



# **Whitehorse Transportation and Commuting Survey 2021 Report**

Prepared by  
Yukon Bureau of Statistics  
for  
Department of Environment  
Government of Yukon

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## Background

The Yukon Bureau of Statistics (YBS) fielded the Survey of Transportation and Commuting Habits in Whitehorse in early 2021 on behalf of Government of Yukon Department of Environment. The purpose of the survey was to collect information about Whitehorse residents' commuting patterns.

## Methodology

YBS drew one adult at random from each household in a randomly drawn sample of all households inside Whitehorse city limits in its household survey frame. The sample was stratified by age group and gender. From a total sample of 1,208 households, 1,078 eligible respondents were identified. Those with invalid or incorrect contact information who could not be traced were removed from the sample.

Whenever there was an email address on file, respondents were invited by email to complete the survey online. After an initial email invitation and two weekly reminders, telephone interviews were conducted with those who did not respond to the email invitation and those for whom YBS had no email address on file.

Analytical weights were applied to the responses to generate population-level estimates after adjusting for non-response by stratum. The weighted response rate for the survey was 67.7%, while the refusal rate was 8.7%.

## Survey Results

The questionnaire included five main blocks of questions:

- Personal driving habits (vehicle ownership and driver's license status);
- Commuting to work, including commuting distance, modes of transportation and seasonal differences;
- General driving habits, including weekly distance driven and frequency of trips for work, errands, and helping others get around;
- Barriers to active transportation and public transportation when commuting;
- Impact of the Covid-19 pandemic on transportation choices.

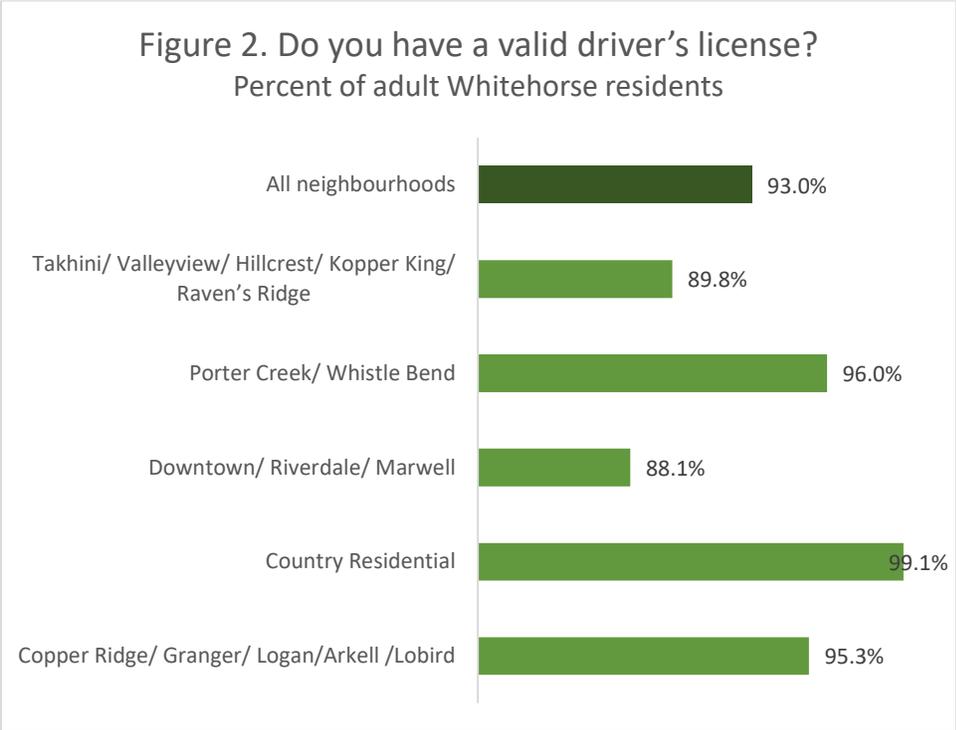
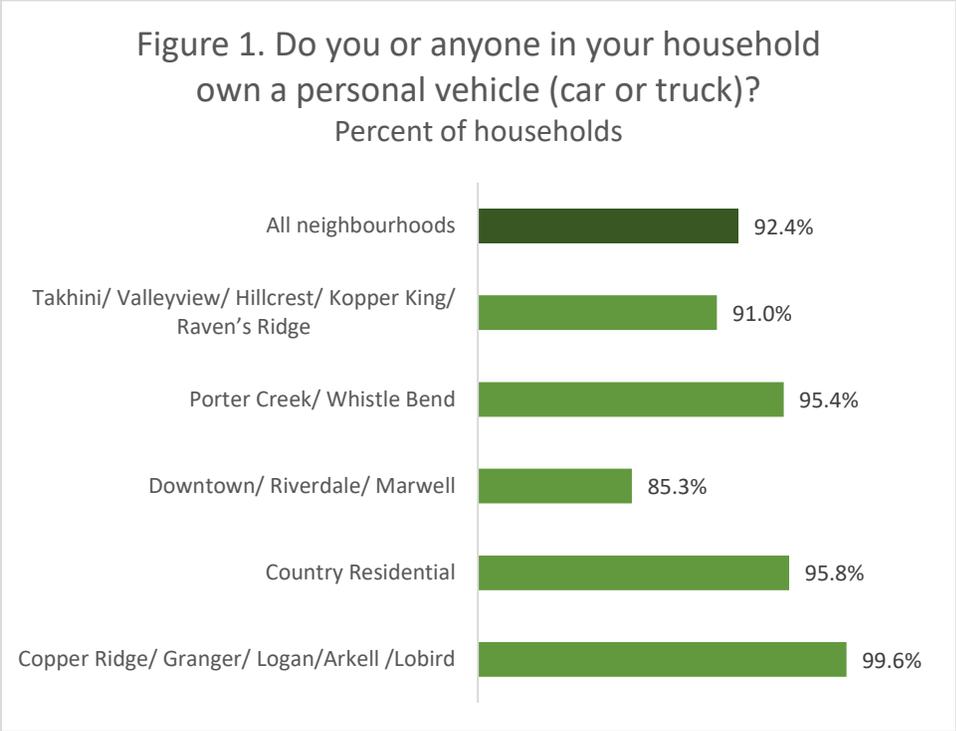
Where practical, the results are presented by neighbourhood in this report. For the purpose of this analysis, neighbourhoods were combined into five groups based on their proximity to the city centre, as well as the presence or absence of active transportation and public transportation options.

