# ABINGTON 

## CONSULTING ENGINEERS

CHARTERED CIVIL ENGINEERS

## TRANSPORT STATEMENT

BEECHES FARM<br>UPPER ICKNIELD WAY<br>TRING<br>HP23 4LA<br>\section*{PLANNING APPLICATIONS FOR:}

## CHANGE OF USE OF RESIDUAL AREA OF UNIT 1 FROM AGRICULTURAL TO OFFICE USE (USE CLASS E - RETROSPECTIVE)

CHANGE OF USE OF RESIDUAL AREA OF UNIT 2 FOR FROM AGRICULTURAL TO STORAGE (USE CLASS B8)

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## 1 INTRODUCTION

1.1 Abington Consulting has been appointed to provide advice on access, highway and transportation issues associated with proposed development at Beeches Farm, Icknield Way, Tring HP23. The site's general location is shown in Figure 1.


Figure 1 Location Plan
1.2 Planning permission is sought for:

- Change of use of residual area ( $335 \mathrm{~m}^{2}$ ), Unit 1 from agricultural to office use (use class E - retrospective).
- Change of use of residual area ( $290 \mathrm{~m}^{2}$ ), Unit 2 from agricultural to storage (use class B8)
1.3 The purpose of this Transport Statement is to set out the transport issues relating to the proposed development of the site. The site's location, in terms of its accessibility by sustainable forms of transport will be considered together with access arrangements and parking provision for the proposed development. The likely trip generation of the proposed development will be quantified and compared.
1.4 The structure of this document is as follows;
- Section 2 describes the existing conditions; the site's location and accessibility to services.
- Section 3 describes the proposed development.
- Finally, a summary and overall conclusion is provided in Section 4.


## 2 Location \& Transport Links

## Location

2.1 The application sites are contained within Beeches Farm, shown in the context of surrounding facilities and transport links in Figure 2.


Figure 2 Site Context
2.2 Beeches Farm is located approximately 1.3 km to the west of Tring's High Street and some 350 m to the east of the A41/B4009/B488 junction. Access to the site is from the B488 Icknield Way, which forms the site's southern boundary.
2.3 The overall site, owned by the applicant, is triangular is shape and is approximately 1.4 hectares in area. It consists of a complex of buildings, with two main structures (Units 1 and 2). Originally used for chick rearing, the agricultural use of the buildings ceased in 1999.
2.4 A Lawful Development Certificate was granted in September 2019 in respect to the change of use of Area B ( $375 \mathrm{~m}^{2}$ ) of Unit 1 to B8 (storage) took place more than 10 years ago. The residual area of Unit $1\left(335 \mathrm{~m}^{2}\right)$ was converted to offices, without planning permission, and the retrospective planning application seeks to regularise this use.
2.5 Whilst not implemented, the use of $500 \mathrm{~m}^{2}$ of Unit 2 was approved under Class R for flexible commercial use (19/02629/COUAF). A further Prior Approval application under Class $R$ has been submitted for the conversion of part of Unit 2 and a building to the north to a flexible commercial use (21/04040/COUAR) but remains undetermined. The residual area of Unit 2 is to be the subject of an application for change of use to B8 storage.
2.6 To the south of the site a hybrid planning application for the development of 226 dwellings, cemetery car park with toilet block and public open space (details submitted in full) and 0.75 hectares of employment space (B1a, b and c) and a cemetery extension of 1.7 hectares with all matters reserved (submitted in outline) was approved in October 2019 (LPA Ref: 4/00958/18/MFA). Construction of the residential element of the development, known as Roman Park, has commenced along with the cemetery and is well underway.


Figure 3 Roman Park Layout

## Walking

2.7 The Chartered Institution of Highways and Transportation's (CIHT) 'Planning for Walking' (2015) states that "Across Britain about 80 per cent of journeys shorter than 1 mile ( 1.6 km ) are made wholly on foot - something that has changed little in thirty years. In 2012 walkers accounted for 79 per cent of all journeys shorter than 1 mile, but beyond that distance cars are the dominant mode (DfT, annual)". It is considered that 2 km , a distance that can be walked in around 25 to 30 minutes, represents a reasonable distance to expect that walking can be a viable option. Figure 3 shows the areas within 30 -minutes' walk of the application site.


Figure 4 30-Minute Walk Catchment Area
www.targomo.com
2.8 There are no segregated footways on Icknield Way that link with the site. The nearest footway begins some 200 m to the east at the entrance to the Roman Park residential development. The footway continues east into Tring.
2.9 To the west, there are segregated footways that begin on the approach to the A41/B4009/B488 junction and these continue along Tring Hill to the north west and Aylesbury Road to the south east.
2.10 There is a public footpath (DBE/17/1) that crosses Beeches Farm, which is currently routed around the former chick rearing sheds and is unaffected by the planning applications for change of use.
2.11 This public footpath links with another on the southern side of Icknield Way (PROW71) that runs along the western boundary of the Roman Park residential development and links to Aylesbury Road to the south. PROW71 provides access to the Roman Park Development and the pedestrian routes within it. These include a footpath that runs parallel to, and just south of, Icknield Way that provides a safe route for pedestrians between the application site and the Icknield Way footway that starts at the Roman Park entrance. PROW71 also connects with PROW48a that runs in a east-west direction and links with Oakley Lane to the east.


Figure 5 Roman Park Pedestrian Link

## Cycling

2.12 The Chartered Institution of Highways and Transportation's 'Planning for Cycling' (2014) states that 'cycle use is more seasonal than for other modes, with up to twice as many cyclists in summer compared with winter. The majority of cycling trips are for short distances, with $80 \%$ being less than five miles $(8 \mathrm{~km})$ and with $40 \%$ being less than two miles $(3 \mathrm{~km})$. However, the majority of trips by all modes are also short distances ( $67 \%$ are less than five miles, and $38 \%$ are less than two miles); therefore, the bicycle is a potential mode for many of these trips (National Travel Survey, 2013, Department for Transport)'. The figure below shows the areas within a 30-minute cycle ride of the site.
2.13 Tring's town centre is an easy $2 \mathrm{~km} / 6$ minute cycle ride of the site and all parts of the town are within around 10 minutes' ride. Cycling is therefore a viable means of commuting to and from the proposed development for residents of the town.
2.14 East of the town centre an off-road cycle path runs alongside Station Road, providing a link to Tring Railway Station, which is $5 \mathrm{~km} / 15$ minutes cycle ride of Tring Railway Station and therefore accessible to rail/bike commuters.
2.15 To the west, there are segregated cycle routes (shared footways) that allow cyclists to cross over the A41 to link with the B4009 (Tring Hill).


Figure 6 30-Minute Cycle Catchment Area
Public Transport
2.16 The nearest bus stops to the site are located on Aylesbury Road ( $700 \mathrm{~m} / 10$ minute walk to the west), Tring Hill ( $700 \mathrm{~m} / 10$ minute walk to the south) and Christchurch Road ( $900 \mathrm{~m} / 11$ minutes walk to the east). These stops provide access to the same bus services. There are also stops located on Miswell Lane ( $1 \mathrm{~km} / 13$ minute walk to the west).
2.17 The distances quoted are measured (by Google Maps) along the existing highway network. However, by using PROW71 or the street layout being constructed within the Roman Park development, the walk between the site and Aylesbury Road bus stops are reduced to around a $550 \mathrm{~m} / 6$ minute walk. This is considered an acceptable distance for commuting trips. For example, a commute from the centre of Aylesbury to the application site by bus takes around 26 minutes and this includes the 6 minute walk from the Aylesbury Road bus stop to the site.
2.18 The bus services that can be accessed from the stops nearest the site are shown in the table below. The details are correct at the time of writing. We understand that the currently timetabled frequency of services is reduced, compared to normal, due to the Coronavirus pandemic.

| Bus Stop | Service | Route | Frequency Each <br> Direction |
| :--- | :--- | :--- | :--- |
| Tring Road <br> \& Aylesbury <br> Road | 50 | Aylesbury - Wendover - Tring - <br> Ivinghoe | Sunday services only |
|  | 61 | Aylesbury - Dunstable | 6 Trips per day (Mon - Fri) <br> 3 Trips per day (Sat) |
|  | 164 | Aylesbury - Dunstable | Aylesbury - Cheddington - <br> Aylesbury |
|  | 500 | Watford - Aylesbury | 4 Trips per day (Mon - Sat) |
|  | 501 | Watford - Aylesbury | Every 20 minutes during <br> peak times (Mon - Sat) |
| Christchurch <br>  <br> Miswell <br> Lane | 387 | Wigginton / Aldbury - Tring | Sunday services only |
|  | 389 | Wigginton / Aldbury - Tring | 5 Trips per day (Mon - Fri) |
|  | 397 | Wigginton / Aldbury - Tring | 5 Trips per day (Mon - Fri) |

Table 1 Local Bus Services
2.19 Tring railway station is located 5 km from the site. On weekdays it provides access to some 3 trains per hour to/from London Euston, 2 trains per hour to/from Milton Keynes and 1 train per hour to/from East Croydon.

## Highway Network

2.20 The site is located adjacent to and is accessed from Icknield Way (B488). The site access lies adjacent to a point where the highway speed limit changes between 50 mph (to the east) and national speed limits (to the west). The 50 mph speed limit has recently been extended to the application site's access as part of the works associated with the Roman Park residential development opposite, reflecting its built-up nature.
2.21 The road width is approximately 7 m with grass verges on both sides. Access to the site is located on the inside of a slow bend on Icknield Way close to the crest of a hog curve in the road. Forward visibility is good for the speed limit applied to the road. The road is otherwise rural in character and there is no street lighting in the vicinity of the site.
2.22 The existing access is located on the northern side of Icknield Way in the form of a concrete bellmouth. The width of the access is approximately 4.5 m . Visibility is approximately $2.4 \mathrm{~m} x$ 110 m to the west and approximately $2.4 \mathrm{~m} \times 130 \mathrm{~m}$ to the east.
2.23 A speed survey on Icknield Way was carried out between $19^{\text {th }}$ and $25^{\text {th }}$ February 2018 with ATCs placed at the locations shown on the drawing presented in Appendix 1. This was prior to the extension of the 40 mph speed limit and at the time national speed limits applied on both approaches to the site access. $85^{\text {th }}$ percentile speeds of 44.8 mph (eastbound) and 47.6 mph (westbound) were recorded. The speed survey results are presented in Appendix 2.

## Appendix 1 Existing Access Arrangement

Appendix 2 Icknield Way Speed Survey Data
2.24 Calculations presented at Appendix 3 show that, in accordance with the recorded $85^{\text {th }}$ percentile speeds, a visibility splay of $2.4 \mathrm{~m} \times 125.1 \mathrm{~m}$ is required to the east of the access and $2.4 \mathrm{~m} \times 104.3 \mathrm{~m}$ to the west. These have been plotted on the proposed access drawing in Appendix 1 which shows that the splays can be accommodated within the existing highway boundary.

