

Wokingham Borough Council

WOKINGHAM STRATEGIC TRANSPORT MODEL 4 (WSTM4)

Local Model Validation Report Addendum





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TYPE OF DOCUMENT (VERSION) CONFIDENTIAL

PROJECT NO. 70014995

OUR REF. NO. 70014995

DATE: DECEMBER 2018



Wokingham Borough Council

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Local Model Validation Report Addendum

WSP

Mountbatten House Basing View Basingstoke, Hampshire RG21 4HJ

Phone: +44 1256 318 800

Fax: +44 1256 318 700

WSP.com



Quality control

| Issue/revision | First issue | Revision 1 | Revision 2 | Revision 3 |
|----------------|--|------------|------------|------------|
| Remarks | Revision to the March 2017 LMVR, update to PT and VDM | | | |
| Date | December 2018 | | | |
| Prepared by | Peter Holman | | | |
| Signature | | | | |
| Checked by | Nadia Lyubimova | | | |
| Signature | | | | |
| Authorised by | Nadia Lyubimova | | | |
| Signature | | | | |
| Project number | 70014995 | | | |
| Report number | | | | |
| File reference | S:\70014995 - WSTM4 Model Development\C Documents\Reports\LMVR Revalidation April 2018\PT and VDM update\WSTM4_LMVR_PT_VDM_Addendum_Dec18_Final_Draft.docx | | | |



CONTENTS

| 1. | INTRODUCTION | 1 |
|------|--|---|
| 1.1. | BACKGROUND | 1 |
| 1.2. | PURPOSE OF ADDENDUM | 1 |
| 1.3. | REPORT STRUCTURE | 2 |
| 2. | PUBLIC TRANSPORT MODEL VALIDATION | 3 |
| 2.1. | OVERVIEW | 3 |
| 2.2. | CORRECTIONS TO TICKET TYPES | 3 |
| 2.3. | NETWORK AND SERVICE VALIDATION | 3 |
| 2.4. | ASSIGNMENT VALIDATION | 4 |
| 3. | VARIABLE DEMAND MODEL UPDATE | 6 |
| 3.1. | OVERVIEW | 6 |
| 3.2. | CAR FUEL COST ELASTICITY | 6 |
| 3.3. | CAR JOURNEY TIME ELASTICITY | 7 |
| 3.4. | PUBLIC TRANSPORT FARE ELASTICITY | 7 |
| TA | BLES | |
| Tabl | e 1 - Public transport stop point validation results - bus and rail combined | 4 |
| Tabl | e 2 - Public transport bus stop validation results | 4 |
| Tabl | e 3 - Public transport train stop validation results | 4 |
| Tabl | e 4 - Public transport rail link flow validation results | 5 |
| Tabl | e 5 – Matrix based car fuel cost elasticity | 6 |
| Tabl | e 6 – Network based car fuel cost elasticity | 7 |
| Tabl | e 7 – Matrix based journey time elasticity | 7 |
| Tabl | e 8 - Matrix based public transport fare elasticity | 8 |



FIGURES

No table of figures entries found.

APPENDICES

APPENDIX A

PUBLIC TRANSPORT CALIBRATION AND VALIDATION

APPENDIX A.1

PUBLIC TRANSPORT JOURNEY TIMES

APPENDIX A.2

FINAL ASSIGNMENT RESULTS



1. INTRODUCTION

1.1. BACKGROUND

- 1.1.1. In 2008 WSP was appointed as the Highways and Transport Term consultant for Wokingham Borough Council (WBC), responsible for the use and on-going maintenance of the Wokingham Strategic Transport Model (WSTM). Since this appointment WSP has completed three model updates: WSTM2, WSTM3 and WSTM4, the last of which is the subject of this addendum.
- 1.1.2. In Autumn 2015, WSP was commissioned to update the WSTM3 base year from 2010 to 2015, to support strategic and local planning for the next plan period. As part of this update, the model software platform was migrated from SATURN to PTV's VISUM 15.
- 1.1.3. The development of the WSTM4 base year model was completed in 2016, and was reported in the associated Local Model Validation Report¹, in March 2017. However, following the development of the validated base year, future year scenario testing highlighted issues regarding the stability of PTV's recommended highway assignment procedure known as 'Equilibrium_Lohse'.
- 1.1.4. The assignment algorithm sometimes produced results which did not meet the Department for Transport's (DfT) Transport Appraisal Guidance (TAG) convergence criteria, particularly in heavily congested networks. Since then PTV has implemented several software updates, which has culminated in a new private transport assignment procedure known as 'Equilibrium assignment Biconjugate Frank-Wolfe', in VISUM 17.
- 1.1.5. Following the release of VISUM 17, the revised assignment procedure was shown to address the model convergence issues experienced in WSTM4, producing more stable and sensible results. As a result, WBC requested that the highway portion of the WSTM4 Highway Assignment Model (HAM) be updated from VISUM 15 to VISUM 17, and in early 2018 a revalidation exercise was undertaken to carry out this work. The results of this revalidation exercise are presented in an updated LMVR² issued in May 2018 addressing the highway assignment.
- 1.1.6. WBC have now requested that the public transport (PT) and variable demand elements of WSTM4 be updated to take account of the changes to the highway validation. This report sets out the results of this update, and should be considered in addition to the other LMVR documents associated with WSTM4.

1.2. PURPOSE OF ADDENDUM

1.2.1. This report sets out the changes made to the PT element of the WSTM4 and changes to the variable demand model (VDM), compared with that reported in the original LMVR¹. It should be noted that anything not mentioned in this addendum should be assumed unchanged. In addition, the

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¹ WSP. 2017. Wokingham Strategic Transport Model 4 (WSTM4) Local Model Validation Report.

² WSP. 2018. Wokingham Strategic Transport Model 4 (WSTM4) Local Model Validation Report.



revised validation results for the PT element and updated results from the realism testing replace those originally reported.

1.3. REPORT STRUCTURE

- 1.3.1. This report is split into the following chapters:
 - Chapter 1 sets out the background to the study and purpose of the addendum
 - Chapter 2 sets out the results of the updated PT assignment
 - Chapter 3 describes the results of the updated realism testing



2. PUBLIC TRANSPORT MODEL VALIDATION

2.1. OVERVIEW

- 2.1.1. This section sets out the revised validation results for the PT element of the HAM after the update to VISUM 17. It should be noted that no changes have been made to the PT assignment procedure since migrating the model to the new software version.
- 2.1.2. The following sub-sections outline the updates made to the PT element of the HAM, and the resultant changes to validation after assignment in VISUM 17.

2.2. CORRECTIONS TO TICKET TYPES

- 2.2.1. A bug was discovered in VISUM 15 which results in the loss of the association of ticket type to trip purpose when saving and reopening a model file. As a result, the PT element of the WSTM4 had been assigned without the correct fares for all trip purposes.
- 2.2.2. This bug was later patched by PTV in subsequent releases of the software, and this has now been corrected for the update to VISUM 17. As a result, the changes in the network, service and assignment validation, reported below, are the direct result of this change to the fare system, in addition to any changes brought about by the update to VISUM 17.

2.3. NETWORK AND SERVICE VALIDATION

- 2.3.1. The results of the updated network and service validation analysis are presented in Appendix A.1. This includes a comparison of observed and modelled journey time data for a number of routes, in each direction, for each modelled time-period.
- 2.3.2. The results have been generated from the same origin-destination pairs, and the same observed travel time data previously extracted from Traveline, as reported in the original LMVR.
- 2.3.3. The following routes have been examined:
 - Route 1: Wokingham town centre Reading town centre
 - Route 2: Reading town centre Bracknell town centre
 - Route 3: Wokingham, London Rd

 Bracknell, Skimped Hill Lane
 - Route 4: Wokingham, Broad St Winnersh Cross Roads, Sainsbury's Store
 - Route 5: Woodley, Bulmershe Sports Centre Lower Earley, ASDA store
 - Route 6: Reading town centre Oxford Town Centre.
 - Route 7: Reading town centre Central London
 - Route 8: Shinfield Reading town centre
 - Route 9: Reading town centre area north of Caversham.
- 2.3.4. It can be concluded from the results presented in Appendix A.1 that the public transport model is able to sufficiently match the journey itineraries and times provided by the Traveline dataset to travellers. In addition, the overall modelled journey times have not significantly changed from the previous assignment results in VISUM 15.



2.4. ASSIGNMENT VALIDATION

2.4.1. The updated comparison of observed and modelled stop point passenger flows is presented below in Table 1 to Table 3 for all stops, bus stops and train stops, respectively. Table 4 presents the updated passenger link flow validation results for rail.

Table 1 - Public transport stop point validation results - bus and rail combined

| | AM peak | | Inter-peak | | PM peak | |
|-----------|---------------------------------|----------------------------------|---------------------------------|----------------------------------|---------------------------------|----------------------------------|
| Criteria | Total passengers boarding | Total passengers alighting | Total passengers boarding | Total passengers alighting | Total passengers boarding | Total passengers alighting |
| GEH < 7.5 | 90% | 87% | 94% | 88% | 90% | 88% |
| GEH < 5.0 | 83% | 78% | 84% | 84% | 81% | 81% |

Table 2 - Public transport bus stop validation results

| | AM peak | | Inter-peak | | PM peak | |
|-----------|---------------------------------|----------------------------------|---------------------------------|----------------------------------|---------------------------------|----------------------------------|
| Criteria | Total passengers boarding | Total passengers alighting | Total passengers boarding | Total passengers alighting | Total passengers boarding | Total passengers alighting |
| GEH < 7.5 | 85% | 76% | 91% | 85% | 82% | 79% |
| GEH < 5.0 | 74% | 62% | 74% | 76% | 68% | 71% |

Table 3 - Public transport train stop validation results

| | AM peak | | Inter-peak | | PM peak | |
|-----------|---------------------------------|----------------------------------|---------------------------------|----------------------------------|---------------------------------|----------------------------------|
| Criteria | Total passengers boarding | Total passengers alighting | Total passengers boarding | Total passengers alighting | Total passengers boarding | Total passengers alighting |
| GEH < 7.5 | 94% | 97% | 97% | 91% | 97% | 97% |
| GEH < 5.0 | 91% | 94% | 94% | 91% | 94% | 91% |



Table 4 - Public transport rail link flow validation results

| | AM peak | Inter peak | PM peak |
|-----------|------------------|------------------|------------------|
| Criteria | Total passengers | Total passengers | Total passengers |
| GEH pass | 88% | 100% | 88% |
| Flow pass | 100% | 100% | 100% |

2.4.2. Following the checks on the routing of passengers in the model and comparison of patronage at railway stations, it can be concluded that the model can reasonably replicate the general scale of patronage across all time periods, locations and modes.



3. VARIABLE DEMAND MODEL UPDATE

3.1. OVERVIEW

- 3.1.1. The revalidation exercise carried out on the HAM has resulted in changes to the Base Year (BY) demand matrices and out-turn cost skims, previously input into the WSTM4 VDM. Therefore, it has been necessary to re-run the realism testing using updated matrices and cost skims extracted from the updated HAMs.
- 3.1.2. The existing WSTM4 VDM has been retained within VISUM 15, as VISUM 17 does not currently provide the ability to doubly constrain home-based work trips in incremental demand models, a requirement for TAG compliance. This feature is included in VISUM 15 and PTV currently has no plans to implement this change in VISUM 17 in the immediate future.
- 3.1.3. As a result, the realism testing for the base year has been carried out in VISUM 17.04 for the HAMs, and the VDM has been run in VISUM 15.15, as previously. No changes have been made to the procedure sequence or scaling parameters used in the VDM.

3.2. CAR FUEL COST ELASTICITY

3.2.1. Table 5 presents the updated car fuel cost elasticity results at the matrix level for each time-period and trip purpose, excluding fixed movements (external to external, external to internal), as per TAG guidance.

Table 5 - Matrix based car fuel cost elasticity

| Trip purpose | AM | IP | PM | Annualised |
|---------------------|--------|--------|--------|------------|
| Commuting | -0.225 | -0.212 | -0.228 | |
| Employer's business | -0.075 | -0.083 | -0.068 | |
| Other | -0.548 | -0.513 | -0.512 | |
| Overall | -0.267 | -0.366 | -0.333 | -0.331 |

- 3.2.2. The matrix based realism test show that for all purposes an acceptable level of elasticity is met. The overall annual elasticity lies within the range -0.25 to 0.35, meeting TAG acceptability criteria.
- 3.2.3. These elasticity values have been obtained from a converged run of the demand/supply loop, with a gap value of 0.008, meeting TAG guidelines.
- 3.2.4. Table 6 presents the updated car fuel cost elasticity results at the network level for each time-period and trip purpose within the Detailed Model Area. The results presented also exclude fixed movements.



