

CONNECTING SHEFFIELD

Better travel choices

Junction vehicle counts:
Woodseats Road / Abbeydale
Road / Sheldon Road
Section 4 of 9

Sheaf Valley Cycle Route

Traffic Monitoring Data



| Woodseats Road / Abbeydale Road junction count – Introduction

In order to monitor and evaluate the success of the Sheaf Valley Cycle Route, we have conducted a range of traffic monitoring surveys at a number of locations across Sheaf Valley and the surrounding areas.

These surveys capture the movements of motor vehicles, cyclists and pedestrians. We surveyed key roads and junctions where we anticipated a potential change in travel as a result of the scheme, including areas of traffic displacement.

Changes to vehicle counts at junctions were calculated by conducting surveys before and after the measures were put in place. The surveys prior to the Cycle Route coming into effect took place here in November 2021, while the surveys measuring traffic counts after the Cycle Route changes came into effect took place in November 2022.

The findings of all these surveys have been compiled and presented in 9 separate documents.

This is document 4 of 9, and provides an overview of the number of motor vehicles that we counted at the junction of Woodseats Road and Abbeydale Road, and Abbeydale Road and Sheldon Road, via traffic monitoring surveys. The data for the Abbeydale Road junction with Sheldon Road was gathered at different times of the year, and over two separate days in each survey.

These documents have been created to illustrate changes in travel before and after the Sheaf Valley Cycle Route scheme came into effect. The full committee report on the scheme will provide context to the data presented in this document, and how it informs the recommendations on the future of the scheme.

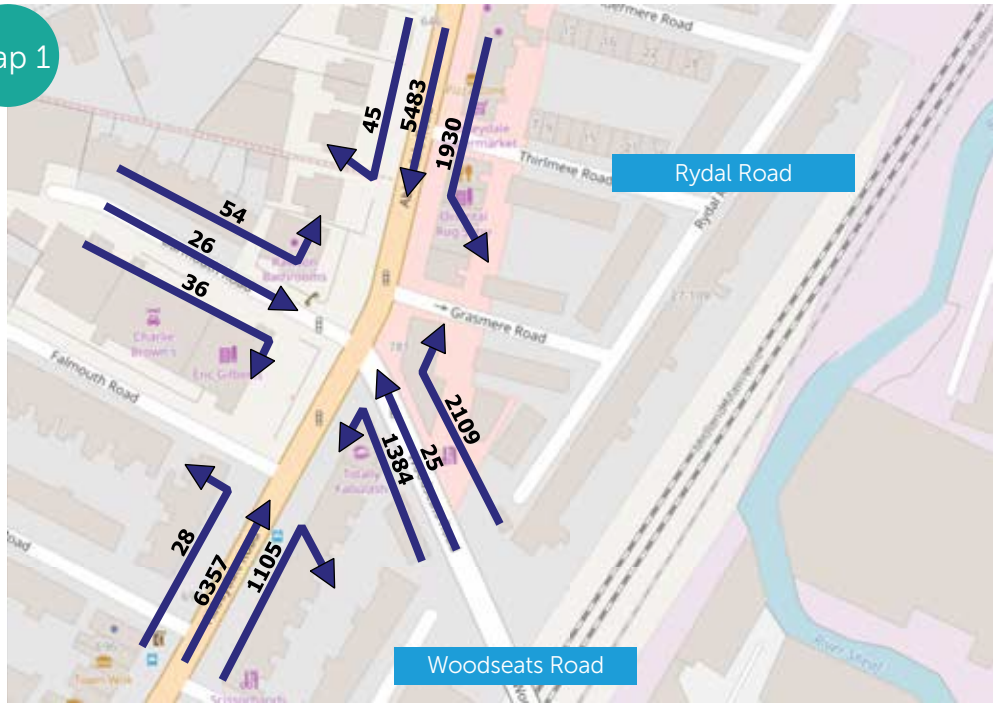
Number of motor vehicles: Woodseats Road / Abbeydale Road 12 hour count

We counted the number of motor vehicles at the junction of Woodseats Road and Abbeydale Road between 7am and 7pm. Map 1 shows the number of vehicles counted during the survey in November 2021. Map 2 shows the number of vehicles counted during the survey in November 2022. The arrows show the direction of travel of the vehicles we counted.

