

DUNDEE CITY SPACES FOR PEOPLE SURVEY REPORT 2020/21





DUNDEE COUNCIL AREA

MODE SHARE SURVEYS 2020/2021

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1. INTRODUCTION

1.1 Background

- 1.1.1 SYSTRA Ltd (SYSTRA) was commissioned by regional transport authority Tactran in June 2020 in response to the *Spaces for People* initiative, to undertake a comprehensive survey programme to capture changes in active travel behaviour and mode share as the people of Angus, Dundee, Perth & Kinross and Stirling change travel behaviours following the Covid-19 outbreak.
- 1.1.2 The results of the surveys will inform decisions on the benefits of the temporary infrastructure measures being brought forward by the four local authorities Dundee City Council, Perth & Kinross Council, Stirling Council and Angus Council.

1.2 Spaces for People

- 1.2.1 The *Spaces for People* programme is funded by the Scottish Government and managed by Sustrans Scotland. The aim of the initiative is to enable statutory bodies to implement measures focused on protecting public health by enabling pedestrians and cyclists to social distance safely on public roads physical distancing.
- 1.2.2 The initiative focuses on essential journeys, which might include:
 - O Journeys to and from hospitals and health services
 - Journeys to shops, pharmacies, schools, and other returning workplaces
 - Journeys for recommended exercise, for example neighbourhoods and local parks.
- 1.2.3 The measures being investigated by the authorities will provide temporary walking and cycling infrastructure that helps to protect public health by enabling safe physical distancing for essential journeys and exercise for everyone, in particular where there are space constraints or user safety concerns. The measures might include, but are not limited to:
 - Physical interventions
 - Selective road closures using planters or cones
 - Reallocating road space for wider footway
 - Reallocating road space for cycle tracks
 - Reallocating parking and loading
 - Reduced speed limits and/or traffic calming measures
 - Removal of barriers to open up constrained spaces and remove pinch points.
- 1.2.4 This Note details the traffic surveys undertaken in four phases between October 2020 and September 2021, and the mode share summary information for each location.

1.3 Spaces for People Schemes

1.3.1 A summary of Spaces for People schemes is shown in Table 1 below, categorised by phase and location.

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Table 1. Spaces for People - Scheme Summary

Spaces for People Phase	Area	Scheme Description
	Fintry	20 mph zone. Introduced July 2020 - Ongoing
SFP1 - Introduction of	Douglas	20 mph zone. Introduced July 2020 - Ongoing
20mph zones	West End (Perth Road)	20 mph zone. Introduced July 2020 - Ongoing
	Central Broughty Ferry	20 mph zone. Introduced July 2020 - Ongoing
SFP2 - Pedestrianisation and Placemaking	Dundee city centre	Pedestrianisation of Union Street and city centre placemaking. July 2020 - Ongoing
SFP3 - Modal Filters	Esplanade, Broughty Ferry	Closure to vehicular traffic, mid June 2020 - late October 2020, January to April 2021
or i o - modal i mero	Douglas Terrace, Broughty Ferry	June 2020 - Ongoing during flood defence construction
	Eliza Street.	TTRO for prohibition of driving and parking to create a Pedestrianised Zone in this no through road section - implemented May 2021.
SFP4 - District Centres	Craigie Street.	TTRO for prohibition of driving and parking to create a Pedestrianised Zone in this no through road section - implemented May 2021.
	Hilltown	Footway widening scheme - implemented July 2021
	Ninewells Avenue N/B	Segregated semi permanent cycle lane with orca separators. Reducing carriageway width.
SFP5 - Pop Up Cycle Lanes	Ninewells Avenue S/B	Widening of existing southbound footway to provide combined cycleway/footway.
Lanes	Perth Road (Ninewells Avenue - Harris Academy)	Combination of segregated cycleway and shared use of carriageway for motorised vehicles and cyclists with give and take arrangements in shared use sections
	Balgillo Road (deferred)	
	Drumgeith Park	
	Emmock Road	
	Finlathen Park A	Various improvement schemes including resurfacing
SFP6 - Green Circular	Finlathen Park	and widening on cycle route mainly remote from live
	Perth Road	carriageway.
	Tom Johnston Road (defered)	
	Whittle Place	
	Camperdown Phase 1	
	Camperdown Phase 2	
	West Grange Road	New footway link from Lawers Drive to existing cycleway/footway link adjacent to A92 Arbroath Road.
SFP7 - Connecting Schools and Communities	Gillburn Road (St Pauls PS)	New footway on south side from Derwent Avenue junction to bus stop opposite Ambleside Avenue to tie into the existing footway. Provision of new pedestrianised crossing facilities.
	Longhaugh Road	(Fintry Terrace to Findowrie Street) Widening of existing footway/cycleway to improve connections to the North East Campus which includes Longhaugh Primary and St Francis Primary School.
	St Leonards Road (St Andrews PS)	Reconstruct and widening the existing footway to 3.5m wide within the park opposite the school. Provision for a table top crossing at St Leonards Place to improve connections.

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2. DATA COLLATION

2.1 Overview of Traffic Surveys

- 2.1.1 A programme of traffic surveys for all the locations was undertaken by specialists Nationwide Data Collection (NDC).
- 2.1.2 The types of surveys undertaken in the Dundee area were:
 - Pedestrian Behaviour and volume counts
 - Link count and speed surveys
 - Classified Turning Counts (including cyclists & pedestrians)
 - Mode Share Counts.
- 2.1.3 The types of surveys undertaken in the Broughty Ferry area were:
 - Pedestrian Behaviour and volume counts
 - Link count and speed surveys.
- 2.1.4 Data was recorded over a 16 hour period (06:00-22:00) and analysis undertaken for the following time periods:

AM Peak Period -07:00 - 10:00
 Inter Peak Period -10:00 - 16:00
 PM Peak Period - 16:00 - 19:00.

2.1.5 The surveys were undertaken on the following dates:

October 2020 - Thursday 22nd to Saturday 24th October 2020
 February 2021 - Thursday 25th to Saturday 27th February 2021
 May 2021 - Thursday 11th to Saturday 13th May 2021
 September 2021 - Thursday 9th to Saturday 11th September 2021





2.2 Pedestrian Behaviour and Volume Counts

Dundee

- 2.2.1 Seven locations within Dundee were selected in discussion with Tactran for pedestrian volume counts and behaviour surveys. These are detailed below and in Figure 1:
 - Pedestrian 1 Perth Road (adjacent to shops near Step Row north side)
 - Pedestrian 2 Perth Road (adjacent to shops near Step Row south side)
 - Pedestrian 3 Perth Road (adjacent to Art School north side)
 - Pedestrian 4 Perth Road (adjacent to Art School south side)
 - Pedestrian 5 Perth Road (adjacent to Nethergate north side)
 - Pedestrian 6 Perth Road (adjacent to Nethergate south side)
 - Pedestrian 7 Union Street (between Nethergate and Dock Street)
- 2.2.2 Following discussion with TACTRAN, pedestrian behaviour analysis was only undertaken for the Union Street site in October 2020.
- 2.2.3 Two-directional classified link counts were carried out within the study section, to include both pedestrians and cyclists. Results were categorised as follows:
 - Pedestrians
 - Wheeled pedestrians (on scooters etc)
 - Pedal Cycles
 - Motorcycles
 - Cars/Taxis
 - LGVs
 - OGV1
 - OGV2
 - Service Buses
 - Private Coaches.

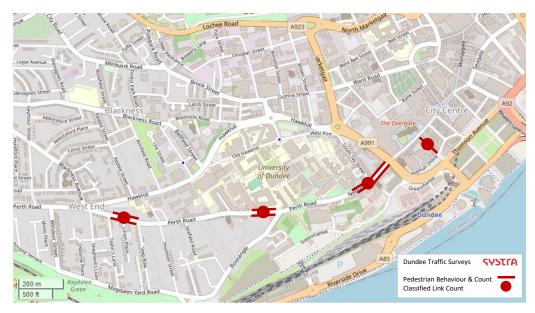


Figure 1. Pedestrian Surveys - Dundee

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2.3 Link Count Surveys

Dundee

- 2.3.1 Four locations within Dundee were selected for link count and speed survey over a seven day period. These are detailed below and in Figure 2:
 - Link Count 1 Perth Road (adjacent to shops near Step Row)
 - Link Count 2 Perth Road (adjacent to Art School)
 - Link Count 3 Perth Road (adjacent to Nethergate)
 - Link Count 4 Union Street (between Nethergate and Dock Street)

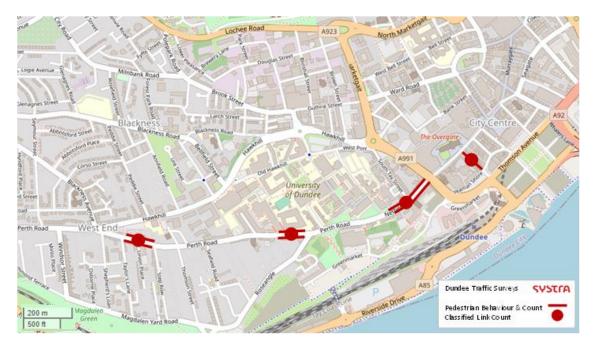


Figure 2. Link Count Surveys - Dundee





Broughty Ferry

- 2.3.2 One location within Broughty Ferry was selected for a link count and speed survey over a seven day period. This is detailed below and in Figure 3:
 - O Link 1 The Esplanade (circa 600m east of junction with Panmure Street)



Figure 3. Link Count Surveys – Broughty Ferry





2.4 Speed Surveys

Dundee

- 2.4.1 Seven locations within Dundee were selected for link count and speed surveys over a seven day period. These are detailed below and in Figures 4 6:
 - Speed 1 Perth Road (adjacent to shops near Step Row)
 - Speed 2 Perth Road (adjacent to Art School)
 - Speed 3 Perth Road (adjacent to Nethergate)
 - Speed 4 Findowrie Street (west of Findchapel Place)
 - Speed 5 Fintry Road (east of Finavon Terrace)
 - Speed 7 Balunie Drive around number 114
 - Speed 8 Ballindean Road (east of Ballindean Place)



Figure 4. Speed Count Surveys - Perth Rd - Dundee







Figure 5. Speed Count Surveys - Fintry - Dundee

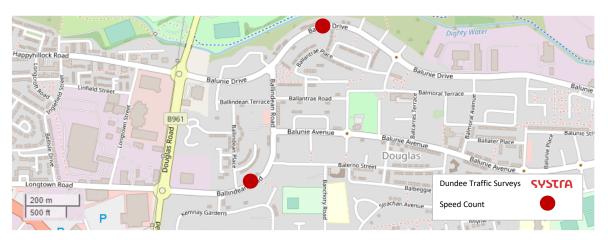


Figure 6. Speed Count Surveys - Douglas - Dundee

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Broughty Ferry

- 2.4.2 Three locations within Broughty Ferry were selected for a link count and speed survey over a seven day period. This is detailed below and in Figure 7:
 - Speed 1 The Esplanade (circa 600m east of junction with Panmure Street)
 - Speed 2 Brook Street (east of Gray Street)
 - Speed 3 King Street (west of Gray Street)



Figure 7. Speed Count Surveys – Broughty Ferry





2.5 Classified Link Counts

Dundee

- 2.5.1 16 locations within Dundee were selected for classified link counts. These are detailed below in Figure 8 and Figure 9. The mode share cordon counts were undertaken on the Thursday of each survey period between 06:00 and 22:00:
 - CC1 Tay Road Bridge Entering the city Including cyclists & pedestrians
 - O CC2 Victoria Road at the back of the Wellgate/bottom of the Hilltown
 - OC1 Broughty Ferry Road at Stannergate Road
 - OC2 Riverside Drive At the new crossing near Bridgeview Station/playing fields
 - OC3 Dundee Road Near Monymusk Park
 - OC4 Drumgeith Road Near the playing fields
 - OC5 Dundee Road at Kemback Street
 - OC6 Dundee Road at Albert Street
 - OC7 Albert Street at Raglan Street and Lyon Street
 - OC8 Pitkerro Road at Dalkeith Road and Stobsmuir Road
 - OC9 Old Glamis Road outside the college
 - OC10 Macalpine Road Near the Kingsway
 - OC11 Coupar Angus Road West of the north entrance at the cycle crossing
 - OC12 South Road between Tesco and the bottom of Arran Drive
 - OC13 Lochee Road near the entrance to Tullidelph Road
 - OC14 Ninewells Avenue Around Kinloch Park where the shared-use path enters the hospital

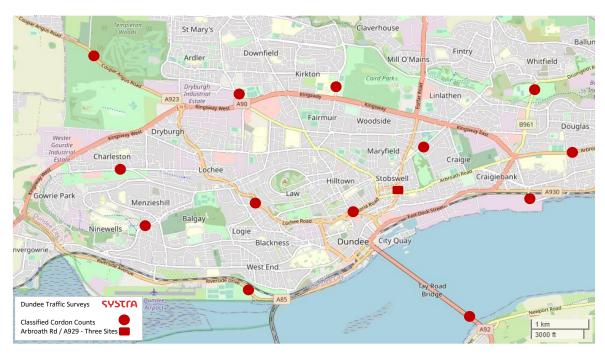


Figure 8. Classified Cordon Count Surveys – Dundee

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Figure 9. Classified Cordon Count Surveys – Dundee (Sites 5, 6 & 7)

- 2.5.2 At each site, link count data was collated into the following categories:
 - Pedestrians
 - Pedal Cycles
 - O Motorcycles
 - O Horses
 - Cars/Taxis
 - LGVs
 - OGV1
 - OGV2
 - Service Buses
 - Private Coaches.

2.6 Mode Share Surveys

Bus Occupancy Surveys

2.6.1 Bus occupancy counts were undertaken at all 16 sites shown in Figure 9, over the 16 hour period (06:00-22:00) on Wednesday 5th May 2021. Counts were undertaken in both directions.

Vehicle Occupancy Counts

2.6.2 Vehicle occupancy counts were undertaken at all 16 sites shown in Figure 9, over the 16 hour period (06:00-22:00) on Wednesday 5th May 2021. Counts were undertaken in both directions.

Rail Station Barrier Counts

2.6.3 Barrier counts were conducted at Dundee rail station over the 16 hour period (06:00-22:00) on Wednesday 5th May 2021 with pedestrian movements captured at the entrance/exit to the station.

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2.7 Summary

2.7.1 A summary of survey programme undertaken across the Dundee City Council area is given in Table 2 below.

Table 2. Traffic Survey Summary

	Survey Requirement	Oct-20	Feb-21	May-21	Sep-21
Dundee	Pedestrian Surveys	✓	✓	✓	✓
	Classified Link Counts	✓	✓	✓	✓
	Speed Surveys	✓	✓	✓	✓
	Cordon Link Counts	✓	✓	✓	✓
	Vehicle Occupancy Surveys			✓	
Broughty Ferry	Classified Link Counts	✓			
	Speed Surveys	✓	✓	✓	✓





3. PEDESTRIAN BEHAVIOUR AND VOLUME REVIEW

3.1 Pedestrian Behaviour Surveys

- 3.1.1 Summary tables below present the results of the pedestrian behaviour surveys in the Dundee City Council area.
- 3.1.2 Following discussion with TACTRAN analysis was undertaken for the following sites in October 2020 only:
 - Pedestrian 5 Perth Road (adjacent to Nethergate west side)
 - Pedestrian 6 Perth Road (adjacent to Nethergate east side)
 - Pedestrian 7 Union Street (between Nethergate and Dock Street east side)
 - Pedestrian 8 Union Street (between Nethergate and Dock Street west side)

3.2 Pedestrian Volume Surveys

- 3.2.1 Seven locations within Dundee were selected in discussion with TACTRAN for pedestrian volume surveys:
 - Pedestrian 1 Perth Road (adjacent to shops near Step Row north side)
 - Pedestrian 2 Perth Road (adjacent to shops near Step Row south side)
 - Pedestrian 3 Perth Road (adjacent to Art School north side)
 - Pedestrian 4 Perth Road (adjacent to Art School south side)
 - Pedestrian 5 Perth Road (adjacent to Nethergate north side)
 - Pedestrian 6 Perth Road (adjacent to Nethergate south side)
 - Pedestrian 7 Union Street (between Nethergate and Dock Street east side)
 - Pedestrian 8 Union Street (between Nethergate and Dock Street west side)
- 3.2.2 One location within Broughty Ferry was surveyed in October 2020 only:
 - The Esplanade (circa 600m east of junction with Panmure Street)

3.3 Results of Pedestrian Behaviour Surveys

Dundee

3.3.1 Table 3 below presents the results of the pedestrian behaviour data on the west side of Perth Road, adjacent to Nethergate in Dundee.





Table 3. Perth Road adjacent to Nethergate (west side) Pedestrian Behaviour Summary



3.3.2 Table 3 shows that on the west side of Perth Road, adjacent to the Nethergate, on average 54% of pedestrians across the 3 days did not conflict with oncoming pedestrians, whilst 45% passed on the footpath with a space of 2m or less. The remaining 1% passed with a space over 2m.

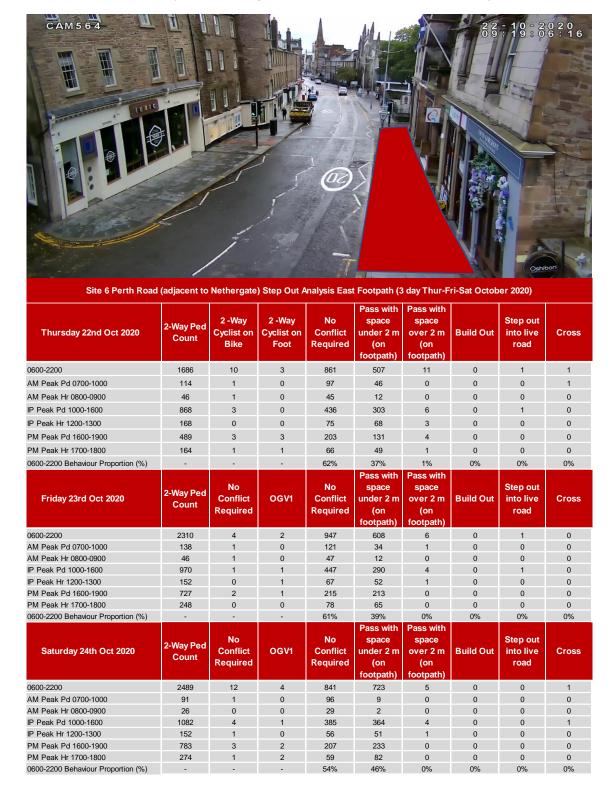
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3.3.3 Table 4 below presents the results of the pedestrian behaviour data on the east side of Perth Road, adjacent to Nethergate in Dundee

Table 4. Perth Road adjacent to Nethergate (east side) Pedestrian Behaviour Summary



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- 3.3.4 Table 4 shows that on the east side of Perth Road, adjacent to the Nethergate, on average 59% of pedestrians across the 3 days did not conflict with oncoming pedestrians, whilst 41% passed on the footpath with a space of 2m or less.
- 3.3.5 Table 5 below presents the results of the pedestrian behaviour data on the east side of Union Street in Dundee, which was pedestrianised at the start of the pandemic.





Table 5. Union Street (east side)Pedestrian Behaviour Summary



3.3.6 Table 5 shows that on the east side of Union Street, on average 53% of pedestrians across the 3 days did not conflict with oncoming pedestrians, whilst 43% passed on the footpath with a space of 2m or less. The remaining 4% either passed within a space over 2m or stepped out into the carriageway.

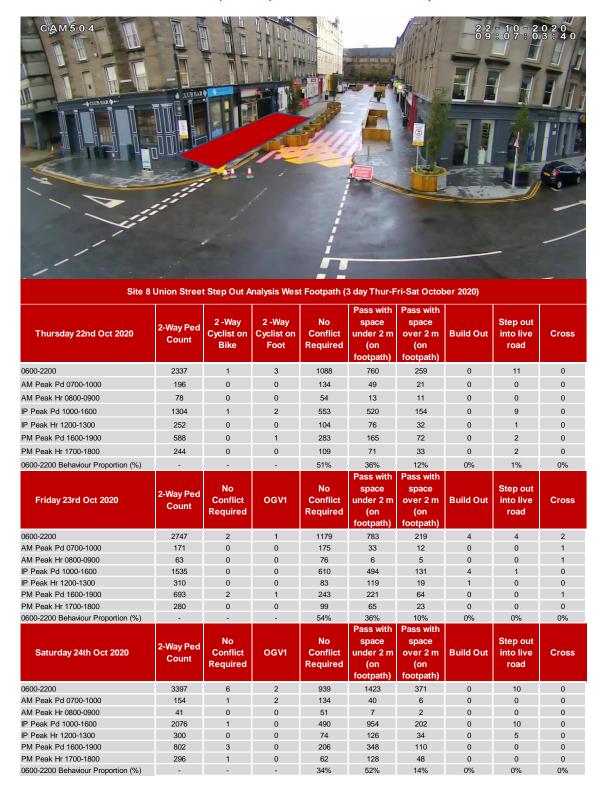
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3.3.7 Table 6 below presents the results of the pedestrian behaviour data on the west side of Union Street in Dundee, which was pedestrianised at the start of the pandemic.

Table 6. Union Street (west side) Pedestrian Behaviour Summary



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3.3.8 Table 6 shows that on the west side of Union Street, on average 46% of pedestrians across the 3 days did not conflict with oncoming pedestrians, whilst 41% passed on the footpath with a space of 2m or less. The remaining 13% either passed within a space over 2m or stepped out into the carriageway.

3.4 Results of Pedestrian Volume Surveys

Dundee

3.4.1 Table 7 below presents the results of the pedestrian volume data on the north side of Perth Road, adjacent to the shops near Step Row in Dundee during each of the four survey periods.





Table 7. Perth Road, Dundee, adjacent to shops near Step Row (north footpath) Pedestrian Volume Summary



ne Pla	(0)	[29]	U	21	ane	4244 444 541	School	Sealic	
Site 1 Perth Rd (Step Row) North Kerbside (3 day Average Thur - Fri - Sat)									
October 2020	Adult	Adult & Child	Child	Elderly	Disabled	Pavement Cyclist on Bike	Pavement Cyclist on Foot	Horses	Total
0600 - 2200 Eastbound	689	43	33	3	3	2	1	0	774
0600 - 2200 Westbound	700	82	24	2	1	5	2	0	815
AM Peak Pd 0700-1000 Eastbound	64	26	9	0	0	0	0	0	100
AM Peak Pd 0700-1000 Westbound	51	3	4	0	0	0	0	0	58
IP Peak Pd 1000-1600 Eastbound	412	16	23	2	1	1	1	0	456
IP Peak Pd 1000-1600 Westbound	364	69	17	2	1	2	0	0	454
PM Peak Pd 1600-1900 Eastbound	147	1	0	0	1	1	1	0	151
PM Peak Pd 1600-1900 Westbound	196	9	3	0	0	2	2	0	211
February 2021	Adult	Adult & Child	Child	Elderly	Disabled	Pavement Cyclist on Bike	Pavement Cyclist on Foot	Horses	Total
0600 - 2200 Eastbound	502	63	3	2	5	2	2	0	578
0600 - 2200 Westbound	593	79	3	1	5	2	0	0	683
AM Peak Pd 0700-1000 Eastbound	47	42	1	1	1	0	0	0	93
AM Peak Pd 0700-1000 Westbound	60	3	0	0	1	0	0	0	64
IP Peak Pd 1000-1600 Eastbound	316	18	1	1	2	1	1	0	341
IP Peak Pd 1000-1600 Westbound	346	75	2	0	3	0	0	0	427
PM Peak Pd 1600-1900 Eastbound	95	2	0	0	1	1	0	0	100
PM Peak Pd 1600-1900 Westbound	138	1	1	0	1	1	0	0	141
May 2021	Adult	Adult & Child	Child	Elderly	Disabled	Pavement Cyclist on Bike	Pavement Cyclist on Foot	Horses	Total
0600 - 2200 Eastbound	579	50	21	5	2	1	1	0	659
0600 - 2200 Westbound	567	83	26	3	1	1	1	0	684
AM Peak Pd 0700-1000 Eastbound	77	33	5	1	0	0	0	0	116
AM Peak Pd 0700-1000 Westbound	56	4	2	0	0	0	0	0	63
IP Peak Pd 1000-1600 Eastbound	351	15	14	2	2	1	0	0	384
IP Peak Pd 1000-1600 Westbound	332	64	22	1	1	0	1	0	420
PM Peak Pd 1600-1900 Eastbound	85	1	2	1	0	0	0	0	91
PM Peak Pd 1600-1900 Westbound	114	15	3	2	0	0	0 Devement	0	135
September 2021	Adult	Adult & Child	Child	Elderly	Disabled	Pavement Cyclist on Bike	Pavement Cyclist on Foot	Horses	Total
0600 - 2200 Eastbound	659	47	27	2	4	4	2	0	746
0600 - 2200 Westbound	584	101	19	2	2	2	1	0	711
AM Peak Pd 0700-1000 Eastbound	63	30	11	0	1	0	0	0	106
AM Peak Pd 0700-1000 Westbound	60	4	2	0	0	0	0	0	66
IP Peak Pd 1000-1600 Eastbound	356	14	15	1	2	2	1	0	390
IP Peak Pd 1000-1600 Westbound	278	80	14	1	2	1	1	0	377
PM Peak Pd 1600-1900 Eastbound	131	1	1	0	2	2	0	0	138
PM Peak Pd 1600-1900 Westbound	147	14	3	0	1	0	1	0	166

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- 3.4.2 Table 7 shows that the lowest pedestrian flows were observed in February 2021. The highest volume of pedestrians were observed in October 2021 in both eastbound and westbound directions.
- 3.4.3 Table 8 below presents the results of the pedestrian volume data on the south side of Perth Road, adjacent to the shops near Step Row in Dundee during each of the four survey periods.





Table 8. Perth Road, Dundee, adjacent to shops near Step Row (south footpath) Pedestrian Volume Summary



nerd)	(0)	29	U	21	ane	1 Str	School	Sealie	
Site 2 Perth Rd (Step Row) South Kerbside (3 day Average Thur - Fri - Sat)									
October 2020	Adult	Adult & Child	Child	Elderly	Disabled	Pavement Cyclist on Bike	Pavement Cyclist on Foot	Horses	Total
0600 - 2200 Eastbound	1238	47	49	3	3	3	1	0	1345
0600 - 2200 Westbound	1225	37	42	5	2	4	1	0	1315
AM Peak Pd 0700-1000 Eastbound	93	4	3	1	1	1	0	0	102
AM Peak Pd 0700-1000 Westbound	96	4	6	1	0	0	0	0	108
IP Peak Pd 1000-1600 Eastbound	631	36	45	1	1	0	1	0	715
IP Peak Pd 1000-1600 Westbound	564	23	33	2	2	1	1	0	625
PM Peak Pd 1600-1900 Eastbound	312	7	2	1	0	1	1	0	323
PM Peak Pd 1600-1900 Westbound	347	8	2	2	0	1	0	0	361
February 2021	Adult	Adult & Child	Child	Elderly	Disabled	Pavement Cyclist on Bike	Pavement Cyclist on Foot	Horses	Total
0600 - 2200 Eastbound	1140	37	2	3	5	2	2	0	1192
0600 - 2200 Westbound	1108	38	3	5	3	2	4	0	1164
AM Peak Pd 0700-1000 Eastbound	96	3	0	1	0	0	0	0	100
AM Peak Pd 0700-1000 Westbound	74	3	0	1	0	0	0	0	78
IP Peak Pd 1000-1600 Eastbound	567	30	1	1	3	1	2	0	606
IP Peak Pd 1000-1600 Westbound	548	25	3	4	2	1	3	0	585
PM Peak Pd 1600-1900 Eastbound	313	3	1	1	2	1	0	0	321
PM Peak Pd 1600-1900 Westbound	335	10	1	0	1	0	1	0	348
May 2021	Adult	Adult & Child	Child	Elderly	Disabled	Pavement Cyclist on Bike	Pavement Cyclist on Foot	Horses	Total
0600 - 2200 Eastbound	1050	41	80	6	4	4	2	0	1187
0600 - 2200 Westbound	971	45	59	6	2	5	2	0	1090
AM Peak Pd 0700-1000 Eastbound	101	8	1	1	0	0	0	0	111
AM Peak Pd 0700-1000 Westbound	92	5	9	1	0	0	0	0	106
IP Peak Pd 1000-1600 Eastbound	525	23	76	4	2	1	0	0	632
IP Peak Pd 1000-1600 Westbound	447	21	47	4	1	1	1	0	521
PM Peak Pd 1600-1900 Eastbound	223	8	2	0	1	1	1	0	236
PM Peak Pd 1600-1900 Westbound	232	15	3	1	1	2	0	0	255
September 2021	Adult	Adult & Child	Child	Elderly	Disabled	Pavement Cyclist on Bike	Pavement Cyclist on Foot	Horses	Total
0600 - 2200 Eastbound	1201	48	63	3	5	1	0	0	1322
0600 - 2200 Westbound	1091	43	37	3	6	2	1	0	1182
AM Peak Pd 0700-1000 Eastbound	114	7	3	1	1	0	0	0	126
AM Peak Pd 0700-1000 Westbound	101	4	10	0	0	0	0	0	116
IP Peak Pd 1000-1600 Eastbound	579	26	59	2	3	0	0	0	670
IP Peak Pd 1000-1600 Westbound	512	24	25	2	3	0	1	0	567
PM Peak Pd 1600-1900 Eastbound	280	11	1	0	1	0	0	0	294
PM Peak Pd 1600-1900 Westbound	275	8	2	1	1	1	0	0	287

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- 3.4.4 Table 8 shows that the lowest flows were observed in May 2021, and the highest flow in both directions was in October 2020.
- 3.4.5 Table 9 below presents the results of the pedestrian volume data on the north side of Perth Road, adjacent to the Art School in Dundee during each of the four survey periods.