Table 6 - Network based car fuel cost elasticity

| Trip purpose | AM | IP | PM | Annualised |
|---------------------|--------|--------|--------|------------|
| Commuting | -0.240 | -0.231 | -0.248 | |
| Employer's business | -0.003 | -0.039 | -0.012 | |
| Other | -0.353 | -0.377 | -0.358 | |
| Overall | -0.238 | -0.288 | -0.273 | -0.271 |

3.2.5. The network based realism test show that for all purposes an acceptable level of elasticity is met.

The overall annual elasticity lies within the range -0.25 to - 0.35, meeting TAG acceptability criteria.

3.3. CAR JOURNEY TIME ELASTICITY

3.3.1. Table 7 presents the updated car journey time elasticity results for each time-period and trip purpose, excluding fixed movements.

Table 7 – Matrix based journey time elasticity

| Trip purpose | АМ | IP | PM | Annualised |
|---------------------|--------|--------|--------|------------|
| Commuting | -0.212 | -0.132 | -0.130 | |
| Employer's business | -0.430 | -0.320 | -0.384 | |
| Other | -0.451 | -0.441 | -0.398 | |
| Overall | -0.272 | -0.325 | -0.263 | -0.292 |

3.3.2. TAG guidance states that the overall annual car journey time elasticity should be no stronger than - 2.0. The results show that this criterion has been met across all time-periods and trip purposes.

3.4. PUBLIC TRANSPORT FARE ELASTICITY

- 3.4.1. Table 8 presents the updated public transport fare elasticity results for each time-period and trip purpose, excluding fixed movements.
- 3.4.2. TAG guidance requires that the annualised elasticity values must lie in the range of -0.2 to -0.9 across all journey purposes.



Table 8 - Matrix based public transport fare elasticity

| Trip purpose | AM | IP | PM | Annualised |
|---------------------|--------|--------|--------|------------|
| Commuting | -0.275 | -0.187 | -0.160 | |
| Employer's business | -0.581 | -0.509 | -0.413 | |
| Other | -0.687 | -0.642 | -0.504 | |
| Overall | -0.336 | -0.482 | -0.314 | -0.374 |

- 3.4.3. The results show that the annualised public transport fare elasticity falls within the accepted range and therefore meets TAG guidance.
- 3.4.4. These elasticity values have been obtained from a converged run of the demand/supply loop, with a gap value of 0.005, meeting TAG guidelines.

Appendix A



PUBLIC TRANSPORT CALIBRATION AND VALIDATION



Appendix A.1

PUBLIC TRANSPORT JOURNEY TIMES



Route 1: Reading to Wokingham

| | | | AM | | | IP | | PM | | | |
|------------|---------------------------|----------|----------|--------------|----------|----------|--------------|----------|----------|--------------|--|
| Mode | Parameter | Obs | Mod | Abs. Diff | Obs | Mod | Abs. Diff | Obs | Mod | Abs. Diff | |
| | Average Journey Time | 00:24:00 | 00:27:34 | 00:03:34 | 00:26:00 | 00:27:34 | 00:01:34 | 00:24:00 | 00:30:14 | 00:06:14 | |
| | Average Access Time | 00:07:00 | 00:10:25 | 00:03:25 | 00:07:00 | 00:10:25 | 00:03:25 | 00:07:00 | 00:10:25 | 00:03:25 | |
| | Average Egress Time | 00:09:00 | 00:10:09 | 00:01:09 | 00:09:00 | 00:10:09 | 00:01:09 | 00:09:00 | 00:10:09 | 00:01:09 | |
| Rail | In-vehicle Time | 00:08:00 | 00:07:00 | 00:01:00 | 00:08:00 | 00:07:00 | 00:01:00 | 00:08:00 | 00:09:40 | 00:01:40 | |
| | Transfer waiting Time | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | |
| | Walk Time | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | |
| | Number of Interchanges | | 0 | | | 0 | | | 0 | | |
| | Average Journey Time | | | | | | | | | | |
| | Average Access Time | | | | | | | | | | |
| | Average Egress Time | | | | | | | | | | |
| Rail & Bus | In-vehicle Time | | | | | | | | | | |
| | Transfer waiting Time | | | | | | | | | | |
| | Walk Time | | | | | | | | | | |
| | Number of Interchanges | | | | | | | | | | |
| | Average Journey Time | | | | | | | | | | |
| | Average Access Time | | | | | | | | | | |
| | Average Egress Time | | | | | | | | | | |
| Bus & Rail | In-vehicle Time | | | | | | | | | | |
| | Transfer waiting Time | | | | | | | | | | |
| | Walk Time | | | | | | | | | | |
| | Number of Interchanges | | | | | | | | | | |
| | Average Journey Time | | | | | | | | | | |
| Bus | Average Access Time | | | | | | | | | | |
| | Average Egress Time | | | | | | | | | | |
| | In-vehicle Time | | | | | | | | | | |



| ı | | AM | | | | IP | | РМ | | |
|------|------------------------|-----|-----|--------------|-----|-----|--------------|-----|-----|--------------|
| Mode | Parameter | Obs | Mod | Abs. Diff | Obs | Mod | Abs. Diff | Obs | Mod | Abs. Diff |
| | Transfer waiting Time | | | | | | | | | |
| | Walk Time | | | | | | | | | |
| | Number of Interchanges | | | | | | | | | |

Route 1: Wokingham to Reading

| | | | AM | | | IP | | РМ | | | |
|------------|---------------------------|----------|----------|--------------|----------|----------|--------------|----------|----------|--------------|--|
| Mode | Parameter | Obs | Mod | Abs. Diff | Obs | Mod | Abs. Diff | Obs | Mod | Abs. Diff | |
| | Average Journey Time | 00:26:00 | 00:30:54 | 00:04:54 | 00:34:00 | 00:27:34 | 00:06:26 | 00:27:00 | 00:28:34 | 00:01:34 | |
| | Average Access Time | 00:09:00 | 00:10:09 | 00:01:09 | 00:09:00 | 00:10:09 | 00:01:09 | 00:09:00 | 00:10:09 | 00:01:09 | |
| | Average Egress Time | 00:07:00 | 00:10:25 | 00:03:25 | 00:07:00 | 00:10:25 | 00:03:25 | 00:07:00 | 00:10:25 | 00:03:25 | |
| Rail | In-vehicle Time | 00:10:00 | 00:10:20 | 00:00:20 | 00:10:00 | 00:07:00 | 00:03:00 | 00:11:00 | 00:08:00 | 00:03:00 | |
| | Transfer waiting Time | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | |
| | Walk Time | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | |
| | Number of Interchanges | | 0 | | | 0 | | | 0 | | |
| | Average Journey Time | | | | | | | | | | |
| | Average Access Time | | | | | | | | | | |
| | Average Egress Time | | | | | | | | | | |
| Rail & Bus | In-vehicle Time | | | | | | | | | | |
| | Transfer waiting Time | | | | | | | | | | |
| | Walk Time | | | | | | | | | | |
| | Number of Interchanges | | | | | | | | | | |
| | Average Journey Time | | | | | | | | | | |
| | Average Access Time | | | | | | | | | | |
| Bus & Rail | Average Egress Time | | | | | | | | | | |
| | In-vehicle Time | | | | | | | | | | |
| | Transfer waiting Time | | | | | | | | | | |



| | | | АМ | | | IP | | PM | | | |
|------|---------------------------|----------|----------|--------------|----------|----------|--------------|----------|----------|--------------|--|
| Mode | Parameter | Obs | Mod | Abs. Diff | Obs | Mod | Abs. Diff | Obs | Mod | Abs. Diff | |
| | Walk Time | | | | | | | | | | |
| | Number of Interchanges | | | | | | | | | | |
| | Average Journey Time | 00:42:00 | 00:44:02 | 00:02:02 | 00:41:00 | 00:43:01 | 00:02:01 | 00:44:00 | 00:42:14 | 00:01:46 | |
| | Average Access Time | 00:01:00 | 00:01:56 | 00:00:56 | 00:01:00 | 00:01:56 | 00:00:56 | 00:01:00 | 00:01:56 | 00:00:56 | |
| | Average Egress Time | 00:06:00 | 00:06:00 | 00:00:00 | 00:06:00 | 00:04:19 | 00:01:41 | 00:06:00 | 00:03:53 | 00:02:07 | |
| Bus | In-vehicle Time | 00:35:00 | 00:36:06 | 00:01:06 | 00:34:00 | 00:36:02 | 00:02:02 | 00:37:00 | 00:36:00 | 00:01:01 | |
| | Transfer waiting Time | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:28 | 00:00:28 | 00:00:00 | 00:00:15 | 00:00:15 | |
| | Walk Time | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:17 | 00:00:17 | 00:00:00 | 00:00:10 | 00:00:10 | |
| | Number of Interchanges | | 0 | | | 1 | | | 1 | | |

Route 2: Reading to Bracknell

| | | | AM | | | IP | | РМ | | | |
|------------|--------------------------|----------|----------|--------------|----------|----------|--------------|----------|----------|--------------|--|
| Mode | Parameter | Obs | Mod | Abs. Diff | Obs | Mod | Abs. Diff | Obs | Mod | Abs. Diff | |
| | Average Journey Time | 00:31:00 | 00:31:02 | 00:00:02 | 00:31:00 | 00:27:02 | 00:03:58 | 00:31:00 | 00:31:02 | 00:00:02 | |
| | Average Access Time | 00:06:00 | 00:06:40 | 00:00:40 | 00:06:00 | 00:06:40 | 00:00:40 | 00:06:00 | 00:06:40 | 00:00:40 | |
| | Average Egress Time | 00:05:00 | 00:03:22 | 00:01:38 | 00:05:00 | 00:03:22 | 00:01:38 | 00:05:00 | 00:03:22 | 00:01:38 | |
| Rail | In-vehicle Time | 00:20:00 | 00:21:00 | 00:01:00 | 00:20:00 | 00:16:00 | 00:04:00 | 00:20:00 | 00:21:00 | 00:01:00 | |
| | Transfer waiting Time | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:01:00 | 00:01:00 | 00:00:00 | 00:00:00 | 00:00:00 | |
| | Walk Time | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | |
| | Number of Interchanges | | 0 | | | 1 | | | 0 | | |
| | Average Journey Time | | | | | | | | | | |
| | Average Access Time | | | | | | | | | | |
| Rail & Bus | Average Egress Time | | | | | | | | | | |
| | In-vehicle Time | | | | | | | | | | |
| | Transfer waiting Time | | | | | | | | | | |
| | Walk Time | | | | | | | | | | |



| | | | AM | | | IP | | PM | | | |
|------------|---------------------------|-----|-----|--------------|-----|-----|--------------|-----|-----|--------------|--|
| Mode | Parameter | Obs | Mod | Abs. Diff | Obs | Mod | Abs. Diff | Obs | Mod | Abs. Diff | |
| | Number of Interchanges | | | | | | | | | | |
| | Average Journey Time | | | | | | | | | | |
| | Average Access Time | | | | | | | | | | |
| | Average Egress Time | | | | | | | | | | |
| Bus & Rail | In-vehicle Time | | | | | | | | | | |
| | Transfer waiting Time | | | | | | | | | | |
| | Walk Time | | | | | | | | | | |
| | Number of Interchanges | | | | | | | | | | |
| | Average Journey Time | | | | | | | | | | |
| | Average Access Time | | | | | | | | | | |
| | Average Egress Time | | | | | | | | | | |
| Bus | In-vehicle Time | | | | | | | | | | |
| | Transfer waiting Time | | | | | | | | | | |
| | Walk Time | | | | | | | | | | |
| | Number of Interchanges | | | | | | | | | | |