### A. Personal driving habits

This section of the survey asked whether anyone in the respondent's household owns a personal vehicle, and whether the respondent has a valid driver's license.

Most households (92.4%) have a personal vehicle. Households in the downtown, Riverdale and Marwell neighbourhood group were slightly less likely than others to own a vehicle (Figure 1).

Similarly, most adult Whitehorse residents (93%) have a valid driver's license. Those living in the downtown core were slightly less likely than others to have a license (Figure 2).



## B. Commuting to work

The survey asked respondents whether they are employed or self-employed, and for those who were working, it also asked a set of questions about their distance to work and mode of transportation. Altogether, 70.7% of adult Whitehorse residents were employed or self-employed at the time of the survey.

Note that for this section of the survey, respondents were asked to describe their typical commute outside of any pandemic adaptations to their work arrangements: *“If you are currently working from home due to COVID-19, but typically work elsewhere, please select your usual commute distance prior to when you began working from home.”*

The majority of working Whitehorse residents have a commuting distance of under 11 kilometres (73.9%; see Figure 3). Those who live in country residential neighbourhoods are most likely to commute 11 kilometres or more for work (Figure 3.1.)

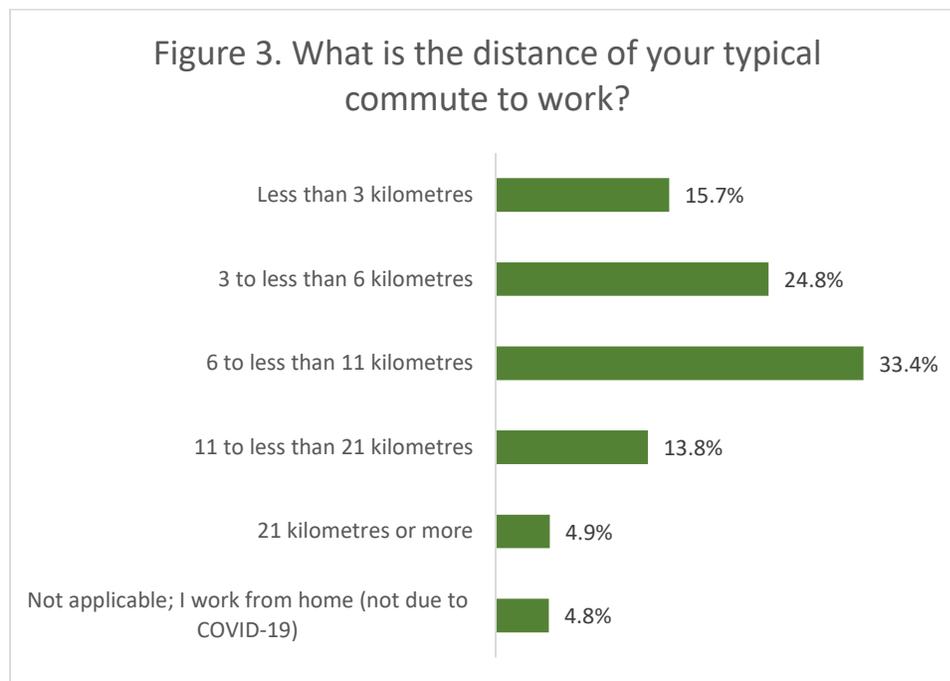
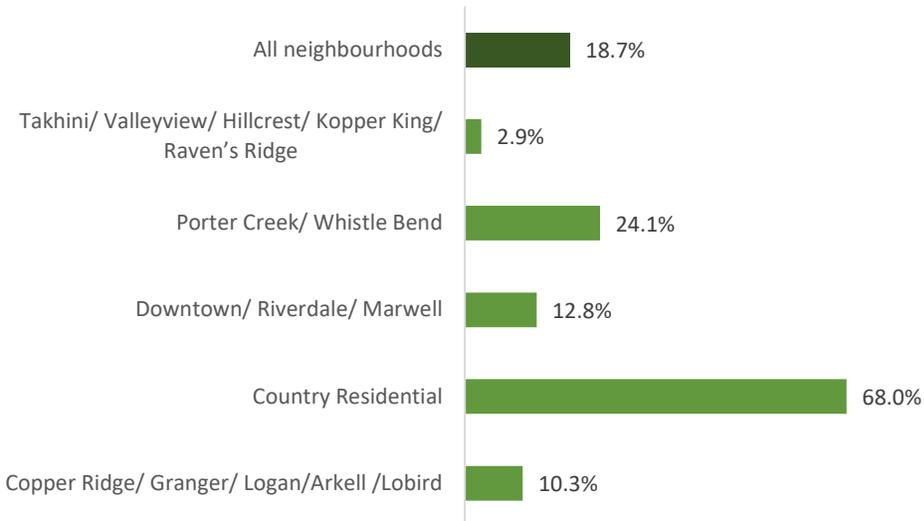


Figure 3.1. What is the distance of your typical commute to work?