Table 9. Perth Road, Dundee, adjacent to Art School (north footpath) Pedestrian Volume Summary



Site 3 i	Site 3 Pertri Rd (adjacent to Art School) North Reroside (3 day Average nur - Pri - Sat)								
October 2020	Adult	Adult & Child	Child	Elderly	Disabled	Pavement Cyclist on Bike	Pavement Cyclist on Foot	Horses	Total
0600 - 2200 Eastbound	872	19	8	0	2	3	1	0	905
0600 - 2200 Westbound	811	10	5	0	0	4	1	0	832
AM Peak Pd 0700-1000 Eastbound	88	5	4	0	0	0	0	0	98
AM Peak Pd 0700-1000 Westbound	46	3	1	0	0	1	0	0	51
IP Peak Pd 1000-1600 Eastbound	497	9	3	0	1	1	1	0	511
IP Peak Pd 1000-1600 Westbound	398	4	3	0	0	2	0	0	407
PM Peak Pd 1600-1900 Eastbound	213	5	0	0	1	2	0	0	221
PM Peak Pd 1600-1900 Westbound	242	3	2	0	0	1	1	0	249

February 2021	Adult	Adult & Child	Child	Elderly	Disabled	Pavement Cyclist on Bike	Pavement Cyclist on Foot	Horses	Total
0600 - 2200 Eastbound	525	11	5	1	0	6	0	0	548
0600 - 2200 Westbound	521	12	1	3	0	4	0	0	540
AM Peak Pd 0700-1000 Eastbound	64	0	1	0	0	0	0	0	65
AM Peak Pd 0700-1000 Westbound	33	1	0	0	0	0	0	0	34
IP Peak Pd 1000-1600 Eastbound	320	9	3	1	0	5	0	0	339
IP Peak Pd 1000-1600 Westbound	297	6	0	2	0	1	0	0	307
PM Peak Pd 1600-1900 Eastbound	100	1	1	0	0	1	0	0	104
PM Peak Pd 1600-1900 Westbound	135	5	0	1	0	3	0	0	143
						Pavement	Pavement		

May 2021	Adult	Adult & Child	Child	Elderly	Disabled	Pavement Cyclist on Bike	Pavement Cyclist on Foot	Horses	Total
0600 - 2200 Eastbound	667	19	10	1	1	4	1	0	702
0600 - 2200 Westbound	564	8	8	1	1	4	2	0	588
AM Peak Pd 0700-1000 Eastbound	93	4	2	0	0	0	0	0	99
AM Peak Pd 0700-1000 Westbound	47	0	0	0	0	1	0	0	49
IP Peak Pd 1000-1600 Eastbound	382	10	6	1	1	2	0	0	401
IP Peak Pd 1000-1600 Westbound	299	5	6	1	1	1	1	0	313
PM Peak Pd 1600-1900 Eastbound	118	4	2	0	0	1	0	0	127
PM Peak Pd 1600-1900 Westbound	123	4	2	0	0	2	0	0	130
						Pavement	Pavement		

September 2021	Adult	Adult & Child	Child	Elderly	Disabled	Pavement Cyclist on Bike	Pavement Cyclist on Foot	Horses	Total
0600 - 2200 Eastbound	718	12	11	1	0	3	1	0	746
0600 - 2200 Westbound	605	9	4	0	1	1	1	0	622
AM Peak Pd 0700-1000 Eastbound	81	5	1	0	0	0	0	0	88
AM Peak Pd 0700-1000 Westbound	29	0	0	0	0	0	0	0	29
IP Peak Pd 1000-1600 Eastbound	386	5	5	1	0	2	1	0	398
IP Peak Pd 1000-1600 Westbound	288	3	2	0	1	1	0	0	296
PM Peak Pd 1600-1900 Eastbound	128	3	5	0	0	1	0	0	136
PM Peak Pd 1600-1900 Westbound	177	5	1	0	0	0	1	0	184

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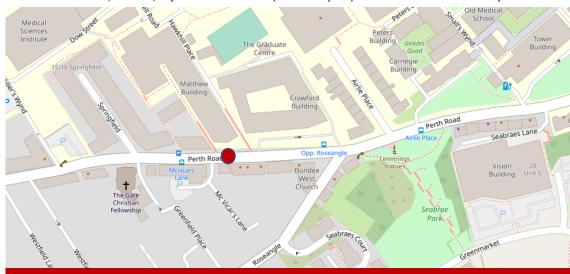


- 3.4.6 Table 9 shows that the lowest pedestrian flows were observed in February 2021 when Scotland was living under lockdown conditions. The highest pedestrian flows were observed in October 2020 in both directions.
- 3.4.7 Table 10 below presents the results of the pedestrian volume data on the south side of Perth Road, adjacent to the Art School in Dundee during each of the four survey periods.





Table 10. Perth Road, Dundee, adjacent to Art School (south footpath) Pedestrian Volume Summary



Site 4 F	Site 4 Perth Rd (adjacent to Art School) South Kerbside (3 day Average Thur - Fri - Sat)								
October 2020	Adult	Adult & Child	Child	Elderly	Disabled	Pavement Cyclist on Bike		Horses	Total
0600 - 2200 Eastbound	595	2	2	0	1	2	0	0	603
0600 - 2200 Westbound	560	3	2	1	0	2	1	0	568
AM Peak Pd 0700-1000 Eastbound	47	1	1	0	0	0	0	0	49
AM Peak Pd 0700-1000 Westbound	24	0	1	0	0	0	0	0	24
IP Peak Pd 1000-1600 Eastbound	293	1	1	0	1	0	0	0	297
IP Peak Pd 1000-1600 Westbound	235	2	1	1	0	0	0	0	240
PM Peak Pd 1600-1900 Eastbound	150	1	0	0	0	0	0	0	151
PM Peak Pd 1600-1900 Westbound	188	1	0	0	0	1	1	0	191

February 2021	Adult	Adult & Child	Child	Elderly	Disabled	Pavement Cyclist on Bike	Pavement Cyclist on Foot	Horses	Total
0600 - 2200 Eastbound	375	4	2	0	0	1	0	0	382
0600 - 2200 Westbound	410	5	0	0	0	4	1	0	421
AM Peak Pd 0700-1000 Eastbound	34	1	0	0	0	0	0	0	35
AM Peak Pd 0700-1000 Westbound	24	0	0	0	0	0	0	0	24
IP Peak Pd 1000-1600 Eastbound	196	3	2	0	0	0	0	0	201
IP Peak Pd 1000-1600 Westbound	201	5	0	0	0	2	1	0	209
PM Peak Pd 1600-1900 Eastbound	96	1	0	0	0	0	0	0	97
PM Peak Pd 1600-1900 Westbound	146	1	0	0	0	0	0	0	147
						Pavement	Pavement		

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May 2021	Adult	Adult & Child	Child	Elderly	Disabled	Pavement Cyclist on Bike	Pavement Cyclist on Foot	Horses	Total
0600 - 2200 Eastbound	487	6	8	1	1	1	0	0	503
0600 - 2200 Westbound	430	4	4	2	1	1	1	0	444
AM Peak Pd 0700-1000 Eastbound	47	0	1	0	0	0	0	0	48
AM Peak Pd 0700-1000 Westbound	21	0	0	0	0	0	0	0	21
IP Peak Pd 1000-1600 Eastbound	243	6	3	1	1	0	0	0	253
IP Peak Pd 1000-1600 Westbound	194	3	3	2	1	0	0	0	204
PM Peak Pd 1600-1900 Eastbound	111	1	4	0	0	0	0	0	116
PM Peak Pd 1600-1900 Westbound	97	1	1	0	0	0	1	0	100
						Pavement	Pavement		

PM Peak Pd 1600-1900 Westbound	97	1	1	0	0	0	1	0	100
September 2021	Adult	Adult & Child	Child	Elderly	Disabled	Pavement Cyclist on Bike	Pavement Cyclist on Foot	Horses	Total
0600 - 2200 Eastbound	659	10	18	0	1	1	0	0	690
0600 - 2200 Westbound	561	10	2	0	0	2	1	0	576
AM Peak Pd 0700-1000 Eastbound	50	0	4	0	1	0	0	0	55
AM Peak Pd 0700-1000 Westbound	22	0	0	0	0	0	0	0	22
IP Peak Pd 1000-1600 Eastbound	272	5	13	0	1	0	0	0	291
IP Peak Pd 1000-1600 Westbound	200	5	2	0	0	1	1	0	209
PM Peak Pd 1600-1900 Eastbound	157	4	1	0	0	0	0	0	162
PM Peak Pd 1600-1900 Westbound	166	3	0	0	0	0	0	0	169

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- 3.4.8 Table 10 shows that the lowest pedestrian flows were again observed in February 2021. The highest eastbound and westbound flows were observed in September 2021.
- 3.4.9 Table 11 below presents the results of the pedestrian volume data on the north side of Perth Road, adjacent to the Nethergate in Dundee during each of the four survey periods.





Table 11. Perth Road, Dundee, adjacent to Nethergate (north footpath) Pedestrian Volume Summary



Site 5 Perth Road (Nethergate) North Kerbside (3 day Average Thur - Fri - Sat)									
October 2020	Adult	Adult & Child	Child	Elderly	Disabled	Pavement Cyclist on Bike	Pavement Cyclist on Foot	Horses	Tota
0600 - 2200 Eastbound	1173	20	15	3	1	5	1	0	1218
0600 - 2200 Westbound	1173	25	13	0	1	7	2	0	1222
AM Peak Pd 0700-1000 Eastbound	98	2	4	0	0	0	0	0	104
AM Peak Pd 0700-1000 Westbound	102	2	4	0	1	2	0	0	110
IP Peak Pd 1000-1600 Eastbound	662	17	9	2	0	1	0	0	692
P Peak Pd 1000-1600 Westbound	610	18	8	0	0	1	0	0	638
PM Peak Pd 1600-1900 Eastbound	297	2	2	1	1	2	0	0	305
PM Peak Pd 1600-1900 Westbound	335	4	1	0	0	1	2	0	343
The sale of the sa	000					Pavement	Pavement		0.10
February 2021	Adult	Adult & Child	Child	Elderly	Disabled	Cyclist on Bike	Cyclist on Foot	Horses	Tota
0600 - 2200 Eastbound	819	9	0	0	1	6	3	0	839
0600 - 2200 Westbound	740	9	0	0	1	6	6	0	763
AM Peak Pd 0700-1000 Eastbound	89	0	0	0	0	0	1	0	90
AM Peak Pd 0700-1000 Westbound	74	1	0	0	0	0	0	0	76
P Peak Pd 1000-1600 Eastbound	482	6	0	0	1	2	2	0	493
P Peak Pd 1000-1600 Westbound	456	4	0	0	0	3	5	0	469
PM Peak Pd 1600-1900 Eastbound	188	1	0	0	0	4	1	0	194
PM Peak Pd 1600-1900 Westbound	161	3	0	0	1	1	0	0	165
May 2021	Adult	Adult & Child	Child	Elderly	Disabled	Pavement Cyclist on Bike	Pavement Cyclist on Foot	Horses	Tota
0600 - 2200 Eastbound	1098	10	6	1	3	5	2	0	1125
0600 - 2200 Westbound	1038	6	2	1	4	6	2	0	1058
AM Peak Pd 0700-1000 Eastbound	129	2	3	0	1	0	0	0	134
AM Peak Pd 0700-1000 Westbound	96	0	0	0	0	1	0	0	98
P Peak Pd 1000-1600 Eastbound	593	7	3	1	2	1	0	0	608
P Peak Pd 1000-1600 Westbound	548	4	0	1	3	1	0	0	557
PM Peak Pd 1600-1900 Eastbound	213	1	0	0	0	2	1	0	217
PM Peak Pd 1600-1900 Westbound	235	2	1	0	0	2	1	0	242
September 2021	Adult	Adult & Child	Child	Elderly	Disabled	Pavement Cyclist on Bike	Pavement Cyclist on Foot	Horses	Tota
0600 - 2200 Eastbound	1237	23	7	1	2	3	1	0	1275
0600 - 2200 Westbound	1270	18	2	1	1	1	3	0	1296
AM Peak Pd 0700-1000 Eastbound	126	3	2	0	1	0	0	0	131
AM Peak Pd 0700-1000 Westbound	97	0	0	0	0	0	0	0	98
P Peak Pd 1000-1600 Eastbound	672	15	5	1	1	2	1	0	696
P Peak Pd 1000-1600 Westbound	649	11	2	1	1	0	1	0	665
2M D D. 4000 4000 F	234	5	0	0	0	4	0	0	240
PM Peak Pd 1600-1900 Eastbound	234	3	U	U	U	1	U	U	240

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PM Peak Pd 1600-1900 Westbound 305 6 0



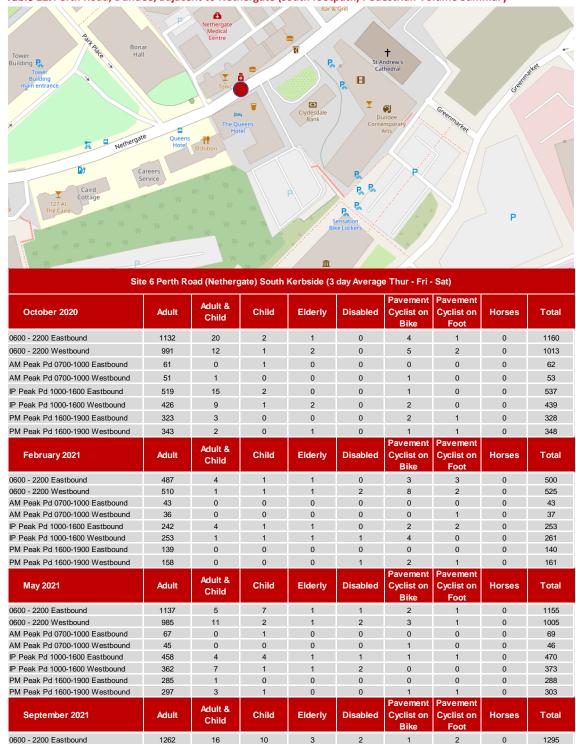


- 3.4.10 Table 11 shows that the lowest pedestrian volumes were observed in February 2021 when Scotland was under lockdown. The highest pedestrian volumes were observed in September 2021.
- 3.4.11 Table 12 below presents the results of the pedestrian volume data on the south side of Perth Road, adjacent to the Nethergate in Dundee during each of the four survey periods.





Table 12. Perth Road, Dundee, adjacent to Nethergate (south footpath) Pedestrian Volume Summary



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0600 - 2200 Westbound

AM Peak Pd 0700-1000 Eastbound

AM Peak Pd 0700-1000 Westbound

IP Peak Pd 1000-1600 Eastbound

IP Peak Pd 1000-1600 Westbound

PM Peak Pd 1600-1900 Eastbound

PM Peak Pd 1600-1900 Westbound

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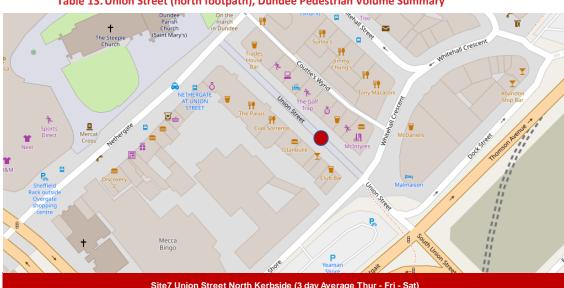
- 3.4.12 Table 12 shows that again the lowest pedestrian volumes were observed in February 2021. The highest were once again observed in September 2021 in both directions.
- Table 13 below presents the results of the pedestrian volume data on the north side of Union Street in Dundee during each of the four survey periods.

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Table 13. Union Street (north footpath), Dundee Pedestrian Volume Summary



			Shor	Ye S	hore vo	#-B	- Mee	ii	
	Site7 U	nion Street N	lorth Kerbs	ide (3 day A	erage Thur	- Fri - Sat)			
October 2020	Adult	Adult & Child	Child	Elderly	Disabled	Pavement Cyclist on Bike	Pavement Cyclist on Foot	Horses	Total
0600 - 2200 Eastbound	1501	127	8	0	0	1	2	0	1639
0600 - 2200 Westbound	1107	74	9	0	1	2	0	0	1193
AM Peak Pd 0700-1000 Eastbound	106	2	1	0	0	0	0	0	109
AM Peak Pd 0700-1000 Westbound	62	2	2	0	0	0	0	0	65
IP Peak Pd 1000-1600 Eastbound	891	104	6	0	0	0	1	0	1002
IP Peak Pd 1000-1600 Westbound	591	40	6	0	1	0	0	0	637
PM Peak Pd 1600-1900 Eastbound	357	17	0	0	0	0	1	0	375
PM Peak Pd 1600-1900 Westbound	337	30	1	0	0	1	0	0	370
February 2021	Adult	Adult & Child	Child	Elderly	Disabled	Pavement Cyclist on Bike	Pavement Cyclist on Foot	Horses	Total
0600 - 2200 Eastbound	399	4	3	0	1	2	0	0	409
0600 - 2200 Westbound	405	10	2	0	0	2	0	0	419
AM Peak Pd 0700-1000 Eastbound	29	0	1	0	0	0	0	0	30
AM Peak Pd 0700-1000 Westbound	39	0	0	0	0	0	0	0	39
P Peak Pd 1000-1600 Eastbound	233	3	1	0	1	1	0	0	239
P Peak Pd 1000-1600 Westbound	228	7	1	0	0	1	0	0	239
PM Peak Pd 1600-1900 Eastbound	105	1	1	0	0	0	0	0	106
PM Peak Pd 1600-1900 Westbound	103	1	0	0	0	0	0	0	105
May 2021	Adult	Adult & Child	Child	Elderly	Disabled	Pavement Cyclist on Bike	Pavement Cyclist on Foot	Horses	Total
0600 - 2200 Eastbound	711	35	4	2	2	3	1	0	759
0600 - 2200 Westbound	860	37	5	4	1	3	1	0	911
AM Peak Pd 0700-1000 Eastbound	79	3	3	0	0	1	0	0	86
AM Peak Pd 0700-1000 Westbound	115	6	2	0	0	2	0	0	124
P Peak Pd 1000-1600 Eastbound	394	22	2	2	2	2	1	0	424
P Peak Pd 1000-1600 Westbound	470	26	2	3	1	1	1	0	503
PM Peak Pd 1600-1900 Eastbound	142	6	0	0	0	0	0	0	149
PM Peak Pd 1600-1900 Westbound	142	5	2	0	0	0	0	0	148
September 2021	Adult	Adult & Child	Child	Elderly	Disabled	Pavement Cyclist on Bike	Pavement Cyclist on Foot	Horses	Total
0600 - 2200 Eastbound	1125	37	4	1	2	0	1	0	1170
0600 - 2200 Westbound	1319	56	2	1	2	2	0	0	1383
AM Peak Pd 0700-1000 Eastbound	87	0	0	0	0	0	0	0	87
AM Peak Pd 0700-1000 Westbound	84	1	1	0	0	0	0	0	86
IP Peak Pd 1000-1600 Eastbound	597	26	3	1	1	0	1	0	629

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IP Peak Pd 1000-1600 Westbound 749 47 1 1
PM Peak Pd 1600-1900 Eastbound 255 9 1 0

PM Peak Pd 1600-1900 Westbound 277



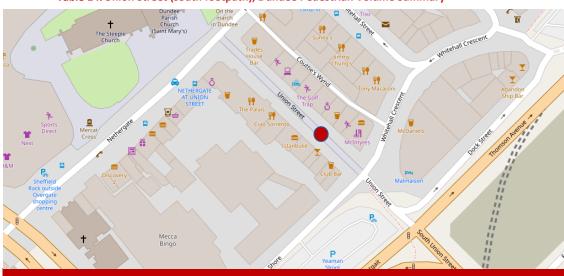


- 3.4.14 Table 13 shows that again the lowest pedestrian volumes were recorded in February 2021. The highest eastbound volume was recorded in October 2020 and westbound in September 2021.
- 3.4.15 Table 14 below presents the results of the pedestrian volume data on the south side of Union Street in Dundee during each of the four survey periods.





Table 14. Union Street (south footpath), Dundee Pedestrian Volume Summary



1 1			Shore	Ye	P saman shore	ST.	Ton Street	ii ii	(
	Site8 U	nion Street S	outh Kerbs	ide (3 day A	verage Thur	- Fri - Sat)			
October 2020	Adult	Adult & Child	Child	Elderly	Disabled	Pavement Cyclist on Bike	Pavement Cyclist on Foot	Horses	Total
0600 - 2200 Eastbound	718	41	3	0	0	1	1	0	764
0600 - 2200 Westbound	872	36	2	1	0	1	0	0	912
AM Peak Pd 0700-1000 Eastbound	54	2	0	0	0	0	0	0	56
AM Peak Pd 0700-1000 Westbound	47	0	0	0	0	0	0	0	47
IP Peak Pd 1000-1600 Eastbound	416	33	1	0	0	1	1	0	452
IP Peak Pd 1000-1600 Westbound	465	25	2	1	0	1	0	0	494
PM Peak Pd 1600-1900 Eastbound	167	5	0	0	0	0	0	0	171
PM Peak Pd 1600-1900 Westbound	243	11	0	0	0	0	0	0	254
FINI FEAR FU 1000-1900 Westboulld	243		U	U	U	Pavement		U	234
February 2021	Adult	Adult & Child	Child	Elderly	Disabled	Cyclist on Bike	Cyclist on Foot	Horses	Total
0600 - 2200 Eastbound	563	9	1	0	1	4	0	0	577
0600 - 2200 Westbound	665	12	1	2	1	3	1	0	685
AM Peak Pd 0700-1000 Eastbound	52	0	0	0	0	0	0	0	53
AM Peak Pd 0700-1000 Westbound	66	2	0	0	0	0	0	0	68
IP Peak Pd 1000-1600 Eastbound	296	8	1	0	1	1	0	0	306
IP Peak Pd 1000-1600 Westbound	331	7	1	2	1	2	1	0	344
PM Peak Pd 1600-1900 Eastbound	171	1	0	0	0	1	0	0	173
PM Peak Pd 1600-1900 Westbound	202	3	0	0	0	1	0	0	207
May 2021	Adult	Adult & Child	Child	Elderly	Disabled	Pavement Cyclist on Bike	Pavement Cyclist on Foot	Horses	Total
0600 - 2200 Eastbound	1001	37	6	2	1	0	0	0	1047
0600 - 2200 Westbound	1150	61	7	4	1	0	1	0	1223
AM Peak Pd 0700-1000 Eastbound	52	2	0	1	0	0	0	0	55
AM Peak Pd 0700-1000 Westbound	81	4	1	1	0	0	0	0	87
IP Peak Pd 1000-1600 Eastbound	491	25	5	1	1	0	0	0	523
IP Peak Pd 1000-1600 Westbound	631	44	5	3	1	0	1	0	684
PM Peak Pd 1600-1900 Eastbound	271	7	0	0	1	0	0	0	280
PM Peak Pd 1600-1900 Westbound	269	11	1	0	0	0	0	0	281
September 2021	Adult	Adult & Child	Child	Elderly	Disabled	Pavement Cyclist on Bike	Pavement Cyclist on Foot	Horses	Total
0600 - 2200 Eastbound	1633	74	7	2	1	2	1	0	1720
0600 - 2200 Eastbound	2006	58	12	2	2	1	1	0	2080
AM Peak Pd 0700-1000 Eastbound	119	5	1	0	0	0	0	0	125
AM Peak Pd 0700-1000 Westbound	144	9	2	0	0	0	0	0	156
IP Peak Pd 1000-1600 Eastbound	874	46	5	2	1	1	1	0	930
IP Peak Pd 1000-1600 Westbound	1041	34	4	2	1	0	1	0	1084
PM Peak Pd 1600-1900 Eastbound	372	19	1	0	0	0	0	0	393
PM Peak Pd 1600-1900 Westbound	468	8	3	0	0	0	0	0	480

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3.4.16	Table 14 shows that the lowest volumes were again recorded in February 2021.	The highest
	volumes in either direction were recorded in September 2021.	

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4. VEHICLE LINK COUNT & SPEED REVIEW

4.1 Overview

- 4.1.1 Summary tables below present the results of the link count and speed surveys in the Dundee Council area (seven sites located in Dundee and three sites located in Broughty Ferry).
- 4.1.2 For each survey, the summary information is as follows:
 - Site Number
 - Site Location
 - Total Flow Directional daily flow
 - Mean Speed (mph) Mean or average speed of all vehicles in either direction
 - 85%ile Speed (mph) Speed at, or below, which 85% of vehicles were travelling.
 The remaining 15% were recorded travelling at a higher speed
 - Number of vehicles travelling at a speed greater than the 20mph limit
 - Proportion of vehicles travelling at a speed greater than the 20mph limit
 - Number of vehicles travelling at a speed greater than 35mph
 - Proportion of vehicles travelling at a speed greater than 35mph.





4.2 Results of Link Counts and Speed Surveys

Dundee

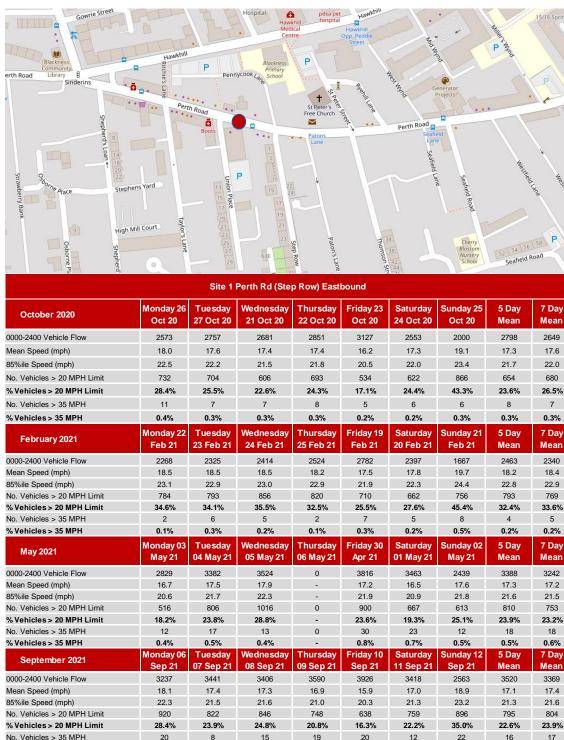
4.2.1 Table 15 below presents a comparison of the results of the link flow and speed data on the Perth Road (Step Row) in Dundee.

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Table 15. Perth Road (Step Row) (Eastbound)



4.2.2 Table 15 indicates that the 5-day average traffic flows were lowest in February 2021 when Scotland was in a period of lockdown. Conversely, the 5-day mean speed was highest at 18.2 mph. The highest flows were observed in September 2021, when the mean speed was lowest at 17.1mph.

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8

0.2%

0.6%

% Vehicles > 35 MPH

Counter Damaged on Thursday 6th May 2021

0.5%

0.5%





- 4.2.3 The proportion of vehicles exceeding 20mph was slightly higher in May 2021 compared with October 2020, but was lowest in September 2021.
- 4.2.4 Table 16 presents the results for Perth Road (Step Row) Westbound in Dundee.

Table 16. Perth Road (Step Row) (Westbound)



nerd)	COL	[29]	U HH.	ane	, J	44	School	Seance	
		Site 1	Perth Rd (Ste	Row) West	bound				
October 2020	Monday 26 Oct 20	Tuesday 27 Oct 20	Wednesday 21 Oct 20	Thursday 22 Oct 20	Friday 23 Oct 20	Saturday 24 Oct 20	Sunday 25 Oct 20	5 Day Mean	7 Day Mean
0000-2400 Vehicle Flow	2372	2479	2483	2667	2870	2427	1854	2574	2450
Mean Speed (mph)	18.2	17.9	17.4	17.7	16.4	17.5	19.3	17.5	17.8
85%ile Speed (mph)	23.4	23.2	22.2	22.6	21.3	22.4	23.9	22.5	22.7
No. Vehicles > 20 MPH Limit	820	801	691	757	631	694	776	740	739
% Vehicles > 20 MPH Limit	34.6%	32.3%	27.8%	28.4%	22.0%	28.6%	41.9%	29.0%	30.8%
No. Vehicles > 35 MPH	12	6	11	18	17	8	19	13	13
% Vehicles > 35 MPH	0.5%	0.2%	0.4%	0.7%	0.6%	0.3%	1.0%	0.5%	0.5%
February 2021	Monday 22 Feb 21	Tuesday 23 Feb 21	Wednesday 24 Feb 21	Thursday 25 Feb 21	Friday 19 Feb 21	Saturday 20 Feb 21	Sunday 21 Feb 21	5 Day Mean	7 Day Mean
0000-2400 Vehicle Flow	2160	2158	2268	2299	2352	2072	1551	2247	2123
Mean Speed (mph)	18.5	19.3	19.2	18.5	17.6	17.9	20.0	18.6	18.7
85%ile Speed (mph)	23.2	24.1	24.3	23.5	22.7	23.2	25.1	23.6	23.7
No. Vehicles > 20 MPH Limit	794	894	930	842	689	627	737	830	788
% Vehicles > 20 MPH Limit	36.8%	41.4%	41.0%	36.6%	29.3%	30.3%	47.5%	37.0%	37.6%
No. Vehicles > 35 MPH	16	25	27	14	11	9	16	19	17
% Vehicles > 35 MPH	0.7%	1.2%	1.2%	0.6%	0.5%	0.4%	1.0%	0.8%	0.8%
May 2021	Monday 03 May 21	Tuesday 04 May 21	Wednesday 05 May 21	Thursday 06 May 21	Friday 30 Apr 21	Saturday 01 May 21	Sunday 02 May 21	5 Day Mean	7 Day Mean
0000-2400 Vehicle Flow	2548	3015	3078	0	3410	3198	2306	2410	2508
Mean Speed (mph)	16.4	16.9	17.3	-	16.3	16.0	17.5	16.7	16.7
85%ile Speed (mph)	20.8	21.9	22.5	_	21.6	20.7	21.9	21.7	21.6
No. Vehicles > 20 MPH Limit	485	755	850	0	786	576	597	575	578
% Vehicles > 20 MPH Limit	19.0%	25.0%	27.6%		23.0%	18.0%	25.9%	23.9%	23.1%
No. Vehicles > 35 MPH	1	5	7	0	10	9	7	5	6
% Vehicles > 35 MPH	0.0%	0.2%	0.2%	-	0.3%	0.3%	0.3%	0.2%	0.2%
September 2021	Monday 06 Sep 21	Tuesday 07 Sep 21	Wednesday 08 Sep 21	Thursday 09 Sep 21	Friday 10 Sep 21	Saturday 11 Sep 21	Sunday 12 Sep 21	5 Day Mean	7 Day Mean
0000-2400 Vehicle Flow	2854	3081	3011	3251	3673	3230	2256	3174	3051
Mean Speed (mph)	17.6	17.0	16.9	16.7	15.6	17.0	19.1	16.8	17.1
85%ile Speed (mph)	22.7	21.9	21.8	21.9	20.5	22.0	24.4	21.8	22.2
No. Vehicles > 20 MPH Limit	876	795	725	788	654	866	952	768	808
% Vehicles > 20 MPH Limit	30.7%	25.8%	24.1%	24.2%	17.8%	26.8%	42.2%	24.2%	26.5%
No. Vehicles > 35 MPH	10	12	8	3	13	11	16	9	10
% Vehicles > 35 MPH	0.4%	0.4%	0.3%	0.1%	0.4%	0.3%	0.7%	0.3%	0.3%

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- 4.2.5 Table 16 shows that the 5-day average traffic flows were lowest in February 2021 when Scotland was in a period of lockdown. Again, the 5-day mean speed was highest at 18.6 mph. Flows were around 30% higher in September 2021, when compared against May 2021, when the 5 day mean speed was 16.8 mph.
- 4.2.6 The proportion of vehicles exceeding 20mph was lower in May 2021 compared with October 2020. The proportion of vehicles exceeding the 20mph speed limit in February 2021 was higher still. There was a slight increase in vehicles exceeding 20mph in September 2021 when compared against May 2021.