Route 2: Bracknell to Reading

| | | | AM | | | IP | | PM | | | |
|------|--------------------------|----------|----------|--------------|----------|----------|--------------|----------|----------|--------------|--|
| Mode | Parameter | Obs | Mod | Abs. Diff | Obs | Mod | Abs. Diff | Obs | Mod | Abs. Diff | |
| | Average Journey Time | 00:31:00 | 00:31:02 | 00:00:02 | 00:31:00 | 00:28:02 | 00:02:58 | 00:31:00 | 00:27:02 | 00:03:58 | |
| | Average Access Time | 00:05:00 | 00:03:22 | 00:01:38 | 00:05:00 | 00:03:22 | 00:01:38 | 00:05:00 | 00:03:22 | 00:01:38 | |
| | Average Egress Time | 00:06:00 | 00:06:40 | 00:00:40 | 00:06:00 | 00:06:40 | 00:00:40 | 00:06:00 | 00:06:40 | 00:00:40 | |
| Rail | In-vehicle Time | 00:20:00 | 00:21:00 | 00:01:00 | 00:20:00 | 00:17:00 | 00:03:00 | 00:20:00 | 00:16:00 | 00:04:00 | |
| | Transfer waiting Time | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:01:00 | 00:01:00 | 00:00:00 | 00:01:00 | 00:01:00 | |
| | Walk Time | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | |
| | Number of Interchanges | | 0 | | | 1 | | | 1 | | |



| | | | AM | | | IP | | PM | | | |
|------------|---------------------------|-----|-----|--------------|-----|-----|--------------|-----|-----|--------------|--|
| Mode | Parameter | Obs | Mod | Abs. Diff | Obs | Mod | Abs. Diff | Obs | Mod | Abs. Diff | |
| | Average Journey Time | | | | | | | | | | |
| | Average Access Time | | | | | | | | | | |
| | Average Egress Time | | | | | | | | | | |
| Rail & Bus | In-vehicle Time | | | | | | | | | | |
| | Transfer waiting Time | | | | | | | | | | |
| | Walk Time | | | | | | | | | | |
| | Number of Interchanges | | | | | | | | | | |
| | Average Journey Time | | | | | | | | | | |
| | Average Access Time | | | | | | | | | | |
| | Average Egress Time | | | | | | | | | | |
| Bus & Rail | In-vehicle Time | | | | | | | | | | |
| | Transfer waiting Time | | | | | | | | | | |
| | Walk Time | | | | | | | | | | |
| | Number of Interchanges | | | | | | | | | | |
| | Average Journey Time | | | | | | | | | | |
| | Average Access Time | | | | | | | | | | |
| | Average Egress Time | | | | | | | | | | |
| Bus | In-vehicle Time | | | | | | | | | | |
| | Transfer waiting Time | | | | | | | | | | |
| | Walk Time | | | | | | | | | | |
| | Number of Interchanges | | | | | | | | | | |

Route 3: Wokingham to Bracknell

| | 1 | | АМ | | | IP | | PM | | |
|------|-------------------------|----------|----------|--------------|----------|----------|--------------|----------|----------|--------------|
| Mode | Parameter | Obs | Mod | Abs. Diff | Obs | Mod | Abs. Diff | Obs | Mod | Abs. Diff |
| Rail | Average Journey Time | 00:31:00 | 00:28:29 | 00:02:31 | 00:31:00 | 00:28:29 | 00:02:31 | 00:31:00 | 00:28:29 | 00:02:31 |



| | | | AM | | | IP | | РМ | | | |
|------------|---------------------------|----------|----------|--------------|----------|----------|--------------|----------|----------|--------------|--|
| Mode | Parameter | Obs | Mod | Abs. Diff | Obs | Mod | Abs. Diff | Obs | Mod | Abs. Diff | |
| | Average Access Time | 00:10:00 | 00:10:09 | 00:00:09 | 00:10:00 | 00:10:09 | 00:00:09 | 00:10:00 | 00:10:09 | 00:00:09 | |
| | Average Egress Time | 00:15:00 | 00:14:20 | 00:00:40 | 00:15:00 | 00:14:20 | 00:00:40 | 00:15:00 | 00:14:20 | 00:00:40 | |
| | In-vehicle Time | 00:06:00 | 00:04:00 | 00:02:00 | 00:06:00 | 00:04:00 | 00:02:00 | 00:06:00 | 00:04:00 | 00:02:00 | |
| | Transfer waiting Time | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | |
| | Walk Time | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | |
| | Number of Interchanges | | 0 | | | 0 | | | 0 | | |
| | Average Journey Time | | | | | | | | | | |
| | Average Access Time | | | | | | | | | | |
| | Average Egress Time | | | | | | | | | | |
| Rail & Bus | In-vehicle Time | | | | | | | | | | |
| | Transfer waiting Time | | | | | | | | | | |
| | Walk Time | | | | | | | | | | |
| | Number of Interchanges | | | | | | | | | | |
| | Average Journey Time | | | | | | | | | | |
| | Average Access Time | | | | | | | | | | |
| | Average Egress Time | | | | | | | | | | |
| Bus & Rail | In-vehicle Time | | | | | | | | | | |
| | Transfer waiting Time | | | | | | | | | | |
| | Walk Time | | | | | | | | | | |
| | Number of Interchanges | | | | | | | | | | |
| | Average Journey Time | 00:32:00 | 00:29:34 | 00:02:26 | 00:30:00 | 00:29:34 | 00:00:26 | 00:35:00 | 00:29:34 | 00:05:26 | |
| | Average Access Time | 00:02:00 | 00:01:56 | 00:00:04 | 00:02:00 | 00:01:56 | 00:00:04 | 00:02:00 | 00:01:56 | 00:00:04 | |
| Bus | Average Egress Time | 00:14:00 | 00:10:12 | 00:03:48 | 00:14:00 | 00:10:12 | 00:03:48 | 00:14:00 | 00:10:12 | 00:03:48 | |
| | In-vehicle Time | 00:16:00 | 00:17:26 | 00:01:26 | 00:14:00 | 00:17:26 | 00:03:26 | 00:19:00 | 00:17:26 | 00:01:34 | |
| | Transfer waiting Time | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | |
| | Walk Time | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | |



| | | | AM | | | IP | | | PM | |
|------|------------------------|-----|-----|--------------|-----|-----|--------------|-----|-----|--------------|
| Mode | Parameter | Obs | Mod | Abs. Diff | Obs | Mod | Abs. Diff | Obs | Mod | Abs. Diff |
| | Number of Interchanges | | 0 | | | 0 | | | 0 | |

Route 3: Bracknell to Wokingham

| | | | AM | | | IP | | | PM | |
|------------|---------------------------|----------|----------|--------------|----------|----------|--------------|----------|----------|--------------|
| Mode | Parameter | Obs | Mod | Abs. Diff | Obs | Mod | Abs. Diff | Obs | Mod | Abs. Diff |
| | Average Journey Time | 00:31:00 | 00:28:29 | 00:02:31 | 00:31:00 | 00:28:29 | 00:02:31 | 00:31:00 | 00:28:29 | 00:02:31 |
| | Average Access Time | 00:15:00 | 00:14:20 | 00:00:40 | 00:15:00 | 00:14:20 | 00:00:40 | 00:15:00 | 00:14:20 | 00:00:40 |
| | Average Egress Time | 00:10:00 | 00:10:09 | 00:00:09 | 00:10:00 | 00:10:09 | 00:00:09 | 00:10:00 | 00:10:09 | 00:00:09 |
| Rail | In-vehicle Time | 00:06:00 | 00:04:00 | 00:02:00 | 00:06:00 | 00:04:00 | 00:02:00 | 00:06:00 | 00:04:00 | 00:02:00 |
| | Transfer waiting Time | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 |
| | Walk Time | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 |
| | Number of Interchanges | | 0 | | | 0 | | | 0 | |
| | Average Journey Time | | | | | | | | | |
| | Average Access Time | | | | | | | | | |
| | Average Egress Time | | | | | | | | | |
| Rail & Bus | In-vehicle Time | | | | | | | | | |
| | Transfer waiting Time | | | | | | | | | |
| | Walk Time | | | | | | | | | |
| | Number of Interchanges | | | | | | | | | |
| | Average Journey Time | | | | | | | | | |
| | Average Access Time | | | | | | | | | |
| | Average Egress Time | | | | | | | | | |
| Bus & Rail | In-vehicle Time | | | | | | | | | |
| | Transfer waiting Time | | | | | | | | | |
| | Walk Time | | | | | | | | | |
| | Number of Interchanges | | | | | | | | | |



| | | | AM | | | IP | | | PM | |
|------|-------------------------|----------|----------|--------------|----------|----------|--------------|----------|----------|--------------|
| Mode | Parameter | Obs | Mod | Abs. Diff | Obs | Mod | Abs. Diff | Obs | Mod | Abs. Diff |
| | Average Journey Time | 00:38:00 | 00:30:14 | 00:07:46 | 00:34:00 | 00:30:14 | 00:03:46 | 00:34:00 | 00:30:14 | 00:03:46 |
| | Average Access Time | 00:14:00 | 00:09:11 | 00:04:49 | 00:14:00 | 00:09:11 | 00:04:49 | 00:14:00 | 00:09:11 | 00:04:49 |
| | Average Egress Time | 00:02:00 | 00:01:56 | 00:00:04 | 00:02:00 | 00:01:56 | 00:00:04 | 00:02:00 | 00:01:56 | 00:00:04 |
| Bus | In-vehicle Time | 00:22:00 | 00:19:07 | 00:02:53 | 00:18:00 | 00:19:07 | 00:01:07 | 00:18:00 | 00:19:07 | 00:01:07 |
| | Transfer waiting Time | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 |
| | Walk Time | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 |
| | Number of Interchanges | | 0 | | | 0 | | | 0 | |

Route 4: Wokingham to Winnersh

| | | | AM | | | IP | | | PM | |
|------------|---------------------------|----------|----------|--------------|-----|-----|--------------|----------|----------|--------------|
| Mode | Parameter | Obs | Mod | Abs. Diff | Obs | Mod | Abs. Diff | Obs | Mod | Abs. Diff |
| | Average Journey Time | 00:21:00 | 00:20:26 | 00:00:34 | | | | 00:21:00 | 00:20:26 | 00:00:34 |
| | Average Access Time | 00:10:00 | 00:10:09 | 00:00:09 | | | | 00:10:00 | 00:10:09 | 00:00:09 |
| | Average Egress Time | 00:08:00 | 00:07:17 | 00:00:43 | | | | 00:08:00 | 00:07:17 | 00:00:43 |
| Rail | In-vehicle Time | 00:03:00 | 00:03:00 | 00:00:00 | | | | 00:03:00 | 00:03:00 | 00:00:00 |
| | Transfer waiting Time | 00:00:00 | 00:00:00 | 00:00:00 | | | | 00:00:00 | 00:00:00 | 00:00:00 |
| | Walk Time | 00:00:00 | 00:00:00 | 00:00:00 | | | | 00:00:00 | 00:00:00 | 00:00:00 |
| | Number of Interchanges | | 0 | | | | | | 0 | |
| | Average Journey Time | | | | | | | | | |
| | Average Access Time | | | | | | | | | |
| | Average Egress Time | | | | | | | | | |
| Rail & Bus | In-vehicle Time | | | | | | | | | |
| | Transfer waiting Time | | | | | | | | | |
| | Walk Time | | | | | | | | | |
| | Number of Interchanges | | | | | | | | | |
| Bus & Rail | Average Journey Time | | | | | | | | | |



| | | | AM | | | IP | | | PM | |
|------|---------------------------|----------|----------|--------------|----------|----------|--------------|----------|----------|--------------|
| Mode | Parameter | Obs | Mod | Abs. Diff | Obs | Mod | Abs. Diff | Obs | Mod | Abs. Diff |
| | Average Access Time | | | | | | | | | |
| | Average Egress Time | | | | | | | | | |
| | In-vehicle Time | | | | | | | | | |
| | Transfer waiting Time | | | | | | | | | |
| | Walk Time | | | | | | | | | |
| | Number of Interchanges | | | | | | | | | |
| | Average Journey Time | 00:21:00 | 00:13:26 | 00:07:34 | 00:16:00 | 00:12:48 | 00:03:12 | 00:19:00 | 00:13:26 | 00:05:34 |
| | Average Access Time | 00:03:00 | 00:01:56 | 00:01:04 | 00:03:00 | 00:01:56 | 00:01:04 | 00:03:00 | 00:01:56 | 00:01:04 |
| | Average Egress Time | 00:02:00 | 00:00:53 | 00:01:07 | 00:02:00 | 00:00:53 | 00:01:07 | 00:02:00 | 00:00:53 | 00:01:07 |
| Bus | In-vehicle Time | 00:16:00 | 00:10:37 | 00:05:23 | 00:11:00 | 00:09:59 | 00:01:01 | 00:14:00 | 00:10:37 | 00:03:23 |
| | Transfer waiting Time | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 |
| | Walk Time | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 |
| | Number of Interchanges | | 0 | | | 0 | | | 0 | |