Percent commuting 11 km or more



Approximately two-thirds of work commuters (67.8%) typically travel to and from work in a personal vehicle without any passengers (Figure 4). Those who live in the downtown and Takhini neighbourhood groups are somewhat less likely than others to commute to work in a single-occupant vehicle (Figure 4.1.)

Figure 4. How do you usually get to work?

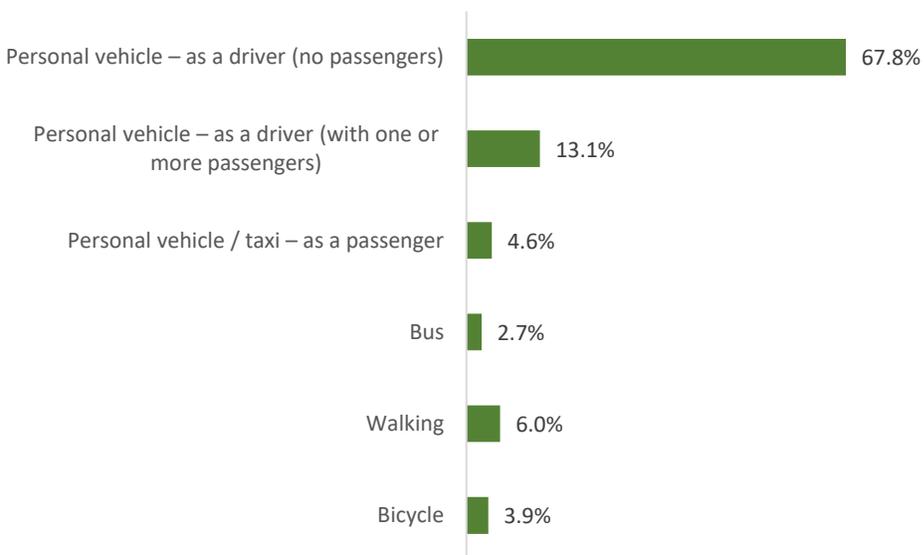
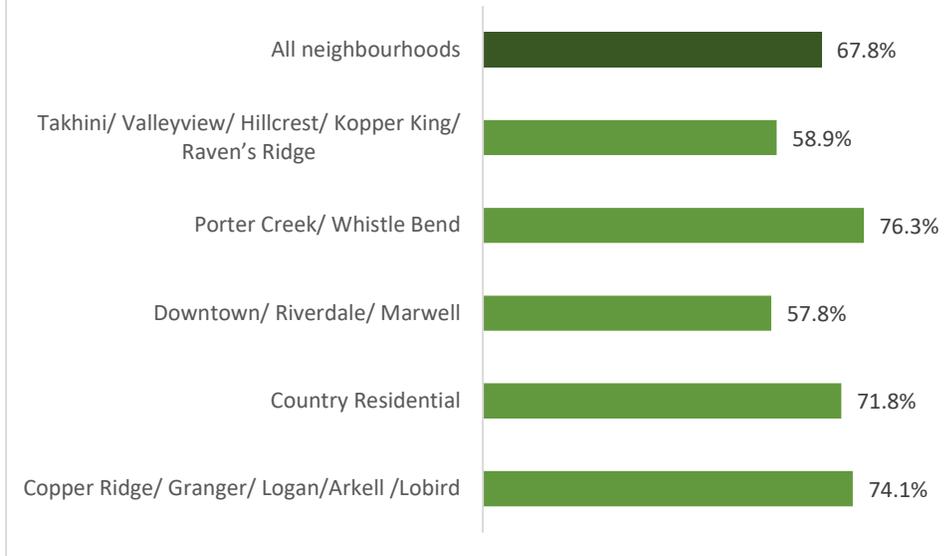


Figure 4.1. How do you usually get to work?  
Percent commuting in a personal vehicle - single occupant



Nearly 18% of work commuters said their mode of transportation changes depending on the season. Those residents are considerably more likely to walk or use a bicycle to commute to work in the summer months (Figures 5-6).

As the seasonal commuting estimates are based on a small subset of respondents, the neighbourhood-level results must be interpreted with caution. See the Appendices for detailed information.

Figure 5. What is your usual mode of transportation to and from work in the summer months?

