | 138 | 138 | 137 | 138 | 137 | 138 | 137 | 138 | 138 | | | | | | | | | | | | | | | | | | | | | | | |
| | 36 | A40 Eynsham Rd EB Eynsham Roundabout to signals | 114 | 114 | 113 | 114 | 114 | 114 | 114 | 114 | 114 | 114 | 112 | 111 | 111 | 112 | 111 | 111 | 112 | 112 | 112 | 111 | 109 | 109 | 109 | 109 | 110 | 109 | 110 | 109 | 110 | 109 | | | | | | | | | | | | | | | | | | | | | | | |
| | 37 | A40 EB Eynsham Rd to Wolvercote Roundabout | 398 | 409 | 413 | 409 | 413 | 421 | 416 | 410 | 404 | 416 | 394 | 417 | 417 | 422 | 410 | 414 | 411 | 399 | 398 | 400 | 364 | 371 | 373 | 376 | 372 | 371 | 372 | 369 | 373 | 377 | | | | | | | | | | | | | | | | | | | | | | | |
| A40 WB | 38 | A40 WB Wolvercote Roundabout to Eynsham Rd | 244 | 242 | 244 | 244 | 245 | 245 | 247 | 245 | 243 | 238 | 241 | 239 | 243 | 242 | 238 | 239 | 240 | 241 | 241 | 241 | 241 | 243 | 245 | 245 | 245 | 242 | 241 | 242 | 243 | 242 | | | | | | | | | | | | | | | | | | | | | | | |
| | 39 | A40 Eynsham Rd WB signals to Eynsham Roundabout | 93 | 88 | 90 | 90 | 90 | 91 | 90 | 92 | 93 | 91 | 93 | 93 | 92 | 94 | 96 | 94 | 94 | 95 | 95 | 89 | 112 | 104 | 106 | 99 | 100 | 100 | 104 | 109 | 107 | 106 | | | | | | | | | | | | | | | | | | | | | | | |
| | 40 | A40 Eynsham Rd WB from Eynsham Roundabout | 116 | 117 | 115 | 117 | 116 | 119 | 116 | 116 | 115 | 115 | 119 | 117 | 115 | 117 | 116 | 115 | 116 | 115 | 117 | 119 | 118 | 119 | 119 | 119 | 119 | 119 | 118 | 119 | 118 | 119 | | | | | | | | | | | | | | | | | | | | | | | |