

CONNECTING SHEFFIELD

Better travel choices

Journey Times –
Northumberland Road /
Springvale Road / School Road
Section 9 of 9

Crookes and Walkley Active Neighbourhood

Traffic Monitoring Data



Journey times: Northumberland Road / Springvale Road / School Road - Introduction

Alongside the traffic monitoring surveys, we also looked at journey time data sourced by The Flow, who specialise in black-box telematics data, to better understand motor vehicle movement in the Crookes and Walkley area. These surveys may be useful in supporting conclusions drawn from the wider traffic monitoring surveys.

Journey time data was taken from black-box equipped motor vehicles as they travelled along the route, before and after the Crookes and Walkley Active Neighbourhood measures were put in place.

Data was gathered over a period of 2-3 months on two separate occasions before and after the measures were put in place. The data gathering prior to the Active Neighbourhood coming into effect took place in September-November 2021 and March-April 2022, while the data gathering after the Active Neighbourhood changes came into effect took place in September-November 2022, and March-April 2023.

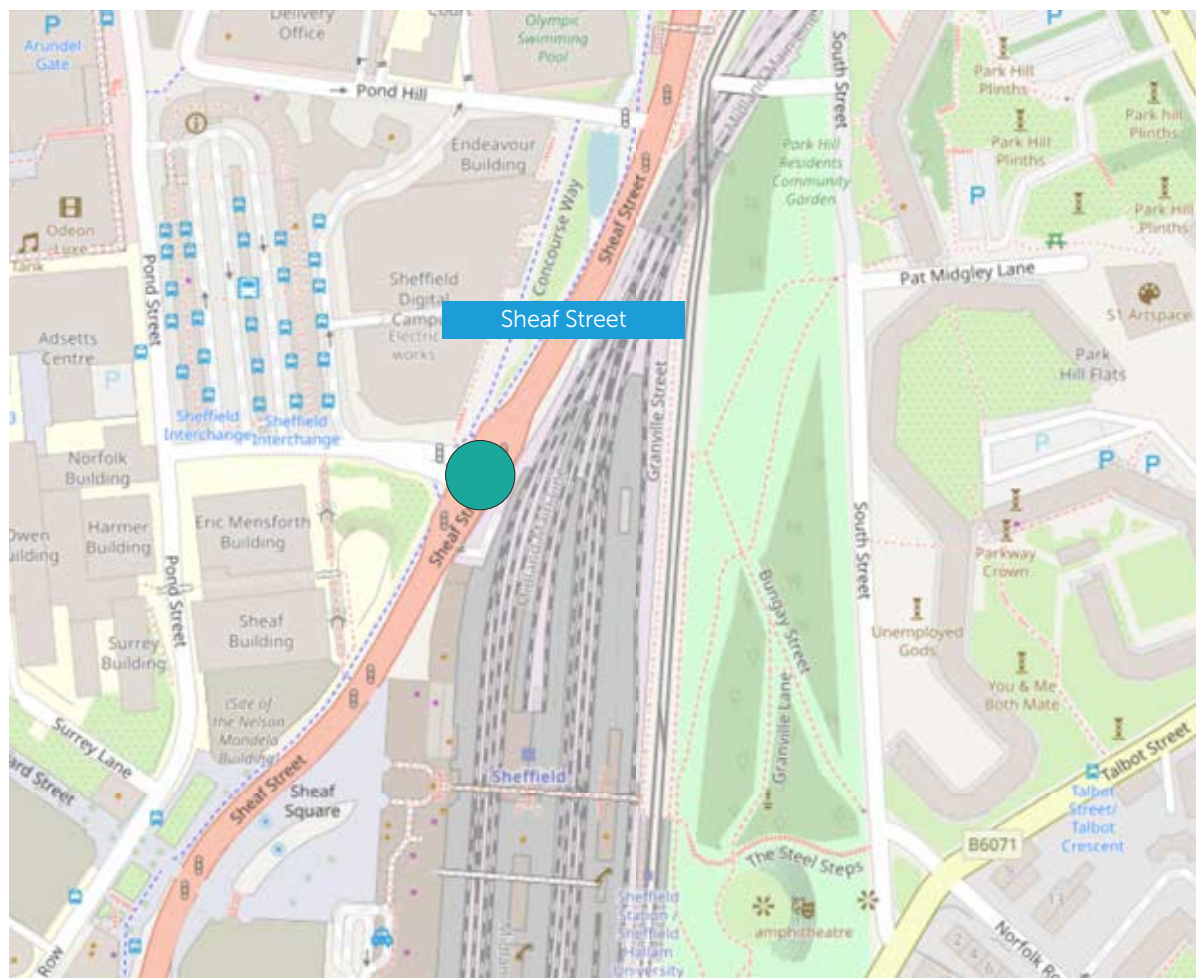
Journey time data is based on a sample of journeys along the route, presented in the maps below. As well as these average journey times, we also looked at the 10th and 90th percentile journey times from the sample. These have been defined as the 10% shortest journeys and 10% longest journeys for simplicity.