Route 4: Winnersh to Wokingham

| | | | AM | | | IP | | | PM | |
|------------|-------------------------|----------|----------|--------------|----------|----------|--------------|----------|----------|--------------|
| Mode | Parameter | Obs | Mod | Abs. Diff | Obs | Mod | Abs. Diff | Obs | Mod | Abs. Diff |
| | Average Journey Time | 00:21:00 | 00:20:26 | 00:00:34 | 00:21:00 | 00:20:26 | 00:00:34 | 00:21:00 | 00:20:26 | 00:00:34 |
| | Average Access Time | 00:08:00 | 00:07:17 | 00:00:43 | 00:08:00 | 00:07:17 | 00:00:43 | 00:08:00 | 00:07:17 | 00:00:43 |
| | Average Egress Time | 00:10:00 | 00:10:09 | 00:00:09 | 00:10:00 | 00:10:09 | 00:00:09 | 00:10:00 | 00:10:09 | 00:00:09 |
| Rail | In-vehicle Time | 00:03:00 | 00:03:00 | 00:00:00 | 00:03:00 | 00:03:00 | 00:00:00 | 00:03:00 | 00:03:00 | 00:00:00 |
| | Transfer waiting Time | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 |
| | Walk Time | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:18:00 | 00:00:00 | 00:00:00 |
| | Number of Interchanges | | 0 | | | 0 | | | 0 | |
| | Average Journey Time | | | | | | | | | |
| Rail & Bus | Average Access Time | | | | | | | | | |



| | Average Egress | | | | | | | | | |
|------------|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| | In-vehicle Time | | | | | | | | | |
| | Transfer waiting | | | | | | | | | |
| | Time | | | | | | | | | |
| | Walk Time | | | | | | | | | |
| | Number of Interchanges | | | | | | | | | |
| | Average Journey Time | | | | | | | | | |
| | Average Access Time | | | | | | | | | |
| | Average Egress Time | | | | | | | | | |
| Bus & Rail | In-vehicle Time | | | | | | | | | |
| | Transfer waiting Time | | | | | | | | | |
| | Walk Time | | | | | | | | | |
| | Number of Interchanges | | | | | | | | | |
| | Average Journey Time | 00:23:00 | 00:15:43 | 00:07:17 | 00:19:00 | 00:15:43 | 00:03:17 | 00:20:00 | 00:15:43 | 00:04:17 |
| | Average Access Time | 00:02:00 | 00:03:55 | 00:01:55 | 00:02:00 | 00:03:55 | 00:01:55 | 00:03:00 | 00:03:55 | 00:00:55 |
| | Average Egress Time | 00:03:00 | 00:01:56 | 00:01:04 | 00:03:00 | 00:01:56 | 00:01:04 | 00:02:00 | 00:01:56 | 00:00:04 |
| Bus | In-vehicle Time | 00:18:00 | 00:09:52 | 00:08:08 | 00:14:00 | 00:09:52 | 00:04:08 | 00:15:00 | 00:09:52 | 00:05:08 |
| | Transfer waiting Time | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 |
| | Walk Time | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 |
| | Number of Interchanges | | 0 | | | 0 | | | 0 | |

Route 5: Woodley to Lower Earley

| | | | AM | | | IP | | | PM | |
|------|-------------------------|-----|-----|--------------|-----|-----|--------------|-----|-----|--------------|
| Mode | Parameter | Obs | Mod | Abs. Diff | Obs | Mod | Abs. Diff | Obs | Mod | Abs. Diff |
| | Average Journey Time | | | | | | | | | |
| | Average Access Time | | | | | | | | | |
| Rail | Average Egress Time | | | | | | | | | |
| | In-vehicle Time | | | | | | | | | |
| | Transfer waiting Time | | | | | | | | | |
| | Walk Time | | | | | | | | | |



| | | | АМ | | | IP | | | PM | |
|------------|---------------------------|----------|----------|--------------|----------|----------|--------------|----------|----------|--------------|
| Mode | Parameter | Obs | Mod | Abs. Diff | Obs | Mod | Abs. Diff | Obs | Mod | Abs. Diff |
| | Number of Interchanges | | | | | | | | | |
| | Average Journey Time | | | | | | | | | |
| | Average Access Time | | | | | | | | | |
| | Average Egress Time | | | | | | | | | |
| Rail & Bus | In-vehicle Time | | | | | | | | | |
| | Transfer waiting Time | | | | | | | | | |
| | Walk Time | | | | | | | | | |
| | Number of Interchanges | | | | | | | | | |
| | Average Journey Time | | | | | | | | | |
| | Average Access Time | | | | | | | | | |
| | Average Egress Time | | | | | | | | | |
| Bus & Rail | In-vehicle Time | | | | | | | | | |
| | Transfer waiting Time | | | | | | | | | |
| | Walk Time | | | | | | | | | |
| | Number of Interchanges | | | | | | | | | |
| | Average Journey Time | 00:40:00 | 00:36:36 | 00:03:24 | 00:38:00 | 00:42:22 | 00:04:22 | 00:37:00 | 00:39:22 | 00:02:22 |
| | Average Access Time | 00:04:00 | 00:01:40 | 00:02:20 | 00:04:00 | 00:01:54 | 00:02:06 | 00:07:00 | 00:01:40 | 00:05:20 |
| | Average Egress Time | 00:05:00 | 00:05:06 | 00:00:06 | 00:05:00 | 00:05:26 | 00:00:26 | 00:02:00 | 00:04:24 | 00:02:24 |
| Bus | In-vehicle Time | 00:21:00 | 00:20:25 | 00:00:35 | 00:27:00 | 00:27:27 | 00:00:28 | 00:23:00 | 00:26:50 | 00:03:50 |
| | Transfer waiting Time | 00:10:00 | 00:06:29 | 00:03:31 | 00:00:00 | 00:01:56 | 00:01:56 | 00:00:00 | 00:01:38 | 00:01:38 |
| | Walk Time | 00:00:00 | 00:02:56 | 00:02:56 | 00:02:00 | 00:05:39 | 00:03:39 | 00:05:00 | 00:04:51 | 00:00:09 |
| | Number of Interchanges | | 1 | | | 1 | | | 1 | |



Route 5: Lower Earley to Woodley

| | | | AM | | | IP | | | PM | |
|------------|---------------------------|----------|----------|--------------|----------|----------|--------------|----------|----------|--------------|
| Mode | Parameter | Obs | Mod | Abs. Diff | Obs | Mod | Abs. Diff | Obs | Mod | Abs. Diff |
| | Average Journey Time | | | | | | | | | |
| | Average Access Time | | | | | | | | | |
| | Average Egress Time | | | | | | | | | |
| Rail | In-vehicle Time | | | | | | | | | |
| | Transfer waiting Time | | | | | | | | | |
| | Walk Time | | | | | | | | | |
| | Number of Interchanges | | | | | | | | | |
| | Average Journey Time | | | | | | | | | |
| | Average Access Time | | | | | | | | | |
| | Average Egress Time | | | | | | | | | |
| Rail & Bus | In-vehicle Time | | | | | | | | | |
| | Transfer waiting Time | | | | | | | | | |
| | Walk Time | | | | | | | | | |
| | Number of Interchanges | | | | | | | | | |
| | Average Journey Time | | | | | | | | | |
| | Average Access Time | | | | | | | | | |
| | Average Egress Time | | | | | | | | | |
| Bus & Rail | In-vehicle Time | | | | | | | | | |
| | Transfer waiting Time | | | | | | | | | |
| | Walk Time | | | | | | | | | |
| | Number of Interchanges | | | | | | | | | |
| | Average Journey Time | 00:48:00 | 00:40:53 | 00:07:07 | 00:37:00 | 00:34:50 | 00:02:10 | 00:41:00 | 00:43:02 | 00:02:02 |
| Bus | Average Access Time | 00:04:00 | 00:05:26 | 00:01:26 | 00:05:00 | 00:05:26 | 00:00:26 | 00:02:00 | 00:05:18 | 00:03:18 |
| | Average Egress Time | 00:05:00 | 00:01:30 | 00:03:30 | 00:09:00 | 00:01:54 | 00:07:06 | 00:10:00 | 00:01:18 | 00:08:42 |
| | In-vehicle Time | 00:30:00 | 00:25:46 | 00:04:14 | 00:23:00 | 00:16:11 | 00:06:49 | 00:27:00 | 00:26:41 | 00:00:19 |



| | | | AM | | | IP | | | PM | |
|------|--------------------------|----------|----------|--------------|----------|----------|--------------|----------|----------|--------------|
| Mode | Parameter | Obs | Mod | Abs. Diff | Obs | Mod | Abs. Diff | Obs | Mod | Abs. Diff |
| | Transfer waiting Time | 00:09:00 | 00:02:56 | 00:06:04 | 00:00:00 | 00:01:12 | 00:01:12 | 00:00:00 | 00:03:49 | 00:03:49 |
| | Walk Time | 00:00:00 | 00:05:14 | 00:05:14 | 00:00:00 | 00:10:07 | 00:10:07 | 00:02:00 | 00:05:56 | 00:03:56 |
| | Number of Interchanges | | 1 | | | 1 | | | 1 | |
| | interchanges | | | | | | | | | |

Route 6: Reading to Oxford

| | | | AM | | | IP | | | PM | |
|------------|---------------------------|----------|----------|--------------|----------|----------|--------------|----------|----------|--------------|
| Mode | Parameter | Obs | Mod | Abs. Diff | Obs | Mod | Abs. Diff | Obs | Mod | Abs. Diff |
| | Average Journey Time | 00:51:00 | 00:52:04 | 00:01:04 | 00:54:00 | 00:52:04 | 00:01:56 | 00:58:00 | 00:55:14 | 00:02:46 |
| | Average Access Time | 00:11:00 | 00:10:25 | 00:00:35 | 00:11:00 | 00:10:25 | 00:00:35 | 00:11:00 | 00:10:25 | 00:00:35 |
| | Average Egress Time | 00:15:00 | 00:18:19 | 00:03:19 | 00:15:00 | 00:18:19 | 00:03:19 | 00:15:00 | 00:18:19 | 00:03:19 |
| Rail | In-vehicle Time | 00:25:00 | 00:23:20 | 00:01:40 | 00:28:00 | 00:23:20 | 00:04:40 | 00:32:00 | 00:26:30 | 00:05:30 |
| | Transfer waiting Time | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 |
| | Walk Time | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 |
| | Number of Interchanges | | 0 | | | 0 | | | 0 | |
| | Average Journey Time | | | | | | | | | |
| | Average Access Time | | | | | | | | | |
| | Average Egress Time | | | | | | | | | |
| Rail & Bus | In-vehicle Time | | | | | | | | | |
| | Transfer waiting Time | | | | | | | | | |
| | Walk Time | | | | | | | | | |
| | Number of Interchanges | | | | | | | | | |
| | Average Journey Time | | | | | | | | | |
| | Average Access Time | | | | | | | | | |
| Bus & Rail | Average Egress Time | | | | | | | | | |
| | In-vehicle Time | | | | | | | | | |
| | Transfer waiting Time | | | | | | | | | |



| | | AM | | | | IP | | PM | | | |
|------|-------------------------|-----|-----|--------------|-----|-----|--------------|-----|-----|--------------|--|
| Mode | Parameter | Obs | Mod | Abs. Diff | Obs | Mod | Abs. Diff | Obs | Mod | Abs. Diff | |
| | Walk Time | | | | | | | | | | |
| | Number of Interchanges | | | | | | | | | | |
| | Average Journey Time | | | | | | | | | | |
| | Average Access Time | | | | | | | | | | |
| | Average Egress Time | | | | | | | | | | |
| Bus | In-vehicle Time | | | | | | | | | | |
| | Transfer waiting Time | | | | | | | | | | |
| | Walk Time | | | | | | | | | | |
| | Number of Interchanges | | | | | | | | | | |