4.2.7 Table 17 presents the results for Perth Road (Art School) Eastbound in Dundee.

Medical Sciences Institute Double Return Read Sciences Institute Double Return Read Return Return Read Return Read Return Return

Table 17. Perth Road (Art School) (Eastbound)

Heer Heer Heer Heer Heer Heer Heer Heer	istian wwship	ald Hale	aj _a Roseangle	ceab	Ges COLIT	Seab Par		P	
		Site 2	Perth Rd (Art	School) East	bound				
October 2020	Monday 26 Oct 20	Tuesday 27 Oct 20	Wednesday 21 Oct 20	Thursday 22 Oct 20	Friday 23 Oct 20	Saturday 24 Oct 20	Sunday 25 Oct 20	5 Day Mean	7 Day Mean
0000-2400 Vehicle Flow	1639	1810	1749	1824	1971	1775	1330	1799	1728
Mean Speed (mph)	24.0	24.0	24.1	24.1	24.0	24.5	25.1	24.0	24.3
85%ile Speed (mph)	28.8	28.7	29.1	28.7	28.9	29.4	30.3	28.8	29.1
No. Vehicles > 20 MPH Limit	1314	1474	1410	1479	1577	1444	1116	1451	1402
% Vehicles > 20 MPH Limit	80.2%	81.4%	80.6%	81.1%	80.0%	81.4%	83.9%	80.7%	81.2%
No. Vehicles > 35 MPH	48	31	37	29	46	47	54	38	42
% Vehicles > 35 MPH	2.9%	1.7%	2.1%	1.6%	2.3%	2.6%	4.1%	2.1%	2.4%
% Venicies > 35 MPH									
February 2021	Monday 22 Feb 21	Tuesday 23 Feb 21	Wednesday 24 Feb 21	Thursday 25 Feb 21	Friday 19 Feb 21	Saturday 20 Feb 21	Sunday 21 Feb 21	5 Day Mean	7 Day Mean
0000-2400 Vehicle Flow	1399	1307	1459	1504	1676	1352	1020	1469	1388
Mean Speed (mph)	24.7	24.4	24.4	25.0	24.7	24.6	25.5	24.6	24.8
85%ile Speed (mph)	29.6	29.5	29.2	29.9	29.5	29.6	31.3	29.5	29.8
No. Vehicles > 20 MPH Limit	1154	1056	1187	1260	1392	1119	869	1210	1148
% Vehicles > 20 MPH Limit	82.5%	80.8%	81.4%	83.8%	83.1%	82.8%	85.2%	82.3%	82.8%
No. Vehicles > 35 MPH	44	43	23	45	49	35	44	41	40
% Vehicles > 35 MPH	3.1%	3.3%	1.6%	3.0%	2.9%	2.6%	4.3%	2.8%	2.9%
May 2021	Monday 03 May 21	Tuesday 04 May 21	Wednesday 05 May 21	Thursday 06 May 21	Friday 07 May 21	Saturday 08 May 21	Sunday 09 May 21	5 Day Mean	7 Day Mear
0000-2400 Vehicle Flow	1623	1962	1981	2082	2321	1949	1437	1994	1908
Mean Speed (mph)	24.4	24.6	24.4	24.4	25.0	25.6	25.6	24.6	24.9
85%ile Speed (mph)	29.4	29.3	29.2	29.3	29.8	30.4	30.1	29.4	29.6
No. Vehicles > 20 MPH Limit	1332	1638	1678	1752	2015	1734	1288	1683	1634
% Vehicles > 20 MPH Limit	82.1%	83.5%	84.7%	84.1%	86.8%	89.0%	89.6%	84.4%	85.6%
No. Vehicles > 35 MPH	44	53	41	47	76	52	43	52	51
% Vehicles > 35 MPH	2.7%	2.7%	2.1%	2.3%	3.3%	2.7%	3.0%	2.6%	2.7%
September 2021	Monday 06 Sep 21	Tuesday 07 Sep 21	Wednesday 08 Sep 21	Thursday 09 Sep 21	Friday 10 Sep 21	Saturday 11 Sep 21	Sunday 12 Sep 21	5 Day Mean	7 Day Mear
0000-2400 Vehicle Flow	1868	2040	2042	2189	2366	2079	0	2101	2097
Mean Speed (mph)	24.4	23.9	23.9	23.7	23.3	24.5	-	23.8	24.0
85%ile Speed (mph)	29.2	28.8	28.9	28.5	28.2	29.4	-	28.7	28.8
No. Vehicles > 20 MPH Limit	1571	1614	1652	1742	1834	1741	0	1683	1692
% Vehicles > 20 MPH Limit	84.1%	79.1%	80.9%	79.6%	77.5%	83.7%	-	80.1%	80.7%
No. Vehicles > 35 MPH	34	33	32	40	40	42	0	36	37
% Vehicles > 35 MPH No data available for Sunday 12	1.8% 2 September 2021	1.6%	1.6%	1.8%	1.7%	2.0%	-	1.7%	1.8%

4.2.8 Table 17 shows that the 5-day average traffic flows were lowest in February 2021 when Scotland was in a period of lockdown, the mean speed being 24.6 mph in both February and

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May 2021. The highest flow was observed in September 2021, when the mean speed was lowest at 23.8 mph.

4.2.9 The proportion of vehicles exceeding 20mph was slightly higher in May 2021 compared with October 2020 and September 2021.

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4.2.10 Table 18 presents the results for Perth Road (Art School) Westbound in Dundee.

Sciences Institute The Graduate Centre Perth Road Seabraes Lane Perth Road Park Site 2 Perth Rd (Art School) Westbound Monday 26 Tuesday Wednesday Thursday Friday 23 Saturday Sunday 25 5 Day 7 Day October 2020 21 Oct 20 Oct 20 27 Oct 20 22 Oct 20 Oct 20 24 Oct 20 Oct 20 1894 2110 2111 1988 1497 2102 1999 0000-2400 Vehicle Flow 2079 2316 Mean Speed (mph) 24.7 24.3 24.3 24.6 24.2 24.9 25.3 24.4 24.6 85%ile Speed (mph) 30.0 30.0 29.7 29.5 29.8 30.0 30.5 29.8 29.9 No. Vehicles > 20 MPH Limit 1577 1701 1694 1768 1868 1671 1266 1722 1649 % Vehicles > 20 MPH Limit 83.3% 80.6% 81.5% 83.8% 80.7% 84.1% 84.6% 82.0% 82.6% 55 57 54 57 No. Vehicles > 35 MPH 46 63 69 55 57 % Vehicles > 35 MPH 2.9% 2.7% 2.2% 2.3% 2.9% 2.9% londay 22 Tuesday Wednesday Thursday Friday 19 Saturday Sunday 21 5 Day 7 Day February 2021 Feb 21 23 Feb 21 24 Feb 21 25 Feb 21 Feb 21 20 Feb 21 Feb 21 Mean Mean 0000-2400 Vehicle Flow 1436 1540 1607 1505 1621 1682 1203 1629 1729 Mean Speed (mph) 25.5 24.8 24.8 25.1 24.9 25.6 26.3 25.0 25.3 85%ile Speed (mph) 30.9 30.0 30.3 30.8 30.6 31.0 31.7 30.5 30.8 No. Vehicles > 20 MPH Limit 1383 1271 1351 1420 1435 1218 1063 1372 1306 % Vehicles > 20 MPH Limit 86.1% 84.5% 83.3% 84.4% 83.0% 84.8% 88.4% 84.3% 84.9% No. Vehicles > 35 MPH 50 65 46 41 70 75 % Vehicles > 35 MPH 2.5% 4.0% 3.1% 3.2% 4.9% 6.2% 3.2% 3.7% 3.0% londay 03 Tuesday Wednesday Thursday riday 07 Saturday Sunday 09 5 Day 7 Day May 2021 May 21 04 May 21 05 May 21 06 May 21 08 May 21 May 21 Mean May 21 Mean 0000-2400 Vehicle Flow 2097 2285 2375 2440 2251 1709 2385 2269 2728 Mean Speed (mph) 25.1 25.4 25.0 24.8 25.3 26.1 25.8 25.1 25.4 85%ile Speed (mph) 30.4 30.4 30.0 29.8 30.2 31.1 30.6 30.2 30.4 No. Vehicles > 20 MPH Limit 1759 1989 2033 2058 2368 2035 1539 2041 1969 % Vehicles > 20 MPH Limit 83.9% 87.0% 85.6% 84.3% 86.8% 90.4% 90.1% 85.6% 86.8% No. Vehicles > 35 MPH 70 70 89 67 71 % Vehicles > 35 MPH 3.3% 2.7% 2.8% 2.7% 2.6% 4.0% 4.3% 2.8% 3.1% 5 Day onday 06 Tuesday riday 10 aturday ednesda Thursday 7 Day September 2021 Mean Sep 21 07 Sep 21 08 Sep 21 09 Sep 21 Sep 21 11 Sep 21 Sep 21 Mean 0000-2400 Vehicle Flow 2172 2405 2410 2469 2754 2475 0 2442 2448 Mean Speed (mph) 24.8 24.3 24.5 24.5 23.8 25.0 24.4 24.5 30.1 29.5 29.7 29.3 28.7 30.0 29.5 29.6 85%ile Speed (mph) No. Vehicles > 20 MPH Limit 1835 1960 2004 2084 2186 2122 0 2014 2032 % Vehicles > 20 MPH Limit 84.5% 81.5% 83.2% 84.4% 79.4% 85.7% 82.5% 83.0% No. Vehicles > 35 MPH 56

Table 18. Perth Road (Art School) (Westbound)

Table 18 shows that the 5-day average traffic flows were lowest in February 2021 when 4.2.11 Scotland was in a period of lockdown. The mean speed of traffic was greatest in May 2021 at

55

42

1.7%

51

1.9%

75

3.0%

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73

3.0%

57

2.6%

% Vehicles > 35 MPH

No data available for Sunday 12 September 2021

59





25.1mph. The highest flow was observed in September 2021, the mean speed being the same as October 2020.

4.2.12 The proportion of vehicles exceeding 20mph was highest in May 2021 compared with October 2020, February 2021 and September 2021.

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4.2.13 Table 19 presents the results for Perth Road (Nethergate) Eastbound in Dundee.

H P. Site 3 Perth Rd (Nethergate) Eastbound 5 Day Monday 26 Friday 23 Saturday 7 Day October 2020 Oct 20 27 Oct 20 21 Oct 20 22 Oct 20 Oct 20 24 Oct 20 Oct 20 0000-2400 Vehicle Flow 2441 2227 2418 2290 2283 2303 2379 2684 1712 Mean Speed (mph) 17.8 17.6 17.7 17.4 17.0 17.8 17.5 17.8 19.5 85%ile Speed (mph) 23.3 23.1 23.0 23.0 22.6 23.2 25.3 23.0 23.4 835 824 788 821 No. Vehicles > 20 MPH Limit 841 806 798 841 819 % Vehicles > 20 MPH Limit 36.8% 35.0% 35.1% 33.8% 29.7% 35.4% 49.1% 34.1% 36.4% No. Vehicles > 35 MPH 2 5 2 9 5 4 5 5 4 % Vehicles > 35 MPH 0.2% 0.1% 0.2% 0.1% 0.2% 0.2% 0.5% 0.1% 0.2% Monday 22 Tuesday Wednesday Thursday Friday 19 Saturday Sunday 21 5 Day 7 Day February 2021 24 Feb 21 Feb 21 23 Feb 21 25 Feb 21 Feb 21 20 Feb 21 Feb 21 Mean Mean 0000-2400 Vehicle Flow 1934 1981 1550 1754 1720 1792 1983 1319 1882 Mean Speed (mph) 20.6 20.5 20.3 20.6 196 20.9 22 0 20.3 20.6 85%ile Speed (mph) 25.4 25.4 25.1 25.2 24.8 26.0 27.1 25.2 25.6 No. Vehicles > 20 MPH Limit 895 904 958 1029 881 848 859 933 911 % Vehicles > 20 MPH Limit 52.0% 50.4% 49.5% 51.9% 44.5% 54.7% 65.1% 49.7% 52.6% No. Vehicles > 35 MPH % Vehicles > 35 MPH 0.5% 0.6% 0.3% 0.3% 0.3% 0.5% 1.0% 0.4% 0.5% Monday 03 Tuesday Wednesday Thursday Friday 07 Saturday Sunday 09 5 Day 7 Day May 2021 Mean 04 May 21 06 May 21 May 21 08 May 21 May 21 05 May 21 May 21 Mean 2311 2729 2875 2816 1711 2720 2590 0000-2400 Vehicle Flow 2776 2909 Mean Speed (mph) 18.0 18.0 17.2 18.1 17.2 17.4 19.4 17.7 17.9 85%ile Speed (mph) 22 7 22.1 21.6 22.5 21.4 22 1 24.0 22.1 22.3 No. Vehicles > 20 MPH Limit 664 797 713 827 667 707 704 734 726 % Vehicles > 20 MPH Limit 28.7% 29.2% 24.8% 29.8% 22.9% 25.1% 41.1% 27.0% 28.0% No. Vehicles > 35 MPH 8 11 5 % Vehicles > 35 MPH 0.1% 0.1% 0.1% 0.3% 0.1% 0.2% 0.6% 0.1% 0.2% onday 06 ednesc Thursda riday 10 Saturda 5 Day Tuesda September 2021 Sep 21 07 Sep 2 08 Sep 2 09 Sep 21 Sep 21 11 Sep 2 Sep 21 Mean 0000-2400 Vehicle Flow 2504 2598 2590 2545 3135 2697 1864 2674 2562 Mean Speed (mph) 18.2 18.1 17.8 17.3 17.8 19.1 18.0 18.1 18.5 85%ile Speed (mph) No. Vehicles > 20 MPH Limit 858 833 768 725 763 763 775 789 784 % Vehicles > 20 MPH Limit 34.3% 28.5% 32.1% 29.7% 24.3% 28.3% 29.5% 30.6% 41.6%

Table 19. Perth Road (Nethergate) (Eastbound)

4.2.14 Table 19 shows that the 5-day average traffic flows were much lower in February 2021 when Scotland was in a period of lockdown, but the mean speed was 20.3mph. Flows in September

6

0.2%

8

0.3%

3

0.1%

0.3%

2021 were lower than May 2021.

No. Vehicles > 35 MPH

% Vehicles > 35 MPH

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0.2%

0

0.0%

Vehicles parked on tubes on Thursday 9th September 2021 between approx 16:00 & 17:10

5

6





4.2.15	The proportion of vehicles exceeding 20mph in May 2021 was 49.7%, greater than October
	2020, May 2021 and September 2021 (34.1%, 27.0% and 29.5% respectively).

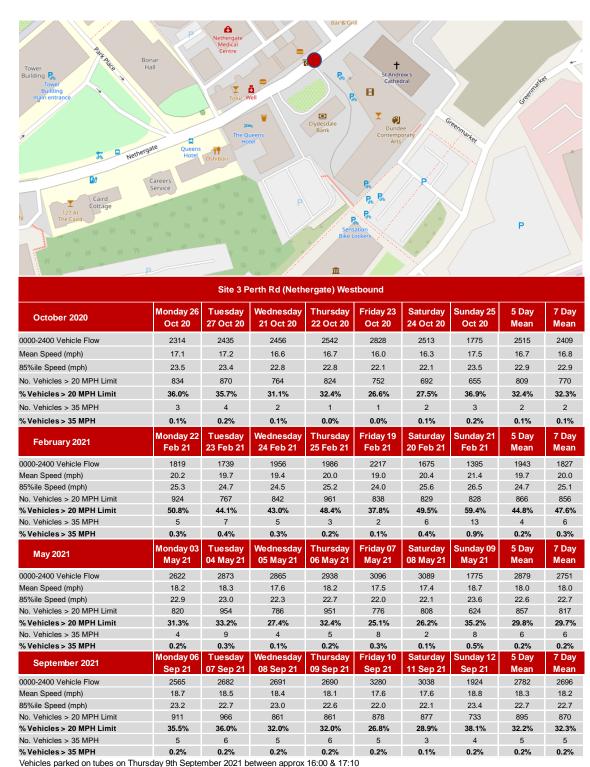
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4.2.16 Table 20 presents the results for Perth Road (Nethergate) Westbound in Dundee.

Table 20. Perth Road (Nethergate) (Westbound)



4.2.17 Table 20 shows that the 5-day average traffic flows were much lower in February 2021 when Scotland was in a period of lockdown. Conversely, the mean speed was highest at 19.7mph. The flow in May 2021 was higher than that observed in September 2021.

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- 4.2.18 The proportion of vehicles exceeding 20mph in May 2021 was 44.8%, greater than October 2020, May 2021 and September 2021 (32.4%, 29.8% and 32.2% respectively).
- 4.2.19 Table 21 presents the results for Findowrie Street Eastbound in Dundee.

Table 21. Findowrie Street (Eastbound)



avc .	8	3	- AMA///	THE PARTY OF	00/8	- E -	0000	ad	
Site 4 Findowrie St (Findchapel PI) Eastbound									
October 2020	Monday 26 Oct 20	Tuesday 27 Oct 20	Wednesday 21 Oct 20	Thursday 22 Oct 20	Friday 23 Oct 20	Saturday 24 Oct 20	Sunday 25 Oct 20	5 Day Mean	7 Day Mean
0000-2400 Vehicle Flow	1068	1092	1149	1178	858	898	826	1069	1010
Mean Speed (mph)	20.5	20.1	18.7	19.0	19.6	19.9	20.2	19.6	19.7
85%ile Speed (mph)	24.9	24.2	23.4	23.2	24.0	24.7	25.3	23.9	24.2
No. Vehicles > 20 MPH Limit	595	568	451	501	396	454	439	502	486
% Vehicles > 20 MPH Limit	55.7%	52.0%	39.3%	42.5%	46.2%	50.6%	53.1%	47.1%	48.5%
No. Vehicles > 35 MPH	1	2	3	4	1	1	3	2	2
% Vehicles > 35 MPH	0.1%	0.2%	0.3%	0.3%	0.1%	0.1%	0.4%	0.2%	0.2%
February 2021	Monday 01 Mar 21	Tuesday 02 Mar 21	Wednesday 24 Feb 21	Thursday 25 Feb 21	Friday 26 Feb 21	Saturday 27 Feb 21	Sunday 28 Feb 21	5 Day Mean	7 Day Mean
0000-2400 Vehicle Flow	328	999	1185	1118	1027	1099	872	931	947
Mean Speed (mph)	22.5	21.8	21.5	22.1	22.3	22.4	21.8	22.0	22.1
85%ile Speed (mph)	26.2	25.8	25.7	26.1	26.8	26.7	26.6	26.1	26.3
No. Vehicles > 20 MPH Limit	248	677	783	809	716	788	577	647	657
% Vehicles > 20 MPH Limit	75.6%	67.8%	66.1%	72.4%	69.7%	71.7%	66.2%	70.3%	69.9%
No. Vehicles > 35 MPH	0	1	0	0	1	0	0	0	0
% Vehicles > 35 MPH	0.0%	0.1%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%
May 2021	Monday 17 May 21	Tuesday 11 May 21	Wednesday 12 May 21	Thursday 13 May 21	Friday 14 May 21	Saturday 15 May 21	Sunday 16 May 21	5 Day Mean	7 Day Mean
0000-2400 Vehicle Flow	1193	1205	1176	1266	1262	1061	905	1220	1153
Mean Speed (mph)	21.4	22.4	22.1	20.4	20.5	21.0	20.8	21.4	21.2
85%ile Speed (mph)	25.6	26.2	26.3	24.4	24.6	25.2	25.1	25.4	25.3
No. Vehicles > 20 MPH Limit	763	876	825	661	677	623	510	760	705
% Vehicles > 20 MPH Limit	64.0%	72.7%	70.2%	52.2%	53.6%	58.7%	56.4%	62.3%	61.2%
No. Vehicles > 35 MPH	8	5	6	5	4	8	5	6	6
% Vehicles > 35 MPH	0.7%	0.4%	0.5%	0.4%	0.3%	0.8%	0.6%	0.5%	0.5%
September 2021	Monday 06 Sep 21	Tuesday 07 Sep 21	Wednesday 08 Sep 21	Thursday 09 Sep 21	Friday 10 Sep 21	Saturday 11 Sep 21	Sunday 12 Sep 21	5 Day Mean	7 Day Mean
0000-2400 Vehicle Flow	587	1155	1194	1180	1238	998	888	1071	1034
Mean Speed (mph)	21.0	21.3	21.3	21.1	21.2	21.5	21.4	21.2	21.3
85%ile Speed (mph)	25.6	25.3	25.5	24.8	25.3	25.9	25.7	25.3	25.4
No. Vehicles > 20 MPH Limit	325	733	747	719	767	634	548	658	639
% Vehicles > 20 MPH Limit	55.4%	63.5%	62.6%	60.9%	62.0%	63.5%	61.7%	61.5%	61.8%
No. Vehicles > 35 MPH	3	3	9	6	4	6	4	5	5
% Vehicles > 35 MPH	0.5%	0.3%	0.8%	0.5%	0.3%	0.6%	0.5%	0.5%	0.5%

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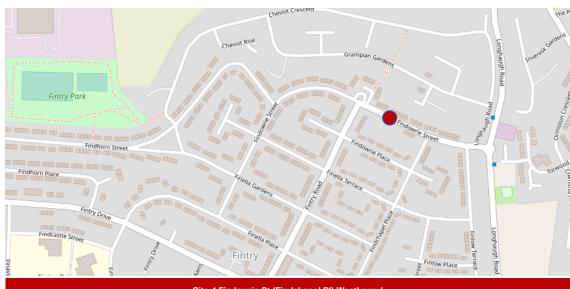


- 4.2.20 Table 21 shows that the 5-day average traffic flows were lowest in February 2021 when Scotland was in a period of lockdown. Conversely, the mean speed was highest at 22.0mph. The flow in September 2021 was lower than May 2021.
- 4.2.21 The proportion of vehicles exceeding 20mph was higher in February 2021 (70.3%), when compared to October 2020, May 2021 and September 2021 (47.1%, 62.3% and 61.5% respectively).
- 4.2.22 Table 22 presents the results for Findowrie Street westbound in Dundee.





Table 22. Findowrie Street (Westbound)



Site 4 Findowrie St (Findchapel PI) Westbound									
October 2020	Monday 26 Oct 20	Tuesday 27 Oct 20	Wednesday 21 Oct 20	Thursday 22 Oct 20	Friday 23 Oct 20	Saturday 24 Oct 20	Sunday 25 Oct 20	5 Day Mean	7 Day Mean
0000-2400 Vehicle Flow	1054	1204	1257	1216	1029	949	927	1152	1091
Mean Speed (mph)	20.6	20.7	20.8	20.1	20.1	21.0	21.2	20.5	20.6
85%ile Speed (mph)	25.5	25.2	25.9	25.0	24.7	26.3	26.2	25.3	25.5
No. Vehicles > 20 MPH Limit	594	703	717	624	531	540	550	634	608
% Vehicles > 20 MPH Limit	56.4%	58.4%	57.0%	51.3%	51.6%	56.9%	59.3%	54.9%	55.8%
No. Vehicles > 35 MPH	3	4	7	6	0	8	9	4	5
% Vehicles > 35 MPH	0.3%	0.3%	0.6%	0.5%	0.0%	0.8%	1.0%	0.3%	0.5%
	Monday 01	Tuesday	Wednesday	Thursday	Friday 26	Saturday	Sunday 28	5 Dav	7 Dav
February 2021	Mar 21	02 Mar 21	24 Feb 21	25 Feb 21	Feb 21	27 Feb 21	Feb 21	Mean	Mean
0000-2400 Vehicle Flow	453	943	1280	1122	1100	1169	895	980	995
Mean Speed (mph)	24.1	22.1	22.6	23.0	23.3	23.2	22.7	23.0	23.0
85%ile Speed (mph)	28.5	27.1	27.1	27.3	27.8	27.8	27.2	27.6	27.5
No. Vehicles > 20 MPH Limit	383	653	920	876	866	925	646	740	753
% Vehicles > 20 MPH Limit	84.5%	69.2%	71.9%	78.1%	78.7%	79.1%	72.2%	76.5%	76.3%
No. Vehicles > 35 MPH	0	1	0	2	0	0	1	1	1
% Vehicles > 35 MPH	0.0%	0.1%	0.0%	0.2%	0.0%	0.0%	0.1%	0.1%	0.1%
May 2021	Monday 17 May 21	Tuesday 11 May 21	Wednesday 12 May 21	Thursday 13 May 21	Friday 14 May 21	Saturday 15 May 21	Sunday 16 May 21	5 Day Mean	7 Day Mean
0000-2400 Vehicle Flow	1383	1324	1336	1298	1368	1086	982	1342	1254
Mean Speed (mph)	20.8	21.6	21.8	20.9	20.6	21.4	21.0	21.1	21.2
85%ile Speed (mph)	25.8	26.5	26.7	25.6	24.9	26.4	25.3	25.9	25.9
No. Vehicles > 20 MPH Limit	775	817	904	724	734	651	559	791	738
% Vehicles > 20 MPH Limit	56.0%	61.7%	67.7%	55.8%	53.7%	59.9%	56.9%	58.9%	58.8%
No. Vehicles > 35 MPH	7	20	13	11	9	11	10	12	12
% Vehicles > 35 MPH	0.5%	1.5%	1.0%	0.8%	0.7%	1.0%	1.0%	0.9%	0.9%
September 2021	Monday 06 Sep 21	Tuesday 07 Sep 21	Wednesday 08 Sep 21	Thursday 09 Sep 21	Friday 10 Sep 21	Saturday 11 Sep 21	Sunday 12 Sep 21	5 Day Mean	7 Day Mean
0000-2400 Vehicle Flow	663	1242	1238	1197	1293	1054	919	1127	1087
Mean Speed (mph)	21.2	22.0	21.6	21.3	21.4	21.8	21.7	21.5	21.6
85%ile Speed (mph)	25.7	25.9	25.8	25.7	25.5	26.2	26.9	25.7	26.0
No. Vehicles > 20 MPH Limit	420	877	816	742	813	712	592	734	710
% Vehicles > 20 MPH Limit	63.3%	70.6%	65.9%	62.0%	62.9%	67.6%	64.4%	65.1%	65.4%
No. Vehicles > 35 MPH	3	12	10	8	8	9	10	8	9
% Vehicles > 35 MPH	0.5%	1.0%	0.8%	0.7%	0.6%	0.9%	1.1%	0.7%	0.8%

4.2.23 Table 22 shows that the 5-day average traffic flows were lowest in February 2021 when Scotland was in a period of lockdown. Conversely, the mean speed was highest at 23.0mph. The flows in September 2021 were lower than May 2021.

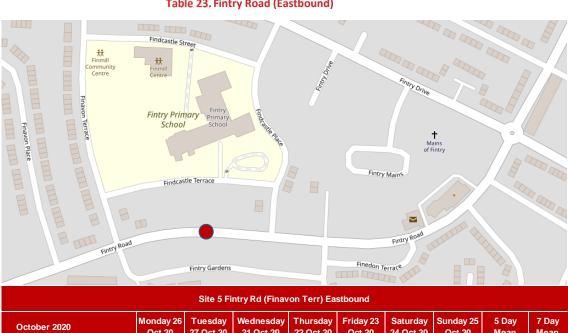
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- 4.2.24 The proportion of vehicles exceeding 20mph was higher in February 2021 (76.5%), when compared to October 2020, May 2021 and September 2021 (54.9%, 58.9% and 65.1% respectively).
- 4.2.25 Table 23 presents the results for Fintry Road (Eastbound) in Dundee.