This is document 9 of 9, and provides an overview of the changes in journey times for motor vehicles travelling along Northumberland Road, Springvale Road and School Road.

Each route will be split into two slides, the first showing the map of the route, and the second showing the data in a table.

These documents have been created to illustrate changes in travel before and after the Crookes and Walkley Active Neighbourhood 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.

Change in motor vehicle count at city control site



We counted the number of motor vehicles passing through Sheaf Street before and after the implementation of the Active Neighbourhood.

Changes in motor vehicle traffic at a key central road or junction such as Sheaf Street are useful indicators of changes in motor vehicle trends on a city-wide level, serving as useful control test sites to compare local traffic trends with city-wide traffic trends.

We looked at the Sheaf Street control site again, taking 12 hour traffic counts here alongside the journey time surveying on Abbeydale Road, both before and after the Active Neighbourhood measures were put in.

Key

 Location of traffic control site on Sheaf Street

Control site –daily traffic counts taken at the same time periods as the journey time data

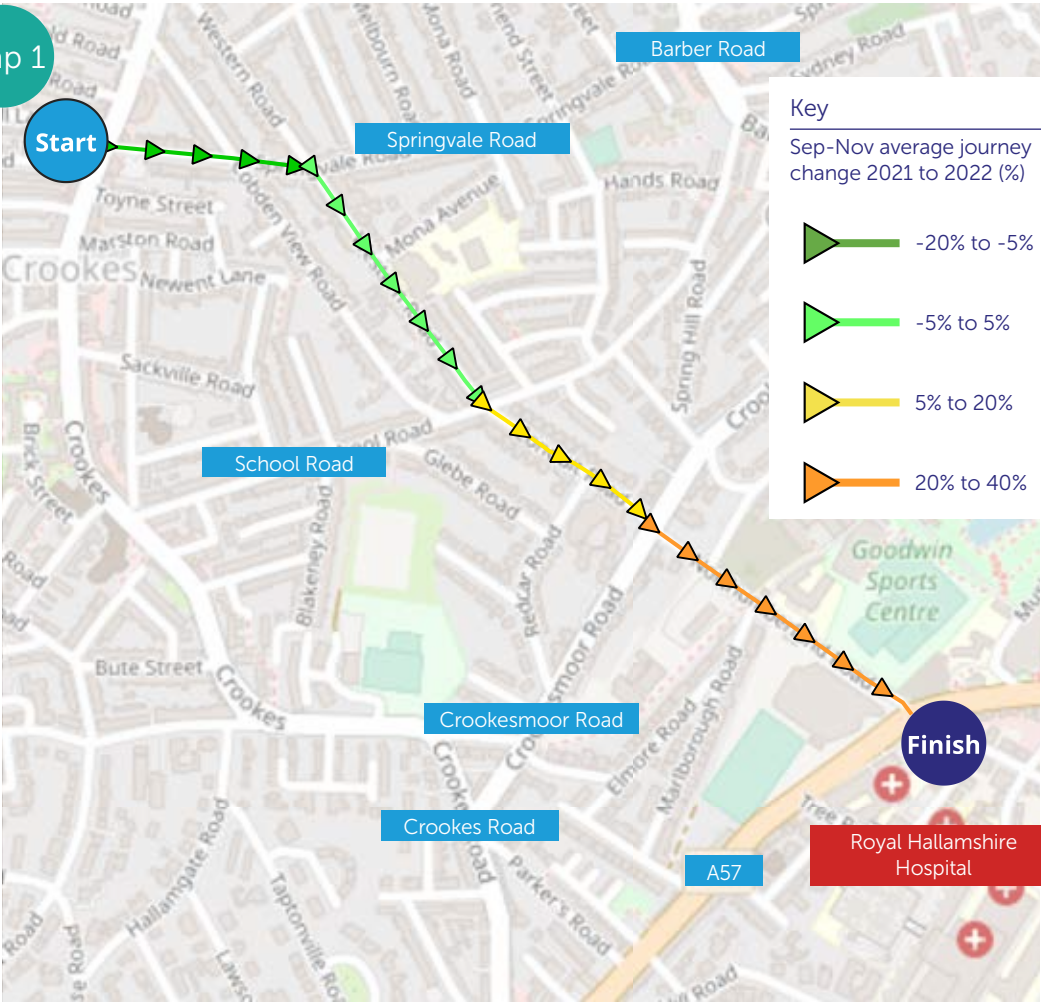
	Sep – Nov 2021	Sep – Nov 2022	% change	Mar – Apr 2022	Mar – Apr 2023	% change
Total	40,558	39,852	-2%	38,823	39,743	2%