## Appendix 3 Visibility Splay Calculations

2.25 The survey also recorded the volume of passing traffic, the results of which are summarised below.

|  | Weekday Average |  |  |
| :--- | :---: | :---: | :---: |
| Time Range | Eastbound | Westbound | Two-Way |
| 08:00-09:00 | 352 | 575 | 927 |
| 17:00-18:00 | 513 | 456 | 969 |

Table 2 Icknield Way Peak Hour Traffic Volume (2018)
2.26 The Transport Assessment that accompanied the Roman Park hybrid planning application of the site on the southern side of Icknield Way states that the development will increase the peak hour traffic flow passing Beeches Farm on Icknield Way by some 122 to 135 vehicle movements

|  | Weekday Average |  |  |
| :--- | :---: | :---: | :---: |
| Time Range | Eastbound | Westbound | Two-Way |
| 08:00-09:00 | 89 | 46 | 135 |
| 17:00-18:00 | 44 | 78 | 122 |

Table 3 Committed Development Traffic
2.27 Adding the committed development traffic to the observed traffic flow provides a baseline against which the impact of the proposed development's traffic can be compared.

|  | Weekday Average |  |  |
| :---: | :---: | :---: | :---: |
| Time Range | Eastbound | Westbound | Two-Way |
| $08: 00-09: 00$ | 441 | 621 | 1062 |
| 17:00-18:00 | 557 | 534 | 1091 |

Table 4 Icknield Way Baseline Peak Hour Traffic
2.28 Some 400 m to the west of the site there is a grade separated junction that provides access to the A41 dual carriageway. The site benefits therefore from convenient access to the strategic highway network.
2.29 A review of injury accident records for the area around the site has been undertaken for latest five-year period for which data is available (2016 - 2020 inclusive).
2.30 There are no clusters of accidents in the vicinity of the site and this suggests that there are no specific safety issues associated with this section of road. A fatal accident occurred approximately 300 m to the west of the application site at 7.55 pm on Friday November $30^{\text {th }}$ 2018. The casualty was a pedestrian who was struck by a car whilst crossing the road. It was dark at the time of the accident although there is street lighting located at this location on the approach to the Icknield Way / The Holloway / Aylesbury Road roundabout.
2.31 The accident, despite its severity, appears to be an isolated incident. There are no other accidents recorded in its vicinity and the absence of a cluster of accidents suggests that there is no intrinsic safety issue at this location. The accident occurred at 7.55 pm , a time of day when little activity would be expected from the offices proposed as part of this development.


Figure 7 Injury Accident Records 2016 - 2020
Crashmap.co.uk

## 3 Existing Traffic Generation

3.1 The two planning applications seek to secure a change of use from the existing agricultural use to office and storage, respectively.
3.2 It is difficult to quantify the volume of traffic that might be generated by the extant agricultural use.
3.3 A worst-case assessment of the proposed development traffic has therefore been adopted, where it is assumed that all of the traffic generated by the proposed office and storage use is new.

## 4 Proposed Development - Unit 1

4.1 Retrospective planning permission is sought for the change of use of residual area $\left(335 \mathrm{~m}^{2}\right)$ of Unit 1 from agricultural to office use (use class E).


Figure 8 Proposed Development - Unit 1
4.2 The trip generating potential of this land use has been estimated by reference to the TRICS trip rate database, a database of over 8,000 transport surveys of various types of development.
4.3 The following filtering criteria have been applied to arrive at a sample of database surveys from comparable sites.

- Land Use: Employment; Office
- Surveys located in mainland Britain, excluding Greater London;
- Weekday surveys;
- Town centre and edge of town centre sites excluded.
4.4 The TRICS output is provided in detail in Appendix 4 and summarised below.

Appendix 4 TRICS Trip Rate Data - Office

|  | Trip Rate per 100m |  |  |  |  |  |
| :---: | ---: | ---: | ---: | ---: | ---: | ---: |
|  | GFA | Trip Generation of 335m ${ }^{2}$ GFA |  |  |  |  |
| Time Range | Arrivals | Departures | Total | Arrivals | Departures | Total |
| 08:00-09:00 | 4.382 | 0.455 | 4.837 | 15 | 2 | 16 |
| 17:00-18:00 | 0.455 | 4.506 | 4.961 | 2 | 15 | 17 |

Table 5 Vehicle Trip Generation Estimate - Office
4.5 The TRICS data suggests that the proposed office use has the potential to generate some 16 to 17 peak hour vehicle movements. This is insignificant in the context of the 1,000 or so peak hour vehicle movements that pass along Icknield Way. Furthermore, given that the application is retrospective and that the office has already been in use for several years, any problems associated with the traffic generated by the office use would already be evident. There are no such problems and it is clear that the office's traffic generation has no detrimental impact on highway conditions. With just 11 staff working on site at present the vehicle movements are less that the TRICS data might suggest.
4.6 The Council's Parking Standards require that 1 parking space per $25 \mathrm{~m}^{2}$ be provided for class E use. This equates to 13 spaces for the $335 \mathrm{~m}^{2}$ office space, which are available within the site.

## 5 Proposed Development - Unit 2

5.1 Change of use of residual area ( $290 \mathrm{~m}^{2}$ ), Unit 2 from agricultural to storage (use class B8)


Figure 9 Proposed Development - Unit 2
5.2 The following filtering criteria have been applied to arrive at a sample of TRICS database surveys from comparable sites.

- Land Use: Employment; Commercial Warehousing;
- Surveys located in mainland Britain, excluding Greater London;
- Weekday surveys;
- Town centre and edge of town centre sites excluded.
5.3 The TRICS output is provided in detail in Appendix 5 and summarised below.

Appendix 5 TRICS Trip Rate Data - Commercial Warehouse
5.4 The TRICS data suggests that the proposed storage use will generate only 3 to 4 peak hour vehicle movements; an insignificant number.

|  | Trip Rate per 100m ${ }^{2}$ GFA |  |  | Trip Generation of 290 ${ }^{\mathbf{2}}$ GFA |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Time Range | Arrivals | Departures | Total | Arrivals | Departures | Total |
| 08:00-09:00 | 0.809 | 0.135 | 0.944 | 2 | 0 | $3^{*}$ |
| 17:00-18:00 | 0.405 | 0.854 | 1.259 | 1 | 2 | $4^{*}$ |

## Table 6 Vehicle Trip Generation Estimate - Commercial Warehouse

*Apparent arithmetic errors caused by rounding up
5.5 The Council's Parking Standards require that 1 parking space per $130 \mathrm{~m}^{2}$ be provided for class B8 use. This equates to 2 spaces for the $290 \mathrm{~m}^{2}$ floor area, which are available within the site.

## 6 Summary \& Conclusion

6.1 Planning permission is sought for:

- Change of use of residual area ( $335 \mathrm{~m}^{2}$ ), Unit 1 from agricultural to office use (use class E - retrospective).
- Change of use of residual area ( $290 \mathrm{~m}^{2}$ ), Unit 2 from agricultural to storage (use class B8)
6.2 This Transport Statement has demonstrated that:
- The site is an established employment site. The use of part of Unit $1\left(375 \mathrm{~m}^{2}\right)$ for storage (B8) was regularised by a Lawful Development Certificate in September 2019 (19/02911/ACL). Whilst not implemented, the use of $500 \mathrm{~m}^{2}$ of Unit 2 was approved under Class R for flexible commercial use (19/02629/COUAF).
- The proposed development is in an appropriate location being within walking and cycling distance to the facilities available in Tring. Access to the site is available via a network of footways and footpaths. One public footpath crosses the application site and connects to others on the southern side of Icknield Way.
- Tring Railway Station is within easy cycling distance and the site making commuting by bike/train a viable option for users of the site.
- There are regular bus services that link Tring to surrounding towns and villages. The nearest bus stop is on Aylesbury Road, a $550 \mathrm{~m} / 6$-minute walk through the Roman Park development.
- The existing access to the site provides adequate visibility to ensure its safe operation.
- The use of part of Unit 1 as offices has the potential to generate some 16 to 17 peak hour vehicle movements. This is insignificant in the context of the 1,000 or so peak hour vehicle movements that pass along Icknield Way. Not all of the 16 to 17 peak hour vehicle movements will be new as this assessment ignores the traffic generating potential of the former agricultural use. In addition, there are just 11 staff working in the offices, which generates less that 16-17 peak hour movements.
- The use of part of Unit 2 as storage space has the potential to generate only 3 to 4 peak hour vehicle movements; an insignificant number.
6.3 As such it is considered that the planning applications meet planning policy requirements in terms of being in an appropriate location that is safely accessible by a range of transport modes. The impacts of the development on the continued operation and safety of the surrounding highway network would be insignificant and it is considered that there are no highway related reasons that should prevent planning approval for the proposed development.

$4^{\text {th }}$ November 2021
Ian Brazier BEng (Hons) CEng MICE
On behalf of Abington Consulting Engineers


## Appendix 1 Existing Access Arrangement


TEevevelopment Access Visibility Sploys

## Appendix 2 Icknield Way Speed Survey Data

## Tring ATC 1, Icknield Way (Western Site)

Produced by PCC Traffic Information Consultancy Ltd.

Channel 1 - Eastbound
Vehicle Flow
Week 1

|  | $\begin{gathered} \hline 19 / 02 / 2018 \\ \text { Monday } \\ \hline \end{gathered}$ | $\begin{gathered} \text { 20/02/2018 } \\ \text { Tuesday } \\ \hline \end{gathered}$ | $21 / 02 / 2018$ <br> Wednesday | $\begin{gathered} \hline \text { 22/02/2018 } \\ \text { Thursday } \end{gathered}$ | $\begin{gathered} \hline \text { 23/02/2018 } \\ \text { Friday } \end{gathered}$ | $\begin{gathered} \hline \text { 24/02/2018 } \\ \text { Saturday } \end{gathered}$ | $\begin{gathered} \hline 25 / 02 / 2018 \\ \text { Sunday } \\ \hline \end{gathered}$ |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Hr Ending |  |  |  |  |  |  |  | 5 Day Ave | 7 Day Ave |
| 1 | 12 | 15 | 16 | 12 | 19 | 17 | 41 | 15 | 19 |
| 2 | 5 | 3 | 11 | 6 | 12 | 18 | 24 | 7 | 11 |
| 3 | 7 | 7 | 2 | 2 | 7 | 11 | 15 | 5 | 7 |
| 4 | 7 | 10 | 7 | 10 | 11 | 16 | 12 | 9 | 10 |
| 5 | 16 | 15 | 18 | 17 | 15 | 9 | 10 | 16 | 14 |
| 6 | 34 | 49 | 38 | 45 | 39 | 22 | 12 | 41 | 34 |
| 7 | 117 | 112 | 103 | 113 | 94 | 33 | 21 | 108 | 85 |
| 8 | 295 | 296 | 313 | 302 | 274 | 73 | 33 | 296 | 227 |
| 9 | 349 | 327 | 369 | 370 | 345 | 134 | 67 | 352 | 280 |
| 10 | 272 | 256 | 274 | 267 | 287 | 173 | 150 | 271 | 240 |
| 11 | 224 | 210 | 214 | 229 | 230 | 238 | 213 | 221 | 223 |
| 12 | 218 | 234 | 195 | 237 | 238 | 281 | 254 | 224 | 237 |
| 13 | 244 | 278 | 222 | 250 | 275 | 327 | 308 | 254 | 272 |
| 14 | 281 | 303 | 262 | 311 | 315 | 360 | 312 | 294 | 306 |
| 15 | 274 | 278 | 286 | 289 | 324 | 311 | 288 | 290 | 293 |
| 16 | 323 | 367 | 358 | 386 | 428 | 263 | 265 | 372 | 341 |
| 17 | 414 | 461 | 515 | 512 | 475 | 247 | 244 | 475 | 410 |
| 18 | 503 | 538 | 524 | 522 | 477 | 239 | 236 | 513 | 434 |
| 19 | 362 | 426 | 416 | 397 | 364 | 191 | 165 | 393 | 332 |
| 20 | 186 | 214 | 193 | 189 | 190 | 140 | 125 | 194 | 177 |
| 21 | 122 | 113 | 122 | 158 | 133 | 91 | 98 | 130 | 120 |
| 22 | 104 | 84 | 89 | 97 | 90 | 76 | 56 | 93 | 85 |
| 23 | 61 | 75 | 78 | 89 | 69 | 75 | 43 | 74 | 70 |
| 24 | 32 | 37 | 41 | 51 | 43 | 59 | 24 | 41 | 41 |


| $7-19$ | 3759 | 3974 | 3948 | 4072 | 4032 | 2837 | 2535 | 3957 | 3594 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| $6-22$ | 4288 | 4497 | 4455 | 4629 | 4539 | 3177 | 2835 | 4482 | 4060 |
| $6-24$ | 4381 | 4609 | 4574 | 4769 | 4651 | 3311 | 2902 | 4597 | 4171 |
| $0-24$ | 4462 | 4708 | 4666 | 4861 | 4754 | 3404 | 3016 | 4690 | 4267 |



## Tring ATC 1, Icknield Way (Western Site)

Produced by PCC Traffic Information Consultancy Ltd.

