



Project	A428 CCD
Job Number	5131840
Client	Cambridgeshire County Council
File	C:\Windows\ie\Templnt\fp578\Content.Outlook\YVKA2RYR\[Journey Time Forecasts - as issued.xlsm]

Overview of the spreadsheet (contents/purpose/objective)

Collates observed values for travel times and relative speeds on different infrastructure, to provide forecasts on PT journey times for each scheme.

The average journey time for each section has been calculated by dividing the section length over the average speed for a bus using that particular type of infrastructure.

Distances have been measured using OS maps, and are reported to the nearest 100m.

The average speed for urban highway has been determined from long term observed journey time data on the A1303 and Madingley Road. The average speed for urban bus lane and urban busway have been determined from observed journey time data in other corridors within Cambridge. The average speed for rural highway has been calculated from timings taken from the Citi4 bus timetable. For the section within Cambourne, bus speeds have been assumed to be comparable to those observed on a Cambridge radial bus lane in an urban environment. Rural busway speed has been assumed to be 60kph, though this will be dependent on the alignment and number of stops.

Version History

Version	Contents/Changes/Checks	Action	By	Date
1.00	Initial creation	Create	S.A	11/09/2015

Contents

Type	Worksheet	Description of contents/process
Output	Output	Summary table

Urban Section: Area 1

Average Speed (kph)

Urban Highway	13
Bus Lane	26
Urban Busway	36

1 North	Distance (km)	Speed (kph)	Time (min)
Urban Highway	1.2	13	00:05:28
Bus Lane	1.8	26	00:04:10
Urban Busway	2.6	36	00:04:19
Total	5.6		00:13:57

1 Central	Distance (km)	Speed (kph)	Time (min)
Urban Highway	1.1	13	00:04:55
Bus Lane	4.1	26	00:09:30
Urban Busway	0.0	36	00:00:00
Total	5.2		00:14:25

1 South	Distance (km)	Speed (kph)	Time (min)
Urban Highway	0.0	13	00:00:00
Bus Lane	0.0	26	00:00:00
Urban Busway	4.5	36	00:07:28
Total	4.5		00:07:28

Rural Section: Area 2

Average Speed (kph)

Highway	56 Citi 4 Timetable Speed
Within Cambourne	26
Rural Busway	60

2 North	Distance (km)	Speed (kph)	Time (min)
Highway	8.4	56	00:08:57
Within Cambourne	0.2	26	00:00:28
Rural Busway	0.0	60	00:00:00
Total	8.6		00:09:25

2 Central	Distance (km)	Speed (kph)	Time (min)
Highway	4.4	56	00:04:40
Within Cambourne	1.3	26	00:02:54
Rural Busway	3.4	60	00:03:24
Total	9.1		00:10:59

2 South	Distance (km)	Speed (kph)	Time (min)
Highway	0.0	56	00:00:00
Within Cambourne	1.3	26	00:02:54
Rural Busway	8.6	60	00:08:35
Total	9.8		00:11:29