Northumberland Road / Springvale Road southbound

September - November 2021 to 2022

March - April 2022 to 2023

Map 1



Sep - Nov 2021 avg total journey time (mm:ss)
Mapped Route - 03:01

Sep - Nov 2022 avg total journey time (mm:ss)
Mapped Route - 03:21 (**11% increase**)

Map 2



Mar - Apr 2022 avg total journey time (mm:ss)
Mapped Route - 03:00

Mar - Apr 2023 avg total journey time (mm:ss)
Mapped Route - 03:15 (**8% increase**)

*These maps show the change in journey times for vehicles travelling southbound on Northumberland Road and Springvale Road between September to November 2021 and 2022, and March to April 2022 and 2023. The arrows show changes to the average journey time at each stage of the route. Data and an explanation can be found on the next page.

Northumberland Road / Springvale Road southbound - Journey times

The change in journey times heading southbound on Northumberland Road and Springvale Road in September-November and March-April can be seen here. With the Active Neighbourhood measures coming into effect in May 2022, data from two separate month groups either side of the changes going into place has been analysed. This shows the change in journey times on southbound journeys on Northumberland Road and Springvale Road since the changes were implemented. Looking at two different month groups helps to mitigate potential margins of error arising from the impacts of seasonal variance on journey times.

We also looked at changes in the top 10% longest and the top 10% shortest journeys in order to see how travel times changed for the fastest and slowest journeys along the route.

The 10% shortest journey times also increased, increasing by 4% in the September-November month groups, and by 5% in the March-April month groups. The 10% longest journeys saw much more pronounced change, increasing by 17% in September-November and 18% in the March-April month groups.

The average journey time increased in both month groups, with journeys in the September-November months increasing by an average of 11% after the Active Neighbourhood measures were put in place, and 8% in the March-April months.

Journey time (mm:ss)	Sep-Nov 2021	Sep-Nov 2022	% change	Mar-Apr 2022	Mar-Apr 2023	% change
Average	03:01	03:21	+11%	03:00	03:15	+8%
10% shortest	02:17	02:23	+4%	02:19	02:26	+5%
10% longest	04:45	05:34	+17%	05:04	06:00	+18%

Northumberland Road / Springvale Road northbound

September - November 2021 to 2022

March - April 2022 to 2023

Map 1



Sep - Nov 2021 avg total journey time (mm:ss)
Mapped Route - 02:32

Sep - Nov 2022 avg total journey time (mm:ss)
Mapped Route - 02:52 (**7% increase**)

Map 2



Mar - Apr 2022 avg total journey time (mm:ss)
Mapped Route - 02:39

Mar - Apr 2023 avg total journey time (mm:ss)
Mapped Route - 02:36 (**2% decrease**)

*These maps show the change in journey times for vehicles travelling northbound on Northumberland Road and Springvale Road between September to November 2021 and 2022, and March to April 2022 and 2023. The arrows show changes to the average journey time at each stage of the route. Data and an explanation can be found on the next page.