Channel 1 - Eastbound
Average Speed
Week 1

| $19 / 02 / 2018$ <br> Monday | $20 / 02 / 2018$ <br> Tuesday | $21 / 02 / 2018$ <br> Wednesday | $22 / 02 / 2018$ <br> Thursday | $23 / 02 / 2018$ <br> Friday | $24 / 02 / 2018$ <br> Saturday | $25 / 02 / 2018$ <br> Sunday |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 40.9 | 44.5 | 38.9 | 40.5 | 38.9 | 40.4 | 41.0 |
| 2 | 36.0 | 41.3 | 36.2 | 36.3 | 39.2 | 38.8 | 38.6 |
| 3 | 40.1 | 38.7 | 40.5 | 45.5 | 37.3 | 37.5 | 40.5 |
| 4 | 39.4 | 38.0 | 39.4 | 37.5 | 40.3 | 41.4 | 42.2 |
| 5 | 37.4 | 42.0 | 36.9 | 38.6 | 37.0 | 39.1 | 41.0 |
| 6 | 42.7 | 40.8 | 41.6 | 42.1 | 41.9 | 40.5 | 40.1 |
| 7 | 38.8 | 39.6 | 38.3 | 38.6 | 39.8 | 40.3 | 41.6 |
| 8 | 38.6 | 38.6 | 39.7 | 39.6 | 39.1 | 39.0 | 42.1 |
| 9 | 37.7 | 38.3 | 38.9 | 39.2 | 39.3 | 40.9 | 42.9 |
| 10 | 37.0 | 38.6 | 38.8 | 37.9 | 39.6 | 39.1 | 40.6 |
| 11 | 38.0 | 38.1 | 37.7 | 37.8 | 38.4 | 39.2 | 39.8 |
| 12 | 38.1 | 37.9 | 38.1 | 37.0 | 38.5 | 39.1 | 40.1 |
| 13 | 37.9 | 38.6 | 37.7 | 37.9 | 39.0 | 40.5 | 39.6 |
| 14 | 38.2 | 39.0 | 38.7 | 39.1 | 39.5 | 39.5 | 39.6 |
| 15 | 38.8 | 38.9 | 37.8 | 39.6 | 38.6 | 40.4 | 39.6 |
| 16 | 38.2 | 39.0 | 37.9 | 39.1 | 39.5 | 40.5 | 39.7 |
| 17 | 38.2 | 38.9 | 39.9 | 37.6 | 38.9 | 41.1 | 40.2 |
| 18 | 38.3 | 39.5 | 39.2 | 39.5 | 40.1 | 39.5 | 39.5 |
| 19 | 39.0 | 39.3 | 39.4 | 40.2 | 39.1 | 40.1 | 41.7 |
| 20 | 39.6 | 40.2 | 39.8 | 41.2 | 40.9 | 40.4 | 40.2 |
| 21 | 40.3 | 40.5 | 42.3 | 40.2 | 40.5 | 40.3 | 40.7 |
| 22 | 40.1 | 39.2 | 40.4 | 40.7 | 39.2 | 40.2 | 42.4 |
| 23 | 41.2 | 40.8 | 41.1 | 41.4 | 41.6 | 38.9 | 40.7 |
| 24 | 40.4 | 41.9 | 40.2 | 39.2 | 42.0 | 37.4 | 41.5 |


| $10-12$ | 38.1 | 38.0 | 37.9 | 37.4 | 38.4 | 39.1 | 39.9 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| $14-16$ | 38.5 | 39.0 | 37.9 | 39.3 | 39.1 | 40.5 | 39.6 |
| $0-24$ | 38.5 | 39.1 | 39.0 | 39.1 | 39.4 | 39.9 | 40.2 |

Channel 1 - Eastbound

| $19 / 02 / 2018$ <br> Monday | $20 / 02 / 2018$ <br> Tuesday | $21 / 02 / 2018$ <br> Wednesday | $22 / 02 / 2018$ <br> Thursday | $23 / 02 / 2018$ <br> Friday | $24 / 02 / 2018$ <br> Saturday | $25 / 02 / 2018$ <br> Sunday |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 48.7 | 58.6 | 54.0 | 48.7 | 43.9 | 48.7 | 48.2 |
| 2 | 43.5 | 48.3 | 43.4 | 43.9 | 43.7 | 48.9 | 48.5 |
| 3 | 48.6 | 43.3 | 43.3 | 48.8 | 43.5 | 43.5 | 48.3 |
| 4 | 53.3 | 43.8 | 53.2 | 43.0 | 53.4 | 48.1 | 48.3 |
| 5 | 43.3 | 43.8 | 38.2 | 43.5 | 43.1 | 43.8 | 48.0 |
| 6 | 48.8 | 48.6 | 48.6 | 48.9 | 48.8 | 48.4 | 48.5 |
| 7 | 43.0 | 44.0 | 48.4 | 43.4 | 48.5 | 48.5 | 48.2 |
| 8 | 43.8 | 43.9 | 43.4 | 48.7 | 43.8 | 43.5 | 48.9 |
| 9 | 43.8 | 43.2 | 43.7 | 43.5 | 43.6 | 48.2 | 48.6 |
| 10 | 43.7 | 43.7 | 43.3 | 43.5 | 43.8 | 43.3 | 48.8 |
| 11 | 43.0 | 44.0 | 43.6 | 43.5 | 43.0 | 43.1 | 43.9 |
| 12 | 43.4 | 43.2 | 43.2 | 43.4 | 43.2 | 43.6 | 48.3 |
| 13 | 43.9 | 43.5 | 43.2 | 43.4 | 48.1 | 48.2 | 48.5 |
| 14 | 43.8 | 43.1 | 43.6 | 43.3 | 48.1 | 43.9 | 43.1 |
| 15 | 43.4 | 44.0 | 43.1 | 43.1 | 43.3 | 43.1 | 43.6 |
| 16 | 44.0 | 43.7 | 43.5 | 43.2 | 43.1 | 48.4 | 43.4 |
| 17 | 43.9 | 43.0 | 43.9 | 44.0 | 43.0 | 48.3 | 49.0 |
| 18 | 43.1 | 43.6 | 43.3 | 48.1 | 48.5 | 48.9 | 43.1 |
| 19 | 48.9 | 43.1 | 43.8 | 48.4 | 48.7 | 48.8 | 48.9 |
| 20 | 43.4 | 48.1 | 48.4 | 48.4 | 48.5 | 48.3 | 43.6 |
| 21 | 48.5 | 48.8 | 53.3 | 48.5 | 43.8 | 48.7 | 48.3 |
| 22 | 48.8 | 43.3 | 48.9 | 48.2 | 48.1 | 48.3 | 53.1 |
| 23 | 48.1 | 48.0 | 53.6 | 48.5 | 48.2 | 43.1 | 43.5 |
| 24 | 48.6 | 48.3 | 48.6 | 43.3 | 48.7 | 43.0 | 48.2 |


| $10-12$ | 43.5 | 43.4 | 43.4 | 43.6 | 43.5 | 48.3 | 49.0 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| $14-16$ | 43.3 | 43.3 | 43.1 | 43.5 | 43.4 | 48.8 | 43.1 |
| $0-24$ | 43.6 | 43.9 | 43.6 | 43.2 | 43.1 | 48.3 | 48.0 |

## Tring ATC 1, Icknield Way (Western Site)

Produced by PCC Traffic Information Consultancy Ltd.

Channel 1 - Eastbound
Speed Summary
Week 1

| $19 / 02 / 2018$ <br> Monday |
| :--- |
| Speed (MPH) $20 / 02 / 2018$ <br> Tuesday $21 / 02 / 2018$ <br> Wednesday $22 / 02 / 2018$ <br> Thursday $23 / 02 / 2018$ <br> Friday $24 / 02 / 2018$ <br> Saturday $25 / 02 / 2018$ <br> Sunday  <br> $0-25$ 50 37 30 48 33 37 19 <br> $26-40$ 2961 2982 2920 3010 2855 1915 1664 <br> $41-55$ 1426 1653 1688 1766 1814 1404 1290 <br> $56-$ 25 36 28 37 52 48 43 |
| TOTAL        4462 4708 4666 4861 4754 3404 3016 |

## Speed Summary (MPH)



19/02/2018 20/02/2018 21/02/2018 22/02/2018 23/02/2018 24/02/2018 25/02/2018

## Date

| $\square 0-25$ |  |
| :--- | :--- | :--- | :--- |
| $\square 26-40$ | $\square 41-55$ |
| $\square 56-$ |  |

## Tring ATC 1, Icknield Way (Western Site)

Produced by PCC Traffic Information Consultancy Ltd.

Channel 1 - Eastbound
Vehicle Class
Week 1

| Day / Time Classes | Car / LGV / Caravan-1 | $\begin{gathered} \hline \text { OGV1 / Bus } \\ -2,3,5,6,7,12 \end{gathered}$ | $\begin{gathered} \text { OGV2 } \\ -4,8,9,10,11,13 \end{gathered}$ | $\begin{gathered} \hline \text { TOTAL } \\ -1-13 \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: |
| 19/02/2018 | - | र- | ( | 又 |
| 7-19 | 3315 | 401 | 43 | 3759 |
| 6-22 | 3805 | 437 | 46 | 4288 |
| 6-24 | 3896 | 439 | 46 | 4381 |
| 0-24 | 3967 | 448 | 47 | 4462 |
| 20/02/2018 |  | - | (1) | - |
| 7-19 | 3513 | 416 | 45 | 3974 |
| 6-22 | 4005 | 445 | 47 | 4497 |
| 6-24 | 4116 | 446 | 47 | 4609 |
| 0-24 | 4210 | 451 | 47 | 4708 |
| 21/02/2018 | - |  | - |  |
| 7-19 | 3515 | 393 | 40 | 3948 |
| 6-22 | 3999 | 414 | 42 | 4455 |
| 6-24 | 4117 | 415 | 42 | 4574 |
| 0-24 | 4203 | 421 | 42 | 4666 |
| 22/02/2018 |  | - | - | - |
| 7-19 | 3595 | 438 | 39 | 4072 |
| 6-22 | 4123 | 461 | 45 | 4629 |
| 6-24 | 4260 | 464 | 45 | 4769 |
| 0-24 | 4340 | 475 | 46 | 4861 |
| 23/02/2018 | -пр |  |  |  |
| 7-19 | 3582 | 401 | 49 | 4032 |
| 6-22 | 4045 | 440 | 54 | 4539 |
| 6-24 | 4154 | 443 | 54 | 4651 |
| 0-24 | 4246 | 452 | 56 | 4754 |
| 24/02/2018 |  | V |  | - |
| 7-19 | 2636 | 192 | 9 | 2837 |
| 6-22 | 2957 | 211 | 9 | 3177 |
| 6-24 | 3084 | 218 | 9 | 3311 |
| 0-24 | 3168 | 227 | 9 | 3404 |
| 25/02/2018 |  |  | - | - |
| 7-19 | 2427 | 102 | 6 | 2535 |
| 6-22 | 2713 | 114 | 8 | 2835 |
| 6-24 | 2778 | 116 | 8 | 2902 |
| 0-24 | 2888 | 120 | 8 | 3016 |


| Average |  | V |  | - |
| :---: | :---: | :---: | :---: | :---: |
| 7-19 | 3226 | 335 | 33 | 3594 |
| 6-22 | 3664 | 360 | 36 | 4060 |
| 6-24 | 3772 | 363 | 36 | 4171 |
| 0-24 | 3860 | 371 | 36 | 4267 |

Total Vehicle Class Distribution


## Tring ATC 1, Icknield Way (Western Site)

Produced by PCC Traffic Information Consultancy Ltd.

