**Summary of findings from speed analysis**

In 2022 Stratton Audley Parish Council undertook a survey of the traffic speed at the 4 entrances / exits of the village (Bicester Road, Launton Road, Mill Road, Stoke Lyne Road). The data shows mean speeds of between 24 and 34mph at the measuring points with limited numbers of vehicles exceeding the speed limit by over 100% i.e. double the speed limit in the village. Peak traffic is between 08:00 to 09:00 in the morning and 16:00 to 18:00 in the afternoon. Approximately 7% of traffic into and out of the village is HGV’s and this varied across the week.

Using the data it is possible to make some comparisons with data collected in 2013 on the Bicester Road and Stoke Lyne Road. Traffic volumes on the Bicester Road have almost doubled with southbound traffic between 08:00 and 09:00 being 3 times the 2013 volume. Maximum speeds recorded have also increased but average speeds have reduced slightly.

Summary tables are used below but extensive Graphical analysis can be found in the data files sent (General Summary and Speed Summary tabs).

**Data**

The speed data was collected on:

w/c 21st March, 2022 on Stoke Lyne Road and Launton Road

w/c 28th March, 2022 on Mill Road and Bicester Road.

**Summary Tables**

**Bicester Road:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Peak traffic (2 Way)** |  | **% HGV traffic (approx.)** | **Mean speed** |
| Morning | 5 Day (Mon – Fri) | 7 Day (Mon – Sun) | 3% into village | 34mph |
| 08:00 to 09:00 | 182 vehicles | 153 vehicles | 5% out of village |  |
| Afternoon |  |  |  | **Max speed** |
| 17:00 to 18:00 | 213 vehicles | 183 vehicles |  | 65 to 70mph (9am) |

|  |  |
| --- | --- |
| **A4421 to Church St** | **Church St to A4421** |
| **Peak traffic** |  |  | **Peak traffic** |  |  |
| 08:00 to 09:00 | 60 vehicles | 7 Day average | 08:00 to 09:00 | 93 vehicles | 7 Day average |
|  | 73 vehicles | 5 Day average |  | 109 vehicles | 5 Day average |
| 17:00 to 18:00 | 93 vehicles | 7 Day average | 17:00 to 18:00 | 90 vehicles | 7 Day average |
|  | 108 vehicles | 5 Day average |  | 106 vehicles | 5 Day average |
| Average speed | 29.41mph | 5 Day average | Average speed | 34.04mph | 5 Day average |
| Maximum speed range | 55 to 60mph | Thursday 12:45 and Friday 13:30 | Maximum speed range | 65 to 70mph | Saturday 09:45 |

**Launton Road:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Peak traffic (2 Way)** |  | **% HGV traffic (approx.)** | **Mean speed** |
| Morning | 5 Day (Mon – Fri) | 7 Day (Mon – Sun) | 7% into village | 24mph |
| 08:00 to 09:00 | 147 vehicles | 117 vehicles | 3% out of village |  |
| Afternoon |  |  |  | **Max speed** |
| 16:00 to 17:00 | 250 vehicles | 127 vehicles |  | 40 to 45mph (9am) |

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| --- | --- |
| **Station Road to Mill Road** | **Mill Road to Station Road** |
| **Peak traffic** |  |  | **Peak traffic** |  |  |
| 08:00 to 09:00 | 62 vehicles | 7 Day average | 08:00 to 09:00 | 55 vehicles | 7 Day average |
|  | 78 vehicles | 5 Day average |  | 69 vehicles | 5 Day average |
| 17:00 to 18:00 | 67 vehicles | 7 Day average | 16:00 to 18:00 | 48 vehicles | 7 Day average |
|  | 81 vehicles | 5 Day average |  | 56 vehicles | 5 Day average |
| Average speed | 23.2mph | 5 Day average | Average speed | 23.99mph | 5 Day average |
| Maximum speed range | 35 to 40mph | Most evenings 18:15 to 21:30 | Maximum speed range | 40 to 45mph | Monday 09:00 |