Northumberland Road / Springvale Road northbound - Journey times

The change in journey times heading northbound on Northumberland Road and Springvale Road in September-November and March-April can be seen here. With the Active Neighbourhood measures coming into effect in May 2022, data from two separate month groups either side of the changes going into place has been analysed. This shows the change in journey times on northbound journeys on Northumberland Road and Springvale Road since the changes were implemented. Looking at two different month groups helps to mitigate potential margins of error arising from the impacts of seasonal variance on journey times.

We also looked at changes in the top 10% longest and the top 10% shortest journeys in order to see how travel times changed for the fastest and slowest journeys along the route.

The 10% shortest and 10% longest journeys saw similar results to the average time. The 10% shortest journey times increased by 1% in the September-November month groups, but decreased by 9% in the March-April month groups. The 10% longest journeys increased by 23% in September-November but decreased by 5% in the March-April month groups.

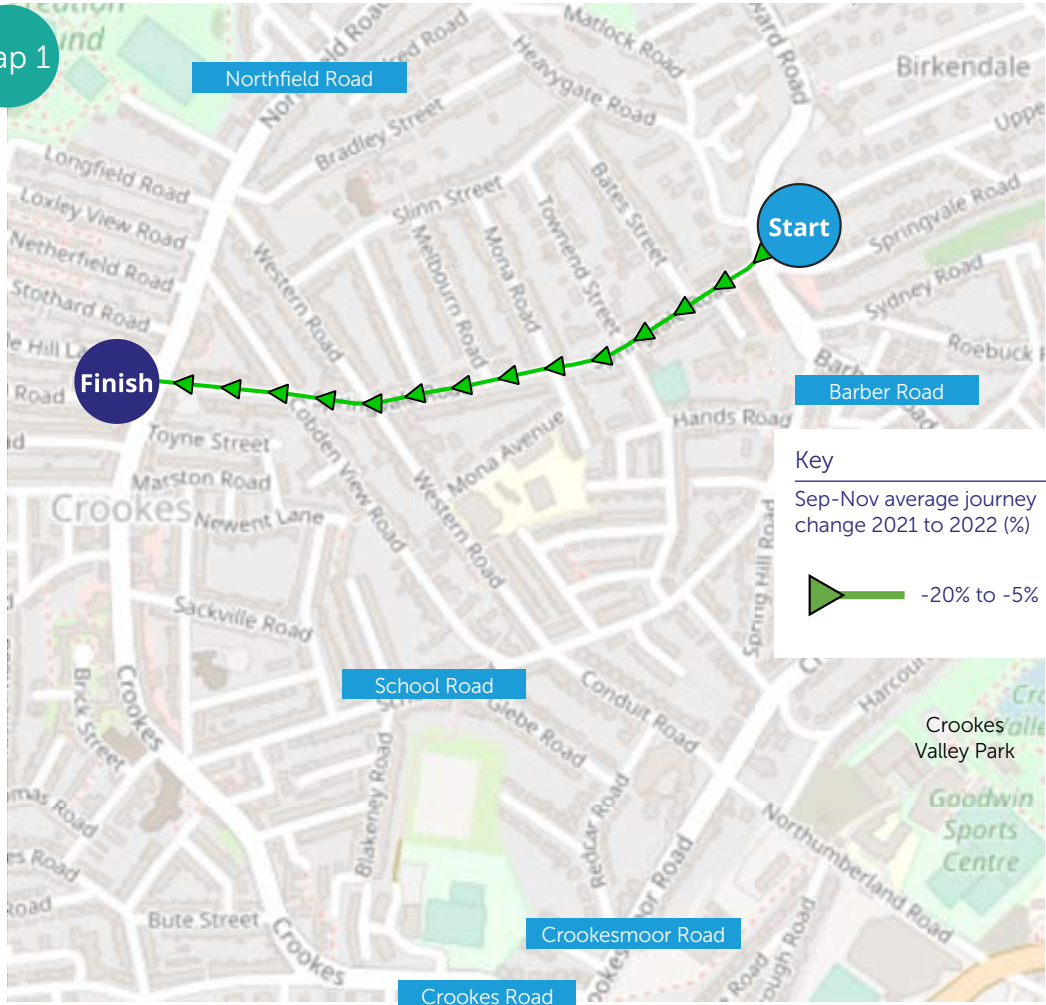
The journey times saw different changes in both month groups across the board. Average journey times in the September-November months increased by 7% after the Active Neighbourhood measures were put in place, while it decreased by 2% in the March-April months.