Channel 2 - Westbound
Vehicle Flow
Week 1


| $7-19$ | 4361 | 4433 | 4449 | 4433 | 4249 | 3131 | 2733 | 4385 | 3970 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| $6-22$ | 4954 | 5043 | 5053 | 5061 | 4771 | 3478 | 3020 | 4976 | 4483 |
| $6-24$ | 5017 | 5128 | 5130 | 5138 | 4858 | 3567 | 3100 | 5054 | 4563 |
| $0-24$ | 5140 | 5252 | 5247 | 5264 | 4981 | 3645 | 3199 | 5177 | 4675 |



## Tring ATC 1, Icknield Way (Western Site)

Produced by PCC Traffic Information Consultancy Ltd.

Channel 2 - Westbound
Average Speed
Week 1

| $19 / 02 / 2018$ <br> Monday | $20 / 02 / 2018$ <br> Tuesday | $21 / 02 / 2018$ <br> Wednesday | $22 / 02 / 2018$ <br> Thursday | $23 / 02 / 2018$ <br> Friday | $24 / 02 / 2018$ <br> Saturday | $25 / 02 / 2018$ <br> Sunday |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 40.5 | 38.0 | 43.0 | 37.2 | 37.7 | 38.3 | 37.7 |
| 2 | 36.3 | 33.0 | 38.6 | 38.7 | 38.0 | 34.2 | 40.1 |
| 3 | 38.7 | 37.5 | 42.0 | 43.8 | 46.0 | 43.0 | 40.7 |
| 4 | 44.7 | 39.7 | 39.7 | 39.4 | 41.3 | 44.4 | 42.8 |
| 5 | 38.4 | 39.2 | 39.6 | 41.0 | 40.1 | 42.6 | 40.1 |
| 6 | 38.4 | 41.0 | 40.2 | 42.0 | 39.5 | 43.2 | 42.1 |
| 7 | 37.0 | 36.9 | 38.7 | 37.7 | 38.4 | 40.7 | 42.1 |
| 8 | 33.8 | 33.5 | 36.0 | 35.2 | 36.2 | 40.9 | 41.7 |
| 9 | 30.9 | 28.7 | 34.8 | 35.9 | 36.9 | 41.0 | 41.3 |
| 10 | 35.9 | 36.9 | 37.5 | 37.0 | 39.0 | 39.1 | 41.0 |
| 11 | 38.1 | 37.8 | 36.6 | 37.7 | 37.4 | 39.2 | 40.6 |
| 12 | 37.4 | 38.0 | 37.0 | 37.4 | 38.4 | 39.6 | 39.6 |
| 13 | 37.4 | 38.0 | 38.2 | 38.4 | 38.4 | 39.6 | 39.7 |
| 14 | 36.6 | 38.1 | 37.3 | 38.1 | 38.6 | 39.6 | 39.5 |
| 15 | 37.6 | 37.7 | 37.4 | 38.8 | 37.6 | 39.3 | 39.1 |
| 16 | 37.1 | 38.7 | 38.4 | 37.3 | 37.9 | 39.3 | 38.9 |
| 17 | 37.6 | 38.4 | 37.5 | 36.0 | 38.4 | 38.8 | 38.2 |
| 18 | 36.1 | 36.2 | 36.4 | 36.1 | 38.7 | 38.7 | 37.9 |
| 19 | 35.9 | 36.2 | 36.9 | 36.8 | 37.0 | 37.6 | 37.8 |
| 20 | 36.3 | 37.0 | 37.5 | 37.8 | 38.7 | 37.1 | 38.3 |
| 21 | 37.8 | 38.2 | 39.7 | 39.5 | 39.0 | 39.9 | 38.9 |
| 22 | 41.5 | 36.8 | 38.5 | 38.5 | 38.4 | 37.3 | 39.1 |
| 23 | 37.2 | 37.3 | 37.4 | 39.4 | 38.8 | 36.0 | 38.8 |
| 24 | 37.3 | 38.5 | 37.3 | 38.8 | 39.5 | 37.8 | 38.0 |


| $10-12$ | 37.8 | 37.9 | 36.8 | 37.5 | 37.9 | 39.4 | 40.1 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| $14-16$ | 37.3 | 38.2 | 37.9 | 38.0 | 37.7 | 39.3 | 39.0 |
| $0-24$ | 35.9 | 35.9 | 37.0 | 37.1 | 37.9 | 39.2 | 39.4 |

Channel 2 - Westbound
85th Percentile

| Hr Ending | $\begin{gathered} \hline \text { 19/02/2018 } \\ \text { Monday } \end{gathered}$ | $\begin{gathered} \hline \text { 20/02/2018 } \\ \text { Tuesday } \end{gathered}$ | $21 / 02 / 2018$ <br> Wednesday | $\begin{gathered} \hline \text { 22/02/2018 } \\ \text { Thursday } \end{gathered}$ | $\begin{gathered} \hline \text { 23/02/2018 } \\ \text { Friday } \\ \hline \end{gathered}$ | $\begin{gathered} \hline \text { 24/02/2018 } \\ \text { Saturday } \end{gathered}$ | $\begin{gathered} \hline \text { 25/02/2018 } \\ \text { Sunday } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 48.3 | 48.3 | 43.7 | 43.6 | 43.2 | 48.6 | 43.8 |
| 2 | 43.5 | 38.3 | 43.5 | 53.3 | 48.2 | 38.8 | 48.3 |
| 3 | 48.9 | 43.2 | 53.6 | 58.1 | 58.3 | 48.5 | 43.7 |
| 4 | 48.5 | 53.5 | 48.2 | 48.2 | 53.8 | 53.2 | 48.4 |
| 5 | 48.4 | 43.2 | 48.5 | 48.1 | 48.1 | 53.9 | 43.8 |
| 6 | 43.8 | 48.6 | 48.7 | 48.4 | 43.5 | 43.4 | 48.7 |
| 7 | 43.8 | 43.4 | 43.8 | 44.0 | 43.8 | 48.3 | 48.4 |
| 8 | 43.7 | 43.9 | 43.4 | 43.5 | 43.8 | 48.8 | 48.1 |
| 9 | 38.7 | 38.5 | 43.9 | 43.5 | 43.3 | 48.2 | 48.4 |
| 10 | 44.0 | 43.2 | 43.7 | 44.0 | 44.0 | 43.4 | 48.3 |
| 11 | 43.3 | 43.7 | 43.1 | 43.2 | 43.8 | 43.2 | 43.7 |
| 12 | 43.5 | 43.7 | 43.6 | 43.4 | 43.7 | 43.9 | 43.3 |
| 13 | 43.4 | 43.6 | 43.7 | 43.4 | 43.9 | 43.6 | 43.8 |
| 14 | 43.7 | 43.8 | 43.0 | 43.3 | 43.9 | 43.4 | 43.2 |
| 15 | 43.2 | 43.2 | 43.4 | 43.5 | 43.4 | 43.4 | 43.6 |
| 16 | 43.4 | 43.8 | 43.4 | 43.1 | 43.1 | 43.9 | 44.0 |
| 17 | 43.5 | 43.2 | 43.3 | 43.5 | 44.0 | 43.6 | 43.2 |
| 18 | 38.8 | 44.0 | 44.0 | 44.0 | 43.8 | 43.9 | 43.9 |
| 19 | 43.5 | 43.1 | 43.8 | 43.6 | 43.7 | 43.5 | 43.1 |
| 20 | 43.4 | 43.1 | 43.7 | 43.9 | 43.4 | 43.3 | 44.0 |
| 21 | 43.5 | 43.8 | 43.4 | 43.7 | 43.0 | 48.9 | 43.6 |
| 22 | 48.2 | 43.4 | 48.7 | 43.4 | 43.2 | 43.3 | 48.6 |
| 23 | 43.6 | 43.5 | 48.3 | 43.7 | 43.2 | 43.3 | 43.9 |
| 24 | 43.5 | 48.1 | 38.4 | 43.1 | 43.5 | 43.2 | 43.6 |
|  |  |  |  |  |  |  |  |
| 10-12 | 43.7 | 43.1 | 43.4 | 43.8 | 43.4 | 43.3 | 43.2 |
| 14-16 | 43.9 | 43.2 | 43.9 | 43.7 | 43.1 | 43.0 | 43.9 |
| 0-24 | 43.4 | 43.0 | 43.1 | 43.5 | 43.3 | 43.7 | 43.1 |

## Tring ATC 1, Icknield Way (Western Site)

Produced by PCC Traffic Information Consultancy Ltd.

Channel 2 - Westbound
Speed Summary
Week 1


Speed Summary (MPH)


Date
$\square$

## Tring ATC 1, Icknield Way (Western Site)

Produced by PCC Traffic Information Consultancy Ltd.

Channel 2 - Westbound
Vehicle Class
Week 1

| Day / Time Classes | Car / LGV / Caravan-1 | $\begin{gathered} \hline \text { OGV1 / Bus } \\ -2,3,5,6,7,12 \end{gathered}$ | $\begin{gathered} \text { OGV2 } \\ -4,8,9,10,11,13 \end{gathered}$ | $\begin{gathered} \hline \text { TOTAL } \\ -1-13 \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: |
| 19/02/2018 | - | र- | ( | - |
| 7-19 | 3881 | 431 | 49 | 4361 |
| 6-22 | 4414 | 483 | 57 | 4954 |
| 6-24 | 4472 | 487 | 58 | 5017 |
| 0-24 | 4571 | 498 | 71 | 5140 |
| 20/02/2018 | -20 $\quad$ ¢ | - | (1) | - |
| 7-19 | 3930 | 442 | 61 | 4433 |
| 6-22 | 4474 | 500 | 69 | 5043 |
| 6-24 | 4555 | 503 | 70 | 5128 |
| 0-24 | 4658 | 518 | 76 | 5252 |
| 21/02/2018 | - |  |  | - |
| 7-19 | 3922 | 468 | 59 | 4449 |
| 6-22 | 4476 | 511 | 66 | 5053 |
| 6-24 | 4552 | 512 | 66 | 5130 |
| 0-24 | 4648 | 527 | 72 | 5247 |
| 22/02/2018 |  | - | - | - |
| 7-19 | 3968 | 423 | 42 | 4433 |
| 6-22 | 4530 | 476 | 55 | 5061 |
| 6-24 | 4605 | 478 | 55 | 5138 |
| 0-24 | 4708 | 496 | 60 | 5264 |
| 23/02/2018 |  | , |  |  |
| 7-19 | 3808 | 397 | 44 | 4249 |
| 6-22 | 4273 | 442 | 56 | 4771 |
| 6-24 | 4356 | 445 | 57 | 4858 |
| 0-24 | 4457 | 461 | 63 | 4981 |
| 24/02/2018 |  | V |  | - |
| 7-19 | 2971 | 151 | 9 | 3131 |
| 6-22 | 3295 | 167 | 16 | 3478 |
| 6-24 | 3380 | 170 | 17 | 3567 |
| 0-24 | 3454 | 172 | 19 | 3645 |
| 25/02/2018 |  | 又оррроро | - | - |
| 7-19 | 2636 | 92 | 5 | 2733 |
| 6-22 | 2909 | 104 | 7 | 3020 |
| 6-24 | 2985 | 107 | 8 | 3100 |
| 0-24 | 3077 | 113 | 9 | 3199 |


| Average | VMIM | VIM | Vопопо新 |  |
| :---: | :---: | :---: | :---: | :---: |
| 7-19 | 3588 | 343 | 38 | 3970 |
| 6-22 | 4053 | 383 | 47 | 4483 |
| 6-24 | 4129 | 386 | 47 | 4563 |
| 0-24 | 4225 | 398 | 53 | 4675 |

Total Vehicle Class Distribution


## Tring ATC 2, Icknield Way (Eastern Site)

Produced by PCC Traffic Information Consultancy Ltd.