		Site 5 Fi	ntry Rd (Finav	on Terr) Ea	stoouna				
October 2020	Monday 26 Oct 20	Tuesday 27 Oct 20	Wednesday 21 Oct 20	Thursday 22 Oct 20	Friday 23 Oct 20	Saturday 24 Oct 20	Sunday 25 Oct 20	5 Day Mean	7 Day Mean
0000-2400 Vehicle Flow	1119	1135	1244	1294	1291	1056	872	1217	1144
Mean Speed (mph)	21.0	21.1	14.7	15.5	21.4	21.3	21.9	18.7	19.6
85%ile Speed (mph)	24.9	25.0	18.0	18.8	25.4	25.6	26.0	22.4	23.4
No. Vehicles > 20 MPH Limit	682	702	68	136	841	646	593	486	524
% Vehicles > 20 MPH Limit	60.9%	61.9%	5.5%	10.5%	65.1%	61.2%	68.0%	40.8%	47.6%
No. Vehicles > 35 MPH	5	1	2	2	9	4	6	4	4
% Vehicles > 35 MPH	0.4%	0.1%	0.2%	0.2%	0.7%	0.4%	0.7%	0.3%	0.4%
February 2021	Monday 22 Feb 21	Tuesday 23 Feb 21	Wednesday 24 Feb 21	Thursday 25 Feb 21	Friday 19 Feb 21	Saturday 20 Feb 21	Sunday 21 Feb 21	5 Day Mean	7 Day Mean
0000-2400 Vehicle Flow	1114	1095	1145	1218	1225	985	833	1159	1088
Mean Speed (mph)	26.3	26.0	26.3	26.8	26.5	26.6	27.6	26.4	26.6
85%ile Speed (mph)	31.2	30.4	31.3	31.3	31.4	31.4	32.2	31.1	31.3
No. Vehicles > 20 MPH Limit	1006	986	1025	1135	1116	900	774	1054	992
% Vehicles > 20 MPH Limit	90.3%	90.0%	89.5%	93.2%	91.1%	91.4%	92.9%	90.8%	91.2%
No. Vehicles > 35 MPH	1	6	6	3	4	0	6	4	4
% Vehicles > 35 MPH	0.1%	0.5%	0.5%	0.2%	0.3%	0.0%	0.7%	0.3%	0.3%
May 2021	Monday 03 May 21	Tuesday 04 May 21	Wednesday 05 May 21	Thursday 06 May 21	Friday 07 May 21	Saturday 08 May 21	Sunday 09 May 21	5 Day Mean	7 Day Mean
0000-2400 Vehicle Flow	1021	1219	1289	1173	1379	1120	885	1216	1155
Mean Speed (mph)	24.9	25.4	25.1	25.2	25.2	25.3	25.7	25.2	25.3
85%ile Speed (mph)	29.5	29.6	29.7	29.9	29.8	30.2	30.3	29.7	29.9
No. Vehicles > 20 MPH Limit	866	1090	1132	1024	1218	979	777	1066	1012
% Vehicles > 20 MPH Limit	84.8%	89.4%	87.8%	87.3%	88.3%	87.4%	87.8%	87.7%	87.6%
No. Vehicles > 35 MPH	21	15	29	26	33	18	25	25	24
% Vehicles > 35 MPH	2.1%	1.2%	2.2%	2.2%	2.4%	1.6%	2.8%	2.0%	2.1%
September 2021	Monday 06	Tuesday	Wednesday	Thursday	Friday 10	Saturday	Sunday 12	5 Day	7 Day
Ocpteriber 2021	Sep 21	07 Sep 21	08 Sep 21	09 Sep 21	Sep 21	11 Sep 21	Sep 21	Mean	Mean
0000-2400 Vehicle Flow	1244	1210	1269	1262	1433	1204	971	1284	1228
Mean Speed (mph)	25.8	26.0	26.0	25.5	25.5	26.2	26.5	25.8	25.9
85%ile Speed (mph)	30.4	30.5	30.5	30.3	30.3	31.1	31.1	30.4	30.6
No. Vehicles > 20 MPH Limit	1116	1082	1143	1096	1280	1079	884	1143	1097
% Vehicles > 20 MPH Limit	89.7%	89.4%	90.1%	86.8%	89.3%	89.6%	91.0%	89.1%	89.4%
No. Vehicles > 35 MPH	39	46	27	33	37	37	39	36	37
% Vehicles > 35 MPH	3.1%	3.8%	2.1%	2.6%	2.6%	3.1%	4.0%	2.8%	3.0%

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- 4.2.26 Table 23 shows that the 5-day average traffic flows were slightly lower in February 2021 when Scotland was in a period of lockdown. Conversely, the mean speed was highest at 26.4mph. The highest flow was observed in September 2021, when the mean speed was 25.8mph.
- 4.2.27 The proportion of vehicles exceeding 20mph was highest in February 2021 (90.8%), slightly lower in May 2021 at 87.7%, and lowest in October 2020 (40.8%), before rising again in September 2021 (89.1%).

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4.2.29 Table 24 presents the results for Fintry Road (Westbound) in Dundee.

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Centre

Fintry Primary
School
School
School
Fintry Road

Table 24. Fintry Road (Westbound)

	TA TE				Finedon 1		HNE		
		Site 5 Fi	ntry Rd (Finav	on Terr) We	stbound				
October 2020	Monday 26 Oct 20	Tuesday 27 Oct 20	Wednesday 21 Oct 20	Thursday 22 Oct 20	Friday 23 Oct 20	Saturday 24 Oct 20	Sunday 25 Oct 20	5 Day Mean	7 Day Mean
0000-2400 Vehicle Flow	1455	1512	1563	1570	1683	1349	1152	1557	1469
Mean Speed (mph)	21.6	21.5	16.3	16.2	21.6	22.1	22.2	19.4	20.2
85%ile Speed (mph)	25.7	25.6	20.5	20.9	25.4	26.2	26.4	23.6	24.4
No. Vehicles > 20 MPH Limit	993	995	285	308	1124	952	819	741	782
% Vehicles > 20 MPH Limit	68.2%	65.8%	18.2%	19.6%	66.8%	70.6%	71.1%	47.7%	54.39
No. Vehicles > 35 MPH	6	4	2	2	6	7	7	4	5
% Vehicles > 35 MPH	0.4%	0.3%	0.1%	0.1%	0.4%	0.5%	0.6%	0.3%	0.3%
	Monday 22	Tuesday	Wednesday	Thursday	Friday 19	Saturday	Sunday 21	5 Day	7 Da
February 2021	Feb 21	23 Feb 21	24 Feb 21	25 Feb 21	Feb 21	20 Feb 21	Feb 21	Mean	Mear
0000-2400 Vehicle Flow	1324	1338	1431	1431	1390	1163	974	1383	1293
Mean Speed (mph)	26.2	25.6	25.8	26.6	26.3	26.9	27.3	26.1	26.4
35%ile Speed (mph)	30.7	30.4	30.4	31.0	31.0	31.2	32.0	30.7	31.0
No. Vehicles > 20 MPH Limit	1201	1182	1277	1334	1267	1089	897	1252	1178
% Vehicles > 20 MPH Limit	90.7%	88.3%	89.2%	93.2%	91.2%	93.6%	92.1%	90.5%	91.29
No. Vehicles > 35 MPH	4	2	1	5	3	5	4	3	3
% Vehicles > 35 MPH	0.3%	0.1%	0.1%	0.3%	0.2%	0.4%	0.4%	0.2%	0.3%
May 2021	Monday 03	Tuesday	Wednesday	Thursday	Friday 07	Saturday	Sunday 09	5 Day	7 Da
Way 2021	May 21	04 May 21	05 May 21	06 May 21	May 21	08 May 21	May 21	Mean	Mea
0000-2400 Vehicle Flow	1326	1544	1537	1541	1798	1433	1123	1549	1472
Mean Speed (mph)	25.8	26.1	25.8	26.1	25.7	26.2	26.4	25.9	26.0
85%ile Speed (mph)	30.5	30.8	30.4	30.7	30.5	30.8	31.3	30.6	30.7
No. Vehicles > 20 MPH Limit	1171	1397	1375	1391	1575	1299	1012	1382	1317
% Vehicles > 20 MPH Limit	88.3%	90.5%	89.5%	90.3%	87.6%	90.6%	90.1%	89.2%	89.5%
No. Vehicles > 35 MPH	30	51	48	56	48	54	46	47	48
% Vehicles > 35 MPH	2.3%	3.3%	3.1%	3.6%	2.7%	3.8%	4.1%	3.0%	3.2%
September 2021	Monday 06 Sep 21	Tuesday 07 Sep 21	Wednesday 08 Sep 21	Thursday 09 Sep 21	Friday 10 Sep 21	Saturday 11 Sep 21	Sunday 12 Sep 21	5 Day Mean	7 Da Mea
0000-2400 Vehicle Flow	1480	1541	1563	1482	1802	1557	1284	1574	1530
Mean Speed (mph)	26.9	27.2	27.3	26.5	26.6	27.5	27.6	26.9	27.1
85%ile Speed (mph)	31.7	31.7	32.0	31.7	31.4	32.0	32.7	31.7	31.9
No. Vehicles > 20 MPH Limit	1355	1444	1466	1349	1646	1451	1192	1452	1415
% Vehicles > 20 MPH Limit	91.6%	93.7%	93.8%	91.0%	91.3%	93.2%	92.8%	92.3%	92.5
No. Vehicles > 35 MPH	69	82	91	66	78	88	99	77	82
% Vehicles > 35 MPH	4.7%	5.3%	5.8%	4.5%	4.3%	5.7%	7.7%	4.9%	5.4%

4.2.30 Table 24 shows that the 5-day average traffic flows were lowest in February 2021 when Scotland was in a period of lockdown when the mean speed was 26.1mph. The flows in the

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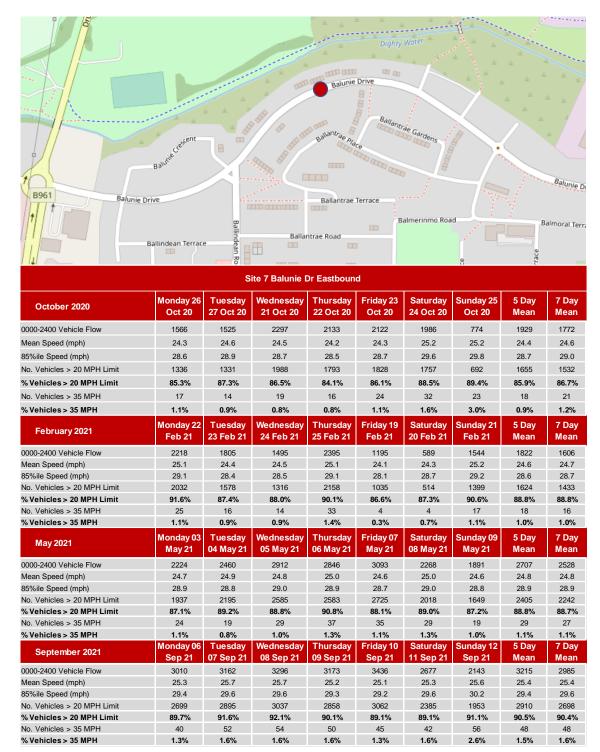
other 3 months were very similar, whilst the highest speed was recorder in September 2021 (26.9 mph).

- 4.2.31 The proportion of vehicles exceeding 20mph was highest in September 2021 (92.3%), then lower in February 2021 at 90.5%, lower again in May 2021 at 89.2%, and lowest in October 2020 at 47.7%.
- 4.2.32 Table 25 presents the results for Balunie Drive Eastbound in Dundee.





Table 25. Balunie Drive (Eastbound)



- 4.2.33 Table 25 shows that the 5-day average traffic flows were lowest in February 2021 when Scotland was in a period of lockdown. Conversely, the mean speed was 26.4mph. The highest flow was observed in September 2021 when the mean speed was also highest at 25.4mph.
- 4.2.34 The proportion of vehicles exceeding 20mph in February and May 2021 was 88.8%, higher than October 2020 at 85.9%. The highest proportion was in September 2021 (90.5%).

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4.2.35 Table 26 presents the results for Balunie Drive(Westbound) in Dundee.

Balunie Drive

Balunie Drive

Balunie Drive

Balunie Drive

Balunie Drive

Balunie Drive

Table 26. Balunie Drive (Westbound)

B961 Baluni	e Drive			Ballantrae		almerinmo Roa		1	Balunie D
	Ballindean Terrace	Ballindean Ro		ntrae Road		aimerinino roa		B	almoral Terr
	-	an R					a.	race	
			ite 7 Balunie [Or Westbour	nd		0		
October 2020	Monday 26 Oct 20	Tuesday 27 Oct 20	Wednesday 21 Oct 20	Thursday 22 Oct 20	Friday 23 Oct 20	Saturday 24 Oct 20	Sunday 25 Oct 20	5 Day Mean	7 Day Mean
0000-2400 Vehicle Flow	1716	1825	2606	2401	2517	1555	872	2213	1927
Mean Speed (mph)	25.9	26.1	26.4	26.2	26.1	27.3	27.2	26.1	26.5
85%ile Speed (mph)	30.2	30.4	30.7	30.5	30.5	31.9	31.7	30.5	30.8
No. Vehicles > 20 MPH Limit	1571	1691	2454	2243	2329	1483	830	2058	1800
% Vehicles > 20 MPH Limit	91.6%	92.7%	94.2%	93.4%	92.5%	95.4%	95.2%	92.9%	93.6%
No. Vehicles > 35 MPH	44	42	57	59	48	93	29	50	53
% Vehicles > 35 MPH	2.6%	2.3%	2.2%	2.5%	1.9%	6.0%	3.3%	2.3%	2.8%
February 2021	Monday 22 Feb 21	Tuesday 23 Feb 21	Wednesday 24 Feb 21	Thursday 25 Feb 21	Friday 19 Feb 21	Saturday 20 Feb 21	Sunday 21 Feb 21	5 Day Mean	7 Day Mean
0000-2400 Vehicle Flow	2477	2056	1530	2711	1375	692	1605	2030	1778
Mean Speed (mph)	26.1	25.9	26.3	26.2	25.5	26.4	26.8	26.0	26.2
85%ile Speed (mph)	30.3	29.8	30.4	30.4	29.6	30.5	31.2	30.1	30.3
No. Vehicles > 20 MPH Limit	2323	1928	1442	2546	1268	657	1508	1901	1667
% Vehicles > 20 MPH Limit	93.8%	93.8%	94.2%	93.9%	92.2%	94.9%	94.0%	93.6%	93.8%
No. Vehicles > 35 MPH	46	41	43	69	16	20	68	43	43
% Vehicles > 35 MPH	1.9%	2.0%	2.8%	2.5%	1.2%	2.9%	4.2%	2.1%	2.4%
May 2021	Monday 03 May 21	Tuesday 04 May 21	Wednesday 05 May 21	Thursday 06 May 21	Friday 07 May 21	Saturday 08 May 21	Sunday 09 May 21	5 Day Mean	7 Day Mean
0000-2400 Vehicle Flow	2631	2900	3558	3444	3769	2532	2103	3260	2991
Mean Speed (mph)	25.8	25.7	25.8	25.6	25.6	26.3	25.6	25.7	25.8
85%ile Speed (mph)	30.1	29.9	29.9	29.8	29.8	30.7	30.3	29.9	30.1
No. Vehicles > 20 MPH Limit	2419	2645	3344	3170	3446	2362	1851	3005	2748
% Vehicles > 20 MPH Limit	91.9%	91.2%	94.0%	92.0%	91.4%	93.3%	88.0%	92.2%	91.9%
No. Vehicles > 35 MPH	57	63	58	55	75	79	61	62	64
% Vehicles > 35 MPH September 2021	2.2% Monday 06	Tuesday	1.6% Wednesday	1.6% Thursday	Friday 10	3.1% Saturday	2.9% Sunday 12	1.9% 5 Day	2.1% 7 Day
0000 0400 \/-bi-' 5'	Sep 21	07 Sep 21	08 Sep 21	09 Sep 21	Sep 21	11 Sep 21	Sep 21	Mean	Mean
0000-2400 Vehicle Flow Mean Speed (mph)	2600 24.2	2677 25.0	2741 24.6	2634 24.7	2880 24.3	2400 24.7	1894 24.7	2706 24.6	2547 24.6
85%ile Speed (mph)	24.2	29.0	28.4	28.5	28.1	28.7	28.6	28.4	28.5
No. Vehicles > 20 MPH Limit	2219	2397	2428	2354	2491	2116	1690	2378	2242
% Vehicles > 20 MPH Limit	85.3%	89.5%	88.6%	89.4%	86.5%	88.2%	89.2%	87.9%	88.0%
No. Vehicles > 35 MPH	15	19	26	12	25	32	22	19	22
% Vehicles > 35 MPH	0.6%	0.7%	0.9%	0.5%	0.9%	1.3%	1.2%	0.7%	0.8%

4.2.36 Table 26 shows that the 5-day average traffic flows were lowest in February 2021 when Scotland was in a period of lockdown. The mean speed was highest at 26.0mph, similar to October 2020 (26.1mph). The flow in May 2021 was higher than September 2021.

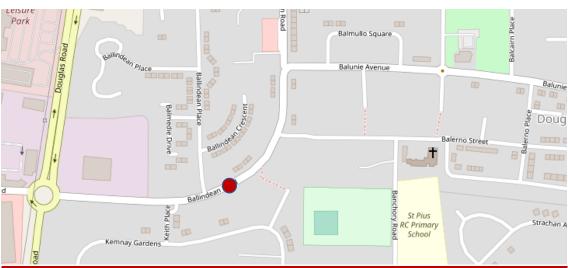
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- 4.2.37 The proportion of vehicles exceeding 20mph in February 2021 was 93.6%, similar to October 2020 (92.9%). The lowest proportion was observed in September 2021 (87.9%).
- 4.2.38 Table 27 presents the results for Ballindean Road (Eastbound) in Dundee.

Table 27. Ballindean Road (Eastbound)



100								_	
		Site 8 Balli	ndean Rd (Ba	llindean PI)	Eastbound				
October 2020	Monday 26 Oct 20	Tuesday 27 Oct 20	Wednesday 21 Oct 20	Thursday 22 Oct 20	Friday 23 Oct 20	Saturday 24 Oct 20	Sunday 25 Oct 20	5 Day Mean	7 Day Mean
0000-2400 Vehicle Flow	3066	3218	3207	877	3533	3471	2488	2780	2837
Mean Speed (mph)	24.1	23.6	23.4	24.4	24.0	24.1	24.8	23.9	24.1
85%ile Speed (mph)	28.3	27.9	27.8	28.8	28.2	28.5	29.1	28.2	28.4
No. Vehicles > 20 MPH Limit	2561	2620	2602	737	2997	2872	2189	2303	2368
% Vehicles > 20 MPH Limit	83.5%	81.4%	81.1%	84.0%	84.8%	82.7%	88.0%	83.0%	83.7%
No. Vehicles > 35 MPH	24	18	16	13	25	19	27	19	20
% Vehicles > 35 MPH	0.8%	0.6%	0.5%	1.5%	0.7%	0.5%	1.1%	0.7%	0.7%
February 2021	Monday 22 Feb 21	Tuesday 23 Feb 21	Wednesday 24 Feb 21	Thursday 25 Feb 21	Friday 19 Feb 21	Saturday 20 Feb 21	Sunday 21 Feb 21	5 Day Mean	7 Day Mean
0000-2400 Vehicle Flow	2750	2777	2847	2990	3264	2523	2194	2926	2764
Mean Speed (mph)	24.6	24.4	24.1	24.6	24.0	24.8	25.4	24.3	24.6
85%ile Speed (mph)	28.5	28.3	28.2	28.7	28.2	29.1	29.5	28.4	28.6
No. Vehicles > 20 MPH Limit	2426	2414	2357	2597	2746	2231	2003	2508	2396
% Vehicles > 20 MPH Limit	88.2%	86.9%	82.8%	86.9%	84.1%	88.4%	91.3%	85.8%	86.9%
No. Vehicles > 35 MPH	2	1	1	5	1	1	0	2	2
% Vehicles > 35 MPH	0.1%	0.0%	0.0%	0.2%	0.0%	0.0%	0.0%	0.1%	0.1%
May 2021	Monday 03 May 21	Tuesday 04 May 21	Wednesday 05 May 21	Thursday 06 May 21	Friday 07 May 21	Saturday 08 May 21	Sunday 09 May 21	5 Day Mean	7 Day Mean
0000-2400 Vehicle Flow	2858	3382	3445	3546	3824	3074	2492	3411	3232
Mean Speed (mph)	24.1	24.0	23.9	23.8	23.9	24.3	24.8	23.9	24.1
85%ile Speed (mph)	28.3	28.3	27.9	27.7	28.1	28.2	28.6	28.1	28.2
No. Vehicles > 20 MPH Limit	2420	2847	2890	2983	3187	2652	2222	2865	2743
% Vehicles > 20 MPH Limit	84.7%	84.2%	83.9%	84.1%	83.3%	86.3%	89.2%	84.0%	84.9%
No. Vehicles > 35 MPH	11	20	17	15	30	18	16	19	18
% Vehicles > 35 MPH	0.4%	0.6%	0.5%	0.4%	0.8%	0.6%	0.6%	0.5%	0.6%
September 2021	Monday 06 Sep 21	Tuesday 07 Sep 21	Wednesday 08 Sep 21	Thursday 09 Sep 21	Friday 10 Sep 21	Saturday 11 Sep 21	Sunday 12 Sep 21	5 Day Mean	7 Day Mean
0000-2400 Vehicle Flow	3137	0	0	0	3586	3056	2474	3362	3063
Mean Speed (mph)	24.1	-	-	-	23.7	24.6	25.1	23.9	24.4
85%ile Speed (mph)	28.1	-	-	-	27.6	28.6	29.0	27.9	28.3
No. Vehicles > 20 MPH Limit	2690	0	0	0	2999	2677	2246	2845	2653
% Vehicles > 20 MPH Limit	85.8%	-	-	-	83.6%	87.6%	90.8%	84.6%	86.6%
No. Vehicles > 35 MPH	24	0	0	0	19	30	27	22	25
% Vehicles > 35 MPH	0.8%	-	-	-	0.5%	1.0%	1.1%	0.6%	0.8%

Counter damaged between 1100 on Tuesday 7 September 2021 until 1140 on Thursday 9th September 2021

Tactran Mode Share Surveys	
Dundee City Council Area	GB01T20C61
Survey Report	16/12/2021





- 4.2.39 Table 27 shows that the 5-day average traffic flows were lowest in October 2020 and higher in February 2021 when Scotland was in a period of lockdown. The mean speed was highest at 24.3mph in February 2021.
- 4.2.40 The average proportion of vehicles exceeding 20mph was highest in February 2021 (85.8%), similar to October 2020, May 2021 and September 2021 (83.0%, 84.0% and 84.6% respectively).
- 4.2.41 Table 28 presents the results for Ballindean Road (Westbound) in Dundee.



85%ile Speed (mph)

No. Vehicles > 20 MPH Limit

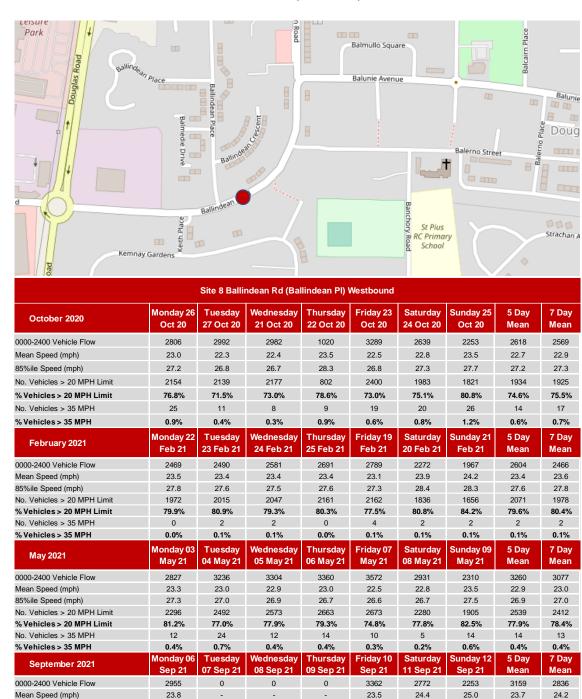
% Vehicles > 20 MPH Limit

No. Vehicles > 35 MPH

% Vehicles > 35 MPH



Table 28. Ballindean Road (Westbound)



4.2.42 Table 28 shows that the 5-day average traffic flows were lowest in February 2021 when Scotland was in a period of lockdown, however has a similar vehicle flow in October 2020. The mean speed was highest at 23.7mph in September 2021.

27.7

2722

81.0%

25

0

28.6

2371

85.5%

32

29.1

2010

89.2%

39

27.9

2586

81.9%

25

28.4 2388

84.2%

30

Tactran Mode Share Surveys	
Dundee City Council Area	GB01T20C61
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28.0

2449

82.9%

24

0





4.2.43	The average proportion of vehicles e	xceeding 20mph w	as highest in September	2021 (81.9%),
	similar to October 2020, February 20)21 and May 2021 ((74.6%, 79.6% and 77.9%	respectively).

Tactran Mode Share Surveys	
Dundee City Council Area	GB01T20C61
Survey Report	16/12/2021





Broughty Ferry

4.2.45 Table 29 presents the results for The Esplanade (Eastbound) in Broughty Ferry.

Table 29. The Esplanade (Eastbound)

Broughty Ferry Local

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Site 1 The Esplanade Eastbound Tuesdav Thursday Saturdav Monday 26 Friday 23 Sunday 25 5 Day 7 Day October 2020 27 Oct 24 Oct 22 Oct Oct 2020 Oct 2020 Oct 2020 Mean 21 Oct 2020 Mean 2020 2020 0000-2400 Vehicle Flow 316 269 212 169 182 192 235 230 225 Mean Speed (mph) 17.5 17.6 16.3 16.0 16.2 18.0 17.4 16.7 17.0 85%ile Speed (mph) 21.4 21.7 20.4 20.9 21.0 22.2 21.5 21.1 21.3 No. Vehicles > 20 MPH Limit 81 78 38 34 33 52 62 53 54 25.6% 27.1% 22.2% 23.5% % Vehicles > 20 MPH Limit 29.0% 17.9% 20.1% 18.1% 26.4% No. Vehicles > 35 MPH 0 0 2 0 0 1 2 0 1 % Vehicles > 35 MPH 0.0% 0.0% 0.9% 0.0% 0.0% 0.5% 0.9% 0.2% 0.3% uesday hursda Saturda Monday 22 Wednesday Friday 26 Sunday 21 5 Day 7 Day February 2021 23 Feb 25 Feb 20 Feb Feb 2021 24 Feb 2021 Feb 2021 eb 2021 Mean Mean 2021 2021 2021 254 0000-2400 Vehicle Flow 262 96 216 262 330 191 421 233 Mean Speed (mph) 17.9 18.2 17.8 18.1 17.6 17.3 17.9 17.9 17.8 85%ile Speed (mph) 22.3 21.9 21.4 21.8 21.1 20.5 21.4 21.7 21.5 No. Vehicles > 20 MPH Limit 80 24 59 41 106 64 66 74 81 % Vehicles > 20 MPH Limit 27.3% 30.5% 25.0% 28.2% 24.5% 21.5% 25.2% 27.1% 26.0% No. Vehicles > 35 MPH 0 0 0 0 0 0 0 0 0 % Vehicles > 35 MPH 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% uesda hursda Saturda^a Monday 10 Wednesday Sunday 09 Friday 07 5 Day 7 Day May 2021 04 May 06 May 08 May May 2021 05 May 2021 May 2021 May 2021 Mean Mean 2021 2021 0000-2400 Vehicle Flow 377 343 403 386 463 290 522 394 398 18.7 18.9 18.5 18.9 18.3 18.9 18.8 Mean Speed (mph) 18.8 19.5 85%ile Speed (mph) 23.3 23.6 23.3 24.5 23.3 23.7 22.3 23.6 23.4 No. Vehicles > 20 MPH Limit 137 124 159 167 169 110 176 151 149 % Vehicles > 20 MPH Limit 36.3% 36.2% 39.5% 43.3% 36.5% 37.9% 33.7% 38.3% 37.4% No. Vehicles > 35 MPH 0 0 0 0 % Vehicles > 35 MPH 0.5% 0.3% 0.2% 0.0% 0.0% 0.0% 0.0% 0.2% 0.1% uesdav hursda Saturda^a Monday 06 Wednesday Friday 10 Sunday 12 5 Day 7 Day September 2021 07 Sep 09 Sep 11 Sep Sep 2021 08 Sep 2021 Sep 2021 Sep 2021 Mean Mean 2021 2021 2021 0000-2400 Vehicle Flow 494 676 710 409 520 630 487 562 561 18.9 19.3 19.0 19.2 19.7 19.7 19.1 19.2 19.3 Mean Speed (mph) 85%ile Speed (mph) 23.5 24.2 23.8 23.6 24.2 23.8 23.6 23.9 23.8 No. Vehicles > 20 MPH Limit 201 317 303 179 260 310 207 252 254 % Vehicles > 20 MPH Limit 40.7% 46.9% 42.7% 43.8% 50.0% 49.2% 42.5% 44.9% 45.3% No. Vehicles > 35 MPH % Vehicles > 35 MPH 0.0% 0.3% 0.0% 0.2% 0.2%

Tactran Mode Share Surveys	
Dundee City Council Area	GB01T20C61
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- 4.2.46 Table 29 shows that the 5-day average traffic flows were lowest in October 2020, however had a similar vehicle flow in February 2021 when Scotland was in a period of lockdown. The mean speed was highest at 19.2mph in September 2021.
- 4.2.47 The average proportion of vehicles exceeding 20mph in May 2021 was 38.3%. In February 2021 this value was 22.2%, and higher in February 2021 (27.1%). The highest proportion was in September 2021 (44.9%).

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4.2.49 Table 30 presents the results for The Esplanade (Westbound) in Broughty Ferry.