(Only includes respondents whose mode of transportation changed from the summer to winter months. Multiple responses were allowed)

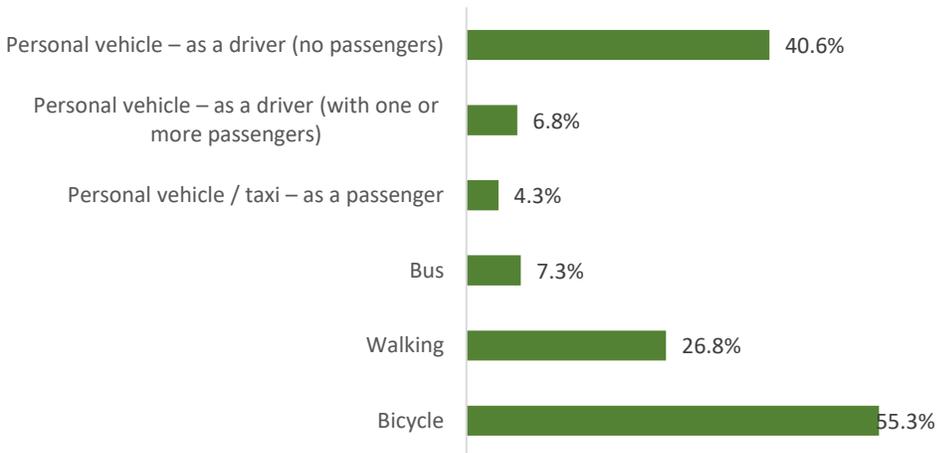
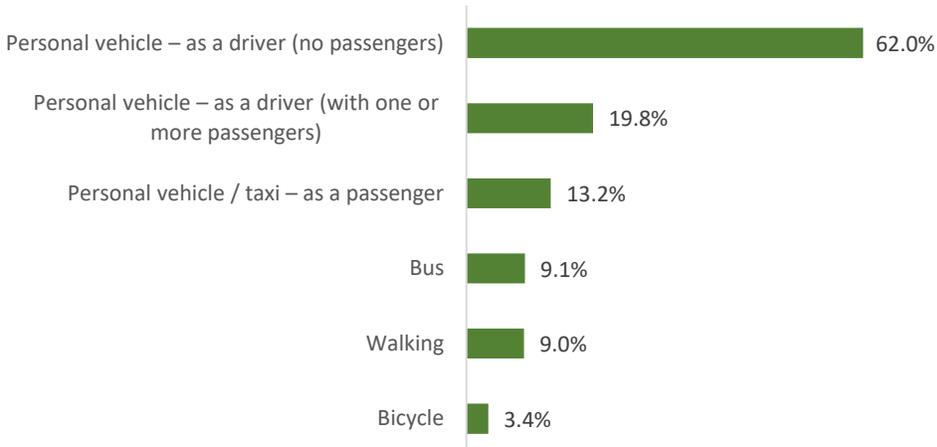


Figure 6. What is your usual mode of transportation to and from work in the winter months?

(Only includes respondents whose mode of transportation changed from the summer to winter months. Multiple responses were allowed)



### C. General driving habits

This section of the survey asked how many kilometres residents who have a driver's license drive in a typical week. It also collected information about how frequently people drive to and from work, for errands, and for helping others get around.

While the average distance driven varied overall (Figure 7), there were some notable differences by neighbourhood (Figure 7.1.) Residents of the downtown and Takhini neighbourhood groups were substantially less likely than others to say they drive 100 km or more in a typical week.

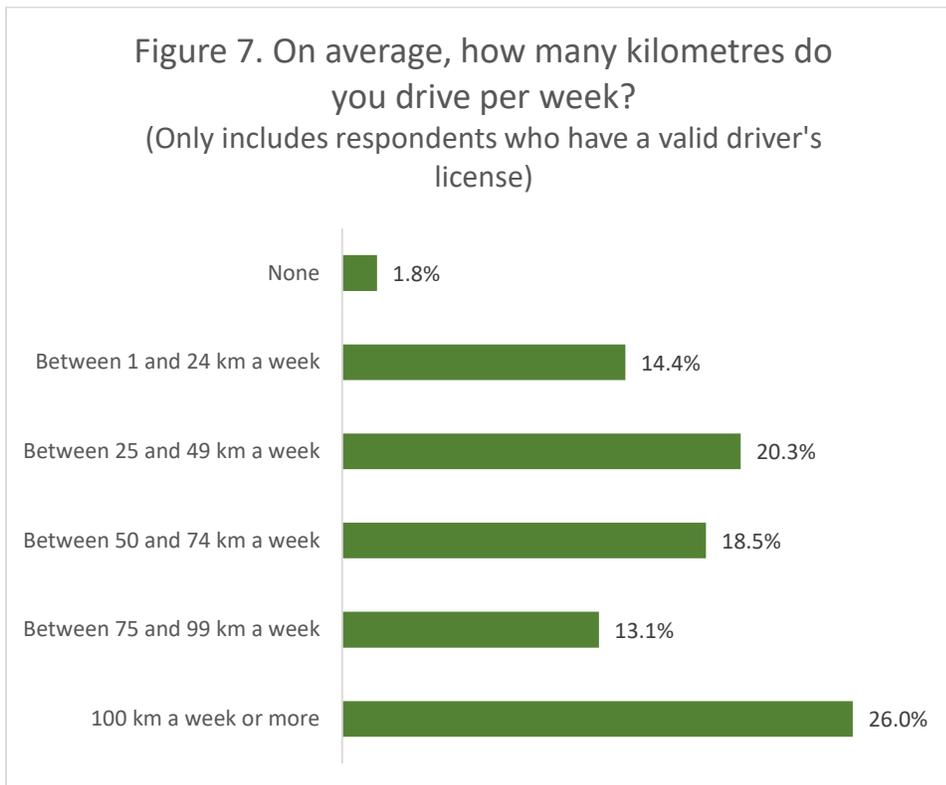
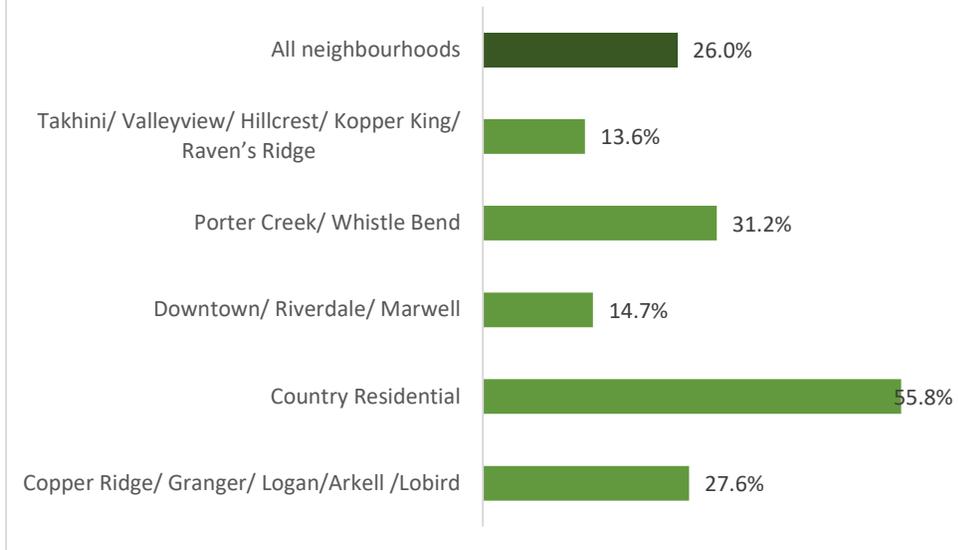