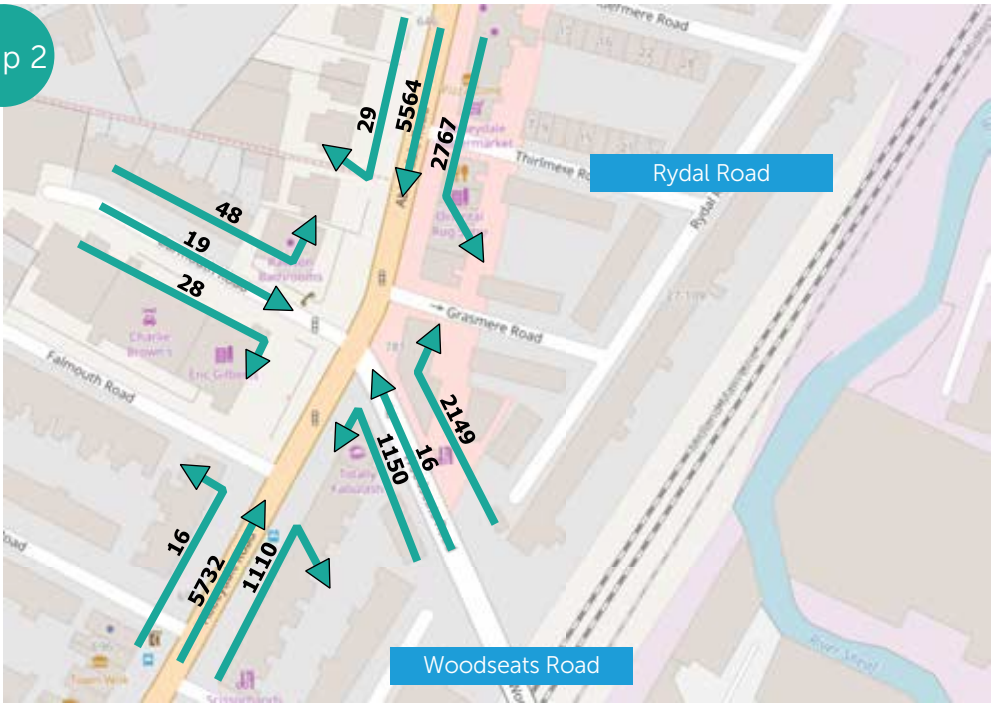
Number of motor vehicles travelling through the Woodseats Road / Abbeydale Road junction before the scheme (November 2021)

Number of motor vehicles travelling through the Woodseats Road / Abbeydale Road junction after the scheme (November 2022)