Journey time (mm:ss)	Sep-Nov 2021	Sep-Nov 2022	% change	Mar-Apr 2022	Mar-Apr 2023	% change
Average	02:32	02:52	+7%	02:39	02:36	-2%
10% shortest	02:12	02:13	+1%	02:10	01:58	-9%
10% longest	03:41	04:31	+23%	03:51	03:39	-5%

Springvale Road westbound

September - November 2021 to 2022

Map 1

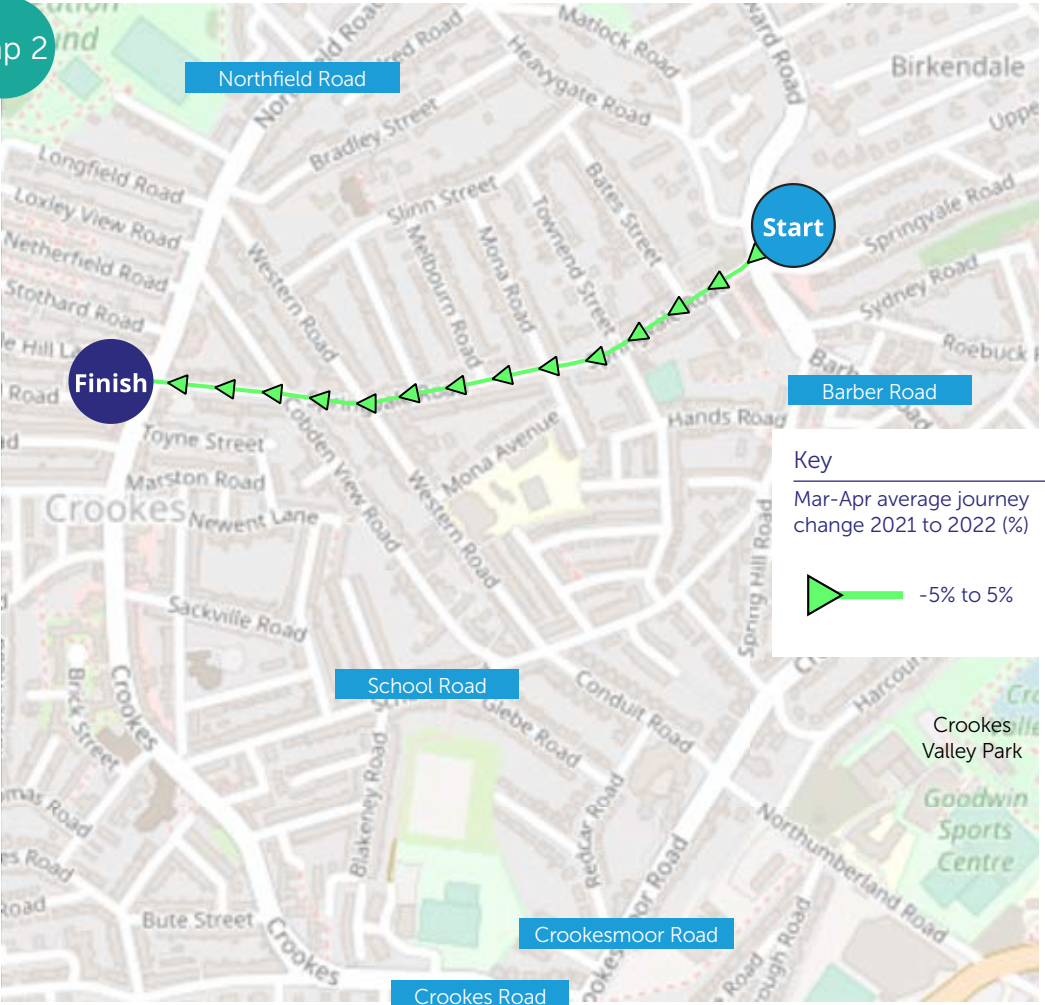


Sep - Nov 2021 avg total journey time (mm:ss)
Springvale Road - 01:33

Sep - Nov 2022 avg total journey time (mm:ss)
Springvale Road - 01:24 **(10% decrease)**

March - April 2022 to 2023

Map 2



Mar - Apr 2022 avg total journey time (mm:ss)
Springvale Road - 01:27

Mar - Apr 2023 avg total journey time (mm:ss)
Springvale Road - 01:24 **(3% decrease)**

*These maps show the change in journey times for vehicles travelling westbound on Springvale Road between September to November 2021 and 2022, and March to April 2022 and 2023. The arrows show changes to the average journey time at each stage of the route. Data and an explanation can be found on the next page.