Route 6: Oxford to Reading

| | | АМ | | | | IP | | PM | | | |
|------------|-------------------------|----------|----------|--------------|----------|----------|--------------|----------|----------|--------------|--|
| Mode | Parameter | Obs | Mod | Abs. Diff | Obs | Mod | Abs. Diff | Obs | Mod | Abs. Diff | |
| | Average Journey Time | 00:51:00 | 00:55:14 | 00:04:14 | 00:50:00 | 00:52:04 | 00:02:04 | 00:50:00 | 00:52:04 | 00:02:04 | |
| | Average Access Time | 00:15:00 | 00:18:19 | 00:03:19 | 00:15:00 | 00:18:19 | 00:03:19 | 00:21:00 | 00:18:19 | 00:02:41 | |
| | Average Egress Time | 00:11:00 | 00:10:25 | 00:00:35 | 00:11:00 | 00:10:25 | 00:00:35 | 00:05:00 | 00:10:25 | 00:05:25 | |
| Rail | In-vehicle Time | 00:25:00 | 00:26:30 | 00:01:30 | 00:24:00 | 00:23:20 | 00:00:40 | 00:24:00 | 00:23:20 | 00:00:40 | |
| | Transfer waiting Time | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | |
| | Walk Time | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | |
| | Number of Interchanges | | 0 | | | 0 | | | 0 | | |
| | Average Journey Time | | | | | | | | | | |
| | Average Access Time | | | | | | | | | | |
| Rail & Bus | Average Egress Time | | | | | | | | | | |
| | In-vehicle Time | | | | | | | | | | |
| | Transfer waiting Time | | | | | | | | | | |
| | Walk Time | | | | | | | | | | |



| | | АМ | | | | IP | | PM | | | |
|------------|---------------------------|-----|-----|--------------|-----|-----|--------------|-----|-----|--------------|--|
| Mode | Parameter | Obs | Mod | Abs. Diff | Obs | Mod | Abs. Diff | Obs | Mod | Abs. Diff | |
| | Number of Interchanges | | | | | | | | | | |
| | Average Journey Time | | | | | | | | | | |
| | Average Access Time | | | | | | | | | | |
| | Average Egress Time | | | | | | | | | | |
| Bus & Rail | In-vehicle Time | | | | | | | | | | |
| | Transfer waiting Time | | | | | | | | | | |
| | Walk Time | | | | | | | | | | |
| | Number of Interchanges | | | | | | | | | | |
| | Average Journey Time | | | | | | | | | | |
| | Average Access Time | | | | | | | | | | |
| | Average Egress Time | | | | | | | | | | |
| Bus | In-vehicle Time | | | | | | | | | | |
| | Transfer waiting Time | | | | | | | | | | |
| | Walk Time | | | | | | | | | | |
| | Number of Interchanges | | | | | | | | | | |

Route 7: Reading to Central London

| | АМ | | | | | IP | | РМ | | | |
|------|-------------------------|----------|----------|--------------|----------|----------|--------------|----------|----------|--------------|--|
| Mode | Parameter | Obs | Mod | Abs. Diff | Obs | Mod | Abs. Diff | Obs | Mod | Abs. Diff | |
| | Average Journey Time | 01:33:00 | 01:29:31 | 00:03:29 | 01:22:00 | 01:15:55 | 00:06:05 | 00:53:00 | 01:12:26 | 00:19:26 | |
| | Average Access Time | 00:24:00 | 00:18:31 | 00:05:29 | 00:24:00 | 00:18:31 | 00:05:29 | 00:24:00 | 00:18:31 | 00:05:29 | |
| | Average Egress Time | 00:18:00 | 00:20:00 | 00:02:00 | 00:18:00 | 00:20:00 | 00:02:00 | 00:18:00 | 00:20:00 | 00:02:00 | |
| Rail | In-vehicle Time | 00:43:00 | 00:46:20 | 00:03:20 | 00:33:00 | 00:30:23 | 00:02:37 | 00:34:00 | 00:30:20 | 00:03:40 | |
| | Transfer waiting Time | 00:08:00 | 00:04:40 | 00:03:20 | 00:07:00 | 00:07:02 | 00:00:02 | 00:00:00 | 00:03:35 | 00:03:35 | |
| | Walk Time | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | |
| | Number of Interchanges | | 1 | | | 1 | | | 1 | | |



| | | АМ | | | | IP | | PM | | | |
|------------|---------------------------|----------|----------|--------------|----------|----------|--------------|----------|----------|--------------|--|
| Mode | Parameter | Obs | Mod | Abs. Diff | Obs | Mod | Abs. Diff | Obs | Mod | Abs. Diff | |
| | Average Journey Time | | | | | | | | | | |
| | Average Access Time | | | | | | | | | | |
| | Average Egress Time | | | | | | | | | | |
| Rail & Bus | In-vehicle Time | | | | | | | | | | |
| | Transfer waiting Time | | | | | | | | | | |
| | Walk Time | | | | | | | | | | |
| | Number of Interchanges | | | | | | | | | | |
| | Average Journey Time | 01:28:00 | 01:11:03 | 00:16:57 | 01:30:00 | 01:10:28 | 00:19:32 | 01:36:00 | 01:10:51 | 00:25:09 | |
| | Average Access Time | 00:01:00 | 00:01:35 | 00:00:35 | 00:01:00 | 00:01:35 | 00:00:35 | 00:07:00 | 00:01:35 | 00:05:25 | |
| | Average Egress Time | 00:24:00 | 00:20:00 | 00:04:00 | 00:24:00 | 00:20:00 | 00:04:00 | 00:24:00 | 00:20:00 | 00:04:00 | |
| Bus & Rail | In-vehicle Time | 01:03:00 | 00:44:42 | 00:18:18 | 01:00:00 | 00:44:44 | 00:15:16 | 01:00:00 | 00:44:40 | 00:15:19 | |
| | Transfer waiting Time | 00:00:00 | 00:00:48 | 00:00:48 | 00:01:00 | 00:00:26 | 00:00:34 | 00:01:00 | 00:00:29 | 00:00:31 | |
| | Walk Time | 00:00:00 | 00:03:58 | 00:03:58 | 00:04:00 | 00:03:43 | 00:00:17 | 00:04:00 | 00:04:06 | 00:00:06 | |
| | Number of Interchanges | | 1 | | | 1 | | | 1 | | |
| | Average Journey Time | | | | | | | | | | |
| | Average Access Time | | | | | | | | | | |
| | Average Egress Time | | | | | | | | | | |
| Bus | In-vehicle Time | | | | | | | | | | |
| | Transfer waiting Time | | | | | | | | | | |
| | Walk Time | | | | | | | | | | |
| | Number of Interchanges | | | | | | | | | | |

Route 7: Central London to Reading

| | | AM | | | IP | | | РМ | | |
|------|-------------------------|----------|----------|--------------|----------|----------|--------------|----------|----------|--------------|
| Mode | Parameter | Obs | Mod | Abs. Diff | Obs | Mod | Abs. Diff | Obs | Mod | Abs. Diff |
| Rail | Average Journey Time | 01:29:00 | 01:13:31 | 00:15:29 | 01:29:00 | 01:13:01 | 00:15:59 | 01:24:00 | 01:25:31 | 00:01:31 |



| | | | AM | | | IP | | | PM | |
|------------|---------------------------|----------|----------|--------------|----------|----------|--------------|----------|----------|--------------|
| Mode | Parameter | Obs | Mod | Abs. Diff | Obs | Mod | Abs. Diff | Obs | Mod | Abs. Diff |
| | Average Access Time | 00:18:00 | 00:20:00 | 00:02:00 | 00:18:00 | 00:20:00 | 00:02:00 | 00:18:00 | 00:20:00 | 00:02:00 |
| | Average Egress Time | 00:24:00 | 00:18:31 | 00:05:29 | 00:24:00 | 00:18:31 | 00:05:29 | 00:24:00 | 00:18:31 | 00:05:29 |
| | In-vehicle Time | 00:30:00 | 00:30:00 | 00:00:00 | 00:31:00 | 00:28:00 | 00:03:00 | 00:35:00 | 00:45:00 | 00:10:00 |
| | Transfer waiting Time | 00:17:00 | 00:05:00 | 00:12:00 | 00:16:00 | 00:06:30 | 00:09:30 | 00:07:00 | 00:02:00 | 00:05:00 |
| | Walk Time | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 |
| | Number of Interchanges | | 1 | | | 1 | | | 1 | |
| | Average Journey Time | 01:17:00 | 01:15:40 | 00:01:20 | 01:20:00 | 01:09:40 | 00:10:20 | 01:22:00 | 01:07:40 | 00:14:20 |
| | Average Access Time | 00:24:00 | 00:20:00 | 00:04:00 | 00:24:00 | 00:20:00 | 00:04:00 | 00:24:00 | 00:20:00 | 00:04:00 |
| | Average Egress Time | 00:01:00 | 00:01:35 | 00:00:35 | 00:01:00 | 00:01:35 | 00:00:35 | 00:01:00 | 00:01:35 | 00:00:35 |
| Rail & Bus | In-vehicle Time | 00:46:00 | 00:44:16 | 00:01:44 | 00:47:00 | 00:44:16 | 00:02:44 | 00:52:00 | 00:41:16 | 00:10:44 |
| | Transfer waiting Time | 00:04:00 | 00:06:45 | 00:02:45 | 00:04:00 | 00:00:45 | 00:03:15 | 00:01:00 | 00:01:45 | 00:00:45 |
| | Walk Time | 00:02:00 | 00:03:04 | 00:01:04 | 00:04:00 | 00:03:04 | 00:00:56 | 00:04:00 | 00:03:04 | 00:00:56 |
| | Number of Interchanges | | 1 | | | 1 | | | 1 | |
| | Average Journey Time | | | | | | | | | |
| | Average Access Time | | | | | | | | | |
| | Average Egress Time | | | | | | | | | |
| Bus & Rail | In-vehicle Time | | | | | | | | | |
| | Transfer waiting Time | | | | | | | | | |
| | Walk Time | | | | | | | | | |
| | Number of Interchanges | | | | | | | | | |
| | Average Journey Time | | | | | | | | | |
| | Average Access Time | | | | | | | | | |
| Bus | Average Egress Time | | | | | | | | | |
| | In-vehicle Time | | | | | | | | | |
| | Transfer waiting Time | | | | | | | | | |
| | Walk Time | | | | | | | | | |



| | | | AM | | | IP | | | PM | | |
|------|------------------------|-----|-----|--------------|-----|-----|--------------|-----|-----|--------------|--|
| Mode | Parameter | Obs | Mod | Abs. Diff | Obs | Mod | Abs. Diff | Obs | Mod | Abs. Diff | |
| | Number of Interchanges | | | | | | | | | | |

Route 8: Shinfield to Reading

| | | | AM | | | IP | | | PM | |
|------------|---------------------------|-----|-----|--------------|-----|-----|--------------|-----|-----|--------------|
| Mode | Parameter | Obs | Mod | Abs. Diff | Obs | Mod | Abs. Diff | Obs | Mod | Abs. Diff |
| | Average Journey Time | | | | | | | | | |
| | Average Access Time | | | | | | | | | |
| | Average Egress Time | | | | | | | | | |
| Rail | In-vehicle Time | | | | | | | | | |
| | Transfer waiting Time | | | | | | | | | |
| | Walk Time | | | | | | | | | |
| | Number of Interchanges | | | | | | | | | |
| | Average Journey Time | | | | | | | | | |
| | Average Access Time | | | | | | | | | |
| | Average Egress Time | | | | | | | | | |
| Rail & Bus | In-vehicle Time | | | | | | | | | |
| | Transfer waiting Time | | | | | | | | | |
| | Walk Time | | | | | | | | | |
| | Number of Interchanges | | | | | | | | | |
| | Average Journey Time | | | | | | | | | |
| | Average Access Time | | | | | | | | | |
| | Average Egress Time | | | | | | | | | |
| Bus & Rail | In-vehicle Time | | | | | | | | | |
| | Transfer waiting Time | | | | | | | | | |
| | Walk Time | | | | | | | | | |
| | Number of Interchanges | | | | | | | | | |



| | | | AM | | | IP | | PM | | | |
|------|---------------------------|----------|----------|--------------|----------|----------|--------------|----------|----------|--------------|--|
| Mode | Parameter | Obs | Mod | Abs. Diff | Obs | Mod | Abs. Diff | Obs | Mod | Abs. Diff | |
| | Average Journey Time | 00:30:00 | 00:28:59 | 00:01:01 | 00:28:00 | 00:30:20 | 00:02:20 | 00:31:00 | 00:30:20 | 00:00:40 | |
| | Average Access Time | 00:04:00 | 00:03:16 | 00:00:44 | 00:04:00 | 00:03:16 | 00:00:44 | 00:04:00 | 00:03:16 | 00:00:44 | |
| | Average Egress Time | 00:03:00 | 00:03:30 | 00:00:30 | 00:03:00 | 00:03:52 | 00:00:52 | 00:03:00 | 00:03:52 | 00:00:52 | |
| Bus | In-vehicle Time | 00:23:00 | 00:22:05 | 00:00:55 | 00:21:00 | 00:23:12 | 00:02:12 | 00:24:00 | 00:23:12 | 00:00:48 | |
| | Transfer waiting Time | 00:00:00 | 00:00:08 | 00:00:08 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | |
| | Walk Time | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | |
| | Number of Interchanges | | 1 | | | 0 | | | 0 | | |