Map 1



Map 2



Key

 Direction and number of vehicles counted at junction in November 2021

Key

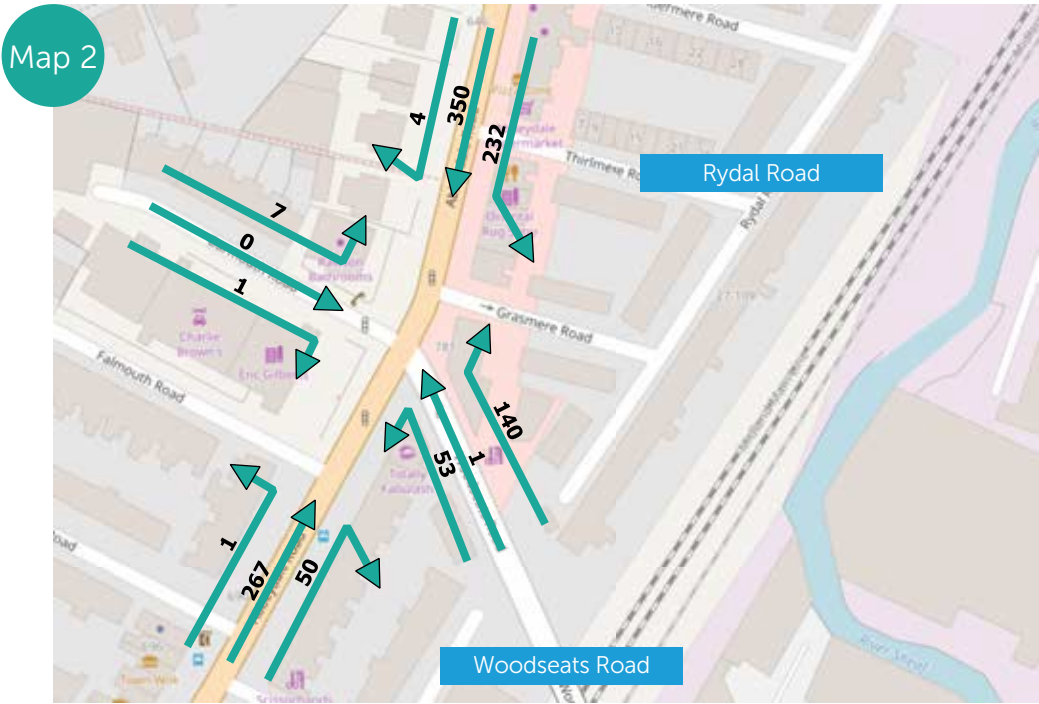
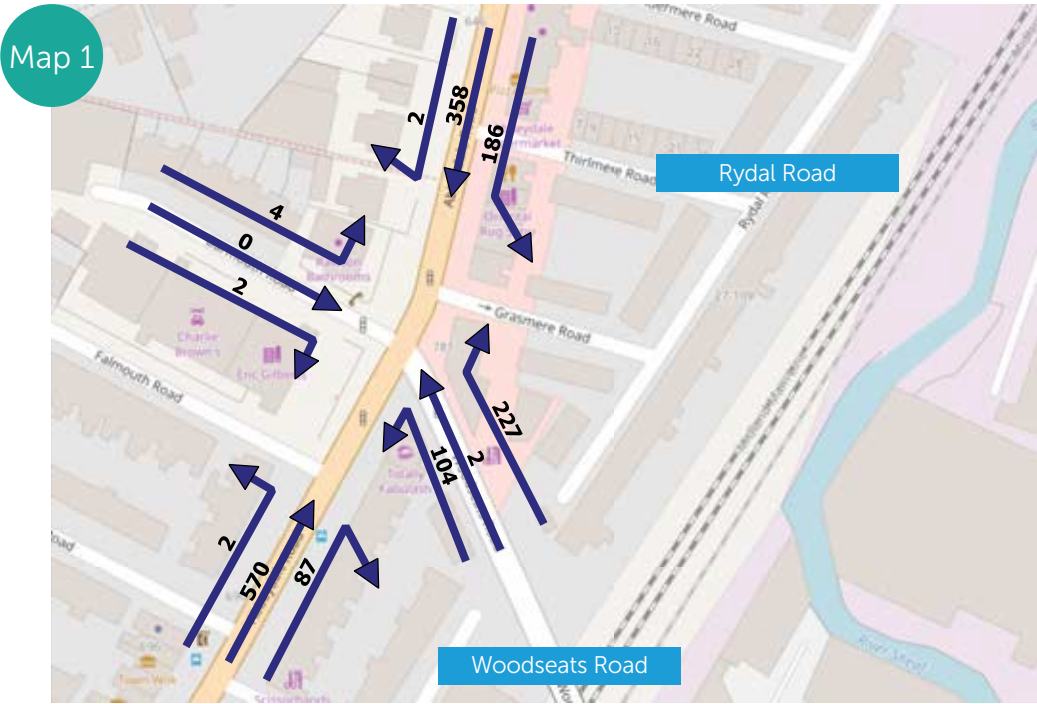
 Direction and number of vehicles counted at junction in November 2022

Number of motor vehicles: Woodseats Road / Abbeydale Road morning traffic count

We counted the number of motor vehicles at the junction of Woodseats Road and Abbeydale Road during the peak time of morning traffic, between 8am and 9am. Map 1 shows the number of vehicles counted during the survey in November 2021. Map 2 shows the number of vehicles counted during the survey in November 2022. The arrows show the direction of travel of the vehicles we counted.

Number of motor vehicles travelling through the Woodseats Road / Abbeydale Road junction in the morning before the scheme (November 2021)

Number of motor vehicles travelling through the Woodseats Road / Abbeydale Road junction in the morning after the scheme (November 2022)