Table 30. The Esplanade (Westbound)

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Site 1 The Esplanade Westbound Tuesday Thursday Saturday Monday 26 Friday 23 Sunday 25 5 Day 7 Day Wednesday October 2020 27 Oct 22 Oct 24 Oct Oct 2020 Oct 2020 21 Oct 2020 Oct 2020 Mean Mean 2020 2020 2020 0000-2400 Vehicle Flow 203 170 138 200 171 176 195 151 175 Mean Speed (mph) 17.1 17.0 16.0 16.5 16.7 16.7 85%ile Speed (mph) 21.9 20.3 21.6 20.3 21.9 20.7 21.5 21.2 21.2 57 32 37 30 No. Vehicles > 20 MPH Limit 44 24 45 39 38 % Vehicles > 20 MPH Limit 28.1% 16.4% 25.9% 15.9% 26.8% 17.1% 22.5% 22.6% 21.8% No. Vehicles > 35 MPH 1 0 0 0 0 1 0 0 0 % Vehicles > 35 MPH 0.5% 0.0% 0.0% 0.0% 0.0% 0.6% 0.0% 0.1% 0.2% Monday 22 Wednesday Friday 26 Sunday 21 5 Day 7 Day February 2021 23 Feb 25 Feb 20 Feb Feb 2021 24 Feb 2021 Feb 2021 Feb 2021 Mean Mean 2021 2021 2021 0000-2400 Vehicle Flow 234 327 176 198 188 160 92 204 182 17.2 Mean Speed (mph) 18.4 17.9 17.6 18.3 17.5 16.5 17.9 17.6 85%ile Speed (mph) 22.6 22.8 21.4 22.3 21.4 20.6 21.1 22.1 21.7 No. Vehicles > 20 MPH Limit 59 25 33 61 58 37 71 47 49 % Vehicles > 20 MPH Limit 31.4% 27.2% 20.6% 29.9% 24.8% 20.3% 21.7% 26.8% 25.1% No. Vehicles > 35 MPH 0 0 % Vehicles > 35 MPH 1.1% 0.0% 0.0% 0.0% 0.4% 0.0% 0.0% 0.3% 0.2% uesday Friday 07 5 Dav 7 Day Monday 10 Wednesdav Sunday 09 08 May May 2021 04 May 06 May May 2021 05 May 2021 May 2021 May 2021 Mean Mean 2021 2021 2021 0000-2400 Vehicle Flow 210 224 208 243 269 189 278 231 232 18.3 18.7 18.5 Mean Speed (mph) 18.5 18.8 19.3 18.5 18.4 18.0 85%ile Speed (mph) 22.4 22.0 22.9 23.7 23.0 22.2 21.5 22.8 22.5 No. Vehicles > 20 MPH Limit 65 72 74 98 90 62 79 80 77 % Vehicles > 20 MPH Limit 31.0% 32.1% 35.6% 40.3% 33.5% 32.8% 28.4% 34.6% 33.3% No. Vehicles > 35 MPH 0 0 0 0 % Vehicles > 35 MPH 0.0% 0.0% 0.5% 0.0% 0.4% 0.0% 0.0% 0.2% 0.1% Saturday Monday 06 Wednesday Friday 10 Sunday 12 5 Day 7 Day 11 Sep September 2021 07 Sep 09 Sep Sep 2021 08 Sep 2021 Sep 2021 Sep 2021 Mean Mean 2021 2021 2021 0000-2400 Vehicle Flow 282 394 265 306 310 316 370 238 357 Mean Speed (mph) 19.8 20.1 20.7 19.7 19.7 20.1 19.7 20.0 20.0 85%ile Speed (mph) 25.0 24.5 25.3 24 4 23.8 24.5 23.8 24.6 24.5 No. Vehicles > 20 MPH Limit 128 181 224 115 114 179 145 152 155 % Vehicles > 20 MPH Limit 45.4% 48.9% 56.9% 48.3% 43.0% 50.1% 47.4% 49.2% 49.1% No. Vehicles > 35 MPH 0 0 0 0 0 % Vehicles > 35 MPH 0.1% 0.0% 0.5% 0.0% 0.0% 0.4% 0.0% 0.0% 0.2%

Tactran Mode Share Surveys	
Dundee City Council Area	GB01T20C61
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- 4.2.50 Table 30 shows that the 5-day average traffic flows were lowest in October 2020, however had a similar vehicle flow in February 2021 when Scotland was in a period of lockdown. The mean speed was highest at 20.0mph in September 2021.
- 4.2.51 The average proportion of vehicles exceeding 20mph in May 2021 was 34.6%. In February 2021 this value was 26.8%, and higher in February 2021 (22.6%), before increasing further in September 2021 (49.2%).





4.2.53 Table 31 presents the results for Brook Street (Eastbound) in Broughty Ferry.

Table 31. Brook Street (Eastbound)



	157 AHH	- Paris							
Site 2 Brook Street Eastbound									
October 2020	Monday 26 Oct 2020	Tuesday 27 Oct 2020	Wednesday 21 Oct 2020	Thursday 22 Oct 2020	Friday 23 Oct 2020	Saturday 24 Oct 2020	Sunday 25 Oct 2020	5 Day Mean	7 Day Mean
0000-2400 Vehicle Flow	2047	2043	2241	2171	2406	2275	1781	2182	2138
Mean Speed (mph)	16.3	16.9	16.2	16.2	15.4	15.1	17.5	16.2	16.2
85%ile Speed (mph)	20.7	21.3	20.5	20.7	19.6	19.2	21.4	20.6	20.5
No. Vehicles > 20 MPH Limit	385	442	391	407	303	270	443	386	377
% Vehicles > 20 MPH Limit	18.8%	21.6%	17.4%	18.7%	12.6%	11.9%	24.9%	17.8%	18.0%
No. Vehicles > 35 MPH	1	10	2	7	7	3	4	5	5
% Vehicles > 35 MPH	0.0%	0.5%	0.1%	0.3%	0.3%	0.1%	0.2%	0.2%	0.2%
% Vehicles > 33 WF H	0.078	Tuesday	0.178	Thursday	0.3 /8	Saturday	0.278	0.276	0.278
February 2021	Monday 22 Feb 2021	23 Feb 2021	Wednesday 24 Feb 2021	25 Feb 2021	Friday 26 Feb 2021	20 Feb 2021	Sunday 21 Feb 2021	5 Day Mean	7 Day Mean
0000-2400 Vehicle Flow	2028	1677	1923	2001	2348	1900	1779	1995	1951
Mean Speed (mph)	17.3	18.2	18.1	17.9	17.1	17.3	18.2	17.7	17.7
85%ile Speed (mph)	21.4	22.6	22.3	22.1	21.3	21.4	22.3	21.9	21.9
No. Vehicles > 20 MPH Limit	486	558	582	577	508	457	544	542	530
% Vehicles > 20 MPH Limit	24.0%	33.3%	30.3%	28.8%	21.6%	24.1%	30.6%	27.6%	27.5%
No. Vehicles > 35 MPH	0	3	4	3	6	3	3	3	3
% Vehicles > 35 MPH	0.0%	0.2%	0.2%	0.1%	0.3%	0.2%	0.2%	0.2%	0.2%
May 2021	Monday 10 May 2021	Tuesday 04 May 2021	Wednesday 05 May 2021	Thursday 06 May 2021	Friday 07 May 2021	Saturday 08 May 2021	Sunday 09 May 2021	5 Day Mean	7 Day Mean
0000-2400 Vehicle Flow	2286	2555	2516	2502	2908	2434	1995	2553	2457
Mean Speed (mph)	16.5	16.7	16.8	15.7	15.5	16.1	17.6	16.2	16.4
85%ile Speed (mph)	21.1	21.4	21.4	20.5	19.9	20.3	21.5	20.9	20.9
No. Vehicles > 20 MPH Limit	497	587	584	420	423	402	514	502	490
% Vehicles > 20 MPH Limit	21.7%	23.0%	23.2%	16.8%	14.5%	16.5%	25.8%	19.7%	19.9%
No. Vehicles > 35 MPH	2	4	9	6	4	1	4	5	4
% Vehicles > 35 MPH	0.1%	0.2%	0.4%	0.2%	0.1%	0.0%	0.2%	0.2%	0.2%
September 2021	Monday 06 Sep 2021	Tuesday 07 Sep 2021	Wednesday 08 Sep 2021	Thursday 09 Sep 2021	Friday 10 Sep 2021	Saturday 11 Sep 2021	Sunday 12 Sep 2021	5 Day Mean	7 Day Mean
0000-2400 Vehicle Flow	2150	2419	2542	2289	2681	2483	1779	2416	2335
Mean Speed (mph)	16.8	17.2	17.8	16.7	15.9	16.1	18.0	16.9	16.9
85%ile Speed (mph)	21.4	21.7	22.0	21.2	20.3	20.5	22.1	21.3	21.3
No. Vehicles > 20 MPH Limit	495	615	734	497	459	431	533	560	538
% Vehicles > 20 MPH Limit	23.0%	25.4%	28.9%	21.7%	17.1%	17.4%	30.0%	23.2%	23.0%
No. Vehicles > 35 MPH	2	4	1	1	3	4	0	2	2
% Vehicles > 35 MPH	0.1%	0.2%	0.0%	0.0%	0.1%	0.2%	0.0%	0.1%	0.1%

4.2.54 Table 31 shows that the 5-day average traffic flows were lowest in February 2021 when Scotland was in a period of lockdown. The mean speed was highest at 17.7mph in February 2021. The flows in September 2021 were lower than May 2021.

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4.2.55	The average proportion of vehicles exceeding 20mph in February 2021 was 27.6%. In October
	2020, May 2021 and September 2021 it was lower at 17.8%, 19.7% and 23.2% respectively.

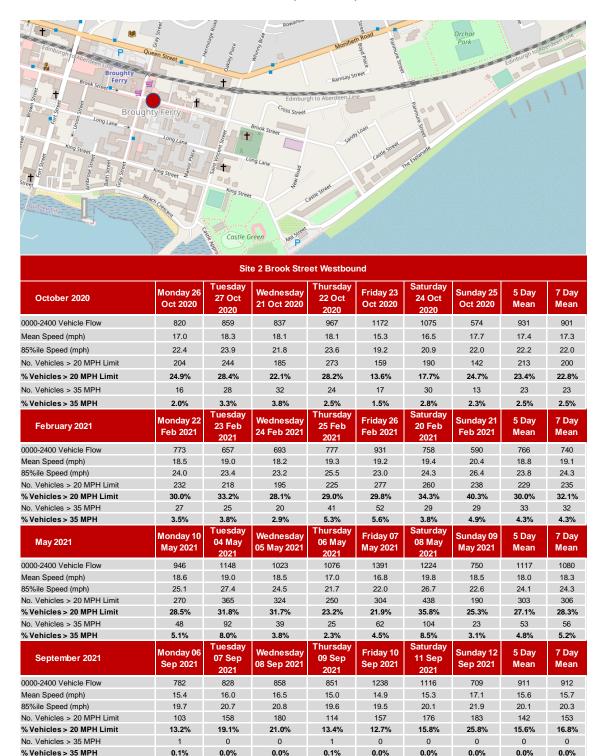
Tactran Mode Share Surveys	
Dundee City Council Area	GB01T20C61
Survey Report	16/12/2021





4.2.57 Table 32 presents the results for Brook Street(Westbound) in Broughty Ferry.

Table 32. Brook Street (Westbound)



4.2.58 Table 32 shows that the 5-day average traffic flows were lowest in February 2021 when Scotland was in a period of lockdown, however has similar vehicle flow in October 2020. The

Tactran Mode Share Surveys	
Dundee City Council Area	GB01T20C61
Survey Report	16/12/2021





mean speed was highest at 18.8mph in February 2021. The flows in September 2021 were comparable with October 2020.

4.2.59 The average proportion of vehicles exceeding 20mph in February 2021 was 30.0%. In October 2020, May 2021 and September 2021 it was lower at 23.4%, 27.1% and 15.6% respectively.

Tactran Mode Share Surveys	
Dundee City Council Area	GB01T20C61
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4.2.61 Table 33 presents the results for King Street (Eastbound) in Broughty Ferry.

A930 Broughty Cross Street **Broughty Ferry** King Street Site 3 King Street Eastbound **Fuesday** Saturday Monday 26 Friday 23 Sunday 25 5 Day Wednesday 7 Day October 2020 27 Oct 22 Oct 24 Oct Oct 2020 21 Oct 2020 Oct 2020 Oct 2020 Mean Mean 2020 2020 2020 0000-2400 Vehicle Flow 817 558 1008 674 797 827 922 681 1127 Mean Speed (mph) 17.6 17.4 17.5 17.3 17.0 16.4 18.1 17.4 17.3 85%ile Speed (mph) 22.3 22.0 22.8 22.0 22.0 21.1 23.3 22.2 22.2 No. Vehicles > 20 MPH Limit 234 252 147 164 267 238 237 213 220 % Vehicles > 20 MPH Limit 28.6% 27.3% 26.3% 24.1% 26.5% 21.1% 35.2% 26.6% 27.0% No. Vehicles > 35 MPH 1 1 0 4 0 0 0 1 1 % Vehicles > 35 MPH 0.1% 0.1% 0.0% 0.6% 0.0% 0.0% 0.0% 0.2% 0.1% Monday 22 Wednesday Friday 26 Sunday 21 5 Day 7 Day February 2021 23 Feb 25 Feb 20 Feb Feb 2021 24 Feb 2021 Feb 2021 Feb 2021 Mean Mean 2021 2021 2021 636 0000-2400 Vehicle Flow 680 651 801 522 669 582 630 586 Mean Speed (mph) 18.6 18.7 18.7 18.4 18.0 18.4 18.4 18.5 18.5 85%ile Speed (mph) 23.7 23.9 23.7 23.5 22.8 24.0 24.0 23.5 23.7 No. Vehicles > 20 MPH Limit 246 221 244 227 260 207 179 240 226 % Vehicles > 20 MPH Limit 36.2% 38.0% 37.5% 36.0% 32.5% 35.3% 34.3% 36.0% 35.7% No. Vehicles > 35 MPH % Vehicles > 35 MPH 0.0% 0.0% 0.5% 0.0% 0.2% 0.2% 0.2% 0.1% 0.2% uesday 7 Day Monday 10 Friday 07 Sunday 09 5 Day Wednesdav 08 May May 2021 04 May 06 May 05 May 2021 May 2021 May 2021 May 2021 Mean Mean 2021 2021 2021 0000-2400 Vehicle Flow 892 981 1086 1057 1173 939 704 1038 976 Mean Speed (mph) 17.7 17.4 16.8 17.1 16.8 16.8 17.6 17.2 17.2 85%ile Speed (mph) 22.8 22.1 21.8 21.9 21.4 21.3 22.8 22.0 22.0 No. Vehicles > 20 MPH Limit 256 253 259 270 267 206 207 261 245 % Vehicles > 20 MPH Limit 28.7% 25.8% 23.8% 25.5% 22.8% 21.9% 29.4% 25.1% 25.1% No. Vehicles > 35 MPH % Vehicles > 35 MPH 0.4% 0.0% 0.1% 0.1% 0.0% 0.4% 0.4% 0.1% 0.2% Saturday 7 Day Monday 06 Wednesday Friday 10 Sunday 12 5 Day 07 Sep 09 Sep 11 Sep September 2021 Sep 2021 08 Sep 2021 Sep 2021 Sep 2021 Mean Mean 2021 2021 2021 0000-2400 Vehicle Flow 1108 1150 981 1341 824 1092 1113 1205 1072 Mean Speed (mph) 16.8 17.1 16.1 16.6 16.0 16.2 17.3 16.5 16.6 85%ile Speed (mph) 21.5 22.0 20.7 21.3 20.5 20.7 22.0 21.2 21.2 No. Vehicles > 20 MPH Limit 234 293 207 238 209 249 275 218 239 21.9% % Vehicles > 20 MPH Limit 23.9% 26.3% 18.7% 22.8% 17.7% 19.5% 26.5% 21.7%

Table 33. King Street (Eastbound)

4.2.62 Table 33 shows that the 5-day average traffic flows were lowest in February 2021 when Scotland was in a period of lockdown, however has similar vehicle flow in October 2020. The

0.4%

Tactran Mode Share Surveys	
Dundee City Council Area	GB01T20C61
Survey Report	16/12/2021

0.1%

0.0%

No. Vehicles > 35 MPH

% Vehicles > 35 MPH

0

0.1%





mean speed was highest at 18.5mph in February 2021. The flows in September 2021 were the highest recorded.

4.2.63 The average proportion of vehicles exceeding 20mph in February 2021 was 36.0%. In October 2020, May 2021 and September 2021 it was lower at 26.6%, 25.1% and 21.7% respectively.

Tactran Mode Share Surveys	
Dundee City Council Area	GB01T20C61
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4.2.65 Table 34 presents the results for King Street (Westbound) in Broughty Ferry.

Table 34. King Street (Westbound) A930 Broughty Cross Street ughty Ferry King Street Site 3 King Street Westbound **Fuesday** Saturday Monday 26 Friday 23 Sunday 25 5 Day 7 Day Wednesday October 2020 27 Oct 22 Oct 24 Oct Oct 2020 21 Oct 2020 Oct 2020 Oct 2020 Mean Mean 2020 2020 0000-2400 Vehicle Flow 2402 1559 1957 2196 2262 2451 2698 1870 2897 Mean Speed (mph) 19.6 18.9 18.8 18.3 18.5 18.8 18.8 85%ile Speed (mph) 24.3 23.8 23.5 22.8 23.5 23.5 24.0 23.6 23.6 No. Vehicles > 20 MPH Limit 1118 1005 624 657 1014 1105 822 884 906 % Vehicles > 20 MPH Limit 46.5% 41.0% 40.0% 35.1% 37.6% 38.1% 42.0% 40.1% 40.1% No. Vehicles > 35 MPH 4 2 1 1 3 9 10 2 4 % Vehicles > 35 MPH 0.2% 0.1% 0.1% 0.1% 0.1% 0.3% 0.5% 0.1% 0.2% Monday 22 Wednesday Friday 26 Sunday 21 5 Day 7 Day February 2021 25 Feb 20 Feb 23 Feb Feb 2021 24 Feb 2021 Feb 2021 Feb 2021 Mean Mean 2021 2021 2021 2054 0000-2400 Vehicle Flow 2108 2128 2547 1881 2111 1737 2033 1943 Mean Speed (mph) 20.0 20.3 20.0 20.1 19.4 19.7 19.3 20.0 19.8 85%ile Speed (mph) 24.6 24.8 24.8 24.9 24.0 24.2 24.2 24.6 24.5 No. Vehicles > 20 MPH Limit 1078 949 1120 1051 1183 938 862 1076 1026 % Vehicles > 20 MPH Limit 51.1% 54.6% 52.6% 51.7% 46.4% 48.3% 45.8% 51.3% 50.1%

No. Vehicles > 35 MPH 10 % Vehicles > 35 MPH 0.4% 0.2% 0.4% 0.3% 0.2% 0.1% 0.5% 0.3% 0.3% uesday Monday 10 Friday 07 Sunday 09 5 Day 7 Day Wednesdav May 2021 08 May 04 May 06 May 05 May 202° May 2021 May 2021 May 2021 Mean Mean 2021 2021 2021 0000-2400 Vehicle Flow 2573 2757 2807 2776 3252 2853 2042 2833 2723 Mean Speed (mph) 19.3 18.9 18.6 18.8 18.6 18.6 19.2 18.8 18.9 85%ile Speed (mph) 24.0 23.8 23.6 23.4 23.3 23.3 23.8 23.6 23.6 No. Vehicles > 20 MPH Limit 1140 1134 1058 1079 1199 1093 877 1122 1083 % Vehicles > 20 MPH Limit 44.3% 41.1% 37.7% 38.9% 36.9% 38.3% 42.9% 39.6% 39.8% No. Vehicles > 35 MPH 6 6 11 % Vehicles > 35 MPH 0.3% 0.2% 0.3% 0.2% 0.3% 0.2% 0.1% 0.3% 0.3% Saturday 7 Day Monday 06 Friday 10 Sunday 12 5 Day Wednesday 07 Sep 09 Sep 11 Sep September 2021 Sep 2021 08 Sep 2021 Sep 2021 Sep 2021 Mean Mean 2021 2021 2021 0000-2400 Vehicle Flow 2599 2965 3337 1957 2930 2754 2945 2806 2668 Mean Speed (mph) 18.4 18.1 17.8 17.6 17.6 18.0 18.5 17.9 18.0 85%ile Speed (mph) 23.0 22.6 22.5 22.5 22.4 22.6 22.9 22.6 22.6 No. Vehicles > 20 MPH Limit 962 994 939 846 996 844 947 708 898 32.6% % Vehicles > 20 MPH Limit 37.0% 33.8% 31.7% 30.1% 29.8% 31.6% 36.2% 32.3% No. Vehicles > 35 MPH 10 % Vehicles > 35 MPH 0.0% 0.2% 0.1%

4.2.66 Table 34 shows that the 5-day average traffic flows were lowest in February 2021 when Scotland was in a period of lockdown, however has similar vehicle flow in October 2020. The

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mean speed was highest at 20.0mph in February 2021. The highest flows were observed in September 2021.

4.2.67 The average proportion of vehicles exceeding 20mph in February 2021 was 51.3%. However, in October 2020 this was 40.1%, similar to May 2021 (39.6%) and September 2021 (32.3%).

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5. LINK COUNT SURVEYS

- 5.1.1 Summary tables below present the results of the link count in the Dundee Council area (four sites located in Dundee and one site located in Broughty Ferry).
- 5.1.2 For each survey, the summary data is presented as a 3-day average (Thursday, Friday & Saturday) and aggregated into the following information:
 - Site Number
 - Site Location
 - Total Flow Directional daily flow
 - AM Peak Pd 07:00-10:00 Vehicle Flow
 - AM Peak Hr 08:00-09:00 Vehicle Flow
 - O IP Peak Pd 10:00-16:00 Vehicle Flow
 - O IP Peak Pd 12:00-13:00 Vehicle Flow
 - PM Peak Pd 16:00-19:00 Vehicle Flow
 - O PM Peak Pd 17:00-18:00 Vehicle Flow
 - Vehicle Proportion





Dundee

5.1.4 Table 35 presents the results for Perth Road, Step Row (Eastbound) in Dundee.

Table 35. Perth Road, Step Row (Eastbound)



Pl	6		U	21	ne	Str. 44			
Site 1 Perth Rd (Step Row) Eastbound (3 day Average Thur - Fri - Sat)									
October 2020	Car	LGV	OGV1	OGV2	Service Bus	Private Coach	Motor Cycle	Pedal Cycle	Total
0600-2200 Vehicle Flow	2309	231	44	1	177	5	12	56	2835
AM Peak Pd 0700-1000 Vehicle Flow	326	51	14	0	33	2	1	8	435
AM Peak Hr 0800-0900 Vehicle Flow	141	19	6	0	13	1	0	2	182
IP Peak Pd 1000-1600 Vehicle Flow	1091	126	23	1	81	2	3	24	1351
IP Peak Pd 1200-1300 Vehicle Flow	208	23	3	0	14	0	0	2	250
PM Peak Pd 1600-1900 Vehicle Flow	549	39	3	0	38	1	3	15	648
PM Peak Pd 1700-1800 Vehicle Flow	189	12	1	0	13	0	1	9	225
0600-2200 Vehicle Proportion	81.5%	8.1%	1.6%	0.0%	6.2%	0.2%	0.4%	2.0%	100.0%
0000-2200 Verlicie i Toportion	01.576				Service	Private	Motor	Pedal	100.078
February 2021	Car	LGV	OGV1	OGV2	Bus	Coach	Cycle	Cycle	Total
0600-2200 Vehicle Flow	1824	218	47	1	188	7	11	65	2360
AM Peak Pd 0700-1000 Vehicle Flow	233	47	17	1	38	3	1	6	345
AM Peak Hr 0800-0900 Vehicle Flow	99	20	7	0	13	1	0	1	141
IP Peak Pd 1000-1600 Vehicle Flow	839	124	19	0	83	4	6	32	1107
IP Peak Pd 1200-1300 Vehicle Flow	137	20	4	0	14	0	1	5	181
PM Peak Pd 1600-1900 Vehicle Flow	465	31	6	0	44	0	2	15	563
PM Peak Pd 1700-1800 Vehicle Flow	167	9	2	0	15	0	1	5	199
0600-2200 Vehicle Proportion	77.3%	9.2%	2.0%	0.1%	8.0%	0.3%	0.5%	2.7%	100.0%
May 2021	Car	LGV	OGV1	OGV2	Service Bus	Private Coach	Motor Cycle	Pedal Cycle	Total
0600-2200 Vehicle Flow	2461	242	44	0	203	6	8	48	3012
AM Peak Pd 0700-1000 Vehicle Flow	329	48	15	0	39	3	0	6	440
AM Peak Hr 0800-0900 Vehicle Flow	158	14	7	0	15	1	0	2	197
IP Peak Pd 1000-1600 Vehicle Flow	1121	126	21	0	92	3	4	23	1390
IP Peak Pd 1200-1300 Vehicle Flow	189	20	2	0	16	0	1	5	233
PM Peak Pd 1600-1900 Vehicle Flow	603	47	3	0	48	0	2	9	712
PM Peak Pd 1700-1800 Vehicle Flow	195	16	1	0	16	0	2	3	232
0600-2200 Vehicle Proportion	81.7%	8.0%	1.5%	0.0%	6.7%	0.2%	0.3%	1.6%	100.0%
September 2021	Car	LGV	OGV1	OGV2	Service Bus	Private Coach	Motor Cycle	Pedal Cycle	Total
0600-2200 Vehicle Flow	2479	259	51	0	199	6	11	40	3046
AM Peak Pd 0700-1000 Vehicle Flow	328	57	15	0	40	4	0	6	449
AM Peak Hr 0800-0900 Vehicle Flow	137	19	8	0	15	2	0	3	183
IP Peak Pd 1000-1600 Vehicle Flow	1096	145	29	0	91	2	4	16	1383
IP Peak Pd 1200-1300 Vehicle Flow	178	27	4	0	14	0	0	4	227
PM Peak Pd 1600-1900 Vehicle Flow	604	43	3	0	43	0	3	10	706
PM Peak Pd 1700-1800 Vehicle Flow	207	13	1	0	15	0	2	4	242
0600-2200 Vehicle Proportion	81.4%	8.5%	1.7%	0.0%	6.5%	0.2%	0.4%	1.3%	100.0%

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5.1.5	Table 35 shows that the car usage proportion decreased from October 2020 to February 2021
	while PT and cycling marginally increased between each survey period. The vehicle
	proportions seen in May 2021 and September 2021 are very similar to October 2020.

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5.1.7 Table 36 presents the results for Perth Road, Step Row(Westbound) in Dundee.

Table 36. Perth Road, Step Row (Westbound)



October 2020	Car	LGV	OGV1	OGV2	Service Bus	Private Coach	Motor Cycle	Pedal Cycle	Total
0600-2200 Vehicle Flow	1999	202	41	0	177	3	6	61	2489
AM Peak Pd 0700-1000 Vehicle Flow	227	37	9	0	37	0	1	6	318
AM Peak Hr 0800-0900 Vehicle Flow	92	15	3	0	13	0	0	2	125
IP Peak Pd 1000-1600 Vehicle Flow	918	114	24	0	80	2	1	28	1168
IP Peak Pd 1200-1300 Vehicle Flow	170	19	3	0	13	0	0	3	209
PM Peak Pd 1600-1900 Vehicle Flow	536	41	4	0	36	0	2	16	635
PM Peak Pd 1700-1800 Vehicle Flow	190	14	1	0	14	0	0	6	225
0600-2200 Vehicle Proportion	80.3%	8.1%	1.6%	0.0%	7.1%	0.1%	0.2%	2.5%	100.0%
					Service	Private	Motor	Pedal	
February 2021	Car	LGV	OGV1	OGV2	Bus	Coach	Cycle	Cycle	Total
0600-2200 Vehicle Flow	1612	181	38	1	188	2	10	66	2100
AM Peak Pd 0700-1000 Vehicle Flow	177	36	11	0	40	0	0	6	270
AM Peak Hr 0800-0900 Vehicle Flow	69	12	3	0	14	0	0	3	101
IP Peak Pd 1000-1600 Vehicle Flow	721	105	22	1	84	2	6	30	971
IP Peak Pd 1200-1300 Vehicle Flow	128	17	4	0	14	0	1	4	168
PM Peak Pd 1600-1900 Vehicle Flow	446	30	2	0	39	0	3	19	539
PM Peak Pd 1700-1800 Vehicle Flow	154	9	1	0	14	0	2	8	187
0600-2200 Vehicle Proportion	76.8%	8.6%	1.8%	0.0%	9.0%	0.1%	0.5%	3.1%	100.0%
May 2021	Car	LGV	OGV1	OGV2	Service Bus	Private Coach	Motor Cycle	Pedal Cycle	Total
0600-2200 Vehicle Flow	2244	217	43	0	203	4	8	50	2770
AM Peak Pd 0700-1000 Vehicle Flow	264	49	11	0	43	1	1	7	376
AM Peak Hr 0800-0900 Vehicle Flow	111	15	4	0	14	1	0	4	149
IP Peak Pd 1000-1600 Vehicle Flow	1005	113	24	0	91	3	4	21	1261
IP Peak Pd 1200-1300 Vehicle Flow	179	20	5	0	16	0	0	4	225
PM Peak Pd 1600-1900 Vehicle Flow	582	37	3	0	45	0	3	13	684
PM Peak Pd 1700-1800 Vehicle Flow	205	14	2	0	17	0	2	5	244
0600-2200 Vehicle Proportion	81.0%	7.8%	1.5%	0.0%	7.3%	0.2%	0.3%	1.8%	100.0%
September 2021	Car	LGV	OGV1	OGV2	Service Bus	Private Coach	Motor Cycle	Pedal Cycle	Total
0600-2200 Vehicle Flow	2247	227	36	1	200	3	9	47	2769
AM Peak Pd 0700-1000 Vehicle Flow	249	48	10	0	45	1	1	4	358
AM Peak Hr 0800-0900 Vehicle Flow	99	16	3	0	14	1	0	1	134
P Peak Pd 1000-1600 Vehicle Flow	969	125	18	1	87	3	2	20	1225
P Peak Pd 1200-1300 Vehicle Flow	173	20	3	0	15	0	0	5	216
PM Peak Pd 1600-1900 Vehicle Flow	596	35	3	0	42	0	3	12	692
PM Peak Pd 1700-1800 Vehicle Flow	198	11	2	0	15	0	2	4	231
0600-2200 Vehicle Proportion	81.1%	8.2%	1.3%	0.0%	7.2%	0.1%	0.3%	1.7%	100.0%

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5.1.8	Table 36 shows similar results to the eastbound direction, again the vehicle proportions in
	May 2021 and September 2021 are very similar to October 2020, with the exception of pedal
	cycles which have shown a decrease.