**Mill Road**

|  |  |  |  |
| --- | --- | --- | --- |
| **Peak traffic (2 Way)** |  | **% HGV traffic (approx.)** | **Mean speed** |
| Morning | 5 Day (Mon – Fri) | 7 Day (Mon – Sun) | 4% into and out of village | 32mph |
| 08:00 to 09:00 | 66 vehicles | 55 vehicles |  |
| Afternoon |  |  |  | **Max speed** |
| 17:00 to 18:00 | 82 vehicles | 69 vehicles |  | 60 to 65mph (7pm) |

|  |  |
| --- | --- |
| **Cavendish Place to Unnamed Road** | **Unnamed Road to Cavendish Place** |
| **Peak traffic** |  |  | **Peak traffic** |  |  |
| 08:00 to 09:00 | 21 vehicles | 7 Day average | 08:00 to 09:00 | 31 vehicles | 7 Day average |
|  | 25 vehicles | 5 Day average |  | 41 vehicles | 5 Day average |
| 17:00 to 18:00 | 36 vehicles | 7 Day average | 16:00 to 18:00 | 33 vehicles | 7 Day average |
|  | 44 vehicles | 5 Day average |  | 38 vehicles | 5 Day average |
| Average speed | 32.56mph | 5 Day average | Average speed | 32.09mph | 5 Day average |
| Maximum speed range | 55 to 60mph | Throughout week and throughout day | Maximum speed range | 60 to 65mph | Wednesday 19:15 |

**Stoke Lyne Road**

|  |  |  |  |
| --- | --- | --- | --- |
| **Peak traffic (2 Way)** |  | **% HGV traffic (approx.)** | **Mean speed** |
| Morning | 5 Day (Mon – Fri) | 7 Day (Mon – Sun) | 7% into and out of village | 26mph |
| 08:00 to 09:00 | 74 vehicles | 58 vehicles |  |
| Afternoon |  |  |  | **Max speed** |
| 15:00 to 18:00 | 72 vehicles | 63 vehicles |  | 65 to 70mph (7pm) |

|  |  |
| --- | --- |
| **Glen Close to Willows Lodge** | **Willows Lodge to Glen Close** |
| **Peak traffic** |  |  | **Peak traffic** |  |  |
| 08:00 to 09:00 | 34 vehicles | 7 Day average | 08:00 to 09:00 | 24 vehicles | 7 Day average |
|  | 43 vehicles | 5 Day average |  | 30 vehicles | 5 Day average |
| 16:00 to 17:00 | 36 vehicles | 7 Day average | 17:00 to 18:00 | 32 vehicles | 7 Day average |
|  | 42 vehicles | 5 Day average |  | 35 vehicles | 5 Day average |
| Average speed | 29.39mph | 5 Day average | Average speed | 26.28mph | 5 Day average |
| Maximum speed range | 65 to 70mph | Sunday 19:30 | Maximum speed range | 45 to 50mph | Throughout week, throughout day |

**Comparison to 2013 data**

In 2013 speed data was collected for Bicester Road and Stoke Lyne Road from 31st January to 7th February. A comparison with 2022 data can be found below:

**Bicester Road comparison**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **2013** |  |  | **2022** |  |
|  | **Northbound** |  |  | **Northbound** |  |
| **Peak traffic (5Day avg)** | 08:00 to 10:00 | 38 vehicles/hr |  | 08:00 to 09:00 | 60 vehicles |
| 17:00 to 18:00 | 54 vehicles/hr |  | 17:00 to 18:00 | 93 vehicles |
| **Max speed** | 46 to 51mph | 15:00 to 16:00 |  | 55 to 60mph | 12:00 to 14:00 |
| **Average speed** | 31mph |  |  | 29mph |  |
|  |  |  |  |  |  |
|  | **Southbound** |  |  | **Southbound** |  |
| **Peak traffic (5Day avg)** | 08:00 to 09:00 | 50 vehicles/hr |  | 08:00 to 09:00 | 153 vehicles |
| 14:00 to 15:00 | 40 vehicles/hr |  | 17:00 to 18:00 | 183 vehicles |
| **Max speed** | 51 to 56mph | 14:00 to 15:00 |  | 65 to 70mph | 09:00 to 10:00 |
| **Average speed** | 35mph |  |  | 34mph |  |