Key
 Direction and number of vehicles counted at junction in November 2021

Key
 Direction and number of vehicles counted at junction in November 2022

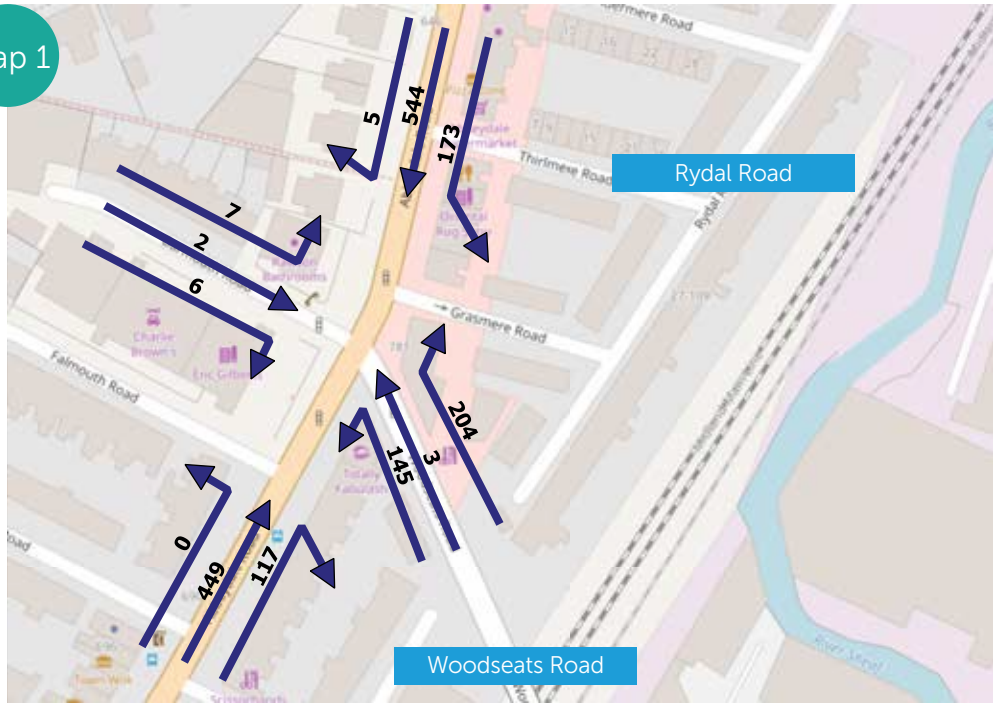
Number of motor vehicles: Woodseats Road / Abbeydale Road evening traffic count

We counted the number of motor vehicles at the junction of Woodseats Road and Abbeydale Road during the peak time of evening traffic, between 5pm and 6pm. Map 1 shows the number of vehicles counted during the survey in November 2021. Map 2 shows the number of vehicles counted during the survey in November 2022. The arrows show the direction of travel of the vehicles we counted.

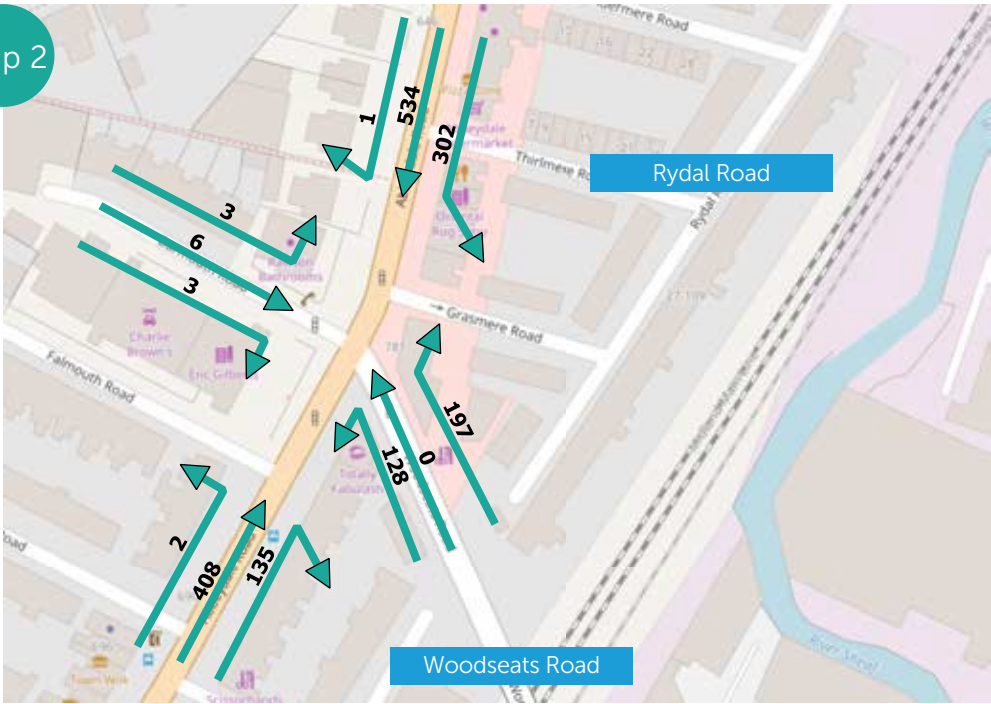
Number of motor vehicles travelling through the Woodseats Road / Abbeydale Road junction in the evening before the scheme (November 2021)

Number of motor vehicles travelling through the Woodseats Road / Abbeydale Road junction in the evening after the scheme (November 2022)

Map 1



Map 2



Key

➡ Direction and number of vehicles counted at junction in November 2021

Key

➡ Direction and number of vehicles counted at junction in November 2022

Woodseats Road / Abbeydale Road junction data table

We counted the number of motor vehicles passing in and out of one arm of the junction of Woodseats Road and Abbeydale Road over a 12 hour period throughout the day, in the morning traffic peak and in the evening traffic peak, before and after the Cycle Route measures were put in place.