Route 8: Reading to Shinfield

| | | | AM | | | IP | | | PM | |
|------------|--------------------------|-----|-----|--------------|-----|-----|--------------|-----|-----|--------------|
| Mode | Parameter | Obs | Mod | Abs. Diff | Obs | Mod | Abs. Diff | Obs | Mod | Abs. Diff |
| | Average Journey Time | | | | | | | | | |
| | Average Access Time | | | | | | | | | |
| | Average Egress Time | | | | | | | | | |
| Rail | In-vehicle Time | | | | | | | | | |
| | Transfer waiting Time | | | | | | | | | |
| | Walk Time | | | | | | | | | |
| | Number of Interchanges | | | | | | | | | |
| | Average Journey Time | | | | | | | | | |
| | Average Access Time | | | | | | | | | |
| | Average Egress Time | | | | | | | | | |
| Rail & Bus | In-vehicle Time | | | | | | | | | |
| | Transfer waiting Time | | | | | | | | | |
| | Walk Time | | | | | | | | | |
| | Number of Interchanges | | | | | | | | | |



| | | | AM | | | IP | | | PM | |
|------------|---------------------------|----------|----------|--------------|----------|----------|--------------|----------|----------|--------------|
| Mode | Parameter | Obs | Mod | Abs. Diff | Obs | Mod | Abs. Diff | Obs | Mod | Abs. Diff |
| | Average Journey Time | | | | | | | | | |
| | Average Access Time | | | | | | | | | |
| | Average Egress Time | | | | | | | | | |
| Bus & Rail | In-vehicle Time | | | | | | | | | |
| | Transfer waiting Time | | | | | | | | | |
| | Walk Time | | | | | | | | | |
| | Number of Interchanges | | | | | | | | | |
| | Average Journey Time | 00:31:00 | 00:27:20 | 00:03:40 | 00:26:00 | 00:27:25 | 00:01:25 | 00:31:00 | 00:27:25 | 00:03:35 |
| | Average Access Time | 00:03:00 | 00:03:08 | 00:00:08 | 00:03:00 | 00:03:52 | 00:00:52 | 00:03:00 | 00:03:52 | 00:00:52 |
| | Average Egress Time | 00:04:00 | 00:03:16 | 00:00:44 | 00:04:00 | 00:03:16 | 00:00:44 | 00:04:00 | 00:03:16 | 00:00:44 |
| Bus | In-vehicle Time | 00:24:00 | 00:20:38 | 00:03:22 | 00:19:00 | 00:20:17 | 00:01:17 | 00:24:00 | 00:20:17 | 00:03:43 |
| | Transfer waiting Time | 00:00:00 | 00:00:19 | 00:00:19 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 |
| | Walk Time | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 |
| | Number of Interchanges | | 1 | | | 0 | | | 0 | |

Route 9: Reading to Caversham

| | | | AM | | | IP | | PM | | | |
|------------|-------------------------|-----|-----|--------------|-----|-----|--------------|-----|-----|--------------|--|
| Mode | Parameter | Obs | Mod | Abs. Diff | Obs | Mod | Abs. Diff | Obs | Mod | Abs. Diff | |
| | Average Journey Time | | | | | | | | | | |
| | Average Access Time | | | | | | | | | | |
| | Average Egress Time | | | | | | | | | | |
| Rail | In-vehicle Time | | | | | | | | | | |
| | Transfer waiting Time | | | | | | | | | | |
| | Walk Time | | | | | | | | | | |
| | Number of Interchanges | | | | | | | | | | |
| Rail & Bus | Average Journey Time | | | | | | | | | | |



| Mode Parameter | | | АМ | | | IP | | | PM | |
|----------------|---------------------------|----------|----------|--------------|----------|----------|--------------|----------|----------|--------------|
| Mode | Parameter | Obs | Mod | Abs. Diff | Obs | Mod | Abs. Diff | Obs | Mod | Abs. Diff |
| | Average Access Time | | | | | | | | | |
| | Average Egress Time | | | | | | | | | |
| | In-vehicle Time | | | | | | | | | |
| | Transfer waiting Time | | | | | | | | | |
| | Walk Time | | | | | | | | | |
| | Number of Interchanges | | | | | | | | | |
| | Average Journey Time | | | | | | | | | |
| | Average Access Time | | | | | | | | | |
| | Average Egress Time | | | | | | | | | |
| Bus & Rail | In-vehicle Time | | | | | | | | | |
| | Transfer waiting Time | | | | | | | | | |
| | Walk Time | | | | | | | | | |
| | Number of Interchanges | | | | | | | | | |
| | Average Journey Time | 00:21:00 | 00:17:54 | 00:03:06 | 00:22:00 | 00:17:54 | 00:04:06 | 00:23:00 | 00:17:54 | 00:05:06 |
| | Average Access Time | 00:05:00 | 00:02:23 | 00:02:37 | 00:05:00 | 00:02:23 | 00:02:37 | 00:05:00 | 00:02:23 | 00:02:37 |
| | Average Egress Time | 00:05:00 | 00:06:11 | 00:01:11 | 00:05:00 | 00:06:11 | 00:01:11 | 00:05:00 | 00:06:11 | 00:01:11 |
| Bus | In-vehicle Time | 00:11:00 | 00:09:20 | 00:01:40 | 00:12:00 | 00:09:20 | 00:02:40 | 00:13:00 | 00:09:20 | 00:03:40 |
| | Transfer waiting Time | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 |
| | Walk Time | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 |
| | Number of Interchanges | | 0 | | | 0 | | | 0 | |

Route 9: Caversham to Reading

| | | AM | | | | IP | | PM | | |
|------|-------------------------|-----|-----|--------------|-----|-----|--------------|-----|-----|--------------|
| Mode | Parameter | Obs | Mod | Abs. Diff | Obs | Mod | Abs. Diff | Obs | Mod | Abs. Diff |
| | Average Journey Time | | | | | | | | | |
| Rail | Average Access Time | | | | | | | | | |



| Mode Parameter | | | AM | | | IP | | | PM | |
|----------------|---------------------------|----------|----------|--------------|----------|----------|--------------|----------|----------|--------------|
| Mode | Parameter | Obs | Mod | Abs. Diff | Obs | Mod | Abs. Diff | Obs | Mod | Abs. Diff |
| | Average Egress Time | | | | | | | | | |
| | In-vehicle Time | | | | | | | | | |
| | Transfer waiting Time | | | | | | | | | |
| | Walk Time | | | | | | | | | |
| | Number of Interchanges | | | | | | | | | |
| | Average Journey Time | | | | | | | | | |
| | Average Access Time | | | | | | | | | |
| | Average Egress Time | | | | | | | | | |
| Rail & Bus | In-vehicle Time | | | | | | | | | |
| | Transfer waiting Time | | | | | | | | | |
| | Walk Time | | | | | | | | | |
| | Number of Interchanges | | | | | | | | | |
| | Average Journey Time | | | | | | | | | |
| | Average Access Time | | | | | | | | | |
| | Average Egress Time | | | | | | | | | |
| Bus & Rail | In-vehicle Time | | | | | | | | | |
| | Transfer waiting Time | | | | | | | | | |
| | Walk Time | | | | | | | | | |
| | Number of Interchanges | | | | | | | | | |
| | Average Journey Time | 00:24:00 | 00:16:50 | 00:07:10 | 00:23:00 | 00:16:50 | 00:06:10 | 00:24:00 | 00:16:50 | 00:07:10 |
| | Average Access Time | 00:05:00 | 00:06:11 | 00:01:11 | 00:05:00 | 00:06:11 | 00:01:11 | 00:05:00 | 00:06:11 | 00:01:11 |
| | Average Egress Time | 00:05:00 | 00:02:23 | 00:02:37 | 00:05:00 | 00:02:23 | 00:02:37 | 00:05:00 | 00:02:23 | 00:02:37 |
| Bus | In-vehicle Time | 00:14:00 | 00:08:16 | 00:05:44 | 00:13:00 | 00:08:16 | 00:04:44 | 00:14:00 | 00:08:16 | 00:05:44 |
| | Transfer waiting Time | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 |
| | Walk Time | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 | 00:00:00 |
| | Number of Interchanges | | 0 | | | 0 | | | 0 | |



Appendix A.2

FINAL ASSIGNMENT RESULTS



Updated rail link validation results

| TP | Dir | In/out | Obs | Mod | GEH | GEH pass? | Flow pass? |
|----|-----------------------------|--------|------|------|-----|-----------|------------|
| AM | Reading - Wokingham | In | 1553 | 1557 | 0.1 | Yes | Yes |
| AM | Reading - Wokingham | Out | 817 | 817 | 0.0 | Yes | Yes |
| AM | Reading - Twyford | Out | 6539 | 6000 | 6.8 | No | Yes |
| AM | Reading - Twyford | In | 1836 | 1800 | 0.8 | Yes | Yes |
| AM | Reading - Reading West | Out | 778 | 801 | 0.8 | Yes | Yes |
| AM | Reading - Reading West | In | 2314 | 2253 | 1.3 | Yes | Yes |
| AM | Reading - Didcot Parkway | Out | 1265 | 1292 | 0.8 | Yes | Yes |
| AM | Reading - Didcot Parkway | In | 3679 | 3554 | 2.1 | Yes | Yes |
| IP | Reading - Wokingham | In | 444 | 406 | 1.8 | Yes | Yes |
| IP | Reading - Wokingham | Out | 414 | 371 | 2.2 | Yes | Yes |
| IP | Reading - Twyford | Out | 2187 | 2017 | 3.7 | Yes | Yes |
| IP | Reading - Twyford | In | 1692 | 1550 | 3.5 | Yes | Yes |
| IP | Reading - Reading West | Out | 1103 | 1018 | 2.6 | Yes | Yes |
| IP | Reading - Reading West | In | 773 | 718 | 2.0 | Yes | Yes |
| IP | Reading - Didcot Parkway | Out | 983 | 991 | 0.3 | Yes | Yes |
| IP | Reading - Didcot Parkway | ln | 1739 | 1682 | 1.4 | Yes | Yes |
| PM | Reading - Wokingham | In | 919 | 900 | 0.6 | Yes | Yes |
| PM | Reading - Wokingham | Out | 1715 | 1560 | 3.8 | Yes | Yes |
| PM | Reading - Twyford | Out | 3097 | 2894 | 3.7 | Yes | Yes |
| PM | Reading - Twyford | In | 6107 | 5649 | 6.0 | No | Yes |
| PM | Reading - Reading West | Out | 2937 | 2758 | 3.4 | Yes | Yes |
| PM | Reading - Reading West | In | 980 | 950 | 1.0 | Yes | Yes |
| PM | Reading - Didcot Parkway | Out | 3425 | 3385 | 0.7 | Yes | Yes |
| PM | Reading - Didcot Parkway | In | 2015 | 1981 | 0.8 | Yes | Yes |