Channel 1 - Eastbound
Vehicle Flow
Week 1

| Hr Ending | 19/02/2018 | 20/02/2018 | 21/02/2018 | 22/02/2018 | 23/02/2018 | 24/02/2018 | $\begin{gathered} \hline \text { 25/02/2018 } \\ \text { Sunday } \end{gathered}$ |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Hr Ending | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday | Sunday | 5 Day Ave | $\frac{7 \text { Day Ave }}{19}$ |
| 2 | 5 | 3 | 11 | 7 | 12 | 19 | 21 | 8 | 11 |
| 3 | 7 | 7 | 2 | 2 | 7 | 11 | 15 | 5 | 7 |
| 4 | 7 | 10 | 6 | 10 | 11 | 16 | 12 | 9 | 10 |
| 5 | 14 | 13 | 20 | 16 | 15 | 9 | 10 | 16 | 14 |
| 6 | 34 | 46 | 36 | 46 | 38 | 22 | 12 | 40 | 33 |
| 7 | 117 | 110 | 100 | 109 | 92 | 33 | 21 | 106 | 83 |
| 8 | 276 | 308 | 301 | 294 | 268 | 71 | 33 | 289 | 222 |
| 9 | 357 | 353 | 378 | 372 | 348 | 134 | 67 | 362 | 287 |
| 10 | 266 | 236 | 292 | 273 | 281 | 168 | 147 | 270 | 238 |
| 11 | 215 | 207 | 218 | 214 | 229 | 241 | 218 | 217 | 220 |
| 12 | 229 | 228 | 191 | 230 | 238 | 284 | 249 | 223 | 236 |
| 13 | 234 | 273 | 219 | 249 | 283 | 321 | 308 | 252 | 270 |
| 14 | 279 | 293 | 262 | 321 | 314 | 353 | 308 | 294 | 304 |
| 15 | 273 | 277 | 280 | 288 | 319 | 307 | 282 | 287 | 289 |
| 16 | 327 | 367 | 361 | 379 | 419 | 261 | 264 | 371 | 340 |
| 17 | 414 | 461 | 500 | 526 | 463 | 250 | 244 | 473 | 408 |
| 18 | 508 | 553 | 527 | 510 | 485 | 240 | 242 | 517 | 438 |
| 19 | 377 | 429 | 410 | 390 | 367 | 192 | 163 | 395 | 333 |
| 20 | 188 | 216 | 198 | 199 | 194 | 145 | 127 | 199 | 181 |
| 21 | 126 | 110 | 121 | 163 | 134 | 90 | 98 | 131 | 120 |
| 22 | 103 | 85 | 90 | 97 | 93 | 78 | 57 | 94 | 86 |
| 23 | 62 | 73 | 78 | 91 | 70 | 77 | 43 | 75 | 71 |
| 24 | 32 | 37 | 42 | 52 | 44 | 60 | 25 | 41 | 42 |


| $7-19$ | 3755 | 3985 | 3939 | 4046 | 4014 | 2822 | 2525 | 3948 | 3584 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| $6-22$ | 4289 | 4506 | 4448 | 4614 | 4527 | 3168 | 2828 | 4477 | 4054 |
| $6-24$ | 4383 | 4616 | 4568 | 4757 | 4641 | 3305 | 2896 | 4593 | 4167 |
| $0-24$ | 4461 | 4709 | 4660 | 4851 | 4742 | 3400 | 3007 | 4685 | 4261 |



## Tring ATC 2, Icknield Way (Eastern Site)

Produced by PCC Traffic Information Consultancy Ltd.

Channel 1 - Eastbound
Average Speed Week 1

| $19 / 02 / 2018$ <br> Monday | $20 / 02 / 2018$ <br> Tuesday | $21 / 02 / 2018$ <br> Wednesday | $22 / 02 / 2018$ <br> Thursday | $23 / 02 / 2018$ <br> Friday | $24 / 02 / 2018$ <br> Saturday | $25 / 02 / 2018$ <br> Sunday |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 47.3 | 43.7 | 42.9 | 46.1 | 44.2 | 46.2 | 44.4 |
| 2 | 38.0 | 48.8 | 38.9 | 43.0 | 43.2 | 44.7 | 44.7 |
| 3 | 42.3 | 41.6 | 53.0 | 48.0 | 40.1 | 44.8 | 44.0 |
| 4 | 46.9 | 41.5 | 44.7 | 44.2 | 44.6 | 47.2 | 46.8 |
| 5 | 42.6 | 42.6 | 43.2 | 44.6 | 41.7 | 43.0 | 42.5 |
| 6 | 45.9 | 44.1 | 47.1 | 47.7 | 45.3 | 44.9 | 45.9 |
| 7 | 42.8 | 42.9 | 42.9 | 42.9 | 44.2 | 44.4 | 45.6 |
| 8 | 40.7 | 41.3 | 42.1 | 42.2 | 41.5 | 43.1 | 44.7 |
| 9 | 40.5 | 40.7 | 41.3 | 41.1 | 41.4 | 44.6 | 44.8 |
| 10 | 40.0 | 40.4 | 41.2 | 40.9 | 41.5 | 42.4 | 44.1 |
| 11 | 41.0 | 40.0 | 39.8 | 40.9 | 40.8 | 42.7 | 42.9 |
| 12 | 40.8 | 40.6 | 40.8 | 40.0 | 41.2 | 41.8 | 43.2 |
| 13 | 40.5 | 41.5 | 40.4 | 39.9 | 41.5 | 43.5 | 42.1 |
| 14 | 39.4 | 41.0 | 40.7 | 41.0 | 40.9 | 42.4 | 42.7 |
| 15 | 41.6 | 39.7 | 39.8 | 41.3 | 41.0 | 42.8 | 41.9 |
| 16 | 40.6 | 40.5 | 40.8 | 41.7 | 41.3 | 42.3 | 42.9 |
| 17 | 40.1 | 40.8 | 41.7 | 39.8 | 40.4 | 42.7 | 42.8 |
| 18 | 40.0 | 40.3 | 41.5 | 41.7 | 41.7 | 42.1 | 42.4 |
| 19 | 40.6 | 41.3 | 41.9 | 42.4 | 41.6 | 42.9 | 44.5 |
| 20 | 41.5 | 42.4 | 42.6 | 43.2 | 44.1 | 44.5 | 43.8 |
| 21 | 43.2 | 42.6 | 45.9 | 43.8 | 44.2 | 44.6 | 44.4 |
| 22 | 43.3 | 42.2 | 44.6 | 43.7 | 42.1 | 42.3 | 47.0 |
| 23 | 43.8 | 43.3 | 45.3 | 43.8 | 45.4 | 42.6 | 44.7 |
| 24 | 43.8 | 45.2 | 44.7 | 42.9 | 45.4 | 41.2 | 45.8 |


| $10-12$ | 40.9 | 40.3 | 40.3 | 40.5 | 41.0 | 42.2 | 43.1 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| $14-16$ | 41.1 | 40.2 | 40.3 | 41.5 | 41.2 | 42.6 | 42.4 |
| $0-24$ | 40.8 | 41.0 | 41.6 | 41.5 | 41.7 | 42.9 | 43.2 |

Channel 1 - Eastbound
85th Percentile

| Hr Ending | 19/02/2018 <br> Monday | 20/02/2018 <br> Tuesday | 21/02/2018 <br> Wednesday | 22/02/2018 <br> Thursday | $\begin{gathered} \hline \text { 23/02/2018 } \\ \text { Friday } \end{gathered}$ | 24/02/2018 <br> Saturday | $\begin{aligned} & \hline \text { 25/02/2018 } \\ & \text { Sunday } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 53.7 | 53.6 | 54.0 | 58.7 | 53.9 | 53.7 | 53.2 |
| 2 | 48.5 | 65.8 | 48.4 | 48.9 | 53.7 | 66.4 | 53.5 |
| 3 | 53.6 | 43.3 | 53.3 | 53.8 | 43.5 | 53.5 | 53.3 |
| 4 | 65.8 | 43.8 | 48.2 | 53.0 | 53.4 | 53.1 | 58.3 |
| 5 | 53.3 | 48.8 | 43.3 | 53.5 | 43.1 | 48.8 | 53.0 |
| 6 | 53.8 | 53.6 | 53.6 | 53.9 | 53.8 | 53.4 | 53.5 |
| 7 | 48.0 | 49.0 | 48.4 | 48.4 | 48.5 | 53.5 | 58.2 |
| 8 | 48.8 | 48.9 | 48.4 | 48.7 | 48.8 | 53.5 | 53.9 |
| 9 | 43.8 | 48.2 | 48.7 | 48.5 | 48.6 | 53.2 | 53.6 |
| 10 | 43.7 | 48.7 | 48.3 | 48.5 | 48.8 | 48.3 | 48.8 |
| 11 | 48.0 | 44.0 | 48.6 | 48.5 | 48.0 | 48.1 | 48.9 |
| 12 | 48.4 | 43.2 | 48.2 | 48.4 | 48.2 | 48.6 | 48.3 |
| 13 | 48.9 | 48.5 | 48.2 | 43.4 | 48.1 | 48.2 | 48.5 |
| 14 | 48.8 | 48.1 | 48.6 | 48.3 | 48.1 | 48.9 | 48.1 |
| 15 | 48.4 | 49.0 | 48.1 | 48.1 | 48.3 | 48.1 | 48.6 |
| 16 | 49.0 | 48.7 | 48.5 | 48.2 | 48.1 | 48.4 | 48.4 |
| 17 | 48.9 | 48.0 | 48.9 | 49.0 | 48.0 | 48.3 | 49.0 |
| 18 | 48.1 | 43.6 | 48.3 | 48.1 | 48.5 | 48.9 | 48.1 |
| 19 | 48.9 | 48.1 | 48.8 | 48.4 | 48.7 | 48.8 | 53.9 |
| 20 | 48.4 | 48.1 | 48.4 | 48.4 | 48.5 | 53.3 | 48.6 |
| 21 | 48.5 | 48.8 | 53.3 | 48.5 | 48.8 | 53.7 | 53.3 |
| 22 | 48.8 | 48.3 | 53.9 | 53.2 | 48.1 | 48.3 | 58.1 |
| 23 | 53.1 | 53.0 | 53.6 | 53.5 | 53.2 | 48.1 | 53.5 |
| 24 | 48.6 | 53.3 | 53.6 | 48.3 | 53.7 | 48.0 | 53.2 |
|  |  |  |  |  |  |  |  |
| 10-12 | 48.5 | 43.4 | 48.4 | 48.6 | 48.5 | 48.3 | 49.0 |
| 14-16 | 48.3 | 48.3 | 48.1 | 48.5 | 48.4 | 48.8 | 48.1 |
| 0-24 | 48.6 | 48.9 | 48.6 | 48.2 | 48.1 | 48.3 | 48.0 |

## Tring ATC 2, Icknield Way (Eastern Site)

Produced by PCC Traffic Information Consultancy Ltd.

Channel 1 - Eastbound
Speed Summary
Week 1

| Speed (MP | $\begin{gathered} \hline \text { 19/02/2018 } \\ \text { Monday } \end{gathered}$ | $\begin{gathered} \hline \text { 20/02/2018 } \\ \text { Tuesday } \\ \hline \end{gathered}$ | 21/02/2018 <br> Wednesday | $\begin{gathered} \hline \text { 22/02/2018 } \\ \text { Thursday } \\ \hline \end{gathered}$ | $\begin{gathered} \hline \text { 23/02/2018 } \\ \text { Friday } \\ \hline \end{gathered}$ | $\begin{gathered} \hline \text { 24/02/2018 } \\ \text { Saturday } \end{gathered}$ | $\begin{gathered} \hline \text { 25/02/2018 } \\ \text { Sunday } \\ \hline \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0-25 | 30 | 35 | 19 | 33 | 19 | 14 | 19 |
| 26-40 | 2179 | 2212 | 2066 | 2165 | 2068 | 1214 | 958 |
| 41-55 | 2205 | 2402 | 2488 | 2563 | 2566 | 2068 | 1941 |
| 56- | 47 | 60 | 87 | 90 | 89 | 104 | 89 |
|         <br> TOTAL 4461 4709 4660 4851 4742 3400 3007 |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |

## Speed Summary (MPH)



19/02/2018 20/02/2018 21/02/2018 22/02/2018 23/02/2018 24/02/2018 25/02/2018

## Date

| $\square 0-25$ |  |
| :--- | :--- | :--- | :--- |
| $\square 26-40$ | $\square 41-55$ |
| $\square 56-$ |  |

## Tring ATC 2, Icknield Way (Eastern Site)

Produced by PCC Traffic Information Consultancy Ltd.