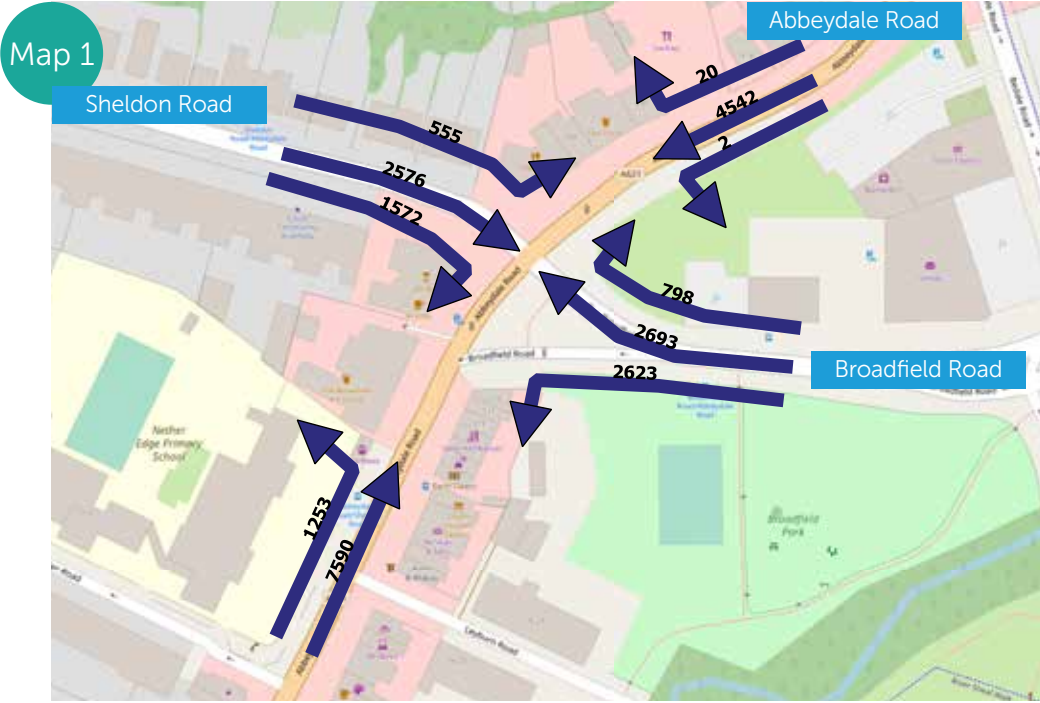
The table below shows these changes, both in the difference in motor vehicles counted, and the change as a percentage.

Woodseats Road - total number of motor vehicles counted passing through single arm of junction									
	12 hour before	12 hour after	% change	AM Before	AM After	% change	PM Before	PM After	% change
In	3061	3896	+27%	273	282	+3%	292	443	+52%
Out	3518	3315	-6%	333	194	-42%	352	325	-8%
Total	6579	7211	+10%	606	476	-21%	644	768	+19%

Number of motor vehicles: Abbeydale Road / Sheldon Road 12 hour count

We counted the number of motor vehicles at the junction of Abbeydale Road and Sheldon Road between 7am and 7pm. Map 1 shows the average number of vehicles counted during the surveys in May 2022. Map 2 shows the average number of vehicles counted during the surveys in May 2023. The arrows show the direction of travel of the vehicles we counted.