Updated bus stop validation results

| | | _ | | | | | | | |
|----|-----------------------|-----|-------------|------|-------|------|------------|------------|-------|
| TP | Site location | | otal passer | | | lota | l passenge | rs alighti | ng |
| | | Obs | Mod | GEH | Pass? | Obs | Mod | GEH | Pass? |
| AM | FE Friar Street | 11 | 4 | 2.5 | YES | 0 | 11 | 4.7 | YES |
| AM | FM Friars Street | 46 | 54 | 1.1 | YES | 129 | 99 | 2.8 | YES |
| AM | FH Friar Street | 4 | 24 | 5.4 | NO | 86 | 21 | 8.9 | NO |
| AM | FF Friar Street | 0 | 0 | 0.0 | YES | 0 | 0 | 0.0 | YES |
| AM | MQ Minister Street | 2 | 0 | 1.9 | YES | 6 | 30 | 5.6 | NO |
| AM | FC Friar Street | 9 | 9 | 0.1 | YES | 13 | 30 | 3.6 | YES |
| AM | EP Blagrave Street | 39 | 50 | 1.6 | YES | 135 | 165 | 2.5 | YES |
| AM | FL Friar Street | 61 | 0 | 10.9 | NO | 52 | 14 | 6.6 | NO |
| AM | MK King Street | 0 | 4 | 2.7 | YES | 65 | 72 | 0.9 | YES |
| AM | MA Market Place | 58 | 9 | 8.4 | NO | 0 | 14 | 5.3 | NO |
| AM | MB-MC Market Place | 50 | 119 | 7.5 | NO | 2 | 17 | 4.8 | YES |
| AM | MH Duke Street | 0 | 9 | 4.2 | YES | 184 | 26 | 15.4 | NO |
| AM | MM Minister Street | 4 | 2 | 1.2 | YES | 40 | 111 | 8.2 | NO |
| AM | MG Kings Road | 1 | 0 | 1.4 | YES | 124 | 175 | 4.1 | YES |
| AM | MF Kings Road | 76 | 42 | 4.4 | YES | 0 | 30 | 7.8 | NO |
| AM | CW Cheapside | 68 | 8 | 9.7 | NO | 8 | 9 | 0.5 | YES |
| AM | ME Kings Road | 63 | 48 | 2.0 | YES | 12 | 10 | 0.6 | YES |
| AM | MI Bridge Street | 4 | 2 | 1.0 | YES | 75 | 10 | 10.0 | NO |
| AM | CV Oxford Road | 8 | 0 | 3.9 | YES | 217 | 29 | 17.0 | NO |
| AM | EL Forbury Road | 29 | 33 | 0.8 | YES | 5 | 1 | 2.6 | YES |
| AM | EO Blagrave Street | 51 | 52 | 0.1 | YES | 12 | 23 | 2.6 | YES |
| AM | EH (RAIL AIR) | 29 | 23 | 1.3 | YES | 10 | 17 | 1.9 | YES |
| AM | EN Forbury Road | 291 | 230 | 3.8 | YES | 28 | 43 | 2.5 | YES |
| AM | XX Kings Road | 0 | 14 | 5.2 | NO | 26 | 9 | 4.2 | YES |
| AM | YY Kings Road | 7 | 5 | 0.9 | YES | 1 | 3 | 1.3 | YES |
| AM | CZ Cheapside | 0 | 10 | 4.5 | YES | 0 | 9 | 4.1 | YES |
| AM | EA Station Road | 98 | 106 | 0.8 | YES | 16 | 28 | 2.5 | YES |



| AM | Station North | 35 | 1 | 7.9 | NO | 88 | 0 | 13.2 | NO |
|----|--------------------------|-----|-----|------|-----|-----|-----|------|-----|
| AM | Castle Street | 65 | 17 | 7.4 | NO | 3 | 37 | 7.6 | NO |
| AM | Station Road | 155 | 169 | 1.1 | YES | 180 | 140 | 3.2 | YES |
| AM | Tesco Wokingham | 0 | 1 | 1.2 | YES | 0 | 3 | 2.5 | YES |
| AM | Alderman Willey Close | 0 | 2 | 2.0 | YES | 0 | 17 | 5.7 | NO |
| AM | Broad Street | 9 | 11 | 0.6 | YES | 0 | 28 | 7.4 | NO |
| AM | Station Road | 142 | 3 | 16.3 | NO | 417 | 331 | 4.4 | YES |
| IP | FE Friar Street | 40 | 11 | 5.9 | NO | 1 | 10 | 3.9 | YES |
| IP | FM Friars Street | 61 | 54 | 0.9 | YES | 51 | 46 | 0.8 | YES |
| IP | FH Friar Street | 34 | 30 | 0.7 | YES | 63 | 47 | 2.2 | YES |
| IP | FF Friar Street | 0 | 0 | 0.0 | YES | 1 | 0 | 1.4 | YES |
| IP | MQ Minister Street | 20 | 1 | 5.8 | NO | 27 | 25 | 0.3 | YES |
| IP | FC Friar Street | 34 | 21 | 2.5 | YES | 37 | 33 | 0.7 | YES |
| IP | EP Blagrave Street | 46 | 49 | 0.4 | YES | 100 | 97 | 0.2 | YES |
| IP | FL Friar Street | 82 | 1 | 12.6 | NO | 46 | 5 | 8.1 | NO |
| IP | MK King Street | 0 | 8 | 4.0 | YES | 53 | 36 | 2.4 | YES |
| IP | MA Market Place | 118 | 12 | 13.2 | NO | 1 | 6 | 2.7 | YES |
| IP | MB-MC Market Place | 19 | 54 | 5.8 | NO | 1 | 12 | 4.3 | YES |
| IP | MH Duke Street | 0 | 32 | 7.9 | NO | 84 | 27 | 7.7 | NO |
| IP | MM Minister Street | 23 | 10 | 3.1 | YES | 54 | 47 | 1.0 | YES |
| IP | MG Kings Road | 4 | 0 | 2.6 | YES | 67 | 38 | 4.0 | YES |
| IP | MF Kings Road | 64 | 36 | 3.9 | YES | 1 | 7 | 3.0 | YES |
| IP | CW Cheapside | 153 | 132 | 1.7 | YES | 10 | 10 | 0.1 | YES |
| IP | ME Kings Road | 85 | 69 | 1.8 | YES | 13 | 4 | 3.0 | YES |
| IP | MI Bridge Street | 1 | 6 | 3.0 | YES | 28 | 10 | 4.1 | YES |
| IP | CV Oxford Road | 4 | 0 | 2.6 | YES | 241 | 26 | 18.6 | NO |
| IP | EL Forbury Road | 63 | 32 | 4.5 | YES | 7 | 4 | 1.2 | YES |
| IP | EO Blagrave Street | 23 | 21 | 0.3 | YES | 7 | 34 | 6.0 | NO |
| IP | EH (RAIL AIR) | 23 | 22 | 0.2 | YES | 21 | 11 | 2.5 | YES |
| IP | EN Forbury Road | 8 | 37 | 6.2 | NO | 34 | 105 | 8.6 | NO |



| | | | | | | | | I | |
|----|--------------------------|-----|-----|------|-----|-----|-----|------|-----|
| IP | XX Kings Road | 6 | 9 | 1.2 | YES | 4 | 7 | 1.2 | YES |
| IP | YY Kings Road | 1 | 5 | 2.2 | YES | 3 | 2 | 0.8 | YES |
| IP | CZ Cheapside | 6 | 6 | 0.1 | YES | 0 | 2 | 1.8 | YES |
| IP | EA Station Road | 44 | 54 | 1.3 | YES | 9 | 61 | 8.8 | NO |
| IP | Station North | 16 | 9 | 2.0 | YES | 27 | 6 | 5.3 | NO |
| IP | Castle Street | 50 | 29 | 3.3 | YES | 2 | 24 | 6.0 | NO |
| IP | Station Road | 108 | 84 | 2.4 | YES | 44 | 30 | 2.3 | YES |
| IP | Tesco Wokingham | 5 | 5 | 0.0 | YES | 5 | 2 | 1.2 | YES |
| IP | Alderman Willey Close | 0 | 1 | 1.6 | YES | 0 | 1 | 1.7 | YES |
| IP | Broad Street | 39 | 6 | 7.1 | NO | 4 | 18 | 4.2 | YES |
| IP | Station Road | 33 | 2 | 7.5 | NO | 124 | 92 | 3.1 | YES |
| PM | FE Friar Street | 86 | 11 | 10.8 | NO | 0 | 15 | 5.5 | NO |
| PM | FM Friars Street | 74 | 82 | 0.9 | YES | 17 | 25 | 1.7 | YES |
| PM | FH Friar Street | 58 | 52 | 0.8 | YES | 80 | 65 | 1.8 | YES |
| PM | FF Friar Street | 0 | 0 | 0.0 | YES | 0 | 0 | 0.0 | YES |
| PM | MQ Minister Street | 20 | 2 | 5.6 | NO | 4 | 67 | 10.5 | NO |
| PM | FC Friar Street | 35 | 24 | 2.0 | YES | 22 | 28 | 1.2 | YES |
| PM | EP Blagrave Street | 43 | 53 | 1.4 | YES | 195 | 202 | 0.5 | YES |
| PM | FL Friar Street | 46 | 0 | 9.6 | NO | 36 | 20 | 3.0 | YES |
| PM | MK King Street | 0 | 20 | 6.3 | NO | 6 | 87 | 11.8 | NO |
| PM | MA Market Place | 212 | 20 | 17.8 | NO | 0 | 15 | 5.5 | NO |
| PM | MB-MC Market Place | 63 | 78 | 1.8 | YES | 5 | 12 | 2.4 | YES |
| PM | MH Duke Street | 2 | 34 | 7.6 | NO | 90 | 26 | 8.3 | NO |
| PM | MM Minister Street | 69 | 27 | 6.0 | NO | 63 | 73 | 1.2 | YES |
| PM | MG Kings Road | 14 | 0 | 5.3 | NO | 79 | 64 | 1.7 | YES |
| PM | MF Kings Road | 119 | 87 | 3.2 | YES | 0 | 9 | 4.3 | YES |
| PM | CW Cheapside | 270 | 229 | 2.6 | YES | 17 | 12 | 1.2 | YES |
| PM | ME Kings Road | 101 | 95 | 0.6 | YES | 12 | 2 | 3.7 | YES |
| PM | MI Bridge Street | 0 | 5 | 3.0 | YES | 52 | 8 | 8.1 | NO |
| PM | CV Oxford Road | 8 | 0 | 4.0 | YES | 117 | 32 | 9.9 | NO |



| PM | EL Forbury Road | 102 | 104 | 0.2 | YES | 10 | 7 | 1.2 | YES |
|----|--------------------------|-----|-----|------|-----|-----|-----|------|-----|
| РМ | EO Blagrave Street | 52 | 48 | 0.6 | YES | 3 | 84 | 12.3 | NO |
| PM | EH (RAIL AIR) | 19 | 21 | 0.5 | YES | 44 | 32 | 2.0 | YES |
| PM | EN Forbury Road | 9 | 43 | 6.7 | NO | 287 | 332 | 2.6 | YES |
| PM | XX Kings Road | 13 | 27 | 3.1 | YES | 5 | 13 | 2.7 | YES |
| PM | YY Kings Road | 4 | 8 | 1.8 | YES | 2 | 6 | 1.8 | YES |
| PM | CZ Cheapside | 6 | 23 | 4.4 | YES | 0 | 5 | 3.2 | YES |
| PM | EA Station Road | 22 | 28 | 1.1 | YES | 10 | 21 | 2.8 | YES |
| PM | Station North | 45 | 6 | 7.7 | NO | 93 | 0 | 13.5 | NO |
| PM | Castle Street | 79 | 69 | 1.2 | YES | 14 | 21 | 1.7 | YES |
| PM | Station Road | 200 | 166 | 2.5 | YES | 48 | 39 | 1.4 | YES |
| PM | Tesco Wokingham | 0 | 0 | 0.0 | YES | 0 | 0 | 0.0 | YES |
| PM | Alderman Willey Close | 0 | 0 | 0.0 | YES | 0 | 3 | 2.6 | YES |
| PM | Broad Street | 21 | 14 | 1.8 | YES | 0 | 27 | 7.4 | NO |
| PM | Station Road | 67 | 5 | 10.3 | NO | 225 | 171 | 3.8 | YES |

