

TRAFFIC SPEED & VOLUME SURVEY REPORT

C299 Market Street, Hayfield, Derbyshire

Survey period: Thursday 18 June – Wednesday 24 June 2026 | Site ID: 000000011457 | Posted speed limit: 30 mph

1. Executive Summary

Over the seven-day survey period, an average recording device on Market Street, Hayfield recorded 18,385 vehicle movements, averaging 2,626 vehicles per day (2,749 on an average weekday). Traffic follows a typical village pattern, with a morning peak around 08:00 and a broader afternoon peak around 15:00, and noticeably lower flows overnight and on Sunday.

Overall vehicle speeds are well controlled relative to the 30 mph limit: the mean speed across all traffic was 23.2 mph and the 85th percentile speed was 28 mph — both below the posted limit. However, speed compliance varies by direction of travel and by time of day:

- Northbound traffic is faster than southbound: mean 24.4 mph vs 22.6 mph, with an 85th percentile of 29 mph vs 27 mph.
- Around 7.5% of all vehicles were recorded travelling above 30 mph; this rises to 11.9% for northbound traffic, against 5.1% southbound.
- The highest speeds of the day occur late at night and in the very early hours (e.g. 85th percentile of 34 mph at midnight), when traffic volumes are lowest — a pattern consistent with a minority of drivers speeding when the street is quiet.

These findings suggest that, while the great majority of drivers on Market Street comply with the 30 mph limit, there is a meaningful minority of higher-speed events — concentrated among northbound and late-night/early-morning traffic — that may warrant further monitoring or targeted traffic-calming attention.

2. Survey Details

Site name / ID	11457 / 000000011457
Location	C299 Market Street, Hayfield, Derbyshire
Survey period	Thu 18 June 2026 – Wed 24 June 2026 (7 days)
Time period / binning	1-hour bins, each lane / all directions combined
Posted speed limit	30 mph
Recorder speed resolution	1.00 mph
Data exclusions	None
Holidays / events during survey	None recorded

3. Traffic Volume

Total recorded volume over the 7-day survey was 18,385 vehicles, averaging 2,626 vehicles per day across the full week and 2,749 per average weekday (Monday–Friday).

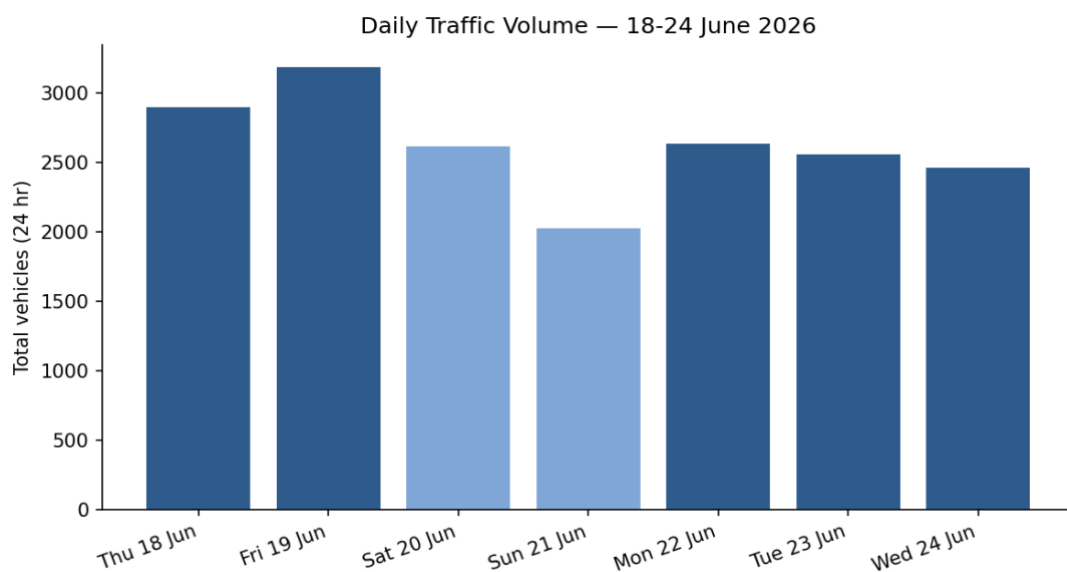


Figure 1: Total daily traffic volume, 18–24 June 2026

Friday 19 June was the busiest day recorded (3,188 vehicles) and Sunday 21 June the quietest (2,026 vehicles), reflecting the expected weekday/weekend pattern for a village through-road.