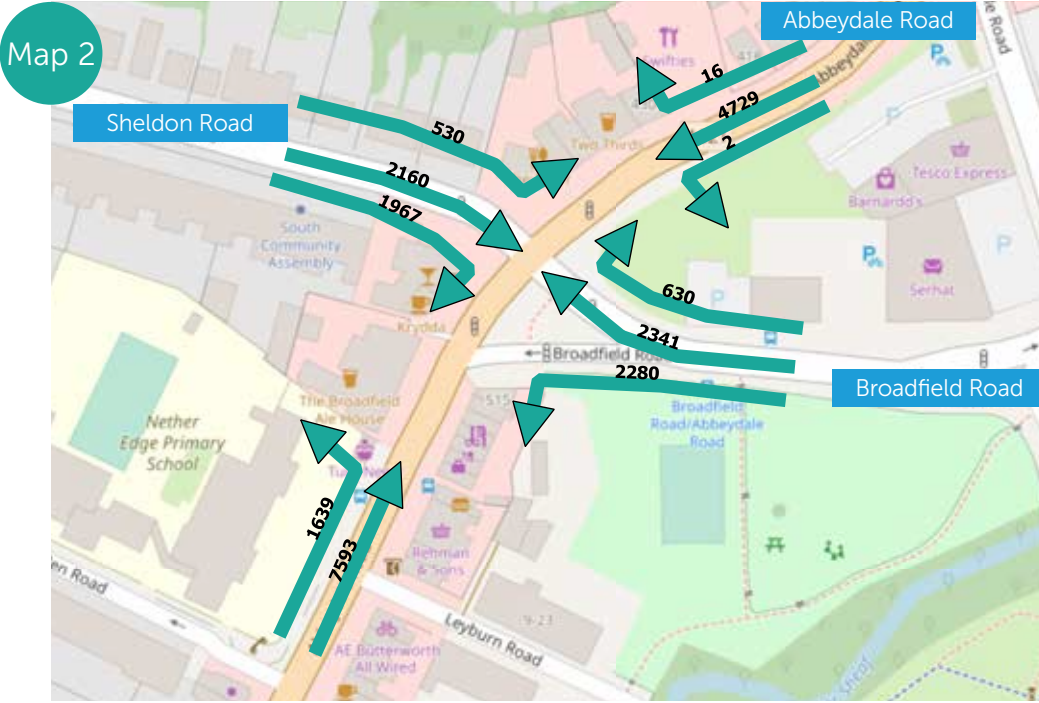
2 day average number of motor vehicles travelling through the Abbeydale Road / Sheldon Road junction before the scheme (May 2022)



Key

➡ Direction and number of vehicles counted at junction in May 2022

2 day average number of motor vehicles travelling through the Abbeydale Road / Sheldon Road junction after the scheme (May 2023)



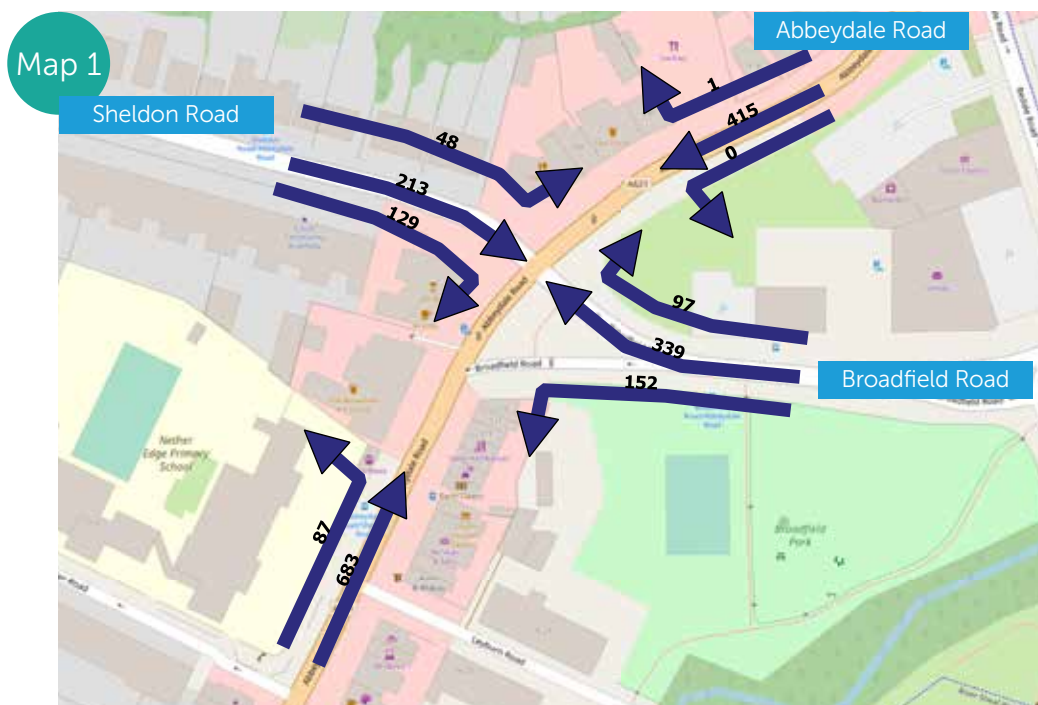
Key

➡ Direction and number of vehicles counted at junction in May 2023

Number of motor vehicles: Abbeydale Road / Sheldon Road morning traffic count

We counted the number of motor vehicles at the junction of Abbeydale Road and Sheldon Road, during the peak time of morning traffic, between 8am and 9am. Map 1 shows the average number of vehicles counted during the surveys in May 2022. Map 2 shows the average number of vehicles counted during the surveys in May 2023. The arrows show the direction of travel of the vehicles we counted.