Updated rail stop validation results

| | Site location | То | otal passen | gers board | ding | Total passengers alighting | | | | |
|----|--------------------------|------|-------------|------------|-------|----------------------------|------|-----|-------|--|
| TP | | Obs | Mod | GEH | Pass? | Obs | Mod | GEH | Pass? | |
| AM | Martins Heron Station | 102 | 109 | 0.7 | YES | 17 | 26 | 2.0 | YES | |
| AM | Oxford | 1143 | 1208 | 1.9 | YES | 1048 | 1108 | 1.8 | YES | |
| AM | Radley | 56 | 41 | 2.2 | YES | 30 | 20 | 1.9 | YES | |
| AM | Culham | 35 | 0 | 8.4 | NO | 21 | 0 | 6.5 | NO | |
| AM | Appleford | 7 | 0 | 3.7 | YES | 5 | 0 | 3.2 | YES | |
| AM | Didcot Parkway | 1122 | 1102 | 0.6 | YES | 563 | 498 | 2.8 | YES | |
| AM | Cholsey | 64 | 71 | 0.9 | YES | 29 | 29 | 0.0 | YES | |
| AM | Goring & Streatley | 82 | 93 | 1.1 | YES | 37 | 40 | 0.5 | YES | |
| AM | Pangbourne | 151 | 131 | 1.6 | YES | 51 | 50 | 0.1 | YES | |
| AM | Tilehurst | 174 | 174 | 0.0 | YES | 68 | 78 | 1.1 | YES | |
| AM | Reading West | 32 | 40 | 1.4 | YES | 20 | 27 | 1.4 | YES | |



| AM | Reading | 5016 | 944 | 74.6 | NO | 4999 | 2607 | 38.8 | NO |
|----|---|------|-------|------|-----|------|-------|------|-----|
| AM | Mortimer | 53 | 46 | 0.9 | YES | 22 | 22 | 0.0 | YES |
| AM | Basingstoke | 2015 | Error | 0.0 | YES | 1163 | Error | 0.0 | YES |
| AM | Earley | 187 | 160 | 2.1 | YES | 90 | 71 | 2.1 | YES |
| AM | Winnersh Triangle | 163 | 136 | 2.2 | YES | 74 | 59 | 1.8 | YES |
| AM | Winnersh | 189 | 168 | 1.6 | YES | 99 | 81 | 1.9 | YES |
| AM | Wokingham | 716 | 718 | 0.1 | YES | 414 | 465 | 2.4 | YES |
| AM | Bracknell | 467 | 521 | 2.4 | YES | 455 | 505 | 2.3 | YES |
| AM | Crowthorne | 98 | 86 | 1.3 | YES | 53 | 49 | 0.6 | YES |
| AM | Sandhurst Berks | 48 | 59 | 1.5 | YES | 28 | 38 | 1.7 | YES |
| AM | Ascot Berks | 283 | 237 | 2.9 | YES | 173 | 147 | 2.1 | YES |
| AM | Egham | 526 | 463 | 2.8 | YES | 353 | 309 | 2.4 | YES |
| AM | Staines | 866 | 778 | 3.1 | YES | 445 | 428 | 0.8 | YES |
| AM | Maidenhead | 1632 | 1391 | 6.2 | NO | 897 | 776 | 4.2 | YES |
| AM | Twyford | 722 | 622 | 3.9 | YES | 269 | 290 | 1.3 | YES |
| AM | Wargrave | 14 | 16 | 0.6 | YES | 10 | 15 | 1.4 | YES |
| AM | Shiplake | 13 | 22 | 2.1 | YES | 8 | 22 | 3.6 | YES |
| AM | Henley On Thames | 86 | 94 | 0.8 | YES | 112 | 117 | 0.4 | YES |
| AM | Bramley/Hook | 306 | 329 | 1.3 | YES | 137 | 151 | 1.1 | YES |
| AM | Bagshot/Camberley /Frimley/Blackwater | 256 | 268 | 0.7 | YES | 196 | 210 | 0.9 | YES |
| AM | Farnborough/Fleet/ Winchfield | 615 | 624 | 0.4 | YES | 205 | 231 | 1.8 | YES |
| АМ | Bagshot/Camberley /Frimley/Sunningdal e | 221 | 199 | 1.5 | YES | 138 | 118 | 1.7 | YES |
| AM | Newbury/Thatcham | 488 | 518 | 1.3 | YES | 319 | 296 | 1.3 | YES |
| АМ | Virginia Water/Chertsey | 386 | 398 | 0.6 | YES | 310 | 343 | 1.8 | YES |
| IP | Martins Heron Station | 19 | 46 | 4.7 | YES | 9 | 63 | 9.0 | NO |
| IP | Oxford | 525 | 567 | 1.8 | YES | 503 | 507 | 0.2 | YES |
| IP | Radley | 9 | 2 | 2.9 | YES | 8 | 2 | 2.9 | YES |
| IP | Culham | 2 | 0 | 2.0 | YES | 2 | 0 | 2.0 | YES |



| IP | Appleford | 0 | 0 | 0.8 | YES | 0 | 0 | 0.8 | YES |
|----|---|------|-------|------|-----|------|-------|------|-----|
| IP | Didcot Parkway | 276 | 281 | 0.3 | YES | 238 | 235 | 0.2 | YES |
| IP | Cholsey | 18 | 18 | 0.0 | YES | 16 | 16 | 0.0 | YES |
| IP | Goring & Streatley | 28 | 28 | 0.1 | YES | 25 | 24 | 0.2 | YES |
| IP | Pangbourne | 26 | 27 | 0.1 | YES | 26 | 26 | 0.0 | YES |
| IP | Tilehurst | 28 | 31 | 0.4 | YES | 28 | 30 | 0.4 | YES |
| IP | Reading West | 12 | 13 | 0.3 | YES | 12 | 14 | 0.5 | YES |
| IP | Reading | 1743 | 561 | 34.8 | NO | 1705 | 604 | 32.4 | NO |
| IP | Mortimer | 11 | 11 | 0.1 | YES | 11 | 13 | 0.5 | YES |
| IP | Basingstoke | 494 | Error | 0.0 | YES | 457 | Error | 0.0 | YES |
| IP | Earley | 42 | 30 | 2.0 | YES | 38 | 30 | 1.3 | YES |
| IP | Winnersh Triangle | 31 | 22 | 1.6 | YES | 29 | 21 | 1.5 | YES |
| IP | Winnersh | 33 | 27 | 1.1 | YES | 31 | 22 | 1.7 | YES |
| IP | Wokingham | 184 | 185 | 0.1 | YES | 173 | 180 | 0.5 | YES |
| IP | Bracknell | 148 | 160 | 1.0 | YES | 131 | 145 | 1.2 | YES |
| IP | Crowthorne | 20 | 19 | 0.3 | YES | 19 | 20 | 0.3 | YES |
| IP | Sandhurst Berks | 10 | 50 | 7.3 | NO | 9 | 71 | 9.8 | NO |
| IP | Ascot Berks | 149 | 112 | 3.2 | YES | 130 | 99 | 2.9 | YES |
| IP | Egham | 162 | 152 | 0.8 | YES | 137 | 127 | 0.9 | YES |
| IP | Staines | 206 | 202 | 0.3 | YES | 188 | 188 | 0.0 | YES |
| IP | Maidenhead | 298 | 262 | 2.1 | YES | 262 | 233 | 1.9 | YES |
| IP | Twyford | 174 | 160 | 1.0 | YES | 163 | 156 | 0.5 | YES |
| IP | Wargrave | 5 | 9 | 1.8 | YES | 4 | 14 | 3.2 | YES |
| IP | Shiplake | 5 | 6 | 0.2 | YES | 5 | 7 | 0.9 | YES |
| IP | Henley On Thames | 52 | 49 | 0.4 | YES | 42 | 41 | 0.0 | YES |
| IP | Bramley/Hook | 66 | 72 | 0.7 | YES | 58 | 66 | 1.0 | YES |
| IP | Bagshot/Camberley /Frimley/Blackwater | 81 | 84 | 0.4 | YES | 75 | 78 | 0.4 | YES |
| IP | Farnborough/Fleet/ Winchfield | 120 | 133 | 1.2 | YES | 96 | 109 | 1.3 | YES |
| IP | Bagshot/Camberley /Frimley/Sunningdal e | 78 | 65 | 1.5 | YES | 62 | 55 | 0.8 | YES |



| | | | I | I | I | I | I | I | |
|----|----------------------------|------|-------|------|-----|------|-------|------|-----|
| IP | Newbury/Thatcham | 155 | 173 | 1.4 | YES | 145 | 175 | 2.4 | YES |
| IP | Virginia Water/Chertsey | 123 | 132 | 0.8 | YES | 105 | 115 | 1.0 | YES |
| PM | Martins Heron Station | 25 | 31 | 1.1 | YES | 70 | 76 | 0.8 | YES |
| PM | Oxford | 1155 | 1193 | 1.1 | YES | 999 | 1022 | 0.7 | YES |
| PM | Radley | 20 | 17 | 0.8 | YES | 36 | 24 | 2.2 | YES |
| PM | Culham | 14 | 0 | 5.3 | NO | 27 | 0 | 7.3 | NO |
| PM | Appleford | 3 | 0 | 2.4 | YES | 4 | 0 | 2.8 | YES |
| PM | Didcot Parkway | 631 | 617 | 0.6 | YES | 1131 | 1072 | 1.8 | YES |
| PM | Cholsey | 25 | 26 | 0.2 | YES | 59 | 59 | 0.0 | YES |
| PM | Goring & Streatley | 32 | 36 | 0.6 | YES | 84 | 82 | 0.2 | YES |
| PM | Pangbourne | 37 | 39 | 0.4 | YES | 97 | 86 | 1.2 | YES |
| PM | Tilehurst | 44 | 50 | 0.9 | YES | 172 | 165 | 0.5 | YES |
| PM | Reading West | 18 | 21 | 0.7 | YES | 29 | 33 | 0.8 | YES |
| PM | Reading | 5599 | 2623 | 46.4 | NO | 4446 | 826 | 70.5 | NO |
| PM | Mortimer | 19 | 17 | 0.5 | YES | 49 | 45 | 0.7 | YES |
| PM | Basingstoke | 1039 | Error | 0.0 | YES | 1496 | Error | 0.0 | YES |
| PM | Earley | 81 | 64 | 2.0 | YES | 201 | 174 | 1.9 | YES |
| PM | Winnersh Triangle | 60 | 54 | 0.9 | YES | 125 | 102 | 2.1 | YES |
| PM | Winnersh | 67 | 66 | 0.1 | YES | 129 | 115 | 1.3 | YES |
| PM | Wokingham | 330 | 353 | 1.3 | YES | 627 | 618 | 0.3 | YES |
| PM | Bracknell | 496 | 525 | 1.3 | YES | 498 | 534 | 1.6 | YES |
| PM | Crowthorne | 39 | 38 | 0.2 | YES | 111 | 101 | 0.9 | YES |
| PM | Sandhurst Berks | 20 | 27 | 1.4 | YES | 56 | 63 | 0.9 | YES |
| PM | Ascot Berks | 193 | 164 | 2.2 | YES | 297 | 257 | 2.4 | YES |
| PM | Egham | 291 | 271 | 1.2 | YES | 397 | 371 | 1.3 | YES |
| PM | Staines | 418 | 403 | 0.7 | YES | 589 | 567 | 0.9 | YES |
| PM | Maidenhead | 920 | 835 | 2.9 | YES | 1585 | 1390 | 5.0 | NO |
| РМ | Twyford | 357 | 373 | 0.8 | YES | 685 | 627 | 2.3 | YES |
| PM | Wargrave | 8 | 21 | 3.3 | YES | 23 | 17 | 1.4 | YES |
| РМ | Shiplake | 7 | 12 | 1.7 | YES | 21 | 12 | 2.1 | YES |



| PM | Henley On Thames | 93 | 93 | 0.0 | YES | 210 | 193 | 1.2 | YES |
|----|---|-----|-----|-----|-----|-----|-----|-----|-----|
| PM | Bramley/Hook | 101 | 107 | 0.6 | YES | 271 | 280 | 0.5 | YES |
| PM | Bagshot/Camberley /Frimley/Blackwater | 132 | 144 | 1.0 | YES | 214 | 219 | 0.3 | YES |
| РМ | Farnborough/Fleet/ Winchfield | 165 | 180 | 1.1 | YES | 477 | 490 | 0.6 | YES |
| PM | Bagshot/Camberley /Frimley/Sunningdal e | 102 | 90 | 1.2 | YES | 167 | 159 | 0.6 | YES |
| PM | Newbury/Thatcham | 257 | 275 | 1.1 | YES | 740 | 797 | 2.1 | YES |
| PM | Virginia Water/Chertsey | 223 | 237 | 0.9 | YES | 319 | 329 | 0.5 | YES |



Mountbatten House Basing View Basingstoke, Hampshire RG21 4HJ

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