Channel 1 - Eastbound
Vehicle Class
Week 1

| Day / Time Classes | Car / LGV / <br> Caravan-1 | $\begin{gathered} \hline \text { OGV1 / Bus } \\ -2,3,5,6,7,12 \end{gathered}$ | $\begin{gathered} \text { OGV2 } \\ -4,8,9,10,11,13 \end{gathered}$ | $\begin{gathered} \hline \text { TOTAL } \\ -1-13 \\ \hline \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: |
| 19/02/2018 | - | - | - |  |
| 7-19 | 3277 | 418 | 60 | 3755 |
| 6-22 | 3773 | 452 | 64 | 4289 |
| 6-24 | 3865 | 454 | 64 | 4383 |
| 0-24 | 3933 | 463 | 65 | 4461 |
| 20/02/2018 | - ${ }^{\text {cix }}$ | - | - | - 10000 |
| 7-19 | 3522 | 404 | 59 | 3985 |
| 6-22 | 4010 | 433 | 63 | 4506 |
| 6-24 | 4119 | 434 | 63 | 4616 |
| 0-24 | 4202 | 443 | 64 | 4709 |
| 21/02/2018 | - | - | - | хоророит |
| 7-19 | 3459 | 423 | 57 | 3939 |
| 6-22 | 3943 | 443 | 62 | 4448 |
| 6-24 | 4062 | 444 | 62 | 4568 |
| 0-24 | 4145 | 452 | 63 | 4660 |
| 22/02/2018 |  | - | Nomom | - |
| 7-19 | 3554 | 434 | 58 | 4046 |
| 6-22 | 4093 | 455 | 66 | 4614 |
| 6-24 | 4233 | 458 | 66 | 4757 |
| 0-24 | 4314 | 470 | 67 | 4851 |
| 23/02/2018 |  |  | vom | ( |
| 7-19 | 3543 | 400 | 71 | 4014 |
| 6-22 | 4015 | 436 | 76 | 4527 |
| 6-24 | 4125 | 439 | 77 | 4641 |
| 0-24 | 4214 | 449 | 79 | 4742 |
| 24/02/2018 |  | - | - | - |
| 7-19 | 2642 | 166 | 14 | 2822 |
| 6-22 | 2973 | 181 | 14 | 3168 |
| 6-24 | 3103 | 188 | 14 | 3305 |
| 0-24 | 3191 | 195 | 14 | 3400 |
| 25/02/2018 | (10) | (10) |  | - |
| 7-19 | 2429 | 91 | 5 | 2525 |
| 6-22 | 2720 | 102 | 6 | 2828 |
| 6-24 | 2786 | 104 | 6 | 2896 |
| 0-24 | 2892 | 108 | 7 | 3007 |


| Average | V- | - |  |  |
| :---: | :---: | :---: | :---: | :---: |
| 7-19 | 3204 | 334 | 46 | 3584 |
| 6-22 | 3647 | 357 | 50 | 4054 |
| 6-24 | 3756 | 360 | 50 | 4167 |
| 0-24 | 3842 | 369 | 51 | 4261 |

Total Vehicle Class Distribution


## Tring ATC 2, Icknield Way (Eastern Site)

Produced by PCC Traffic Information Consultancy Ltd.

Channel 2 - Westbound
Vehicle Flow
Week 1


| $7-19$ | 4364 | 4427 | 4467 | 4446 | 4241 | 3141 | 2732 | 4389 | 3974 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| $6-22$ | 4954 | 5034 | 5062 | 5061 | 4770 | 3483 | 3014 | 4976 | 4483 |
| $6-24$ | 5017 | 5120 | 5141 | 5137 | 4855 | 3572 | 3093 | 5054 | 4562 |
| $0-24$ | 5141 | 5248 | 5258 | 5261 | 4980 | 3650 | 3193 | 5178 | 4676 |



## Tring ATC 2, Icknield Way (Eastern Site)

Produced by PCC Traffic Information Consultancy Ltd.

Channel 2 - Westbound
Average Speed Week 1

| $19 / 02 / 2018$ <br> Monday | $20 / 02 / 2018$ <br> Tuesday | $21 / 02 / 2018$ <br> Wednesday | $22 / 02 / 2018$ <br> Thursday | $23 / 02 / 2018$ <br> Friday | $24 / 02 / 2018$ <br> Saturday | $25 / 02 / 2018$ <br> Sunday |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 46.7 | 42.8 | 47.2 | 41.8 | 42.7 | 45.2 | 41.1 |
| 2 | 43.0 | 33.0 | 42.4 | 47.6 | 43.7 | 41.3 | 44.2 |
| 3 | 47.6 | 40.3 | 48.2 | 45.5 | 48.0 | 43.7 | 44.3 |
| 4 | 49.7 | 47.2 | 45.5 | 43.0 | 45.2 | 48.9 | 48.2 |
| 5 | 43.4 | 43.4 | 46.7 | 46.4 | 46.6 | 48.5 | 43.4 |
| 6 | 43.5 | 45.2 | 44.1 | 46.5 | 44.7 | 49.4 | 45.5 |
| 7 | 41.9 | 41.8 | 43.9 | 42.3 | 43.5 | 44.5 | 44.9 |
| 8 | 39.8 | 40.0 | 40.7 | 40.5 | 40.4 | 44.2 | 44.4 |
| 9 | 39.9 | 39.4 | 40.5 | 41.3 | 40.3 | 44.0 | 44.2 |
| 10 | 38.9 | 39.5 | 41.0 | 39.7 | 40.9 | 41.7 | 43.4 |
| 11 | 40.8 | 40.6 | 39.0 | 39.9 | 39.0 | 41.2 | 43.2 |
| 12 | 39.9 | 40.3 | 40.0 | 39.6 | 40.5 | 41.8 | 42.2 |
| 13 | 39.7 | 41.1 | 39.9 | 39.9 | 40.0 | 42.8 | 42.1 |
| 14 | 39.2 | 40.4 | 38.6 | 40.1 | 40.4 | 42.4 | 41.9 |
| 15 | 39.5 | 39.4 | 40.2 | 41.1 | 40.3 | 42.3 | 41.2 |
| 16 | 39.8 | 40.6 | 40.9 | 39.8 | 39.7 | 41.6 | 41.6 |
| 17 | 40.1 | 40.6 | 40.1 | 39.4 | 39.7 | 41.5 | 41.6 |
| 18 | 38.2 | 39.0 | 38.5 | 39.0 | 40.6 | 42.5 | 41.7 |
| 19 | 38.9 | 39.3 | 40.4 | 40.4 | 40.8 | 42.5 | 42.2 |
| 20 | 39.4 | 39.9 | 41.4 | 41.1 | 42.4 | 41.5 | 42.7 |
| 21 | 41.2 | 41.7 | 44.1 | 43.3 | 42.7 | 44.2 | 43.9 |
| 22 | 45.0 | 40.5 | 42.8 | 43.3 | 43.0 | 40.9 | 44.3 |
| 23 | 40.6 | 41.5 | 41.5 | 41.4 | 42.9 | 39.9 | 43.8 |
| 24 | 39.8 | 42.1 | 44.7 | 43.2 | 43.1 | 42.8 | 43.3 |


| $10-12$ | 40.4 | 40.5 | 39.5 | 39.8 | 39.8 | 41.5 | 42.7 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| $14-16$ | 39.6 | 40.0 | 40.5 | 40.4 | 40.0 | 41.9 | 41.4 |
| $0-24$ | 39.9 | 40.2 | 40.5 | 40.5 | 40.7 | 42.3 | 42.4 |

Channel 2 - Westbound
85th Percentile

| Hr Ending | $\begin{gathered} \text { 19/02/2018 } \\ \text { Monday } \end{gathered}$ | $\begin{gathered} \hline \text { 20/02/2018 } \\ \text { Tuesday } \\ \hline \end{gathered}$ | $\begin{aligned} & \hline 21 / 02 / 2018 \\ & \text { Wednesday } \\ & \hline \end{aligned}$ | $\begin{gathered} \hline \text { 22/02/2018 } \\ \text { Thursday } \\ \hline \end{gathered}$ | $\begin{gathered} \hline \text { 23/02/2018 } \\ \text { Friday } \\ \hline \end{gathered}$ | $\begin{gathered} \hline \text { 24/02/2018 } \\ \text { Saturday } \\ \hline \end{gathered}$ | $\begin{gathered} \hline \text { 25/02/2018 } \\ \text { Sunday } \\ \hline \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 53.3 | 53.3 | 58.7 | 48.6 | 53.2 | 48.6 | 48.8 |
| 2 | 53.5 | 38.3 | 48.5 | 65.8 | 53.2 | 53.8 | 48.3 |
| 3 | 66.4 | 58.2 | 53.6 | 58.1 | 58.3 | 53.5 | 53.7 |
| 4 | 53.5 | 58.5 | 53.2 | 53.2 | 58.8 | 53.2 | 58.4 |
| 5 | 48.4 | 53.2 | 58.5 | 53.1 | 58.1 | 58.9 | 48.8 |
| 6 | 53.8 | 53.6 | 53.7 | 53.4 | 48.5 | 53.4 | 53.7 |
| 7 | 48.8 | 48.4 | 48.8 | 49.0 | 48.8 | 53.3 | 53.4 |
| 8 | 43.7 | 43.9 | 43.4 | 48.5 | 43.8 | 48.8 | 53.1 |
| 9 | 43.7 | 43.5 | 48.9 | 48.5 | 48.3 | 53.2 | 48.4 |
| 10 | 44.0 | 43.2 | 48.7 | 44.0 | 49.0 | 48.4 | 48.3 |
| 11 | 48.3 | 48.7 | 43.1 | 48.2 | 43.8 | 48.2 | 48.7 |
| 12 | 43.5 | 43.7 | 48.6 | 43.4 | 48.7 | 48.9 | 48.3 |
| 13 | 43.4 | 48.6 | 43.7 | 48.4 | 48.9 | 48.6 | 48.8 |
| 14 | 48.7 | 48.8 | 43.0 | 48.3 | 48.9 | 48.4 | 48.2 |
| 15 | 48.2 | 43.2 | 48.4 | 48.5 | 48.4 | 48.4 | 48.6 |
| 16 | 43.4 | 48.8 | 48.4 | 48.1 | 43.1 | 48.9 | 49.0 |
| 17 | 43.5 | 43.2 | 48.3 | 43.5 | 49.0 | 48.6 | 48.2 |
| 18 | 43.8 | 44.0 | 44.0 | 49.0 | 43.8 | 48.9 | 48.9 |
| 19 | 43.5 | 43.1 | 48.8 | 43.6 | 48.7 | 48.5 | 48.1 |
| 20 | 48.4 | 48.1 | 48.7 | 48.9 | 48.4 | 48.3 | 49.0 |
| 21 | 48.5 | 48.8 | 53.4 | 48.7 | 48.0 | 53.9 | 48.6 |
| 22 | 48.2 | 48.4 | 53.7 | 53.4 | 48.2 | 48.3 | 53.6 |
| 23 | 43.6 | 48.5 | 48.3 | 48.7 | 53.2 | 48.3 | 53.9 |
| 24 | 48.5 | 53.1 | 48.4 | 48.1 | 48.5 | 48.2 | 53.6 |
|  |  |  |  |  |  |  |  |
| 10-12 | 43.7 | 43.1 | 43.4 | 48.8 | 43.4 | 48.3 | 48.2 |
| 14-16 | 43.9 | 43.2 | 48.9 | 48.7 | 48.1 | 48.0 | 48.9 |
| 0-24 | 43.4 | 48.0 | 48.1 | 48.5 | 48.3 | 48.7 | 48.1 |

## Tring ATC 2, Icknield Way (Eastern Site)

Produced by PCC Traffic Information Consultancy Ltd.