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5.1.10 Table 37 presents the results for Perth Road, Art School (Eastbound) in Dundee.

Medical Sciences Institute Downtree Building Geddes Building Grawford Building Grawf

Table 37. Perth Road, Art School (Eastbound)

Car 1365 148	LGV	OGV1	OGV2	Service	Private	Motor	Pedal	
			0012	Bus	Coach	Cycle	Cycle	Total
1/18	144	34	1	176	6	8	67	1801
140	34	11	0	32	2	0	9	236
57	11	6	0	13	1	0	3	90
642	81	18	0	81	2	3	32	861
120	16	4	0	13	0	0	4	157
351	21	2	0	36	0	3	16	429
118	6	0	0	13	0	1	8	146
75.8%	8.0%	1.9%	0.1%	9.8%	0.3%	0.4%	3.7%	100.0%
Car	LGV	OGV1	OGV2	Service Bus	Private Coach	Motor	Pedal	Total
1001	147	28	1	188	4	11	79	1458
103	31	9	0	38	2	0	6	189
38	11	5	0	14	1	0	2	69
459	84	12	0	83	1	8	36	683
80	16	2	0	13	1	1	8	121
259	19	4	0	43	0	1	18	344
91	5	1	0	15	0	0	6	118
68.7%	10.1%	1.9%	0.1%	12.9%	0.3%	0.8%	5.4%	100.0%
Car	LGV	OGV1	OGV2	Service Bus	Private Coach	Motor Cycle	Pedal Cycle	Total
1640	134	37	2	197	2	9	61	2082
180	36	9	0	39	2	1	9	277
83	12	3	0	14	1	1	3	117
724	68	22	1	88	1	4	25	934
125	14	3	0	16	0	1	5	164
424	16	_	0	46	0	3	14	505
			-		-			172
78.8%	6.5%	1.8%	0.1%					100.0%
Car	LGV	OGV1	OGV2	Service Bus	Private Coach	Motor Cycle	Pedal Cycle	Total
1496	181	39	2	198	6	10	62	1993
158	37	9	1	40	2	0	10	258
52	13	4	0	15	1	0	4	89
627	108	25	1	89	3	3	28	884
105	20	3	0	14	0	0	5	148
392	23	2	0	44	1	4	15	480
137	6	0	0	14	0	3	8	168
	120 351 118 75.8% Car 1001 103 38 459 80 259 91 68.7% Car 1640 180 83 724 125 424 140 78.8% Car 1496 158 52 627 105 392	120 16 351 21 118 6 75.8% 8.0% Car LGV 1001 147 103 31 38 11 459 84 80 16 259 19 91 5 68.7% 10.1% Car LGV 1640 134 180 36 83 12 724 68 125 14 424 16 140 7 78.8% 6.5% Car LGV 1496 181 158 37 52 13 627 108 105 20 392 23 137 6	120	120 16 4 0 351 21 2 0 118 6 0 0 75.8% 8.0% 1.9% 0.1% Car LGV OGV1 OGV2 1001 147 28 1 103 31 9 0 38 11 5 0 459 84 12 0 80 16 2 0 259 19 4 0 91 5 1 0 68.7% 10.1% 1.9% 0.1% Car LGV OGV1 OGV2 1640 134 37 2 180 36 9 0 83 12 3 0 724 68 22 1 125 14 3 0 424 16 2 0 140	120 16 4 0 13 351 21 2 0 36 118 6 0 0 13 75.8% 8.0% 1.9% 0.1% 9.8% Car LGV OGV1 OGV2 Service Bus 1 188 1 188 1001 147 28 1 188 103 31 9 0 38 38 11 5 0 14 459 84 12 0 83 80 16 2 0 13 259 19 4 0 43 91 5 1 0 15 68.7% 10.1% 1.9% 0.1% 12.9% Car LGV OGV1 OGV2 Service Bus 1640 134 37 2 197 180 36 9	120 16 4 0 13 0 351 21 2 0 36 0 118 6 0 0 13 0 75.8% 8.0% 1.9% 0.1% 9.8% 0.3% Car LGV OGV1 OGV2 Service Bus Private Coach 1001 147 28 1 188 4 103 31 9 0 38 2 38 11 5 0 14 1 459 84 12 0 83 1 80 16 2 0 13 1 259 19 4 0 43 0 91 5 1 0 15 0 68.7% 10.1% 1.9% 0.1% 12.9% 0.3% Car LGV OGV1 OGV2 Service Bus Coach 180 36 </td <td>120 16 4 0 13 0 0 351 21 2 0 36 0 3 118 6 0 0 13 0 1 75.8% 8.0% 1.9% 0.1% 9.8% 0.3% 0.4% Car LGV OGV1 OGV2 Service Bus Private Coach Motor Cycle 1001 147 28 1 188 4 11 103 31 9 0 38 2 0 38 11 5 0 14 1 0 459 84 12 0 83 1 8 80 16 2 0 13 1 1 259 19 4 0 43 0 1 91 5 1 0 15 0 0 68.7% 10.1% 1.9% 0.1% 12.9</td> <td> 120</td>	120 16 4 0 13 0 0 351 21 2 0 36 0 3 118 6 0 0 13 0 1 75.8% 8.0% 1.9% 0.1% 9.8% 0.3% 0.4% Car LGV OGV1 OGV2 Service Bus Private Coach Motor Cycle 1001 147 28 1 188 4 11 103 31 9 0 38 2 0 38 11 5 0 14 1 0 459 84 12 0 83 1 8 80 16 2 0 13 1 1 259 19 4 0 43 0 1 91 5 1 0 15 0 0 68.7% 10.1% 1.9% 0.1% 12.9	120

5.1.11 Table 37 shows that the car usage proportion decreased from October 2020 to February 2021, while PT and cycling marginally increased between each survey period. The modal proportion

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of LGV drivers increased in February 2021 while Scotland was in a period of lockdown. The vehicle proportions observed in May 2021 and September 2021 are very similar to October 2020.

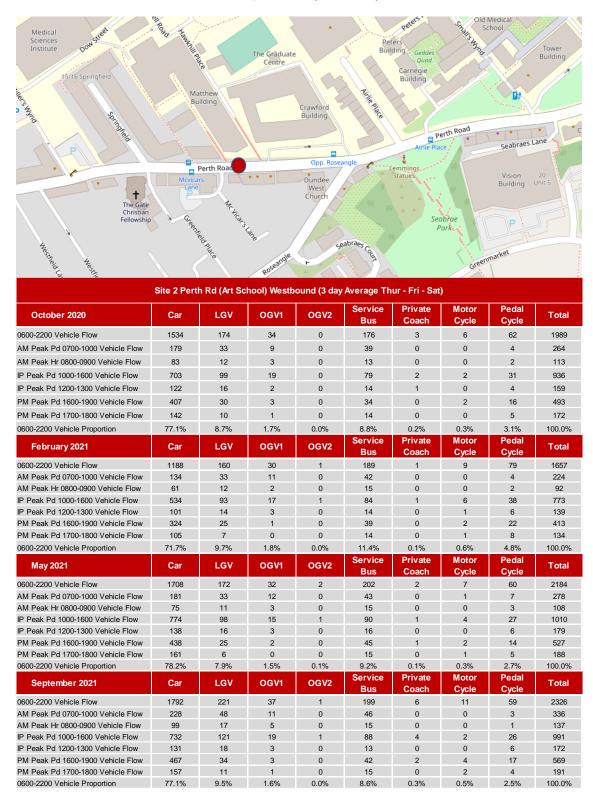
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5.1.13 Table 38 presents the results for Perth Road, Art School (Westbound) in Dundee.

Table 38. Perth Road, Art School (Westbound)



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5.1.14	Table 38 shows that the car usage proportion decreased slightly in February 2021, when
	compared with October 2020. Again, proportions observed in May 2021 and September 2021
	are similar to October 2020.

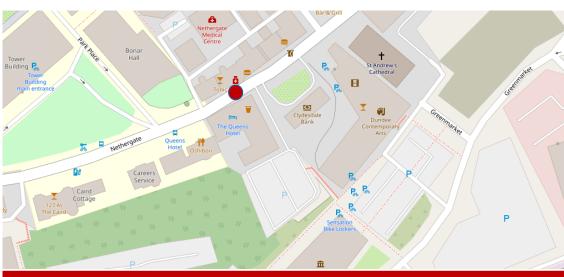
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5.1.16 Table 39 presents the results for Perth Road, Nethergate (Eastbound) in Dundee.

Table 39. Perth Road, Nethergate (Eastbound)



11 44			00	ш					
\$	Site 3 Perth	Road (Neth	ergate) East	bound (3 da	ay Average T	hur - Fri - Sa	at)		
October 2020	Car	LGV	OGV1	OGV2	Service Bus	Private Coach	Motor Cycle	Pedal Cycle	Total
0600-2200 Vehicle Flow	1812	237	44	1	178	4	13	91	2379
AM Peak Pd 0700-1000 Vehicle Flow	188	46	15	0	32	2	1	7	290
AM Peak Hr 0800-0900 Vehicle Flow	75	18	8	0	13	0	0	2	116
IP Peak Pd 1000-1600 Vehicle Flow	780	140	22	0	81	2	3	34	1062
IP Peak Pd 1200-1300 Vehicle Flow	133	26	3	0	13	0	0	5	181
PM Peak Pd 1600-1900 Vehicle Flow	511	36	2	0	38	0	4	33	624
PM Peak Pd 1700-1800 Vehicle Flow	185	12	0	0	13	0	1	14	226
						-			
0600-2200 Vehicle Proportion	76.2%	9.9%	1.9%	0.0%	7.5%	0.2%	0.5%	3.8%	100.0%
February 2021	Car	LGV	OGV1	OGV2	Service Bus	Private Coach	Motor Cycle	Pedal Cycle	Total
0600-2200 Vehicle Flow	1337	198	41	1	193	4	14	97	1885
AM Peak Pd 0700-1000 Vehicle Flow	131	40	15	0	39	2	0	6	234
AM Peak Hr 0800-0900 Vehicle Flow	52	14	8	0	14	1	0	2	90
IP Peak Pd 1000-1600 Vehicle Flow	603	115	19	0	88	1	8	45	880
IP Peak Pd 1200-1300 Vehicle Flow	99	23	3	0	14	0	1	14	155
PM Peak Pd 1600-1900 Vehicle Flow	361	28	4	0	42	0	3	28	466
PM Peak Pd 1700-1800 Vehicle Flow	134	7	1	0	14	0	1	12	168
0600-2200 Vehicle Proportion	70.9%	10.5%	2.2%	0.1%	10.2%	0.2%	0.7%	5.1%	100.0%
May 2021	Car	LGV	OGV1	OGV2	Service Bus	Private Coach	Motor Cycle	Pedal Cycle	Total
0600-2200 Vehicle Flow	2289	244	47	1	205	4	10	68	2868
AM Peak Pd 0700-1000 Vehicle Flow	212	54	15	0	41	1	1	10	335
AM Peak Hr 0800-0900 Vehicle Flow	86	20	6	0	14	1	1	3	130
IP Peak Pd 1000-1600 Vehicle Flow	984	125	25	0	93	2	6	25	1260
IP Peak Pd 1200-1300 Vehicle Flow	174	25	3	0	16	0	2	5	226
PM Peak Pd 1600-1900 Vehicle Flow	678	42	2	0	46	0	2	21	792
PM Peak Pd 1700-1800 Vehicle Flow	267	17	1	0	15	0	1	10	311
0600-2200 Vehicle Proportion	79.8%	8.5%	1.7%	0.0%	7.1%	0.1%	0.3%	2.4%	100.0%
September 2021	Car	LGV	OGV1	OGV2	Service Bus	Private Coach	Motor Cycle	Pedal Cycle	Total
0600-2200 Vehicle Flow	2098	277	51	2	204	6	21	66	2724
AM Peak Pd 0700-1000 Vehicle Flow	209	63	16	1	43	3	2	9	346
AM Peak Hr 0800-0900 Vehicle Flow	85	20	7	0	15	1	2	4	135
IP Peak Pd 1000-1600 Vehicle Flow	860	161	29	1	92	2	4	22	1172
IP Peak Pd 1200-1300 Vehicle Flow	150	30	4	0	15	0	0	5	205
PM Peak Pd 1600-1900 Vehicle Flow	575	37	2	0	44	1	8	22	690
PM Peak Pd 1700-1800 Vehicle Flow	200	11	1	0	14	0	2	11	238
0600-2200 Vehicle Proportion	77.0%	10.2%	1.9%	0.1%	7.5%	0.2%	0.8%	2.4%	100.0%

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5.1.17	Table 39 shows car usage decreased slightly in February 2021, compared to October 2020,
	while Scotland was a in a period of lockdown, before returning to similar levels in May and
	September 2021.

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5.1.19 Table 40 presents the results for Perth Road, Nethergate (Westbound) in Dundee.

Table 40. Perth Road, Nethergate (Westbound) Bona Hall Н P. В. 亩 Site 3 Perth Road (Nethergate) Westbound (3 day Average Thur - Fri - Sat) Private Motor Pedal Service October 2020 LGV OGV1 OGV2 Total Car Cycle Cycle 0600-2200 Vehicle Flow AM Peak Pd 0700-1000 Vehicle Flow AM Peak Hr 0800-0900 Vehicle Flow IP Peak Pd 1000-1600 Vehicle Flow IP Peak Pd 1200-1300 Vehicle Flow PM Peak Pd 1600-1900 Vehicle Flow PM Peak Pd 1700-1800 Vehicle Flow 0600-2200 Vehicle Proportion 77.5% 9.5% 1.8% 0.0% 7.0% 0.1% 0.4% 3.6% 100.0% Moto Pedal Servic Private February 2021 OGV2 LGV OGV1 Car **Total** Bus Cycle Cycle 0600-2200 Vehicle Flow AM Peak Pd 0700-1000 Vehicle Flow AM Peak Hr 0800-0900 Vehicle Flow IP Peak Pd 1000-1600 Vehicle Flow IP Peak Pd 1200-1300 Vehicle Flow PM Peak Pd 1600-1900 Vehicle Flow PM Peak Pd 1700-1800 Vehicle Flow 0600-2200 Vehicle Proportion 72.4% 9.9% 2.0% 0.0% 9.9% 0.0% 0.5% 5.2% 100.0% Moto Pedal Servic Private May 2021 OGV2 LGV OGV1 Total Car Bus Cycle Cycle 0600-2200 Vehicle Flow AM Peak Pd 0700-1000 Vehicle Flow AM Peak Hr 0800-0900 Vehicle Flow IP Peak Pd 1000-1600 Vehicle Flow IP Peak Pd 1200-1300 Vehicle Flow PM Peak Pd 1600-1900 Vehicle Flow PM Peak Pd 1700-1800 Vehicle Flow 1.6% 0.1% 0.3% 2.8% 0600-2200 Vehicle Proportion 79.1% 8.8% 0.0% 7.2% 100.0% Motor Pedal Servic Private September 2021 Car LGV OGV1 OGV2 Total Coach Bus Cycle Cycle 0600-2200 Vehicle Flow AM Peak Pd 0700-1000 Vehicle Flow AM Peak Hr 0800-0900 Vehicle Flow IP Peak Pd 1000-1600 Vehicle Flow IP Peak Pd 1200-1300 Vehicle Flow

0.1%

0.5%

0600-2200 Vehicle Proportion 77.6% 9.7% 1.5% 0.1%

5.1.20 Table 40 shows similar results to the eastbound direction.

PM Peak Pd 1600-1900 Vehicle Flow

PM Peak Pd 1700-1800 Vehicle Flow

Tactran Mode Share Surveys	
Dundee City Council Area	GB01T20C61
Survey Report	16/12/2021

100.0%

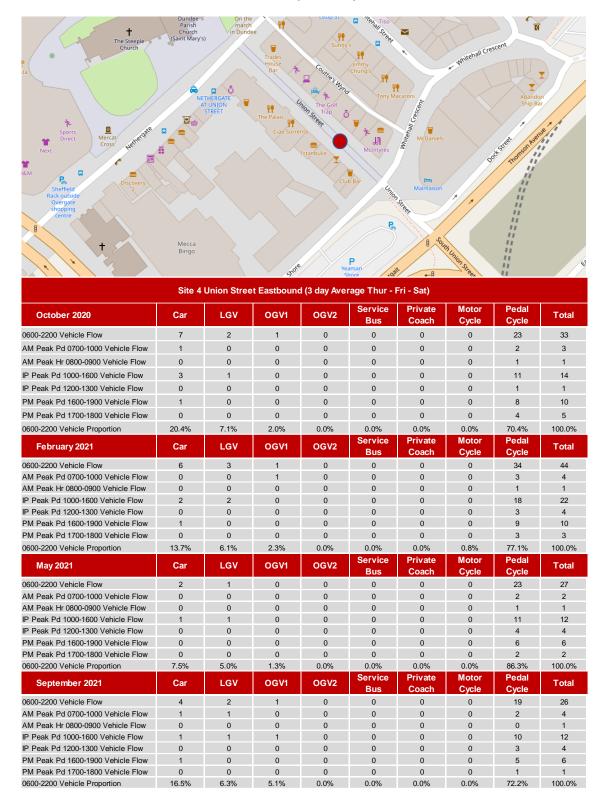
2.9%





5.1.22 Table 41 presents the results for Union Street (Eastbound) in Dundee.

Table 41. Union Street (Eastbound)



Tactran Mode Share Surveys	
Dundee City Council Area	GB01T20C61
Survey Report	16/12/2021





5.1.23	Table 41 shows minimal vehicular traffic on Union Street, with cyclists making up the majority
	of users. The proportion of which increased from October 2020 to February 2021 and again
	in May 2021, before reducing again in September 2021.

Tactran Mode Share Surveys	
Dundee City Council Area	GB01T20C61
Survey Report	16/12/2021





5.1.25 Table 42 presents the results for Union Street (Westbound) in Dundee.

Table 42. Union Street (Westbound)

Divert Cross

Direct Cross

Direct Cross

Direct Cross

Shelled Table 42. Union Street Westbound (3 day Average Thur - Fri - Sat)

Motor Pedal October 2020 LGV OGV1 OGV2 Total Car Cycle Cycle 0600-2200 Vehicle Flow AM Peak Pd 0700-1000 Vehicle Flow AM Peak Hr 0800-0900 Vehicle Flow IP Peak Pd 1000-1600 Vehicle Flow Ω IP Peak Pd 1200-1300 Vehicle Flow PM Peak Pd 1600-1900 Vehicle Flow PM Peak Pd 1700-1800 Vehicle Flow 0600-2200 Vehicle Proportion 16.8% 6.5% 0.0% 0.0% 0.0% 0.0% 44.6% 100.0% Moto Pedal Service Private LGV February 2021 OGV2 OGV1 Car **Total** Cycle Cycle 0600-2200 Vehicle Flow Ω AM Peak Pd 0700-1000 Vehicle Flow AM Peak Hr 0800-0900 Vehicle Flow IP Peak Pd 1000-1600 Vehicle Flow IP Peak Pd 1200-1300 Vehicle Flow PM Peak Pd 1600-1900 Vehicle Flow PM Peak Pd 1700-1800 Vehicle Flow 0600-2200 Vehicle Proportion 27.1% 7.8% 4.1% 0.0% 0.0% 0.0% 0.9% 60.1% 100.0% Private Moto Pedal Service May 2021 LGV OGV1 OGV2 Total Car Cycle Cycle 0600-2200 Vehicle Flow AM Peak Pd 0700-1000 Vehicle Flow Ω AM Peak Hr 0800-0900 Vehicle Flow IP Peak Pd 1000-1600 Vehicle Flow IP Peak Pd 1200-1300 Vehicle Flow PM Peak Pd 1600-1900 Vehicle Flow PM Peak Pd 1700-1800 Vehicle Flow 0600-2200 Vehicle Proportion 8.3% 3.7% 0.0% 0.0% 0.9% 71.3% 100.0% 15.7% 0.0% Motor Pedal Service Private September 2021 Car LGV OGV1 OGV2 Total Bus Cycle 0600-2200 Vehicle Flow AM Peak Pd 0700-1000 Vehicle Flow AM Peak Hr 0800-0900 Vehicle Flow IP Peak Pd 1000-1600 Vehicle Flow IP Peak Pd 1200-1300 Vehicle Flow PM Peak Pd 1600-1900 Vehicle Flow PM Peak Pd 1700-1800 Vehicle Flow 0600-2200 Vehicle Proportion 26.2% 10.0% 11.5% 0.0% 0.0% 0.0% 0.0% 52.3% 100.0%

Tactran Mode Share Surveys	
Dundee City Council Area	GB01T20C61
Survey Report	16/12/2021

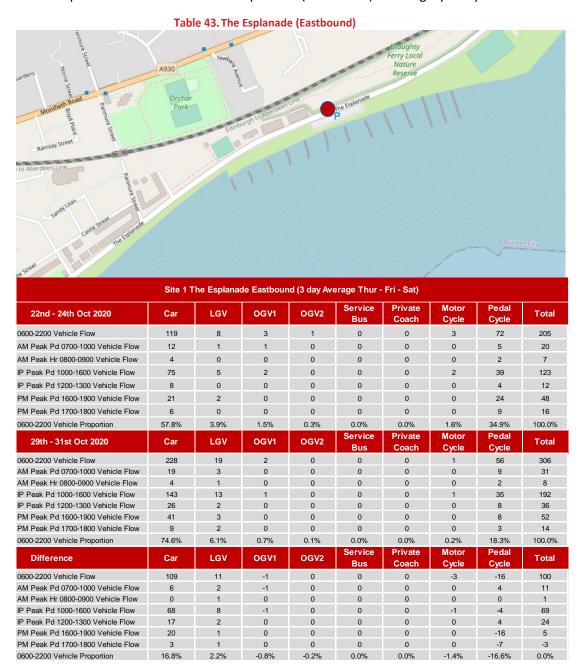




5.1.26 Table 42 shows minimal motorised vehicle usage on Union Street, with cyclists making up the majority of users. The proportion of which increased from October 2020 to February 2021 and again in May 2021, before dropping slightly in September 2021.

Broughty Ferry

5.1.27 Table 43 presents the results for The Esplanade (Eastbound) in Broughty Ferry.



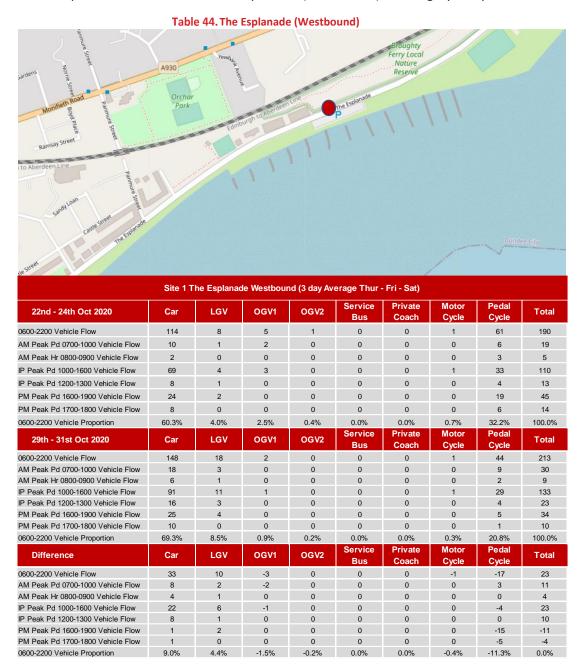
5.1.28 Table 43 shows that between there was a 17% drop in cyclists and a 17% increase in cars when comparing the 2 different October survey weeks, following removal of the Spaces for People scheme during the week commencing Monday 26th October 2020.

Tactran Mode Share Surveys	
Dundee City Council Area	GB01T20C61
Survey Report	16/12/2021





5.1.30 Table 44 presents the results for The Esplanade (Westbound) in Broughty Ferry.



5.1.31 Table 44 shows that between there was an 11% drop in cyclists and a 9% increase in cars when comparing the 2 different October survey weeks, following removal of the Spaces for People scheme during the week commencing Monday 26th October 2020.

Tactran Mode Share Surveys	
Dundee City Council Area	GB01T20C61
Survey Report	16/12/2021





7. MODE SHARE SURVEYS

7.1 Rail Station Counts

- 7.1.1 Entry and exit counts were undertaken at both the front and rear entrances of Dundee Railway Station on Wednesday 5th May 2021. Surveys were undertaken between 06:00 and 22:00.
- 7.1.2 The results were classified by the following:
 - Adult
 - Adult & Child
 - Child
 - Elderly
 - O Disabled
 - Cyclist on Bike
 - Cyclist on Foot.
- 7.1.3 Table 45 presents a summary of the entry and exit counts.

Table 45. Dundee Railway Station Entry/Exit Counts

Dundee Rail Stn	Station Entrance	Station Exit	Total Entry	Total Exit	
06:00 - 22:00	939	926	939	926	
06:30 - 09:30	156	147	156	147	
09:30 - 15:30	407	369	407	369	
15:30 - 18:30	242	219	242	219	

- 7.1.4 Table 45 shows that over the 16 hour period (0600-2200hrs), there was a total of 939 pedestrians entering Dundee Railway Station and 926 pedestrians exiting:
 - O In the AM peak period (07:00 − 10:00), 156 pedestrians entered the station and 147 departed the station.
 - In the Off peak period (10:00 16:00), 407 pedestrians entered the station and 369 departed the station.
 - In the PM peak period (16:00 19:00), 242 pedestrians entered the station and 219 departed the station.





7.2 Bus Occupancy Counts

- 7.2.1 Bus occupancy surveys were undertaken inbound towards Dundee and outbound from Dundee at each of the 16 classified turning count sites, as shown in Figure 9.
- 7.2.2 Bus occupancy data was gathered for one day, Wednesday 5th May 2021, between 06:00 and 22:00.
- 7.2.3 The methodology used to gather the bus occupancy required manual enumerators to review the footage at each site – i.e. manual check and note if the bus was empty, ¼ full, ½ full, ¾ full, full or full with standing passengers.
- 7.2.4 The capacity of vehicles was the same as those used in a previous study for TACTRAN [Mode Share Surveys 2019 – Draft, SYSTRA, Ref. GB01t19A57/4, 11/07/19], namely:

0	Midi bus	15 passengers
0	Mini bus	15 passengers
0	Single decker bus	30 passengers
0	Double decker bus	72 passengers
0	Coach	55 passengers
0	Mini Coach	14 passengers
0	Midi Coach	14 passengers
0	School Bus	40 passengers

- 7.2.5 Vehicles where the occupancy was not visible (e.g. where coaches had dark tinted windows) were excluded from the analysis. No surveys were undertaken at Dundee bus station, just at the cordon locations.
- 7.2.6 Table 46 below presents the bus occupancy at each of the cordon points around Dundee city centre in the AM peak period (06:30 - 09:30).





Table 46. Bus & Coach Cordon Occupancy (AM Peak 06:30 – 09:30)

AM Peak Period (06:30-09:30)	Mode	Total Vehicles	Total Passengers	Average Occupancy	Mode	Total Vehicles	Total Passengers	Average Occupancy
CC1	Bus	29	109	4	Bus	37	83	2
001	Coach	3	11	4	Coach	0	0	0
CC2	Bus	123	1518	12	Bus	37	540	15
002	Coach	0	0	0	Coach	0	0	0
OC1	Bus	-	-	-	Bus	-	-	-
001	Coach	-	-	-	Coach	-	-	-
OC2	Bus	2	18	9	Bus	0	0	0
002	Coach	2	4	2	Coach	1	0	0
OC3	Bus	8	59	7	Bus	6	30	5
003	Coach	2	4	2	Coach	6	4	1
OC4	Bus	21	255	12	Bus	27	213	8
004	Coach	4	11	3	Coach	7	11	2
OC5	Bus	36	480	13	Bus	37	447	12
003	Coach	3	7	2	Coach	5	17	3
OC6	Bus	36	512	14	Bus	37	473	13
000	Coach	4	21	5	Coach	2	4	2
OC7	Bus	49	727	15	Bus	1	0	0
001	Coach	0	0	0	Coach	0	0	0
OC8	Bus	56	280	5	Bus	52	228	4
000	Coach	0	0	0	Coach	0	0	0
OC9	Bus	18	191	11	Bus	19	189	10
009	Coach	4	28	7	Coach	2	7	4
OC10	Bus	21	308	15	Bus	24	344	14
0010	Coach	7	18	3	Coach	7	7	1
OC11	Bus	7	90	13	Bus	5	72	14
0011	Coach	0	0	0	Coach	0	0	0
OC12	Bus	1	0	0	Bus	7	51	7
0012	Coach	0	0	0	Coach	0	0	0
OC13	Bus	24	335	14	Bus	28	345	12
0010	Coach	1	0	0	Coach	0	0	0
OC14	Bus	2	26	13	Bus	1	18	18
0014	Coach	0	0	0	Coach	0	0	0

7.2.7 Table 46 shows that the corridor with the highest bus and coach occupancy was OC10, McAlpine Road north of Kingsway. The average inbound bus occupancy was 10 passengers and the average coach occupancy 2 passengers. The average outbound bus occupancy was 9 passengers and the average outbound coach was running empty.





