

SUMMARY Great Broughton Speed Survey 2024

Data recorded 08/03/24 through to 16/9/24

Introduction

In 2020 Great and Little Broughton Parish Council purchased 2 Vehicle Activated Speed (VAS) warning signs which are located at the North and South ends of the village. The speed limit throughout the village is 30mph and the VAS signs activate at 33mph (speed limit + 10%).

Data for the preceding 6 months has been downloaded each year and analysed using Houston Radar software to determine the 85th Percentile (*this is the speed at or below which 85% of all vehicles are observed to travel past the nominated point, commonly used as it represents "a reasonable driver" - 85% = mean 50% + 1 SD 34.1% assuming a normal distribution*).

Overview of Great Broughton Traffic data

1. GB South (incoming traffic from Chopgate)

Speed limit 30mph- 16% vehicles above this

Vehicle activated speed sign 33mph

Average speed 26.2mph of all traffic, average speed of those exceeding limit 33.4mph

Max Speed 60 mph on 26/05/2024 16:45

85th Percentile Speed = 30.2mph

Traffic volume counts per hour recorded range from 0 to 251/hour 31.8.24 17.00

Total traffic counted 219061 with average daily volume estimated at 1140.

Busiest hour is usually 3-4pm, with traffic building up steadily to this peak from 7am on weekdays throughout morning and tailing off from 6pm early evening – a similar pattern is observed on weekend days from 9am.

2. GB North (incoming traffic from Stokesley)

Speed limit 30mph- 21% vehicles above this

Vehicle activated speed sign 33mph

Average speed 27.2mph of all traffic, average speed of those exceeding limit 33.1mph

Max Speed 55 mph on 23/3/24 02.15

85th Percentile Speed = 31.6mph

Traffic volume counts per hour recorded range from 0 to 310/hour (11.00-12.00 on 31.8.24).

Total traffic counted 359450 with average daily traffic 1872.

On weekdays the busiest hour is usually 4-5pm with traffic building up steadily to this peak from 7am on weekdays throughout morning and tailing off from 7pm early evening. On weekends the busiest time is usually 10-12, though traffic remains high from 7am-7pm.

Comparison with previous years

a. GB North (incoming from Stokesley)

Year	Average speed (mph)	85 th percentile speed (mph)	Average daily volume	Busiest
2022	27.5	33	1748	5-6pm
2023	27.2	31.7	1836	11-12 and 5-6pm
2024	27.2	31.6	1872	4-5pm

b. GB South (incoming from Chopgate)

Year	Average speed (mph)	85 th percentile speed (mph)	Average daily volume	Busiest
2022	26	30	1059	11-12
2023	26.3	30.3	1096	3-4pm
2024	26.2	30.2	1140	3-4pm

Summary

- Average daily volume of traffic has increased by 7% (GB North) and 7.6% (GB South) respectively since 2022.
- Speeds have been consistent over past 2 years. 85 percentile speed average is 30.2mph at GB South and 31.6mph at GB North meaning that a significant minority of drivers are still above speed limit entering village. Over the 6m period of data collection, >100,000 drivers entered the village and drove past the speed cameras at >30mph.
- Lower average 85percentile speeds tend to be seen during daytime and higher average 85percentile speeds seen during evening and overnight.

Attachments:

1. Bar chart 2024 GB North vehicle count vs speed
2. Bar chart 2024 GB South vehicle count vs speed
3. Percentile chart 2024 GB North percentile count vs speed 6m to Sept 24
4. Percentile chart 2024 GB South percentile count vs speed 6m to Sept 24

CW, 9.10.24