Channel 2 - Westbound
Speed Summary
Week 1


Speed Summary (MPH)


Date


## Tring ATC 2, Icknield Way (Eastern Site)

Produced by PCC Traffic Information Consultancy Ltd.

Channel 2 - Westbound
Vehicle Class
Week 1

| Day / Time Classes | Car / LGV / Caravan-1 | $\begin{gathered} \hline \text { OGV1 / Bus } \\ -2,3,5,6,7,12 \end{gathered}$ | $\begin{gathered} \text { OGV2 } \\ -4,8,9,10,11,13 \end{gathered}$ | $\begin{gathered} \hline \text { TOTAL } \\ -1-13 \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: |
| 19/02/2018 | - | - | - | - |
| 7-19 | 3952 | 362 | 50 | 4364 |
| 6-22 | 4484 | 411 | 59 | 4954 |
| 6-24 | 4542 | 415 | 60 | 5017 |
| 0-24 | 4642 | 426 | 73 | 5141 |
| 20/02/2018 | -20 $\quad$ (1) | - |  | - |
| 7-19 | 3978 | 399 | 50 | 4427 |
| 6-22 | 4526 | 451 | 57 | 5034 |
| 6-24 | 4608 | 454 | 58 | 5120 |
| 0-24 | 4716 | 468 | 64 | 5248 |
| 21/02/2018 | - |  |  | ( |
| 7-19 | 4002 | 409 | 56 | 4467 |
| 6-22 | 4553 | 447 | 62 | 5062 |
| 6-24 | 4630 | 448 | 63 | 5141 |
| 0-24 | 4727 | 461 | 70 | 5258 |
| 22/02/2018 |  | - | - | - |
| 7-19 | 4017 | 382 | 47 | 4446 |
| 6-22 | 4576 | 423 | 62 | 5061 |
| 6-24 | 4650 | 424 | 63 | 5137 |
| 0-24 | 4751 | 442 | 68 | 5261 |
| 23/02/2018 |  | , |  | ( |
| 7-19 | 3814 | 372 | 55 | 4241 |
| 6-22 | 4293 | 410 | 67 | 4770 |
| 6-24 | 4375 | 412 | 68 | 4855 |
| 0-24 | 4479 | 426 | 75 | 4980 |
| 24/02/2018 |  | V |  | - |
| 7-19 | 2999 | 128 | 14 | 3141 |
| 6-22 | 3319 | 143 | 21 | 3483 |
| 6-24 | 3405 | 145 | 22 | 3572 |
| 0-24 | 3479 | 147 | 24 | 3650 |
| 25/02/2018 |  | 又 | - | - |
| 7-19 | 2656 | 70 | 6 | 2732 |
| 6-22 | 2928 | 78 | 8 | 3014 |
| 6-24 | 3003 | 81 | 9 | 3093 |
| 0-24 | 3096 | 87 | 10 | 3193 |


| Average | V- |  | V"1 | V |
| :---: | :---: | :---: | :---: | :---: |
| 7-19 | 3631 | 303 | 40 | 3974 |
| 6-22 | 4097 | 338 | 48 | 4483 |
| 6-24 | 4173 | 340 | 49 | 4562 |
| 0-24 | 4270 | 351 | 55 | 4676 |

Total Vehicle Class Distribution


## Appendix 3 Visibility Splay Calculations

ICKNEILD WAY, TRING - VISIBILITY SPLAY CALCULATIONS

## Speed Survey Results

$85^{\text {th }}$ percentile speeds:
Eastbound 44.8 mph
Westbound 47.6 mph

## $85^{\text {th }}$ Percentile Wet Weather Speeds

Eastbound $=[(44.8-2.49) \times 1.6093 \times 1000] /(60 \times 60)=18.91 \mathrm{~m} / \mathrm{s}$
Westbound $=[(47.6-2.49) \times 1.6093 \times 1000] /(60 \times 60)=20.17 \mathrm{~m} / \mathrm{s}$

## Gradients

Eastbound $=100 \times(162.70-161.88) / 24.0=3.4 \%$
Westbound $=100 \times(163.81-163.75) / 29.5=0.2 \%$

## Stopping Sight Distances

Eastbound $=18.91 \times 2+\left[18.91^{2} / 2(2.45+0.1 \times 3.4)\right]=101.9 \mathrm{~m}$
Westbound $=20.17 \times 2+\left[20.17^{2} / 2(2.45+0.1 \times 0.2)\right]=122.7 \mathrm{~m}$

## Visibility Splay Y Distances

Eastbound $=101.9+2.4=104.3 \mathrm{~m}$
Westbound $=122.7+2.4=125.1 \mathrm{~m}$

## Appendix 4 TRICS Trip Rate Data - Office

## TRIP RATE CALCULATI ON SELECTION PARAMETERS:

Calculation Reference: AUDIT-648801-210617-0653

```
Land Use : 02-EMPLOYMENT
```

Category : A - OFFICE

## TOTAL VEHI CLES

## Selected regions and areas:

| $\mathbf{0 2}$ | SOUTH EAST |  |  |
| :--- | :--- | :--- | :--- |
|  | ES EAST SUSSEX |  |  |
| $\mathbf{0 4}$ | EAST ANGLIA |  |  |
|  | NF NORFOLK |  |  |
| $\mathbf{1 1}$ | SCOTLAND | 1 days |  |
|  | HI HIGHLAND | 2 days |  |

This section displays the number of survey days per TRICS ${ }^{\circledR}$ sub-region in the selected set

## Primary Filtering selection:

This data displays the chosen trip rate parameter and its selected range. Only sites that fall within the parameter range are included in the trip rate calculation.

| Parameter: | Gross floor area |
| :--- | :--- |
| Actual Range: | 186 to 929 (units: sqm) |
| Range Selected by User: | 178 to 1000 (units: sqm) |
| Parking Spaces Range: | All Surveys Included |

Public Transport Provision:
Selection by: Include all surveys
Date Range: $\quad 01 / 01 / 06$ to $13 / 11 / 19$
This data displays the range of survey dates selected. Only surveys that were conducted within this date range are included in the trip rate calculation.

Selected survey days:

| Tuesday | 2 days |
| :--- | :--- |
| 2 days |  |

This data displays the number of selected surveys by day of the week.

| Selected survey types: | 4 days |
| :--- | :--- |
| Manual count | 0 days |

This data displays the number of manual classified surveys and the number of unclassified ATC surveys, the total adding up to the overall number of surveys in the selected set. Manual surveys are undertaken using staff, whilst ATC surveys are undertaking using machines.

Selected Locations:
Suburban Area (PPS6 Out of Centre) 1
Edge of Town 3

This data displays the number of surveys per main location category within the selected set. The main location categories consist of Free Standing, Edge of Town, Suburban Area, Neighbourhood Centre, Edge of Town Centre, Town Centre and Not Known.

Selected Location Sub Categories:
Industrial Zone 1
Commercial Zone 1
Development Zone 1
Residential Zone 1
This data displays the number of surveys per location sub-category within the selected set. The location sub-categories consist of Commercial Zone, Industrial Zone, Development Zone, Residential Zone, Retail Zone, Built-Up Zone, Village, Out of Town, High Street and No Sub Category.

## Secondary Filtering selection:

Use Class:
Not Known 4 days
This data displays the number of surveys per Use Class classification within the selected set. The Use Classes Order 2005 has been used for this purpose, which can be found within the Library module of TRICS®.

## Secondary Filtering selection (Cont.):

Population within 500 m Range:
All Surveys Included
Population within 1 mile:
1,001 to $5,000 \quad 1$ days
15,001 to $20,000 \quad 1$ days
25,001 to $50,000 \quad 2$ days

This data displays the number of selected surveys within stated 1-mile radii of population.
Population within 5 miles:
5,001 to $25,000 \quad 1$ days
75,001 to $100,000 \quad 2$ days
125,001 to 250,000 1 days
This data displays the number of selected surveys within stated 5 -mile radii of population.
Car ownership within 5 miles:

| 0.6 to 1.0 | 3 days |
| :--- | :--- |
| 1.1 to 1.5 | 1 days |

This data displays the number of selected surveys within stated ranges of average cars owned per residential dwelling, within a radius of 5 -miles of selected survey sites.

Travel Plan:

| Yes | 1 days |
| :--- | :--- |
| No | 3 days |

This data displays the number of surveys within the selected set that were undertaken at sites with Travel Plans in place, and the number of surveys that were undertaken at sites without Travel Plans.

PTAL Rating:
No PTAL Present 4 days
This data displays the number of selected surveys with PTAL Ratings.

LIST OF SITES relevant to selection parameters


This section provides a list of all survey sites and days in the selected set. For each individual survey site, it displays a unique site reference code and site address, the selected trip rate calculation parameter and its value, the day of the week and date of each survey, and whether the survey was a manual classified count or an ATC count.

## TRIP RATE for Land Use 02 - EMPLOYMENT/A - OFFICE <br> TOTAL VEHI CLES <br> Calculation factor: $\mathbf{1 0 0}$ sqm <br> BOLD print indicates peak (busiest) period

|  | ARRIVALS |  |  | DEPARTURES |  |  | TOTALS |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Time Range | No. Days | Ave. GFA | Trip Rate | No. Days | Ave. GFA | Trip Rate | No. Days | Ave. GFA | Trip Rate |
| 00:00-01:00 |  |  |  |  |  |  |  |  |  |
| 01:00-02:00 |  |  |  |  |  |  |  |  |  |
| 02:00-03:00 |  |  |  |  |  |  |  |  |  |
| 03:00-04:00 |  |  |  |  |  |  |  |  |  |
| 04:00-05:00 |  |  |  |  |  |  |  |  |  |
| 05:00-06:00 |  |  |  |  |  |  |  |  |  |
| 06:00-07:00 |  |  |  |  |  |  |  |  |  |
| 07:00-08:00 | 4 | 605 | 1.075 | 4 | 605 | 0.165 | 4 | 605 | 1.240 |
| 08:00-09:00 | 4 | 605 | 4.382 | 4 | 605 | 0.455 | 4 | 605 | 4.837 |
| 09:00-10:00 | 4 | 605 | 1.406 | 4 | 605 | 0.455 | 4 | 605 | 1.861 |
| 10:00-11:00 | 4 | 605 | 0.372 | 4 | 605 | 0.331 | 4 | 605 | 0.703 |
| 11:00-12:00 | 4 | 605 | 0.496 | 4 | 605 | 0.537 | 4 | 605 | 1.033 |
| 12:00-13:00 | 4 | 605 | 0.703 | 4 | 605 | 0.951 | 4 | 605 | 1.654 |
| 13:00-14:00 | 4 | 605 | 1.116 | 4 | 605 | 0.992 | 4 | 605 | 2.108 |
| 14:00-15:00 | 4 | 605 | 0.827 | 4 | 605 | 0.785 | 4 | 605 | 1.612 |
| 15:00-16:00 | 4 | 605 | 0.289 | 4 | 605 | 0.703 | 4 | 605 | 0.992 |
| 16:00-17:00 | 4 | 605 | 0.661 | 4 | 605 | 1.240 | 4 | 605 | 1.901 |
| 17:00-18:00 | 4 | 605 | 0.455 | 4 | 605 | 4.506 | 4 | 605 | 4.961 |
| 18:00-19:00 | 4 | 605 | 0.248 | 4 | 605 | 0.744 | 4 | 605 | 0.992 |
| 19:00-20:00 |  |  |  |  |  |  |  |  |  |
| 20:00-21:00 |  |  |  |  |  |  |  |  |  |
| 21:00-22:00 |  |  |  |  |  |  |  |  |  |
| 22:00-23:00 |  |  |  |  |  |  |  |  |  |
| 23:00-24:00 |  |  |  |  |  |  |  |  |  |
| Total Rates: |  |  | 12.030 |  |  | 11.864 |  |  | 23.894 |

This section displays the trip rate results based on the selected set of surveys and the selected count type (shown just above the table). It is split by three main columns, representing arrivals trips, departures trips, and total trips (arrivals plus departures). Within each of these main columns are three sub-columns. These display the number of survey days where count data is included (per time period), the average value of the selected trip rate calculation parameter (per time period), and the trip rate result (per time period). Total trip rates (the sum of the column) are also displayed at the foot of the table.