Figure 7.1. On average, how many kilometres do you drive per week?

Percent who drive 100 km or more



Approximately 65% of residents who are employed or self-employed and have a driver's license typically drive to and from work three or more days a week (Figure 8). Residents living in the downtown neighbourhood group were less likely than others to drive to and from work three or more days a week (Figure 8.1.)

Figure 8. How often do you typically drive to and from work?

(Only includes respondents who are currently employed or self-employed)

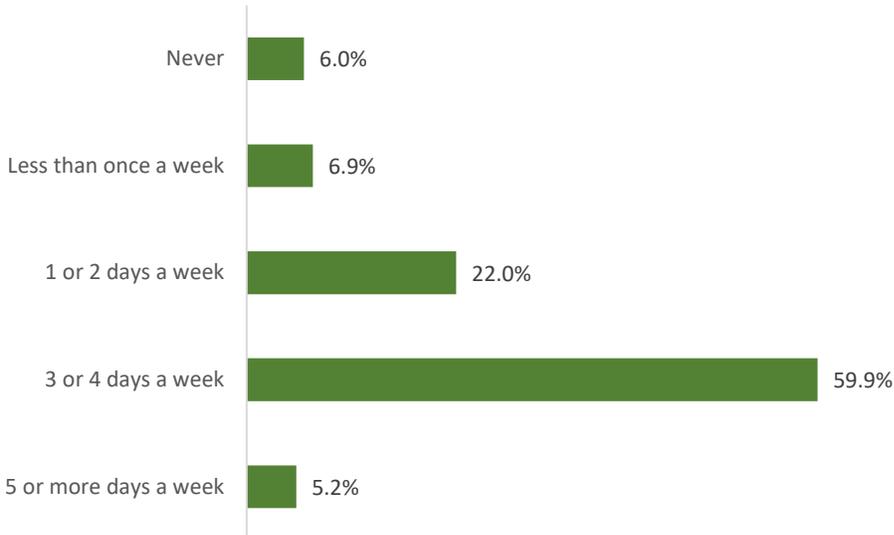
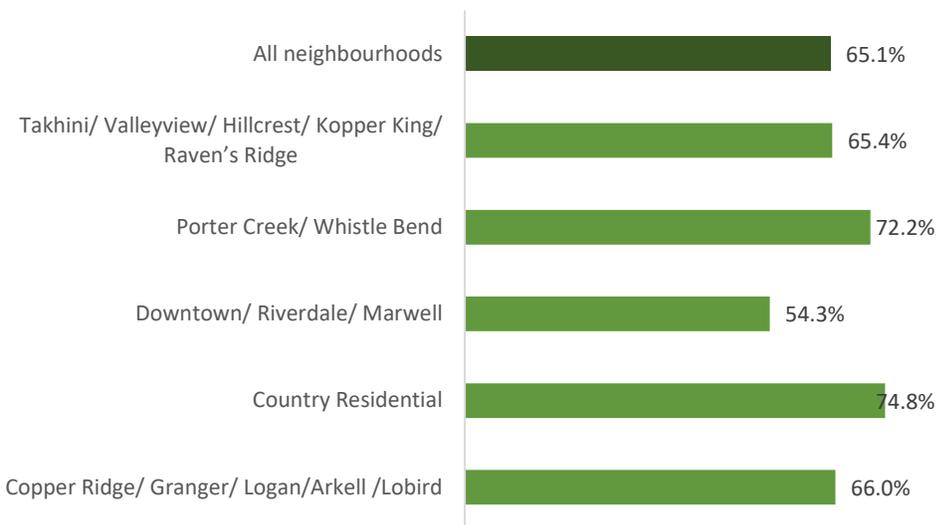