Springvale Road westbound - Journey times

The change in journey times heading westbound on Springvale Road in September-November and March-April can be seen here. With the Active Neighbourhood measures coming into effect in May 2022, data from two separate month groups either side of the changes going into place has been analysed. This shows the change in journey times on westbound journeys on Springvale Road since the changes were implemented. Looking at two different month groups helps to mitigate potential margins of error arising from the impacts of seasonal variance on journey times.

The average journey time decreased in both month groups, with journeys in the September-November months decreasing by 10% after the Active Neighbourhood measures were put in place, and 3% in the March-April months.

We also looked at changes in the top 10% longest and the top 10% shortest journeys in order to see how travel times changed for the fastest and slowest journeys along the route.

The 10% shortest and 10% longest journey times also decreased, with the 10% shortest journeys falling by 5% in the September-November month groups, and by 6% in the March-April month groups. The 10% longest times decreased by 15% in September-November and 2% in the March-April month groups.

Journey time (mm:ss)	Sep-Nov 2021	Sep-Nov 2022	% change	Mar-Apr 2022	Mar-Apr 2023	% change
Average	01:33	01:24	-10%	01:27	01:24	-3%
10% shortest	01:14	01:10	-5%	01:10	01:06	-6%
10% longest	02:11	01:52	-15%	02:06	02:04	-2%