**Launton Road**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **2013** |  |  | **2022** |  |
|  | **Northbound** |  |  | **Northbound** |  |
| **Peak traffic (5Day avg)** | 08:00 to 09:00 | 23 vehicles/hr |  | 08:00 to 09:00 | 78 vehicles/hr |
| 17:00 to 18:00 | 29 vehicles/hr |  | 16:00 to 17:00 | 94 vehicles/hr |
| **Max speed** | 31 to 36mph | 07:00 to 09:00 and 15:00 to 17:00 |  | 35 to 40mph | Throughout day |
| **Average speed** | 25mph |  |  | 25mph |  |
|  |  |  |  |  |  |
|  | **Southbound** |  |  | **Southbound** |  |
| **Peak traffic (5Day avg)** | 08:00 to 09:00 | 39 vehicles/hr |  | 08:00 to 09:00 | 69 vehicles/hr |
| 17:00 to 18:00 | 25 vehicles/hr |  | 16:00 to 18:00 | 56 vehicles/hr |
| **Max speed** | 36 to 41mph | 06:00 to 09:00 and 14:00 to 16:00 |  | 40-45mph | 09:00 to 10:00 |
| **Average speed** | 27mph |  |  | 24mph |  |

**Mill Road**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **2013** |  |  | **2022** |  |
|  | **Northbound** |  |  | **Northbound** |  |
| **Peak traffic (5Day avg)** | 09:00 to 11:00 | 15 vehicles/hr |  | 08:00 to 09:00 | 25 vehicles/hr |
| 17:00 to 18:00 | 22 vehicles/hr |  | 17:00 to 18:00 | 44 vehicles/hr |
| **Max speed** | 51 to 56mph | 17:00 to 18:00 |  | 55 to 60mph | 10:00 to 21:00 |
| **Average speed** | 37mph |  |  | 34mph |  |
|  |  |  |  |  |  |
|  | **Southbound** |  |  | **Southbound** |  |
| **Peak traffic (5Day avg)** | 08:00 to 09:00 | 19 vehicles/hr |  | 08:00 to 09:00 | 41 vehicles/hr |
| 15:00 to 17:00 | 19 vehicles/hr |  | 17:00 to 18:00 | 38 vehicles/hr |
| **Max speed** | 46 to 51mph | 08:00 to 09:00 |  | 60 to 65mph | 19:00 to 20:00 |
| **Average speed** | 33mph |  |  | 33mph |  |

**Stoke Lyne Road comparison**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **2013** |  |  | **2022** |  |
|  | **Westbound** |  |  | **Westbound** |  |
| **Peak traffic (5Day avg)** | 08:00 to 09:00 | 28 vehicles/hr |  | 08:00 to 09:00 | 34 vehicles |
| 17:00 to 18:00 | 27 vehicles/hr |  | 16:00 to 17:00 | 36 vehicles |
| **Max speed** | 36 to 41mph | throughout day |  | 65 to 70mph | 19:00 to 20:00 |
| **Average speed** | 29mph |  |  |  | 29mph |
|  |  |  |  |  |  |
|  | **Eastbound** |  |  | **Eastbound** |  |
| **Peak traffic (5Day avg)** | 08:00 to 09:00 | 23 vehicles/hr |  | 08:00 to 09:00 | 24 vehicles |
| 15:00 to 16:00 and 17:00 to 18:00 | 21 vehicles/hr |  | 17:00 to 18:00 | 32 vehicles |
| **Max speed** | 36 to 41mph | throughout day |  | 45 to 50mph | throughout day |
| **Average speed** | 27mph |  |  |  | 26mph |