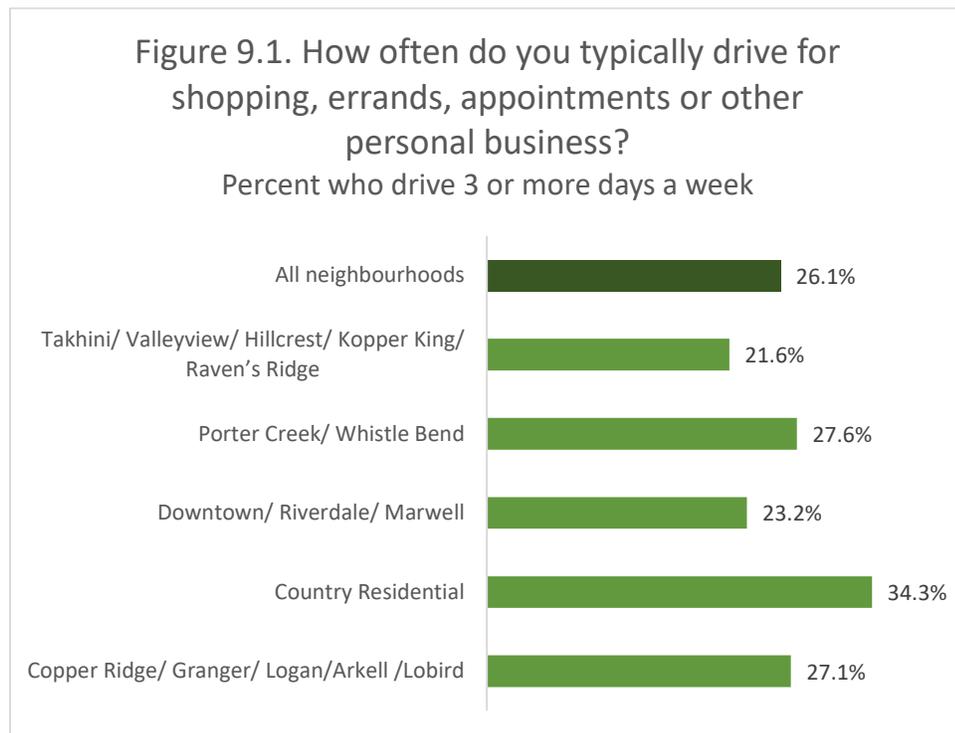
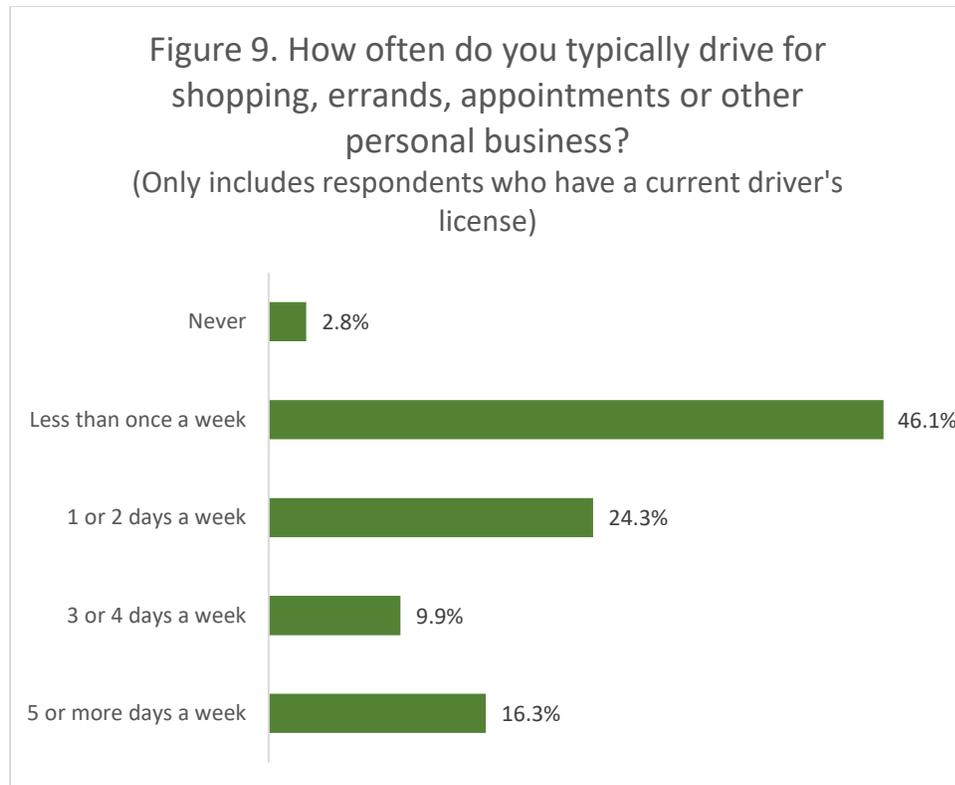
Figure 8.1. How often do you typically drive to and from work?