7.2.8 Table 47 presents the same information for the Inter peak period (09:30 - 15:30).

Table 47. Bus & Coach Cordon Occupancy (Inter Peak 09:30 – 15:30)

		Inbound tow	ards Dundee		Outbound from Dundee			
Inter Peak Period (09:30-15:30)	Mode	Total Vehicles	Total Passengers	Average Occupancy	Mode	Total Vehicles	Total Passengers	Average Occupancy
CC1	Bus	72	520	7	Bus	74	404	5
CCI	Coach	7	14	2	Coach	3	0	0
CC2	Bus	268	3494	13	Bus	100	1384	14
002	Coach	1	4	4	Coach	2	7	4
OC1	Bus	-	-	-	Bus	-	-	-
001	Coach	-	-	-	Coach	-	-	-
OC2	Bus	1	4	4	Bus	1	0	0
002	Coach	4	0	0	Coach	3	0	0
003	Bus	14	90	6	Bus	14	115	8
OC3	Coach	0	0	0	Coach	0	0	0
004	Bus	53	570	11	Bus	47	566	12
OC4	Coach	7	18	3	Coach	10	14	1
005	Bus	81	1091	13	Bus	83	1112	13
OC5	Coach	2	4	2	Coach	7	14	2
000	Bus	80	1051	13	Bus	83	1097	13
OC6	Coach	2	0	0	Coach	8	18	2
007	Bus	122	1776	15	Bus	2	0	0
OC7	Coach	3	4	0	Coach	2	0	0
000	Bus	56	656	12	Bus	52	605	12
OC8	Coach	1	0	0	Coach	0	0	0
000	Bus	39	489	13	Bus	40	453	11
OC9	Coach	3	14	5	Coach	7	25	4
0040	Bus	50	753	15	Bus	45	677	15
OC10	Coach	9	7	1	Coach	3	0	0
0044	Bus	11	198	18	Bus	13	180	14
OC11	Coach	2	0	0	Coach	3	4	0
0040	Bus	6	0	0	Bus	6	0	0
OC12	Coach	1	0	0	Coach	0	0	0
0040	Bus	56	818	15	Bus	55	770	14
OC13	Coach	2	7	0	Coach	1	0	0
0044	Bus	1	18	18	Bus	0	0	0
OC14	Coach	0	0	0	Coach	0	0	0

7.2.9 Table 47 shows that bus and coach occupancy was again highest on corridor OC10, Macalpine Road north of Kingsway. The average inbound bus occupancy was 12 passengers and the average coach occupancy 1 passenger. The average outbound bus occupancy was 9 passengers and the average outbound coach occupancy was 1 passenger.





7.2.10 Table 48 presents the same information for the PM peak (15:30 - 18:30).

Table 48. Bus & Coach Cordon Occupancy (PM Peak 15:30 – 18:30)

		Inbound tow	ards Dundee		Outbound from Dundee			
PM Peak Period (15:30-18:30)	Mode	Total Vehicles	Total Passengers	Average Occupancy	Mode	Total Vehicles	Total Passengers	Average Occupancy
CC1	Bus	42	239	7	Bus	36	240	7
CCI	Coach	3	11	2	Coach	0	0	0
CC2	Bus	121	1660	13	Bus	47	587	12
CO2	Coach	1	4	4	Coach	0	0	0
OC1	Bus	-	-	-	Bus	-	-	-
001	Coach	-	-	-	Coach	-	-	-
OC2	Bus	0	0	0	Bus	0	0	0
002	Coach	3	4	1	Coach	1	0	0
OC3	Bus	9	74	8	Bus	7	59	8
003	Coach	2	4	2	Coach	2	0	0
OC4	Bus	22	237	11	Bus	23	260	11
004	Coach	3	4	1	Coach	4	7	2
OC5	Bus	45	538	12	Bus	38	541	14
005	Coach	0	0	0	Coach	0	0	0
000	Bus	45	524	12	Bus	39	523	13
OC6	Coach	1	0	0	Coach	2	0	0
007	Bus	59	726	12	Bus	0	0	0
OC7	Coach	0	0	0	Coach	0	0	0
000	Bus	56	243	4	Bus	52	335	6
OC8	Coach	0	0	0	Coach	0	0	0
000	Bus	20	263	13	Bus	23	252	11
OC9	Coach	0	0	0	Coach	0	0	0
0040	Bus	25	398	16	Bus	25	365	15
OC10	Coach	2	0	0	Coach	2	0	0
0014	Bus	7	90	13	Bus	6	108	18
OC11	Coach	0	0	0	Coach	0	0	0
0040	Bus	3	0	0	Bus	1	0	0
OC12	Coach	0	0	0	Coach	0	0	0
0040	Bus	32	378	12	Bus	28	390	14
OC13	Coach	0	0	0	Coach	0	0	0
0044	Bus	1	36	36	Bus	0	0	0
OC14	Coach	0	0	0	Coach	0	0	0

7.2.11 Table 48 shows that bus occupancy during the PM Peak period was again highest on OC10 Macalpine Road north of Kingsway. The average inbound bus occupancy was 11 passengers and the average coach occupancy 1 passenger. The average outbound bus occupancy was 9 passengers and the average outbound coach was running empty.





7.3 Vehicle Occupancy Counts

- 7.3.1 Vehicle occupancy counts were undertaken at each of the classified turning count sites, as shown in Figure 9.
- Vehicle occupancy data was gathered for one day, Wednesday 5th May 2021, between 06:00 7.3.2 and 22:00.
- 7.3.3 Table 49 below presents the vehicle occupancy and sample rates at each of the inbound cordon points around Dundee city centre in the AM peak period (06:30 – 09:30).

Table 49. Vehicle Inbound Cordon Occupancy (AM Peak 06:30 - 09:30)

AM Peak Period (06:30-09:30)	Mode	Vehicle Total	Observed Vehicles	Sample Rate	Number of Occupants	Average Occupancy		Mode	Vehicle Total	Observed Vehicles	Sample Rate	Number of Occupants	Average Occupancy
	Car	2224	468	21.0%	543	1.16		Car	692	159	23.0%	199	1.25
CC1	LGV	469	127	27.1%	152	1.20	OC7	LGV	163	57	35.0%	75	1.32
CCI	OGV1	98	44	44.9%	48	1.09	007	OGV1	29	20	69.0%	24	1.20
	OGV2	47	25	53.2%	25	1.00		OGV2	15	12	80.0%	13	1.08
	Car	806	186	23.1%	213	1.15		Car	682	159	23.3%	206	1.30
CC2	LGV	136	19	14.0%	20	1.05	OC8	LGV	101	38	37.6%	44	1.16
CC2	OGV1	16	2	12.5%	2	1.00		OGV1	16	12	75.0%	14	1.17
	OGV2	1	0	0.0%	0	-		OGV2	1	0	0.0%	0	-
OC1	Car	155	58	37.4%	69	1.19		Car	862	191	22.2%	260	1.36
	LGV	42	27	64.3%	33	1.22	OC9	LGV	154	50	32.5%	56	1.12
	OGV1	5	4	80.0%	7	1.75	009	OGV1	28	19	67.9%	24	1.26
	OGV2	39	22	56.4%	24	1.09		OGV2	5	4	80.0%	5	1.25
OC2	Car	1015	221	21.8%	271	1.23	OC10	Car	1418	326	23.0%	430	1.32
	LGV	231	76	32.9%	93	1.22		LGV	313	94	30.0%	117	1.24
	OGV1	44	30	68.2%	33	1.10		OGV1	64	31	48.4%	38	1.23
	OGV2	29	19	65.5%	20	1.05		OGV2	13	9	69.2%	11	1.22
	Car	2254	496	22.0%	615	1.24	OC11	Car	876	198	22.6%	253	1.28
OC3	LGV	430	112	26.0%	145	1.29		LGV	167	55	32.9%	67	1.22
003	OGV1	96	45	46.9%	56	1.24		OGV1	23	17	73.9%	21	1.24
	OGV2	92	35	38.0%	40	1.14		OGV2	10	9	90.0%	11	1.22
	Car	1307	282	21.6%	335	1.19		Car	437	121	27.7%	149	1.23
OC4	LGV	241	70	29.0%	79	1.13	OC12	LGV	69	44	63.8%	53	1.20
004	OGV1	75	33	44.0%	38	1.15	0012	OGV1	39	24	61.5%	30	1.25
	OGV2	31	20	64.5%	24	1.20		OGV2	1	1	100.0%	1	1.00
	Car	854	224	26.2%	246	1.10		Car	700	157	22.4%	195	1.24
OC5	LGV	144	61	42.4%	74	1.21	OC13	LGV	135	50	37.0%	63	1.26
003	OGV1	14	10	71.4%	12	1.20	0013	OGV1	36	22	61.1%	25	1.14
	OGV2	2	2	100.0%	2	1.00		OGV2	6	5	83.3%	5	1.00
	Car	773	173	22.4%	224	1.29		Car	543	136	25.0%	167	1.23
006	LGV	132	55	41.7%	68	1.24	OC14	LGV	62	32	51.6%	36	1.13
OC6	OGV1	13	11	84.6%	15	1.36	OC14	OGV1	18	15	83.3%	18	1.20
	OGV2	2	2	100.0%	2	1.00		OGV2	1	1	100.0%	1	1.00

7.3.4 Table 49 shows that in the AM Peak period, inbound towards Dundee city centre, the average car occupancy was 1.23 persons, LGV 1.20 persons, OGV1 1.22 persons and OGV2 1.09 persons.

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7.3.5 Table 50 presents the vehicle occupancy and sample rates at each of the outbound cordon points around Dundee city centre in the AM peak period (06:30 – 09:30).

Table 50. Vehicle Outbound Cordon Occupancy (AM Peak 06:30 – 09:30)

AM Peak Period (06:30-09:30)	Mode	Vehicle Total	Observed Vehicles	Sample Rate	Number of Occupants	Average Occupancy		Mode	Vehicle Total	Observed Vehicles	Sample Rate	Number of Occupants	Average Occupancy
	Car	1545	328	21.2%	349	1.06		Car	469	116	24.7%	140	1.21
CC1	LGV	493	100	20.3%	117	1.17	OC7	LGV	109	47	43.1%	63	1.34
001	OGV1	126	29	23.0%	32	1.10	007	OGV1	24	19	79.2%	23	1.21
	OGV2	70	9	12.9%	10	1.11		OGV2	13	11	84.6%	13	1.18
	Car	402	102	25.4%	115	1.13		Car	516	130	25.2%	161	1.24
CC2	LGV	75	30	40.0%	37	1.23	OC8	LGV	101	46	45.5%	54	1.17
002	OGV1	23	18	78.3%	21	1.17		OGV1	16	12	75.0%	15	1.25
	OGV2	3	3	100.0%	3	1.00		OGV2	1	0	0.0%	0	-
	Car	26	18	69.2%	20	1.11		Car	754	179	23.7%	228	1.27
OC1	LGV	12	10	83.3%	12	1.20	OC9	LGV	133	42	31.6%	51	1.21
001	OGV1	5	4	80.0%	5	1.25	OCs	OGV1	23	17	73.9%	21	1.24
	OGV2	39	22	56.4%	22	1.00		OGV2	11	9	81.8%	11	1.22
OC2	Car	1720	361	21.0%	453	1.25	OC10	Car	802	190	23.7%	233	1.23
	LGV	199	69	34.7%	77	1.12		LGV	211	72	34.1%	86	1.19
002	OGV1	37	22	59.5%	24	1.09		OGV1	51	28	54.9%	38	1.36
	OGV2	37	26	70.3%	30	1.15		OGV2	7	5	71.4%	5	1.00
	Car	1261	287	22.8%	380	1.32	OC11	Car	531	144	27.1%	188	1.31
OC3	LGV	443	118	26.6%	172	1.46		LGV	197	63	32.0%	84	1.33
003	OGV1	129	53	41.1%	67	1.26		OGV1	42	24	57.1%	29	1.21
	OGV2	82	39	47.6%	44	1.13		OGV2	15	11	73.3%	12	1.09
	Car	885	205	23.2%	246	1.20		Car	426	123	28.9%	159	1.29
OC4	LGV	203	69	34.0%	88	1.28	OC12	LGV	79	38	48.1%	51	1.34
004	OGV1	68	35	51.5%	42	1.20	0012	OGV1	15	13	86.7%	17	1.31
	OGV2	25	20	80.0%	22	1.10		OGV2	1	1	100.0%	1	1.00
	Car	533	149	28.0%	169	1.13		Car	395	103	26.1%	136	1.32
OC5	LGV	114	50	43.9%	60	1.20	OC13	LGV	122	54	44.3%	69	1.28
003	OGV1	24	16	66.7%	20	1.25	0013	OGV1	19	16	84.2%	20	1.25
	OGV2	4	3	75.0%	4	1.33		OGV2	4	3	75.0%	4	1.33
	Car	588	141	24.0%	163	1.16		Car	1078	234	21.7%	286	1.22
OC6	LGV	130	49	37.7%	63	1.29	OC14	LGV	47	27	57.4%	30	1.11
	OGV1	24	17	70.8%	22	1.29	3014	OGV1	9	7	77.8%	8	1.14
	OGV2	4	4	100.0%	5	1.25		OGV2	0	0	-	0	-

7.3.6 Table 50 shows that in the AM peak period, outbound from Dundee city centre, the average car occupancy was 1.22 persons, LGV 1.25 persons, OGV1 1.22 persons and OGV2 1.14 persons.





7.3.7 Table 51 presents the vehicle occupancy and sample rates at each of the inbound cordon points around Dundee city centre in the inter peak period (09:30 - 15:30).

Table 51. Vehicle Inbound Cordon Occupancy (Inter Peak 09:30 – 15:30)

In Peak Period (09:30-15:30)	Mode	Vehicle Total	Observed Vehicles	Sample Rate	Number of Occupants	Average Occupancy		Mode	Vehicle Total	Observed Vehicles	Sample Rate	Number of Occupants	Average Occupancy
	Car	4124	885	21.5%	1099	1.24		Car	1902	439	23.1%	594	1.35
CC1	LGV	733	197	26.9%	232	1.18	OC7	LGV	299	115	38.5%	143	1.24
CC1	OGV1	230	83	36.1%	93	1.12	001	OGV1	78	48	61.5%	60	1.25
	OGV2	140	59	42.1%	59	1.00		OGV2	29	21	72.4%	24	1.14
	Car	1721	375	21.8%	478	1.27		Car	1422	321	22.6%	440	1.37
CC2	LGV	233	55	23.6%	65	1.18	OC8	LGV	178	74	41.6%	82	1.11
002	OGV1	40	6	15.0%	9	1.50		OGV1	40	29	72.5%	36	1.24
	OGV2	3	0	0.0%	0	-		OGV2	5	5	100.0%	6	1.20
	Car	74	47	63.5%	56	1.19		Car	1613	369	22.9%	485	1.31
OC1	LGV	38	29	76.3%	33	1.14	OC9	LGV	262	90	34.4%	111	1.23
	OGV1	29	26	89.7%	29	1.12	003	OGV1	60	43	71.7%	51	1.19
	OGV2	82	50	61.0%	53	1.06		OGV2	14	12	85.7%	14	1.17
OC2	Car	2862	626	21.9%	804	1.28	OC10	Car	2763	614	22.2%	836	1.36
	LGV	421	141	33.5%	167	1.18		LGV	534	155	29.0%	173	1.12
	OGV1	79	50	63.3%	62	1.24		OGV1	143	65	45.5%	74	1.14
	OGV2	44	32	72.7%	35	1.09		OGV2	18	15	83.3%	17	1.13
	Car	2600	571	22.0%	767	1.34	OC11	Car	1694	393	23.2%	492	1.25
OC3	LGV	424	135	31.8%	166	1.23		LGV	285	96	33.7%	114	1.19
003	OGV1	169	76	45.0%	88	1.16		OGV1	63	41	65.1%	47	1.15
	OGV2	153	72	47.1%	79	1.10		OGV2	24	20	83.3%	22	1.10
	Car	2411	522	21.7%	592	1.13		Car	1324	341	25.8%	432	1.27
OC4	LGV	388	127	32.7%	146	1.15	OC12	LGV	139	66	47.5%	82	1.24
004	OGV1	192	77	40.1%	85	1.10	0012	OGV1	51	37	72.5%	42	1.14
	OGV2	88	50	56.8%	55	1.10		OGV2	3	2	66.7%	2	1.00
	Car	1619	444	27.4%	516	1.16		Car	1568	367	23.4%	499	1.36
OC5	LGV	217	86	39.6%	104	1.21	OC13	LGV	250	90	36.0%	103	1.14
003	OGV1	51	34	66.7%	41	1.21	0013	OGV1	80	50	62.5%	59	1.18
	OGV2	7	5	71.4%	6	1.20		OGV2	5	4	80.0%	4	1.00
	Car	1481	334	22.6%	434	1.30		Car	1146	278	24.3%	375	1.35
OC6	LGV	210	93	44.3%	106	1.14	OC14	LGV	108	57	52.8%	70	1.23
000	OGV1	46	33	71.7%	44	1.33	0014	OGV1	31	27	87.1%	34	1.26
	OGV2	7	4	57.1%	5	1.25		OGV2	3	2	66.7%	3	1.50

7.3.8 Table 51 shows that in the inter peak period, inbound towards Dundee city centre, the average car occupancy was 1.28 persons, LGV 1.18 persons, OGV1 1.21 persons and OGV2 1.14 persons.





7.3.9 Table 52 below presents the vehicle occupancy and sample rates at each of the outbound cordon points around Dundee city centre in the inter peak period (09:30 - 15:30).

Table 52. Vehicle Outbound Cordon Occupancy (Inter Peak 09:30 – 15:30)

In Peak Period (09:30-15:30)	Mode	Vehicle Total	Observed Vehicles	Sample Rate	Number of Occupants	Average Occupancy		Mode	Vehicle Total	Observed Vehicles	Sample Rate	Number of Occupants	Average Occupancy
	Car	4003	816	20.4%	1024	1.25		Car	1376	315	22.9%	379	1.20
CC1	LGV	822	180	21.9%	222	1.23	OC7	LGV	204	88	43.1%	110	1.25
	OGV1	218	41	18.8%	50	1.22	007	OGV1	34	27	79.4%	34	1.26
	OGV2	113	24	21.2%	28	1.17		OGV2	27	20	74.1%	22	1.10
	Car	1535	345	22.5%	449	1.30		Car	1701	379	22.3%	500	1.32
CC2	LGV	229	90	39.3%	109	1.21	OC8	LGV	225	82	36.4%	97	1.18
002	OGV1	58	40	69.0%	50	1.25	000	OGV1	56	37	66.1%	46	1.24
	OGV2	5	3	60.0%	3	1.00		OGV2	4	4	100.0%	4	1.00
	Car	83	49	59.0%	61	1.24	OC9	Car	1656	388	23.4%	503	1.30
OC1	LGV	50	36	72.0%	40	1.11		LGV	272	86	31.6%	105	1.22
	OGV1	26	20	76.9%	23	1.15		OGV1	57	40	70.2%	49	1.23
	OGV2	82	49	59.8%	49	1.00		OGV2	10	9	90.0%	11	1.22
	Car	3076	663	21.6%	849	1.28	OC10	Car	2465	569	23.1%	748	1.31
	LGV	571	168	29.4%	190	1.13		LGV	466	155	33.3%	180	1.16
	OGV1	124	60	48.4%	64	1.07	0010	OGV1	134	61	45.5%	72	1.18
	OGV2	68	48	70.6%	52	1.08		OGV2	16	13	81.3%	16	1.23
	Car	2567	564	22.0%	884	1.57	OC11	Car	1721	399	23.2%	518	1.30
OC3	LGV	496	166	33.5%	244	1.47		LGV	301	101	33.6%	116	1.15
003	OGV1	162	77	47.5%	93	1.21	0011	OGV1	77	48	62.3%	57	1.19
	OGV2	154	69	44.8%	72	1.04		OGV2	41	32	78.0%	33	1.03
	Car	2576	584	22.7%	678	1.16		Car	1390	340	24.5%	453	1.33
OC4	LGV	433	153	35.3%	176	1.15	OC12	LGV	117	69	59.0%	84	1.22
004	OGV1	207	82	39.6%	98	1.20	0012	OGV1	45	37	82.2%	47	1.27
	OGV2	77	49	63.6%	54	1.10		OGV2	3	1	33.3%	1	1.00
	Car	1973	502	25.4%	563	1.12		Car	1382	332	24.0%	443	1.33
OC5	LGV	255	106	41.6%	123	1.16	OC13	LGV	241	96	39.8%	113	1.18
003	OGV1	47	36	76.6%	42	1.17	0013	OGV1	83	53	63.9%	64	1.21
	OGV2	3	3	100.0%	3	1.00		OGV2	18	14	77.8%	14	1.00
	Car	2133	453	21.2%	583	1.29		Car	810	201	24.8%	253	1.26
OC6	LGV	280	96	34.3%	113	1.18	OC14	LGV	98	51	52.0%	59	1.16
000	OGV1	53	36	67.9%	46	1.28	5014	OGV1	30	26	86.7%	32	1.23
	OGV2	5	5	100.0%	5	1.00		OGV2	0	0	-	0	-

7.3.10 Table 52 shows that in the inter peak period, outbound from Dundee city centre, the average car occupancy was 1.29 persons, LGV 1.20 persons, OGV1 1.21 persons and OGV2 1.07 persons.





7.3.11 Table 53 presents the vehicle occupancy and sample rates at each of the inbound cordon points around Dundee city centre in the PM peak period (15:30 – 18:30).

Table 53. Vehicle Inbound Cordon Occupancy (PM Peak 15:30 – 18:30)

PM Peak Period (15:30-18:30)	Mode	Vehicle Total	Observed Vehicles	Sample Rate	Number of Occupants	Average Occupancy		Mode	Vehicle Total	Observed Vehicles	Sample Rate	Number of Occupants	Average Occupancy
	Car	2464	521	21.1%	663	1.27		Car	1111	241	21.7%	319	1.32
004	LGV	479	127	26.5%	153	1.20	OC7	LGV	147	47	32.0%	53	1.13
CC1	OGV1	69	34	49.3%	40	1.18	007	OGV1	17	11	64.7%	12	1.09
	OGV2	29	17	58.6%	17	1.00		OGV2	12	9	75.0%	9	1.00
	Car	907	191	21.1%	253	1.32		Car	815	177	21.7%	251	1.42
000	LGV	98	22	22.4%	29	1.32	OC8	LGV	68	35	51.5%	39	1.11
CC2	OGV1	15	3	20.0%	4	1.33		OGV1	10	8	80.0%	8	1.00
	OGV2	1	0	0.0%	0	-		OGV2	0	0	-	0	-
	Car	20	15	75.0%	20	1.33	OC9	Car	1221	252	20.6%	356	1.41
OC1	LGV	9	8	88.9%	8	1.00		LGV	117	48	41.0%	55	1.15
	OGV1	5	3	60.0%	3	1.00		OGV1	18	14	77.8%	16	1.14
	OGV2	22	18	81.8%	19	1.06		OGV2	6	5	83.3%	5	1.00
OC2	Car	2090	447	21.4%	585	1.31	OC10	Car	1564	337	21.5%	437	1.30
	LGV	198	69	34.8%	81	1.17		LGV	205	66	32.2%	76	1.15
	OGV1	15	12	80.0%	13	1.08		OGV1	38	21	55.3%	25	1.19
	OGV2	12	9	75.0%	10	1.11		OGV2	2	2	100.0%	2	1.00
	Car	2190	487	22.2%	640	1.31	OC11	Car	839	193	23.0%	244	1.26
OC3	LGV	397	108	27.2%	136	1.26		LGV	119	45	37.8%	52	1.16
003	OGV1	85	41	48.2%	50	1.22		OGV1	31	15	48.4%	18	1.20
	OGV2	49	26	53.1%	27	1.04		OGV2	7	7	100.0%	7	1.00
	Car	1381	301	21.8%	338	1.12		Car	900	205	22.8%	278	1.36
OC4	LGV	194	71	36.6%	84	1.18	OC12	LGV	98	39	39.8%	49	1.26
004	OGV1	37	17	45.9%	18	1.06	0012	OGV1	10	10	100.0%	11	1.10
	OGV2	12	10	83.3%	12	1.20		OGV2	3	3	100.0%	3	1.00
	Car	880	240	27.3%	283	1.18		Car	894	203	22.7%	257	1.27
OC5	LGV	114	46	40.4%	53	1.15	OC13	LGV	134	48	35.8%	60	1.25
003	OGV1	15	11	73.3%	12	1.09	0013	OGV1	13	11	84.6%	13	1.18
	OGV2	1	0	0.0%	0	-		OGV2	1	1	100.0%	1	1.00
	Car	815	178	21.8%	244	1.37		Car	885	193	21.8%	255	1.32
OC6	LGV	98	38	38.8%	46	1.21	OC14	LGV	43	27	62.8%	31	1.15
	OGV1	12	8	66.7%	9	1.13	5014	OGV1	4	3	75.0%	4	1.33
	OGV2	1	1	100.0%	1	1.00		OGV2	0	0	-	0	-

7.3.12 Table 53 shows that in the PM peak period, inbound towards Dundee city centre, the average car occupancy was 1.31 persons, LGV 1.18 persons, OGV1 1.15 persons and OGV2 1.03 persons.





7.3.13 Table 54 presents the vehicle occupancy and sample rates at each of the outbound cordon points around Dundee city centre in the inter peak period (09:30 - 15:30).

Table 54. Vehicle Inbound Cordon Occupancy (Inter Peak 09:30 – 15:30)

PM Peak Period (15:30-18:30)	Mode	Vehicle Total	Observed Vehicles	Sample Rate	Number of Occupants	Average Occupancy		Mode	Vehicle Total	Observed Vehicles	Sample Rate	Number of Occupants	Average Occupancy
	Car	3083	636	20.6%	859	1.35		Car	766	168	21.9%	223	1.33
CC1	LGV	473	96	20.3%	121	1.26	OC7	LGV	82	35	42.7%	42	1.20
001	OGV1	72	15	20.8%	18	1.20	001	OGV1	19	16	84.2%	19	1.19
	OGV2	44	10	22.7%	11	1.10		OGV2	8	8	100.0%	9	1.13
	Car	1310	280	21.4%	366	1.31		Car	1203	261	21.7%	352	1.35
CC2	LGV	143	51	35.7%	72	1.41	OC8	LGV	155	51	32.9%	59	1.16
002	OGV1	11	10	90.9%	10	1.00		OGV1	12	10	83.3%	13	1.30
	OGV2	2	2	100.0%	3	1.50		OGV2	1	0	0.0%	0	-
	Car	157	55	35.0%	67	1.22		Car	1428	307	21.5%	423	1.38
OC1	LGV	44	30	68.2%	38	1.27	OC9	LGV	173	59	34.1%	72	1.22
001	OGV1	4	4	100.0%	5	1.25	003	OGV1	18	14	77.8%	16	1.14
	OGV2	23	14	60.9%	14	1.00		OGV2	4	3	75.0%	3	1.00
OC2	Car	1804	386	21.4%	517	1.34	OC10	Car	1627	350	21.5%	469	1.34
	LGV	270	80	29.6%	92	1.15		LGV	261	80	30.7%	92	1.15
	OGV1	36	19	52.8%	22	1.16	0010	OGV1	25	19	76.0%	22	1.16
	OGV2	15	11	73.3%	11	1.00		OGV2	8	7	87.5%	7	1.00
	Car	2682	557	20.8%	780	1.40	OC11	Car	1277	282	22.1%	359	1.27
OC3	LGV	325	100	30.8%	141	1.41		LGV	188	57	30.3%	71	1.25
000	OGV1	54	27	50.0%	33	1.22		OGV1	28	20	71.4%	23	1.15
	OGV2	39	26	66.7%	28	1.08		OGV2	10	10	100.0%	11	1.10
	Car	1859	398	21.4%	460	1.16		Car	832	210	25.2%	280	1.33
OC4	LGV	219	69	31.5%	78	1.13	OC12	LGV	68	35	51.5%	42	1.20
	OGV1	39	26	66.7%	29	1.12	00.2	OGV1	14	12	85.7%	14	1.17
	OGV2	21	15	71.4%	16	1.07		OGV2	3	3	100.0%	3	1.00
	Car	1633	378	23.1%	450	1.19		Car	717	166	23.2%	238	1.43
OC5	LGV	184	69	37.5%	82	1.19	OC13	LGV	107	47	43.9%	61	1.30
000	OGV1	23	17	73.9%	21	1.24	0010	OGV1	10	9	90.0%	12	1.33
	OGV2	0	0	-	0	-		OGV2	4	3	75.0%	3	1.00
	Car	1644	331	20.1%	461	1.39		Car	398	89	22.4%	109	1.22
OC6	LGV	195	72	36.9%	83	1.15	OC14	LGV	33	20	60.6%	24	1.20
200	OGV1	22	17	77.3%	21	1.24	5014	OGV1	3	3	100.0%	3	1.00
	OGV2	0	0	-	0	-		OGV2	1	1	100.0%	1	1.00

7.3.14 Table 54 shows that in the PM peak period, outbound from Dundee city centre, the average car occupancy was 1.31 persons, LGV 1.23 persons, OGV1 1.18 persons and OGV2 1.07 persons.

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7.4 Results of Mode Share Surveys

- 7.4.1 The results of the various mode share surveys can be analysed and presented in different ways. Through discussions previously with Tactran, the methodology developed for assessing and summarising the survey data for each site was agreed as follows:
 - By Time Period
 - O By Mode both by vehicle and by person.

Mode Share By Time Period

7.4.2 All traffic surveys were undertaken over a 16 hour period 06:00-22:00. The mode share data is presented into three separate time periods, namely:

AM Peak 06:30 – 09:30
 Inter-peak 09:30 – 15:30
 PM Peak 15:30 – 18:30

Mode Share By Mode

- 7.4.3 Mode share data can be presented from the perspective of the share of vehicles or by the share of people. Both these methodologies are presented in this report, and are detailed as follows:
 - 'Mode Share Distribution' Each vehicle, including buses counts as 1 trip this methodology does not take into account the number of people in a vehicle or a bus
 - 'Person Share Distribution' Each person counts as 1 trip, therefore the bus patronage and multi occupancy vehicle
- 7.4.4 In order to consider the volume of trips to and from Dundee, the following assumptions and data usage was applied:
 - The 16 cordon sites were assessed to represent the points of entry/exit to the city.
 - Bus/coach passengers which entered/left Dundee were assumed to be destinating and originating in Dundee
- 7.4.5 The following figures present the Dundee mode share distribution, calculated from the survey data as detailed above. Figure 10 and Figure 11 present the AM peak mode share results by vehicle by direction and Figure 12 and Figure 13 present the AM Peak mode share results by person by direction.
- 7.4.6 Each figure presents the mode share by vehicle type for the four survey periods (October 2020, February 2021, May 2021 and September 2021) and compares to the previous survey in May 2019. The mode share by person is presented for May 2021 as this was the only survey that captured vehicle occupancy and is compared against the previous results in May 2019.