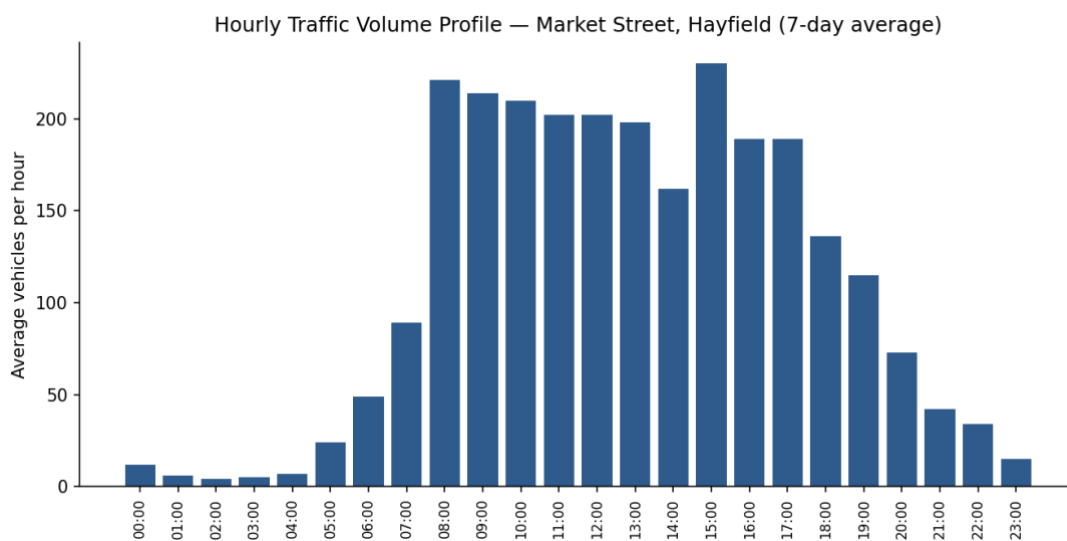


Figure 2: Average hourly traffic volume profile (7-day average)

The volume profile shows a clear morning peak at 08:00 (221 vehicles/hour on average) and a broader, slightly higher afternoon peak at 15:00 (230 vehicles/hour), consistent with commuting and school-run activity. Volumes are consistently low overnight, falling to single figures between 01:00 and 04:00.

Volume by direction

Direction	Average daily volume	Share of total
Northbound	943	36%
Southbound	1,683	64%

Southbound movements account for roughly two-thirds of all recorded traffic, nearly double the northbound flow — worth bearing in mind when interpreting the direction-specific speed findings below.

4. Vehicle Speeds

Across all directions and the full survey week, the mean recorded speed was 23.2 mph and the 85th percentile speed was 28 mph — both comfortably below the 30 mph limit. Speed statistics by direction are summarised below.

Direction	Mean speed	85th percentile	Vehicles over 30 mph
All directions	23.2 mph	28 mph	7.5%
Northbound	24.4 mph	29 mph	11.9%
Southbound	22.6 mph	27 mph	5.1%