Percent who drive 3 or more days a week

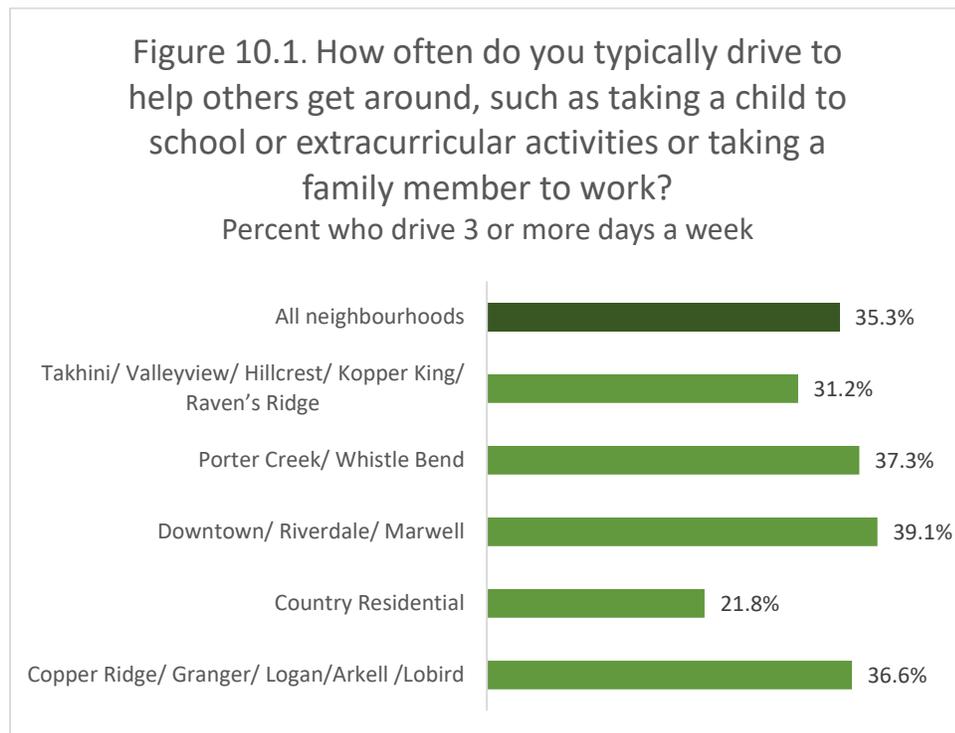
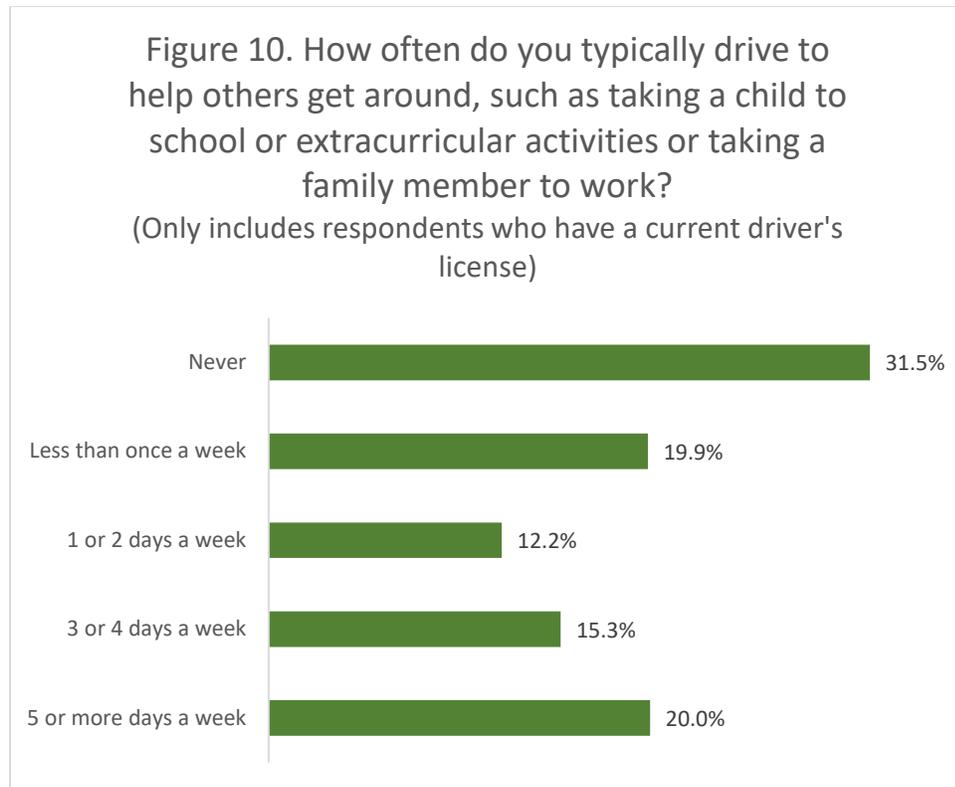


While 26% of residents who have a driver's license say they typically drive for shopping, errands, appointments or other personal business three or more times a week, residents of the downtown and Takhini neighbourhood groups were less likely to drive often for these reasons.

Residents of the country residential neighbourhoods were more likely to say they drive for these reasons three or more times a week (Figures 9 and 9.1.)



Altogether, 35.3% of residents who have a driver's license say they drive three or more days a week to help others get around (Figure 10). The rate was lowest for those in the country residential neighbourhood group (Figure 10.1.)



## D. Barriers to active transportation and public transportation when commuting

This section of the survey asked residents who were currently working about barriers to active transportation and public transportation when commuting. First, we asked if they would consider walking, biking or taking the bus more frequently if active or public transportation options were made more accessible or feasible (Figure 11).

While 39.1% of residents said “Yes,” residents in the Takhini neighbourhood group were more likely than others to do so (Figure 11.1). Residents in the downtown and Takhini neighbourhood groups were also more likely than others to say they already use public or active transportation (Figure 11.2).