School Road eastbound

September - November 2021 to 2022

March - April 2022 to 2023

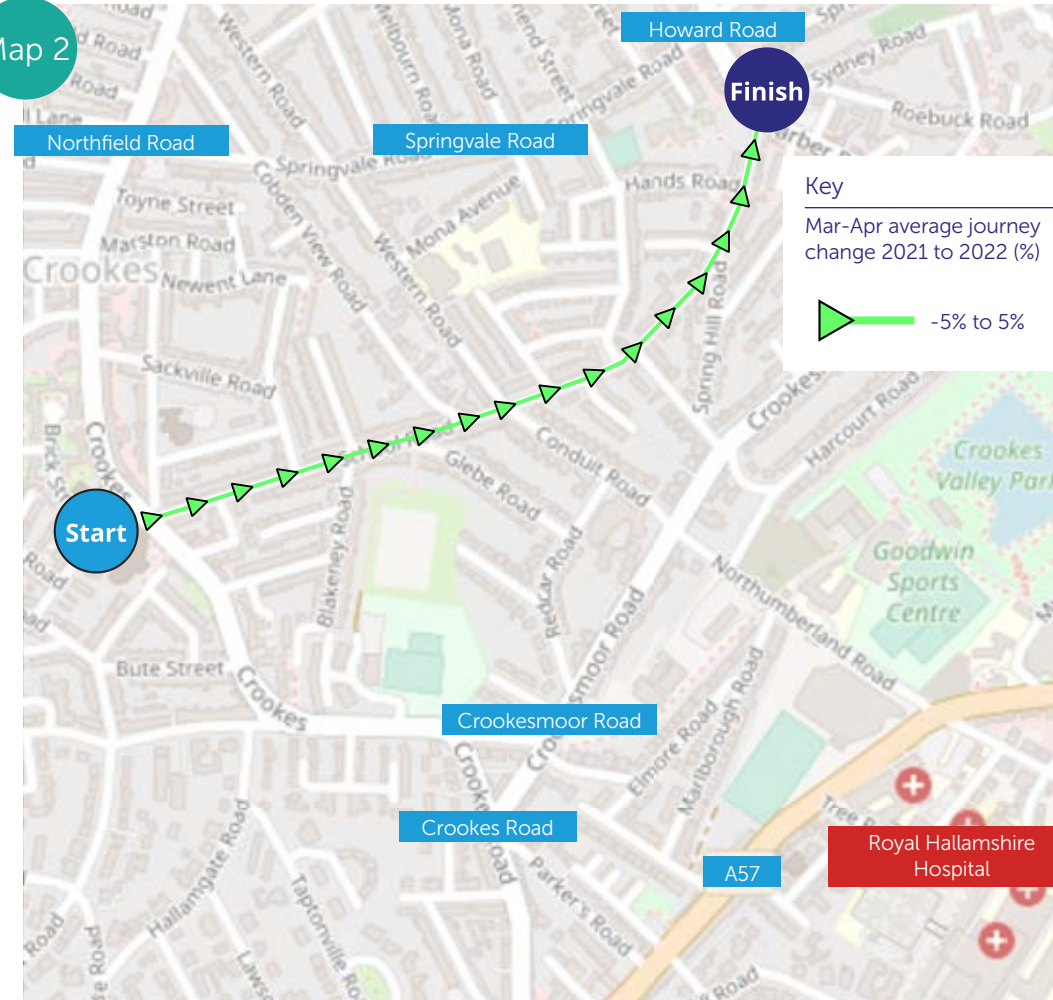
Map 1



Sep - Nov 2021 avg total journey time (mm:ss)
School Road - 01:57

Sep - Nov 2022 avg total journey time (mm:ss)
School Road - 02:01 (**3% increase**)

Map 2



Mar - Apr 2022 avg total journey time (mm:ss)
School Road - 02:00

Mar - Apr 2023 avg total journey time (mm:ss)
School Road - 02:00 (**No change**)

*These maps show the change in journey times for vehicles travelling eastbound on School Road between September to November 2021 and 2022, and March to April 2022 and 2023. The arrows show changes to the average journey time at each stage of the route. Data and an explanation can be found on the next page.

| School Road eastbound - Journey times

The change in journey times heading eastbound on School Road in September-November and March-April can be seen here. With the Active Neighbourhood measures coming into effect in May 2022, data from two separate month groups either side of the changes going into place has been analysed. This shows the change in journey times on eastbound journeys on School Road since the changes were implemented. Looking at two different month groups helps to mitigate potential margins of error arising from the impacts of seasonal variance on journey times.

The average journey time increased in the September-November months by 3% after the Active Neighbourhood measures were put in place, while journey times in the March-April months were unaffected by the measures.

We also looked at changes in the top 10% longest and the top 10% shortest journeys in order to see how travel times changed for the fastest and slowest journeys along the route.

The 10% shortest and 10% longest journey times both increased, with the 10% shortest journeys increasing by 10% in the September-November month groups, and by 9% in the March-April month groups. The 10th longest journey times increased by 18% in September-November and 25% in the March-April month groups.

Journey time (mm:ss)	Sep-Nov 2021	Sep-Nov 2022	% change	Mar-Apr 2022	Mar-Apr 2023	% change
Average	01:57	02:01	+3%	02:00	02:00	N/A
10% shortest	01:24	01:32	+10%	01:26	01:34	+9%
10% longest	02:43	03:13	+18%	02:46	03:28	+25%