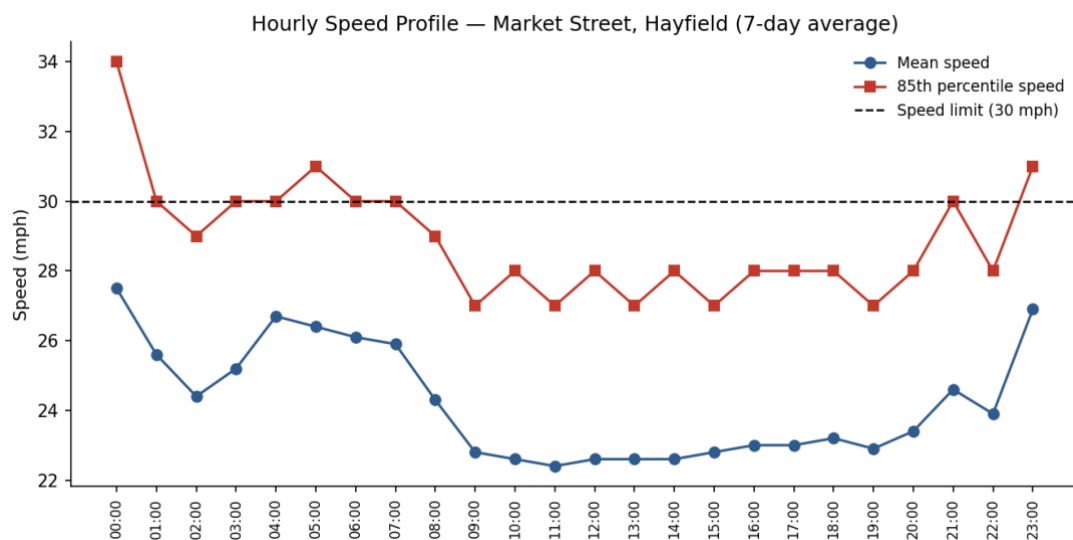


Figure 3: Average hourly mean and 85th percentile speed, against the 30 mph limit

The 85th percentile speed exceeds the speed limit only during the lowest-traffic hours of the day — reaching 34 mph at midnight, 31 mph at 23:00 and 30–31 mph in the very early morning (01:00–05:00). During the busy daytime hours (08:00–19:00), the 85th percentile sits consistently at or below 28–29 mph. This is a common pattern: with less traffic to moderate speed, a minority of drivers travel faster overnight.

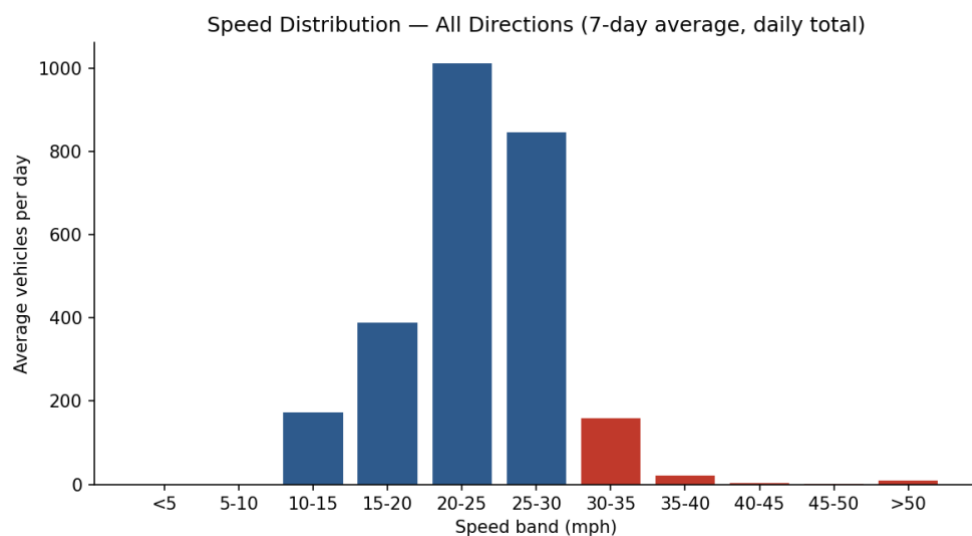


Figure 4: Distribution of recorded speeds, all directions (7-day daily average)

The speed distribution is concentrated in the 20–30 mph range, which together accounts for around 71% of all recorded vehicles. Only a small proportion of vehicles were recorded at higher speed bands, and very few (well under 1%) were recorded above 40 mph.

5. Key Observations

- Overall speed compliance on Market Street is good: mean speed (23.2 mph) and 85th percentile speed (28 mph) are both below the 30 mph limit.
- Northbound traffic runs faster than southbound (24.4 mph vs 22.6 mph mean; 11.9% vs 5.1% over the limit), despite carrying roughly half the volume of southbound traffic.
- Speeding is most pronounced late at night and in the early hours, when volumes are lowest — the 85th percentile speed peaks at 34 mph around midnight.
- Traffic volume peaks at 08:00 (morning) and 15:00 (afternoon), with Friday the busiest day and Sunday the quietest.
- No holidays, special events, or data-quality exclusions affected the survey period.

6. Notes on Data

- Averages are calculated as the simple average of values across the relevant period (e.g. hourly averages are the mean of that hour across the 7 survey days).
- Recorder speed resolution is 1.00 mph.
- 'Average daily volume' and 7-day figures weight weekday and weekend days differently for some summary rows, per the source data notes; the headline day-of-week and hourly figures in this report use the straightforward 7-day averages.