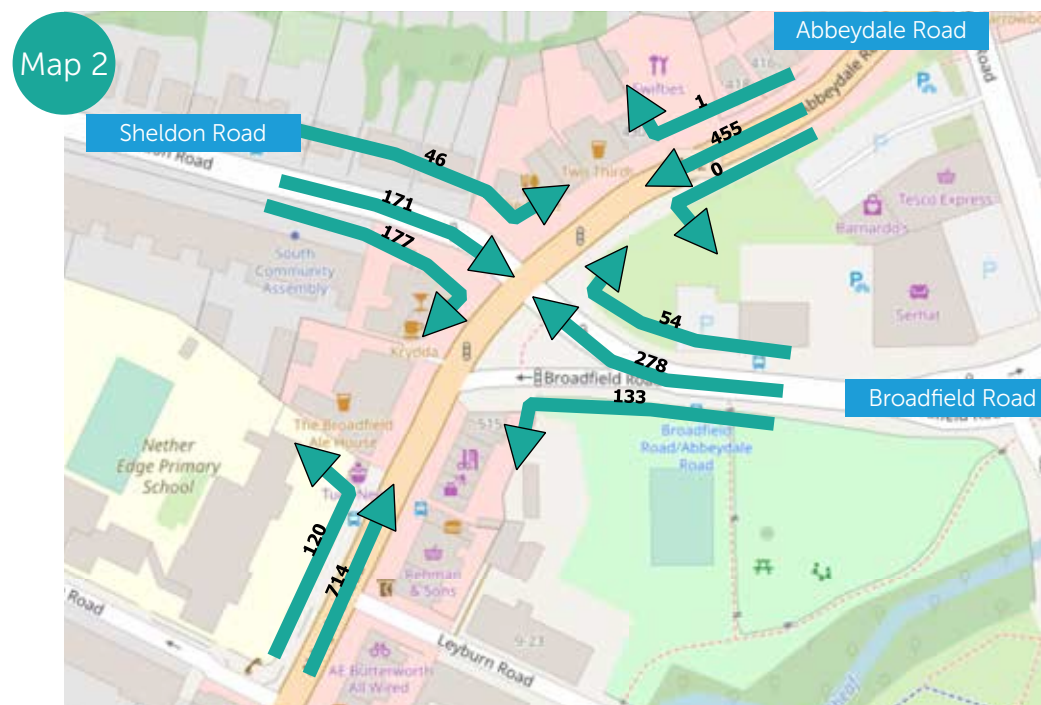
2 day average number of motor vehicles travelling through the Abbeydale Road / Sheldon Road junction in the mornings before the scheme (May 2022)



Key

➔ Direction and number of vehicles counted at junction in May 2022

2 day average number of motor vehicles travelling through the Abbeydale Road / Sheldon Road junction in the mornings after the scheme (May 2023)