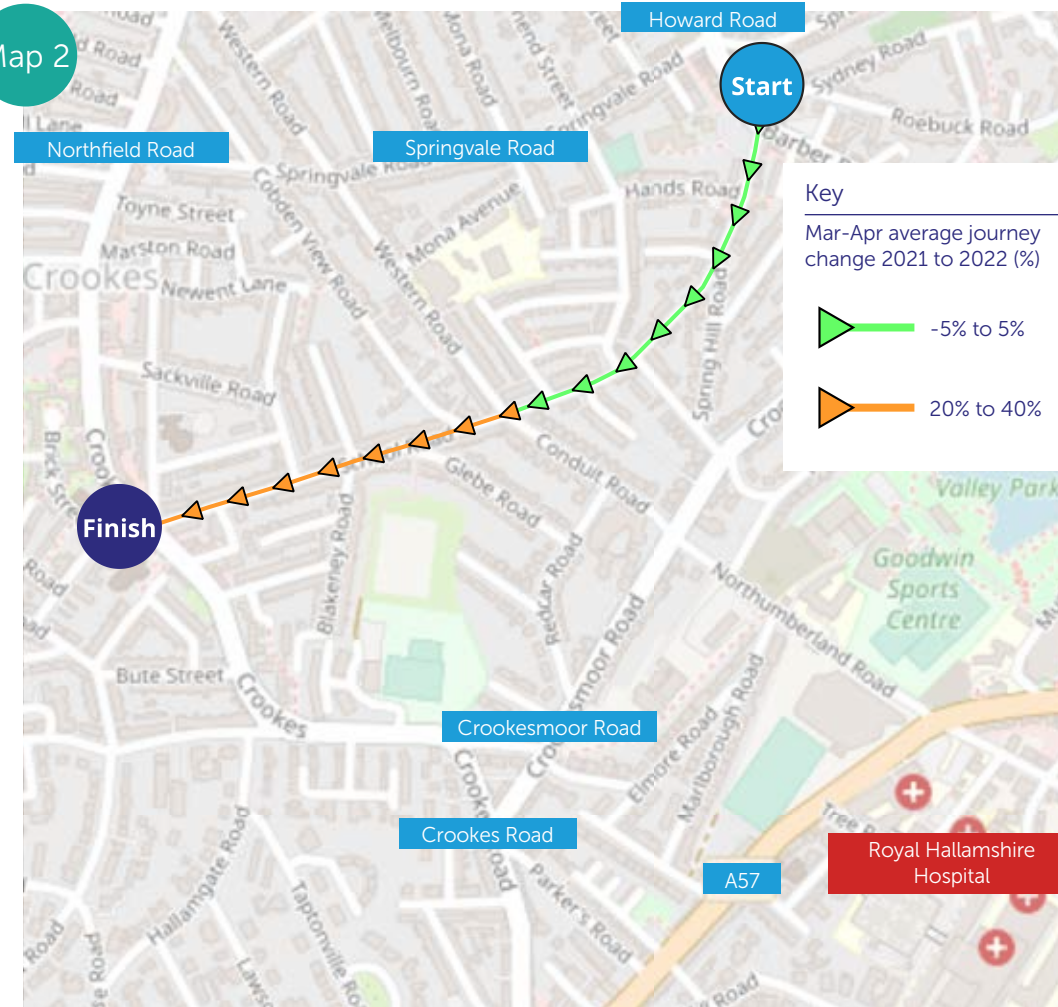
School Road westbound

September - November 2021 to 2022

March - April 2022 to 2023

Map 1

Map 2



Sep - Nov 2021 avg total journey time (mm:ss)
School Road - 02:00

Mar - Apr 2022 avg total journey time (mm:ss)
School Road - 01:50

Sep - Nov 2022 avg total journey time (mm:ss)
School Road - 01:54 (**5% decrease**)

Mar - Apr 2023 avg total journey time (mm:ss)
School Road - 02:04 (**13% increase**)

*These maps show the change in journey times for vehicles travelling westbound on School Road between September to November 2021 and 2022, and March to April 2022 and 2023. The arrows show changes to the average journey time at each stage of the route. Data and an explanation can be found on the next page.

School Road westbound - Journey times

The change in journey times heading westbound on School Road in September-November and March-April can be seen here. With the Active Neighbourhood measures coming into effect in May 2022, data from two separate month groups either side of the changes going into place has been analysed. This shows the change in journey times on westbound journeys on School Road since the changes were implemented. Looking at two different month groups helps to mitigate potential margins of error arising from the impacts of seasonal variance on journey times.

The average journey times fluctuated in these journeys, decreasing by 5% in the September-November months, while average journey times in the March-April months were 13% longer.

We also looked at changes in the top 10% longest and the top 10% shortest journeys in order to see how travel times changed for the fastest and slowest journeys along the route.

The 10% shortest journey times also fluctuated, with shortest journeys decreasing by 4% in the September-November month groups, and increasing by 15% in the March-April month groups. The 10% longest journey times decreased across the board, falling by 3% in both the September-November and March-April month groups.

Journey time (mm:ss)	Sep-Nov 2021	Sep-Nov 2022	% change	Mar-Apr 2022	Mar-Apr 2023	% change
Average	02:00	01:54	-5%	01:50	02:04	+13%
10% shortest	01:34	01:30	-4%	01:29	01:42	+15%
10% longest	02:37	02:33	-3%	02:36	02:32	-3%