Tactran Mode Share Surveys	
Dundee City Council Area	GB01T20C61
Survey Report	16/12/2021





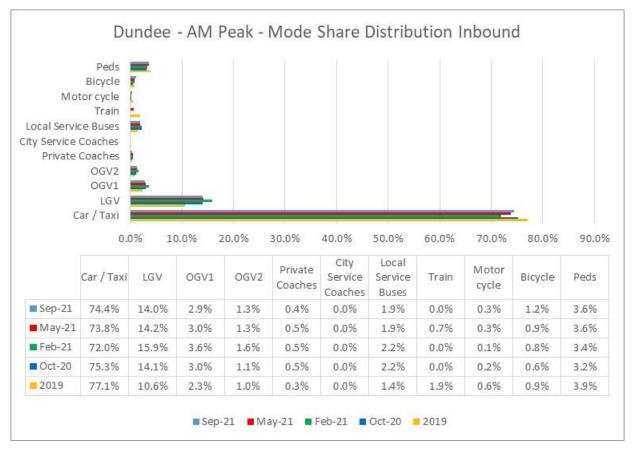


Figure 10. Dundee Mode Share Distribution Inbound – AM Peak

- 7.4.7 Figure 10 shows that the mode share of vehicles remained relatively consistent over the four survey periods. The results for rail are only included in May 2021 as rail station surveys were only undertaken at this point. The total vehicle movements recorded in each survey period was 24,653 in May 2019, 19,568 in October 2020, 16,644 in February 2021, 20,675 in May 2021 and 20,965 in September 2021.
- 7.4.8 The proportion of LGVs has increased between 2019 and 2020/21, due to the increase in supermarket deliveries and online shopping deliveries.
- 7.4.9 The proportion of pedestrians was very similar across all of the surveys, whilst the proportion of cyclists was also similar across all survey periods, the highest proportion being observed in September 2021.





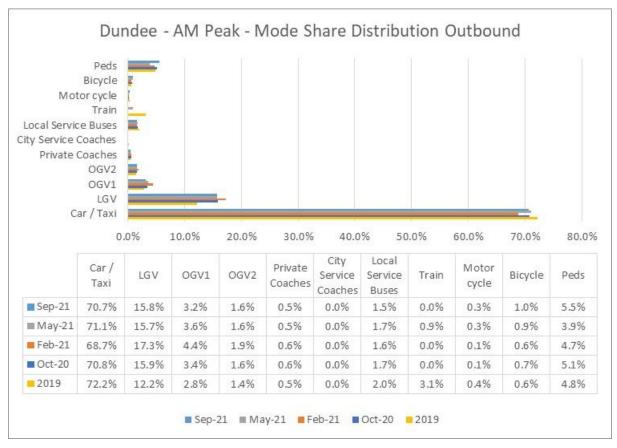


Figure 11. Dundee Mode Share Distribution Outbound – AM Peak

7.4.10 Figure 11 shows that the majority of people heading out of Dundee did so by car and taxi. Total bus usage was around 2.5% in the AM peak, rail was around 1%, bicycle 0.7% and walking between 4% and 5%. The total vehicle movements recorded in each survey period was 19,201 in May 2019, 17,125 in October 2020, 13,646 in February 2021 17,715 in May 2021 and 17,998 in September 2021.

Tactran Mode Share Surveys	
Dundee City Council Area	GB01T20C61
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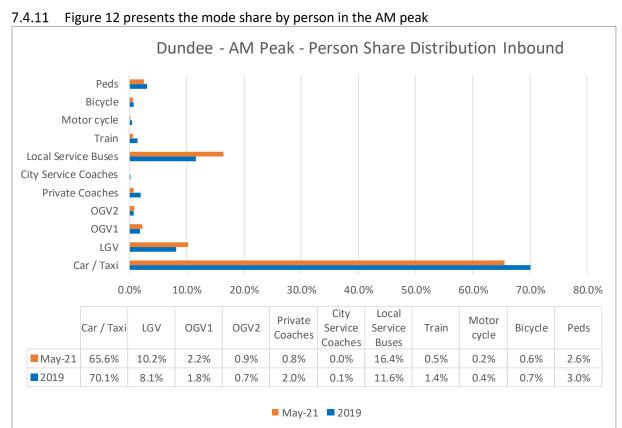


Figure 12. Dundee Person Share Distribution Inbound – AM Peak

7.4.12 Figure 12 shows that in the AM peak, the person mode share inbound remained relatively consistent over the survey periods. The results for rail show a drop between 2019 and May 2021. The total person movements recorded in each survey period was 32,151 in May 2019, and 28,683 in May 2021.

Tactran Mode Share Surveys	
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7.4.13 Figure 13 presents the same information for the outbound direction.

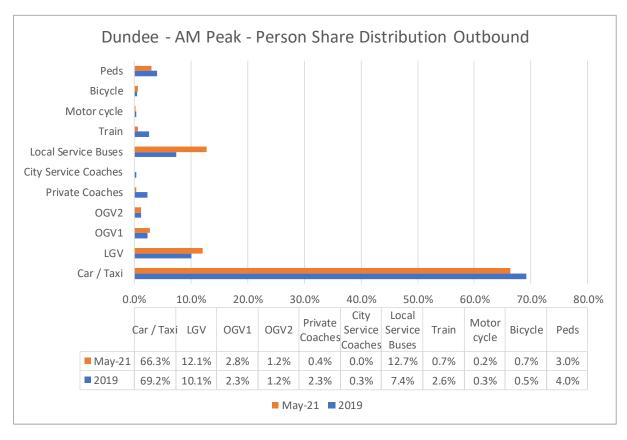


Figure 13. Dundee Person Share Distribution Outbound – AM Peak

- 7.4.14 Figure 13 shows a similar result to the inbound direction. The total person movements recorded in each survey period was 23,182 in May 2019, and 22,992 in May 2021.
- 7.4.15 Figure 14 and Figure 15 present the Inter peak mode share results by vehicle by direction and Figure 16 and Figure 17 present the Inter Peak mode share results by person by direction.
- 7.4.16 Each figure presents the mode share by vehicle type for the four survey periods (October 2020, February 2021, May 2021 and September 2021) and compares to the previous survey in 2019 (May 2019). The mode share by person is presented for May 2021 as this was the only survey that captured vehicle occupancy and is compared against the previous results in 2019.





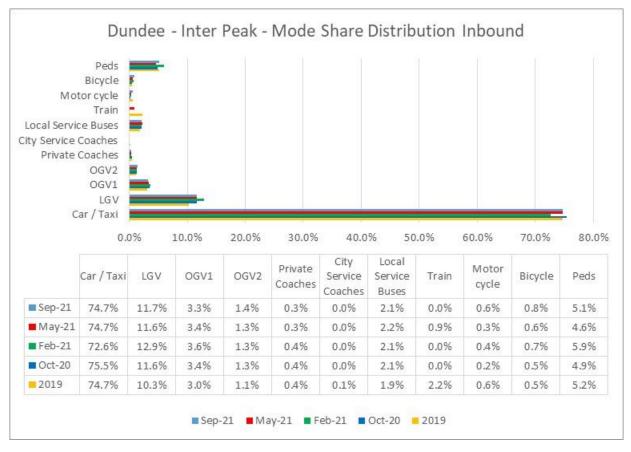


Figure 14. Dundee Mode Share Distribution Inbound – Inter Peak

- 7.4.17 Figure 14 shows that the mode share of vehicles remained relatively consistent over the four survey periods. The results for rail are only included in May 2021 as rail station surveys were only undertaken at this point. The total vehicle movements recorded in each survey period was 45,375 in May 2019, 43,318 in October 2020, 36,778 in February 2021, 41,231 in May 2021 and 43,037 in September 2021.
- 7.4.18 The proportion of LGVs has increased between 2019 and 2020/21, due to the increase in supermarket deliveries and online shopping deliveries.
- 7.4.19 The proportion of pedestrians was very similar across all of the surveys, whilst the proportion of cyclists was also similar across all survey periods.





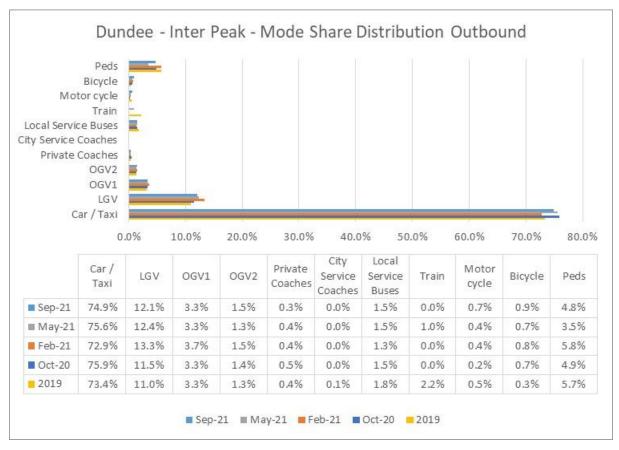


Figure 15. Dundee Mode Share Distribution Outbound – Inter Peak

7.4.20 Figure 15 shows that the majority of people heading out of Dundee did so by car and taxi. Total bus usage was around 2% in the inter peak, rail was around 1%, bicycle 0.7% and walking between 3% and 5%. The total vehicle movements recorded in each survey period was 47,809 in May 2019, 41,639 in October 2020, 34,398 in February 2021, 41,606 in May 2021 and 41,745 in September 2021.

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7.4.21 Figure 16 presents the mode share by person in the Inter peak.

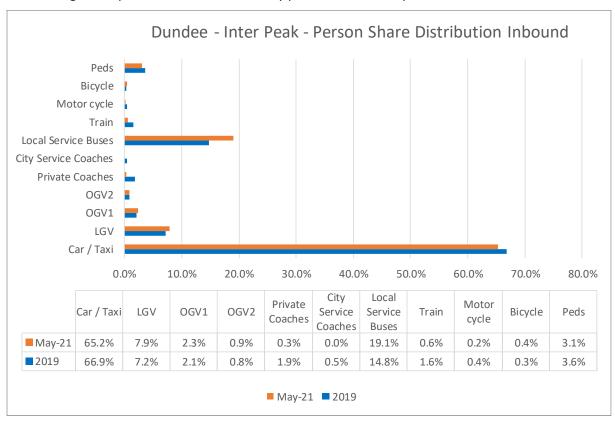


Figure 16. Dundee Person Share Distribution Inbound – Inter Peak

7.4.22 Figure 16 shows that in the inter peak, the person mode share inbound remained relatively consistent over the survey periods. The total person movements recorded in each survey period was 65,076 in May 2019, and 60,811 in May 2021.

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7.4.23 Figure 17 presents the same information for the outbound direction.

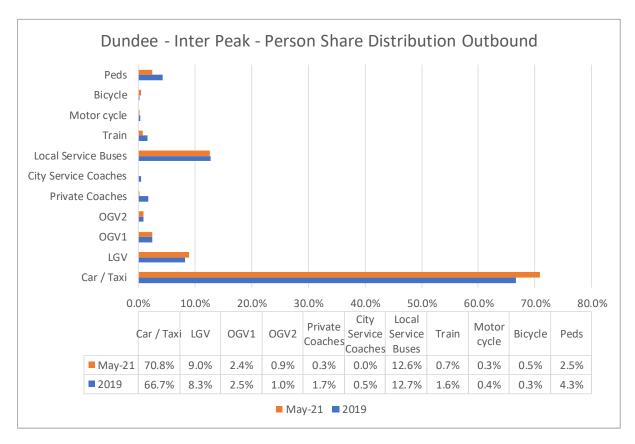


Figure 17. Dundee Person Share Distribution Outbound – Inter Peak

- 7.4.24 Figure 17 shows a similar result to the inbound direction, although car usage has increased, whilst rail, bus and coach usage and walking have reduced. The total person movements recorded in each survey period was 63,432 in May 2019, and 57,237 in May 2021.
- 7.4.25 Figure 18 and Figure 19 present the PM peak mode share results by vehicle by direction and Figure 20 and Figure 21 present the PM Peak mode share results by person by direction.
- 7.4.26 Each figure presents the mode share by vehicle type for the four survey periods (October 2020, February 2021, May 2021 and September 2021) and compares to the previous survey in 2019 (May 2019). The mode share by person is presented for May 2021 as this was the only survey that captured vehicle occupancy and is compared against the previous results in 2019.





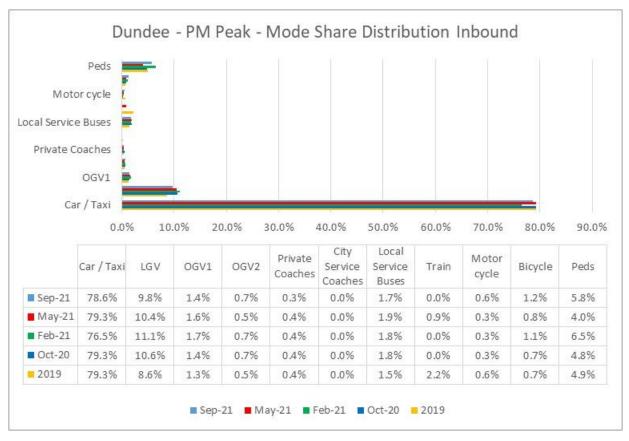


Figure 18. Dundee Mode Share Distribution Inbound – PM Peak

- 7.4.27 Figure 18 shows that the mode share of vehicles remained relatively consistent over the four survey periods. The results for rail are only included in May 2021 as rail station surveys were only undertaken at this point. The total vehicle movements recorded in each survey period was 27,005 in May 2019, 24,521 in October 2020, 21,081 in February 2021, 24,968 in May 2021 and 26,301 in September 2021.
- 7.4.28 The proportion of LGVs has increased between 2019 and 2020/21, due to the increase in supermarket deliveries and online shopping deliveries.
- 7.4.29 The proportion of pedestrians was very similar across all of the surveys, whilst the proportion of cyclists was also similar across all survey periods.





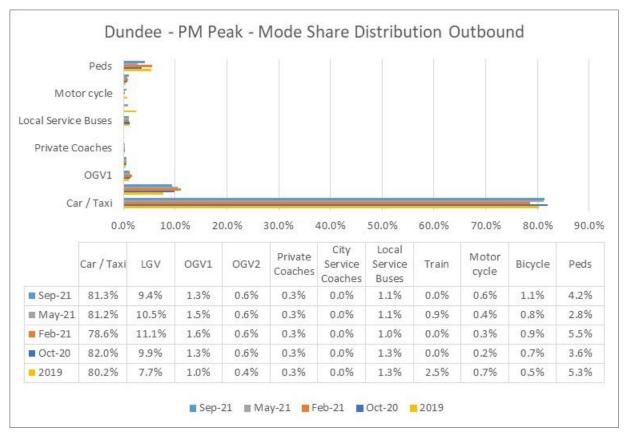


Figure 19. Dundee Mode Share Distribution Outbound – PM Peak

7.4.30 Figure 19 shows that the majority of people heading out of Dundee did so by car and taxi. Total bus usage was around 1.5% in the PM peak, rail was around 1%, bicycle 0.7% and walking between 3% and 6%. The total vehicle movements recorded in each survey period was 31,807 in May 2019, 26,692 in October 2020, 21,440 in February 2021, 27,400 in May 2021 and 27,564 in September 2021.

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7.4.31 Figure 20 presents the mode share by person in the Inter peak.

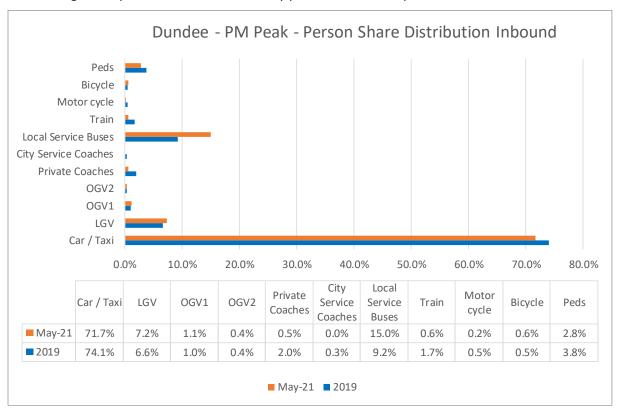


Figure 20. Dundee Person Share Distribution Inbound – PM Peak

7.4.32 Figure 20 shows that in the PM peak, the person mode share inbound remained relatively consistent over the survey periods. The results for rail shows a drop between 2019 and May 2021. The total person movements recorded in each survey period was 35,391 in May 2019, and 35,948 in May 2021.

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7.4.33 Figure 21 presents the same information for the outbound direction.

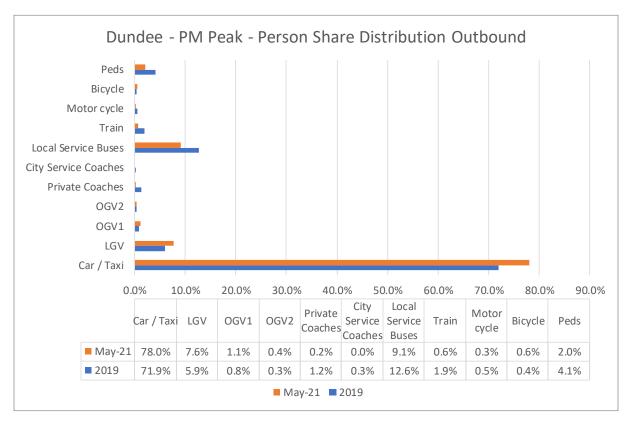


Figure 21. Dundee Person Share Distribution Outbound – PM Peak

- 7.4.34 Figure 21 shows a similar result to the inbound direction, although car usage has increased, whilst rail, bus and coach usage and walking have reduced. The total person movements recorded in each survey period was 41,477 in May 2019, and 37,699 in May 2021
- 7.4.35 Figure 22 and Figure 23 present the 12 hour (06:30-18:30) mode share results by vehicle by direction and Figure 24 and Figure 25 present the 12 hour (06:30-18:30) mode share results by person by direction.
- 7.4.36 Each figure presents the mode share by vehicle type for the four survey periods (October 2020, February 2021, May 2021 and September 2021) and compares to the previous survey in 2019 (May 2019). The mode share by person is presented for May 2021 as this was the only survey that captured vehicle occupancy and is compared against the previous results in 2019.





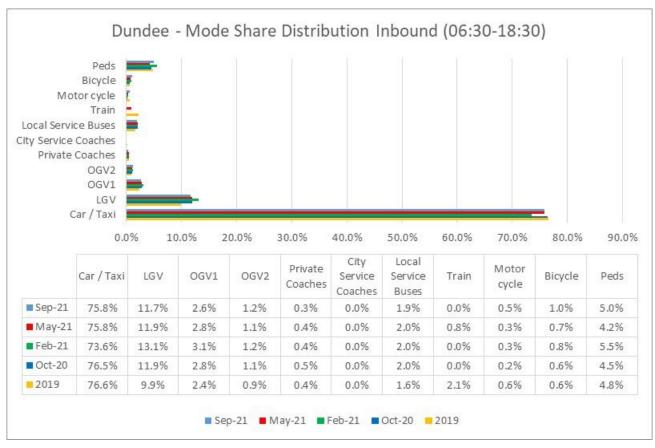


Figure 22. Dundee Mode Share Distribution Inbound – Full Day

- 7.4.37 Figure 22 shows that the mode share of vehicles remained relatively consistent over the three survey periods. The results for rail are only included in May 2021 as rail station surveys were only undertaken at this point. The total vehicle movements recorded in each survey period was 97,033 in May 2019, 87,407 in October 2020, 74,503 in February 2021, 86,874 in May 2021 and 90,303 in September 2021.
- 7.4.38 The proportion of LGVs has increased between 2019 and 2020/21, due to the increase in supermarket deliveries and online shopping deliveries.
- 7.4.39 The proportion of pedestrians was very similar across all of the surveys, whilst the proportion of cyclists was also similar across all survey periods, the highest proportion being recorded in September 2021.





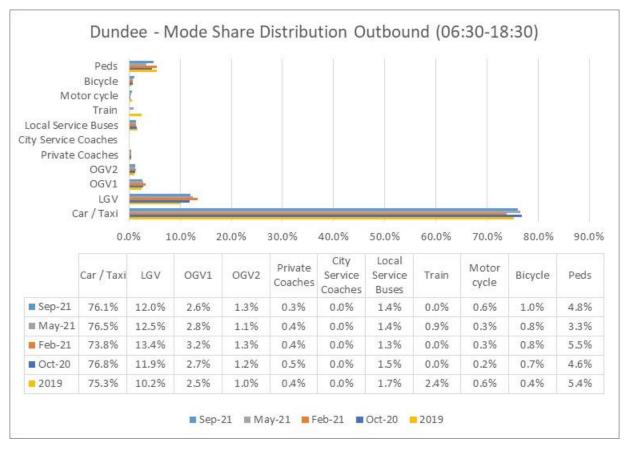


Figure 23. Dundee Mode Share Distribution Outbound – Full Day

7.4.40 Figure 23 shows that the majority of people heading out of Dundee did so by car and taxi. Total bus usage was around 2% in the PM peak, rail was around 1%, bicycle 0.7% and walking between 3% and 6%. The total vehicle movements recorded in each survey period was 98,817 in May 2019, 85,456 in October 2020, 69,484 in February 2021, 86,721 in May 2021 and 87,307 in September 2021.

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7.4.41 Figure 24 presents the mode share by person in the Inter peak.

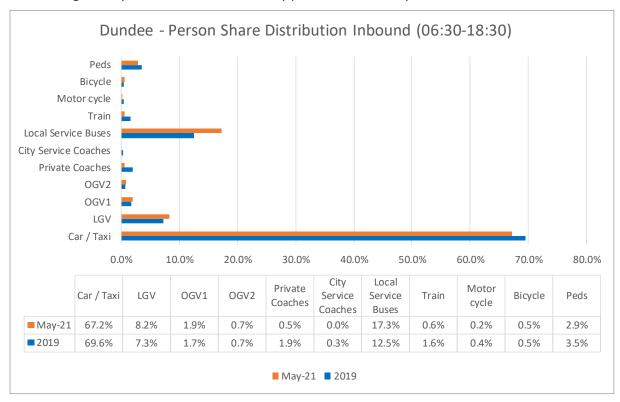


Figure 24. Dundee Person Share Distribution Inbound – Full Day

7.4.42 Figure 24 shows that across the day, the person mode share inbound remained relatively consistent over the survey periods. The results for rail shows a drop between 2019 and May 2021. The total person movements recorded in each survey period was 132,618 in May 2019, and 125,442 in May 2021.

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7.4.43 Figure 25 presents the same information for the outbound direction.

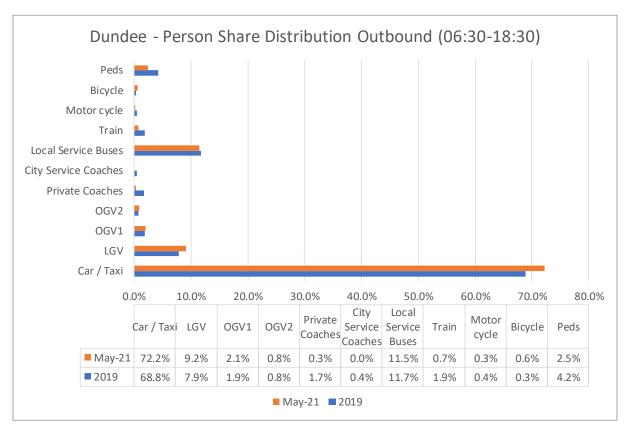


Figure 25. Dundee Person Share Distribution Outbound – Full Day

7.4.44 Figure 25 shows a similar result to the inbound direction, although car usage has increased, whilst rail, bus and coach usage and walking have reduced. The total person movements recorded in each survey period was 128,091 in May 2019, and 117,928 in May 2021

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8. SUMMARY & FINDINGS

8.1 Summary

- 8.1.1 SYSTRA Ltd (SYSTRA) was commissioned by Tactran to undertake traffic surveys through various sites in the Angus, Dundee, Perth & Kinross, & Stirling area.
- 8.1.2 This report has captured the outcomes from surveys across the Dundee Council area.
- 8.1.3 The types of surveys undertaken for this study were:
 - Pedestrian Behaviour and volume counts
 - Link count and speed surveys
 - Classified Turning Counts (including cyclists & pedestrians)
 - Rail Station Counts
 - Bus Occupancy Counts
 - Vehicle Occupancy Counts.
- 8.1.4 All surveys were recorded over a 16 hour period (06:00-22:00) and the analysis was split into the following time periods:

AM Peak Period - 07:00 - 10:00
 Inter Peak Period - 10:00 - 16:00
 PM Peak Period - 16:00 - 19:00

- 8.1.5 The mode share data was also considered from the perspective of the share of vehicles and by the share of people. Both these methodologies are presented in this report, and are detailed as follows:
 - 'Mode Share Distribution' Each vehicle, including buses counts as 1 trip this methodology does not take into account the number of people in a vehicle or a bus
 - 'Person Share Distribution' Each person counts as 1 trip, therefore the bus patronage and multi occupancy vehicle.

8.2 Findings

Pedestrian Behaviour and Volume Counts

8.2.1 The results of the pedestrian behaviour and volume surveys indicate:

Dundee

- On the west side footpath of Perth Road, adjacent to the Nethergate, on average 54% of pedestrians across the 3 days did not conflict with oncoming pedestrians, whilst 45% passed on the footpath within a space of 2m or less. The remainder passed with a space over 2m or stepped out into the live carriageway.
- On the east side footpath of Perth Road, adjacent to the Nethergate, on average 59% of pedestrians across the 3 days did not conflict with oncoming pedestrians, whilst 41% passed on the footpath within a space of 2m or less.

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- On the west side footpath of Union Street, on average 46% of pedestrians across the 3 days did not conflict with oncoming pedestrians, whilst 41% passed on the footpath within a space of 2m or less. The remainder passed with a space over 2m or stepped out into the live carriageway.
- 0 On the east side footpath of Union Street, on average 53% of pedestrians across the 3 days did not conflict with oncoming pedestrians, whilst 43% passed on the footpath within a space of 2m or less. The remainder passed with a space over 2m or stepped out into the live carriageway
- 0 Pedestrian volumes were generally lowest in February 2021 when Scotland was under lockdown and highest in September 2021.

Link Count and Speed Surveys

8.2.2 The results of the wider link counts and speed surveys indicate:

Dundee

0 The mean speed of traffic on Perth Road, Art School (Site 2), Balunie Drive (Site 7) and Ballindean Road (Site 8) showed similar values throughout each survey period. Speeds on Findowrie Street (Site 4) and Fintry Road (Site 5) went up in February, May and September 2021 when compared with October 2020. On Perth Road, Step Row (site 1) and Perth Road, Nethergate (Site 3) mean speeds were similar in October 2020 and February 2021, however went down in May and September 2021.

Broughty Ferry

0 Mean speeds increased on The Esplanade (Site 1) in February 2021 and then again in May and September 2021 – compared with October 2020. On Brook Street (Site 2) and King Street (Site 3) mean speeds went up in February 2021 and then returned to similar levels in May and September 2021 compared with October 2020.

Mode Share Surveys (Dundee)

- 8.2.3 The results of the mode share surveys in Dundee indicate that the mode share has remained consistent over the four surveys, car usage in each period has been around 75%, the volume of cyclists has remained around or below 1% and pedestrians have remained consistent at around 3% to 5%. The mode share by person surveys indicated:
 - 0 In the 2021 AM peak the majority of people travelling inbound were doing so by car/taxi (65.6%), LGV accounted for around 10% of people and HGV around 3%. In terms of public transport bus accounted for around 17% of people and train under 1%. Cycling and walking accounted for just under 4%, cycling at 0.6% and walking at 2.6% of all people heading inbound towards Dundee city centre.
 - 0 In the 2021 AM peak the majority of people travelling outbound were again doing so by car/taxi (66.3%), LGV accounted for around 12% of people and HGV around 4%. In terms of public transport bus accounted for around 13% of people and train under 1%. Cycling and walking accounted for just under 4%, cycling at 0.7% and walking at 3% of all people heading outbound from Dundee city centre.

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- In the 2021 inter-peak, the majority of people travelling inbound were doing so by car/taxi (65.2%), LGV accounted for 8% of people and HGV around 3%. In terms of public transport bus accounted for around 20% of people and train under 1%. Cycling and walking accounted for just under 4%, cycling at 0.4% and walking at 3.1% of all people heading inbound towards Dundee city centre.
- 0 In the 2021 inter-peak, the majority of people travelling outbound were again doing so by car/taxi (70.8%), LGV accounted for 9% of people and HGV around 3%. In terms of public transport bus accounted for around 13% of people and train under 1%. Cycling and walking accounted for just 3%, cycling at 0.5% and walking at 2.5% of all people heading outbound from Dundee city centre.
- 0 In the 2021 PM peak, the majority of people travelling inbound were doing so by car/taxi (71.7%), LGV accounted for slightly over 7% of people and HGV around 1.5%. In terms of public transport bus accounted for around 15.5% of people and train under 1%. Cycling and walking accounted for just under 4%, cycling at 0.9% and walking at 2.8% of all people heading inbound towards Dundee city centre.
- 0 In the 2021 PM peak, the majority of people travelling outbound were doing so by car/taxi (78%), LGV accounted for around 8% of people and HGV around 1.5%. In terms of public transport bus accounted for around 9% of people and train under 1%. Cycling and walking accounted for just under 3%, cycling at 0.6% and walking at 2% of all people heading outbound from Dundee city centre.
- 0 Across the full day (06:30-18:30), the majority of people travelling inbound were doing so by car/taxi (67.2%), LGV accounted for slightly over 8% of people and HGV around 2.6%. In terms of public transport bus accounted for around 17.3% of people and train under 1%. Cycling and walking accounted for just under 4%, cycling at 0.5% and walking at 2.9% of all people heading inbound towards Dundee city centre.
- 0 Across the full day (06:30-18:30), the majority of people travelling outbound were doing so by car/taxi (72.2%), LGV accounted for around 9% of people and HGV around 3%. In terms of public transport bus accounted for around 12% of people and train under 1%. Cycling and walking accounted for just over 3%, cycling at 0.6% and walking at 2.5% of all people heading outbound from Dundee city centre

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