Key

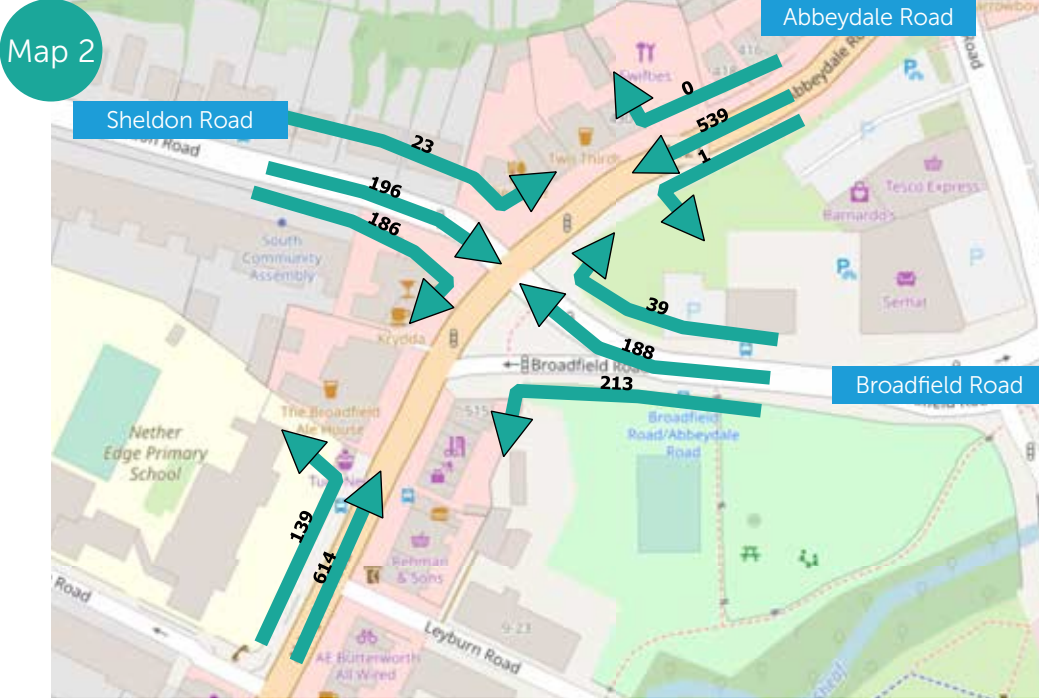
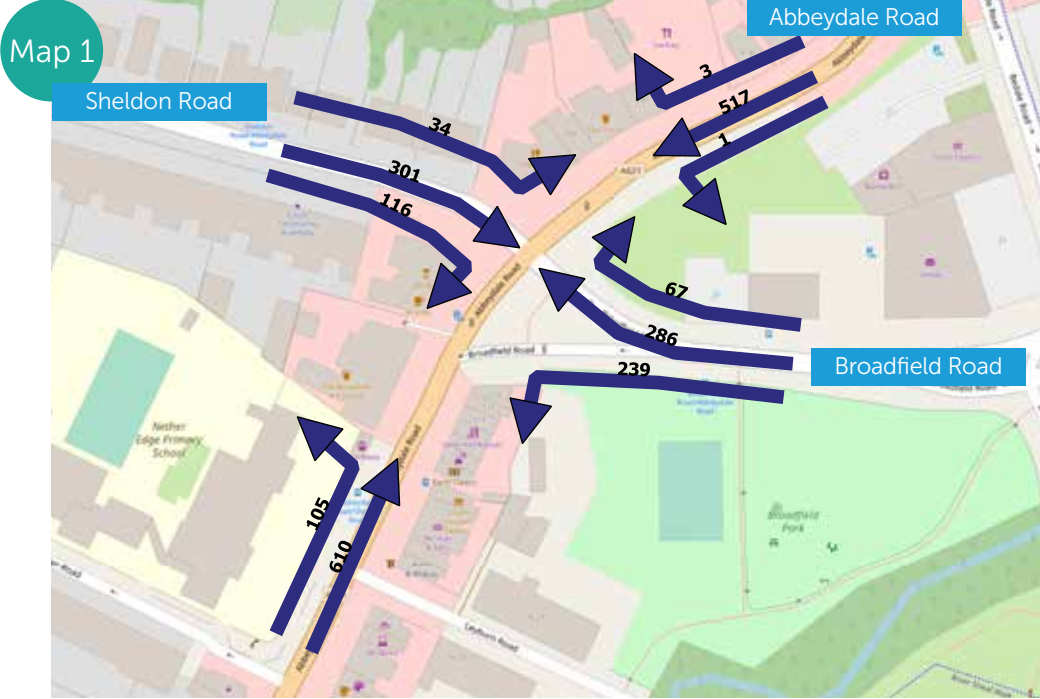
➔ Direction and number of vehicles counted at junction in May 2023

Number of motor vehicles: Abbeydale Road / Sheldon Road evening traffic count

We counted the number of motor vehicles at the junction of Abbeydale Road and Sheldon Road, during the peak time of evening traffic, between 5pm and 6pm. Map 1 shows the average number of vehicles counted during the surveys in May 2022. Map 2 shows the average number of vehicles counted during the surveys in May 2023. The arrows show the direction of travel of the vehicles we counted.

2 day average number of motor vehicles travelling through the Abbeydale Road / Sheldon Road junction in the evenings before the scheme (May 2022)

2 day average number of motor vehicles travelling through the Abbeydale Road / Sheldon Road junction in the evenings after the scheme (May 2023)



Key

Key

 Direction and number of vehicles counted at junction in May 2022

 Direction and number of vehicles counted at junction in May 2023

Abbeydale Road / Sheldon Road junction data table

We counted the average number of motor vehicles passing in and out of the Sheldon Road arm of the Abbeydale Road and Sheldon Road junction over a 12 hour period in the morning traffic peak and in the evening traffic peak, over two days before and after the Cycle Route measures were put in place.

The table below shows these changes, both in the difference in motor vehicles counted, and the change as a percentage.

Sheldon Road - average number of motor vehicles counted passing through arm of junction									
	12 hour before	12 hour after	% change	AM Before	AM After	% change	PM Before	PM After	% change
In	3966	3996	+1%	427	399	-7%	394	327	-17%
Out	4703	4657	-1%	390	394	+1%	451	405	-10%
Total	8669	8653	-<1%	817	793	-3%	845	732	-13%