To obtain a trip rate, the average (mean) trip rate parameter value (TRP) is first calculated for all selected survey days that have count data available for the stated time period. The average (mean) number of arrivals, departures or totals (whichever applies) is also calculated (COUNT) for all selected survey days that have count data available for the stated time period. Then, the average count is divided by the average trip rate parameter value, and multiplied by the stated calculation factor (shown just above the table and abbreviated here as FACT). So, the method is: COUNT/TRP*FACT. Trip rates are then rounded to 3 decimal places.

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## Parameter summary

Trip rate parameter range selected:
Survey date date range:
186-929 (units: sqm)
Number of weekdays (Monday-Friday):
01/01/06-13/11/19
Number of Saturdays:
Number of Sundays:
Surveys automatically removed from selection:
1
Surveys manually removed from selection:
This section displays a quick summary of some of the data filtering selections made by the TRICS $\circledR^{\circledR}$ user. The trip rate calculation parameter range of all selected surveys is displayed first, followed by the range of minimum and maximum survey dates selected by the user. Then, the total number of selected weekdays and weekend days in the selected set of surveys are show. Finally, the number of survey days that have been manually removed from the selected set outside of the standard filtering procedure are displayed.

## Appendix 5 TRICS Trip Rate Data - Commercial Warehouse

## TRIP RATE CALCULATI ON SELECTI ON PARAMETERS:

Calculation Reference: AUDIT-648801-210617-0639

| Land Use $\quad: \quad 02$ - EMPLOYMENTCategoryTOTAL VEHICLES |  |  |  |
| :---: | :---: | :---: | :---: |
|  |  |  |  |
| Selected regions and areas: |  |  |  |
| 03 SOUTH WEST |  |  |  |
|  | DV | DEVON | 1 days |
| 09 | NORTH |  |  |
|  | TV | TEES VALLEY | 1 days |
| 11 | SCOTLAND |  |  |
|  | ML | MIDLOTHIAN | 1 days |
| 15 | GR | TER DUBLIN |  |
|  | DL | DUBLIN | 1 days |

This section displays the number of survey days per TRICS ${ }^{\circledR}$ sub-region in the selected set

## Primary Filtering selection:

This data displays the chosen trip rate parameter and its selected range. Only sites that fall within the parameter range are included in the trip rate calculation.

| Parameter: | Gross floor area |
| :--- | :--- |
| Actual Range: | 190 to 750 (units: sqm) |
| Range Selected by User: | 190 to 1000 (units: sqm) |
| Parking Spaces Range: | All Surveys Included |

Public Transport Provision:
Selection by:

> Include all surveys

Date Range: $\quad 01 / 01 / 00$ to $26 / 11 / 20$
This data displays the range of survey dates selected. Only surveys that were conducted within this date range are included in the trip rate calculation.

Selected survey days:
Tuesday 1 days
Wednesday 1 days
Thursday 1 days
Friday 1 days
This data displays the number of selected surveys by day of the week.
Selected survey types:

| Manual count | 4 days |
| :--- | :--- |
| Directional ATC Count | 0 days |

This data displays the number of manual classified surveys and the number of unclassified ATC surveys, the total adding up to the overall number of surveys in the selected set. Manual surveys are undertaken using staff, whilst ATC surveys are undertaking using machines.

Selected Locations:
Suburban Area (PPS6 Out of Centre) 2
Edge of Town 2
This data displays the number of surveys per main location category within the selected set. The main location categories consist of Free Standing, Edge of Town, Suburban Area, Neighbourhood Centre, Edge of Town Centre, Town Centre and Not Known

Selected Location Sub Categories:
Industrial Zone
4
This data displays the number of surveys per location sub-category within the selected set. The location sub-categories consist of Commercial Zone, Industrial Zone, Development Zone, Residential Zone, Retail Zone, Built-Up Zone, Village, Out of Town, High Street and No Sub Category.

## Secondary Filtering selection:

Use Class:

| n/a | 1 days |
| :--- | :--- |
| B8 | 3 days |

This data displays the number of surveys per Use Class classification within the selected set. The Use Classes Order 2005 has been used for this purpose, which can be found within the Library module of TRICS ${ }^{\circledR}$.

## Secondary Filtering selection (Cont.):

Filter by Site Operations Breakdown:
All Surveys Included
Population within 500m Range:
All Surveys Included
Population within 1 mile:
5,001 to $10,000 \quad 2$ days
10,001 to $15,000 \quad 1$ days
20,001 to $25,000 \quad 1$ days

This data displays the number of selected surveys within stated 1-mile radii of population.

| Population within 5 miles: |  |
| :--- | :--- |
| 75,001 to 100,000 | 1 days |
| 125,001 to 250,000 | 1 days |
| 250,001 to 500,000 | 1 days |
| 500,001 or More | 1 days |

This data displays the number of selected surveys within stated 5 -mile radii of population.

| Car ownership within 5 miles: | 2 days |
| :--- | :--- |
| 0.6 to 1.0 | 2 days |
| 1.1 to 1.5 |  |

This data displays the number of selected surveys within stated ranges of average cars owned per residential dwelling, within a radius of 5 -miles of selected survey sites.

## Travel Plan:

No 4 days
This data displays the number of surveys within the selected set that were undertaken at sites with Travel Plans in place, and the number of surveys that were undertaken at sites without Travel Plans.

PTAL Rating:
No PTAL Present 4 days
This data displays the number of selected surveys with PTAL Ratings.

LIST OF SITES relevant to selection parameters
1 DL-02-F-03
BATHROOM TILES \& TI MBER
MAPLE AVENUE
DUBLIN
SANDYFORD
Suburban Area (PPS6 Out of Centre)
Industrial Zone
Total Gross floor area: 650 sqm
Survey date: THURSDAY 26/09/19
2 DV-02-F-01 OPTICS WAREHOUSE
ALDERS WAY
PAIGNTON
Edge of Town
Industrial Zone
Total Gross floor area: 190 sqm
Survey date: FRIDAY 29/03/19
3 ML-02-F-01
WI NDOWS
UNIT 53
DALKEITH
MAYFIELD IND. ESTATE
Edge of Town
Industrial Zone
Total Gross floor area: 750 sqm Survey date: WEDNESDAY 04/05/11
4 TV-02-F-03 ELECTRICAL COMPONENTS
UNIT 8,NAVIGATOR COURT
STOCKTON-ON-TEES
Suburban Area (PPS6 Out of Centre)
Industrial Zone
Total Gross floor area: 634 sqm
Survey date: TUESDAY 28/06/11 Survey Type: MANUAL
This section provides a list of all survey sites and days in the selected set. For each individual survey site, it displays a unique site reference code and site address, the selected trip rate calculation parameter and its value, the day of the week and date of each survey, and whether the survey was a manual classified count or an ATC count.

MANUALLY DESELECTED SITES

| Site Ref |  |
| :---: | :--- |
| AN-02-F-05 | Surveyed During Covid Restrictions for Deselection |

## TRIP RATE for Land Use 02 - EMPLOYMENT/F - WAREHOUSING (COMMERCIAL) <br> TOTAL VEHI CLES <br> Calculation factor: 100 sqm <br> BOLD print indicates peak (busiest) period

| Time Range | ARRIVALS |  |  | DEPARTURES |  |  | TOTALS |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | No. Days | Ave. GFA | Trip Rate | No. Days | Ave. GFA | Trip Rate | No. Days | Ave. GFA | Trip Rate |
| 00:00-01:00 |  |  |  |  |  |  |  |  |  |
| 01:00-02:00 |  |  |  |  |  |  |  |  |  |
| 02:00-03:00 |  |  |  |  |  |  |  |  |  |
| 03:00-04:00 |  |  |  |  |  |  |  |  |  |
| 04:00-05:00 |  |  |  |  |  |  |  |  |  |
| 05:00-06:00 | 2 | 420 | 0.000 | 2 | 420 | 0.000 | 2 | 420 | 0.000 |
| 06:00-07:00 | 2 | 420 | 0.119 | 2 | 420 | 0.000 | 2 | 420 | 0.119 |
| 07:00-08:00 | 4 | 556 | 0.090 | 4 | 556 | 0.225 | 4 | 556 | 0.315 |
| 08:00-09:00 | 4 | 556 | 0.809 | 4 | 556 | 0.135 | 4 | 556 | 0.944 |
| 09:00-10:00 | 4 | 556 | 0.854 | 4 | 556 | 0.629 | 4 | 556 | 1.483 |
| 10:00-11:00 | 4 | 556 | 0.809 | 4 | 556 | 0.629 | 4 | 556 | 1.438 |
| 11:00-12:00 | 4 | 556 | 0.629 | 4 | 556 | 0.629 | 4 | 556 | 1.258 |
| 12:00-13:00 | 4 | 556 | 0.629 | 4 | 556 | 0.899 | 4 | 556 | 1.528 |
| 13:00-14:00 | 4 | 556 | 0.719 | 4 | 556 | 0.540 | 4 | 556 | 1.259 |
| 14:00-15:00 | 4 | 556 | 0.719 | 4 | 556 | 0.809 | 4 | 556 | 1.528 |
| 15:00-16:00 | 4 | 556 | 0.405 | 4 | 556 | 0.495 | 4 | 556 | 0.900 |
| 16:00-17:00 | 4 | 556 | 0.405 | 4 | 556 | 0.540 | 4 | 556 | 0.945 |
| 17:00-18:00 | 4 | 556 | 0.405 | 4 | 556 | 0.854 | 4 | 556 | 1.259 |
| 18:00-19:00 | 4 | 556 | 0.270 | 4 | 556 | 0.180 | 4 | 556 | 0.450 |
| 19:00-20:00 | 2 | 420 | 0.119 | 2 | 420 | 0.476 | 2 | 420 | 0.595 |
| 20:00-21:00 | 2 | 420 | 0.000 | 2 | 420 | 0.833 | 2 | 420 | 0.833 |
| 21:00-22:00 |  |  |  |  |  |  |  |  |  |
| 22:00-23:00 |  |  |  |  |  |  |  |  |  |
| 23:00-24:00 |  |  |  |  |  |  |  |  |  |
| Total Rates: |  |  | 6.981 |  |  | 7.873 |  |  | 14.854 |

This section displays the trip rate results based on the selected set of surveys and the selected count type (shown just above the table). It is split by three main columns, representing arrivals trips, departures trips, and total trips (arrivals plus departures). Within each of these main columns are three sub-columns. These display the number of survey days where count data is included (per time period), the average value of the selected trip rate calculation parameter (per time period), and the trip rate result (per time period). Total trip rates (the sum of the column) are also displayed at the foot of the table.

To obtain a trip rate, the average (mean) trip rate parameter value (TRP) is first calculated for all selected survey days that have count data available for the stated time period. The average (mean) number of arrivals, departures or totals (whichever applies) is also calculated (COUNT) for all selected survey days that have count data available for the stated time period. Then, the average count is divided by the average trip rate parameter value, and multiplied by the stated calculation factor (shown just above the table and abbreviated here as FACT). So, the method is: COUNT/TRP*FACT. Trip rates are then rounded to 3 decimal places.

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## Parameter summary

Trip rate parameter range selected:
Survey date date range:
190-750 (units: sqm)
Number of weekdays (Monday-Friday): 01/01/00-26/11/20

Number of Saturdays:
4
Number of Sundays:
0
Surveys automatically removed from selection:
Surveys manually removed from selection:
This section displays a quick summary of some of the data filtering selections made by the TRICS ${ }^{8}$ user. The trip rate calculation parameter range of all selected surveys is displayed first, followed by the range of minimum and maximum survey dates selected by the user. Then, the total number of selected weekdays and weekend days in the selected set of surveys are show. Finally, the number of survey days that have been manually removed from the selected set outside of the standard filtering procedure are displayed.