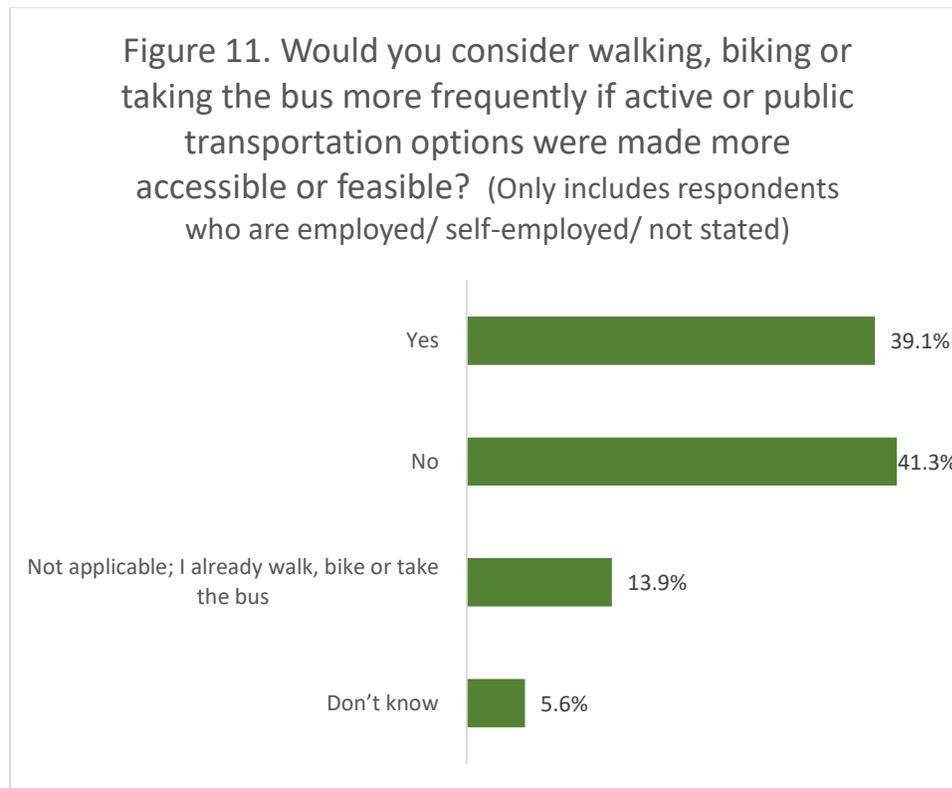


Figure 11.1. Would you consider walking, biking or taking the bus more frequently if active and/or public transportation options were made more accessible or feasible? Percent "Yes"

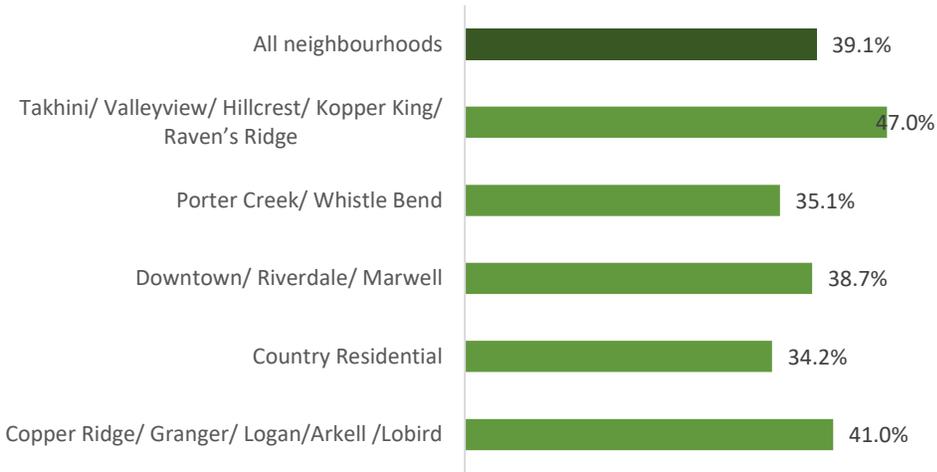
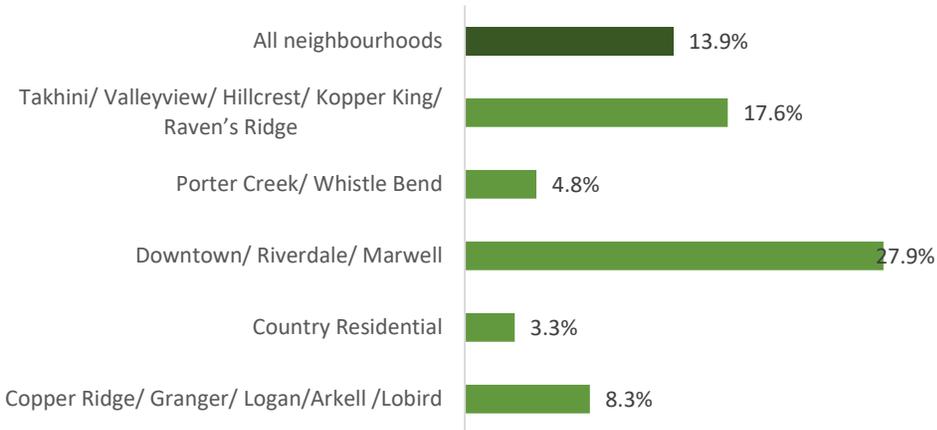
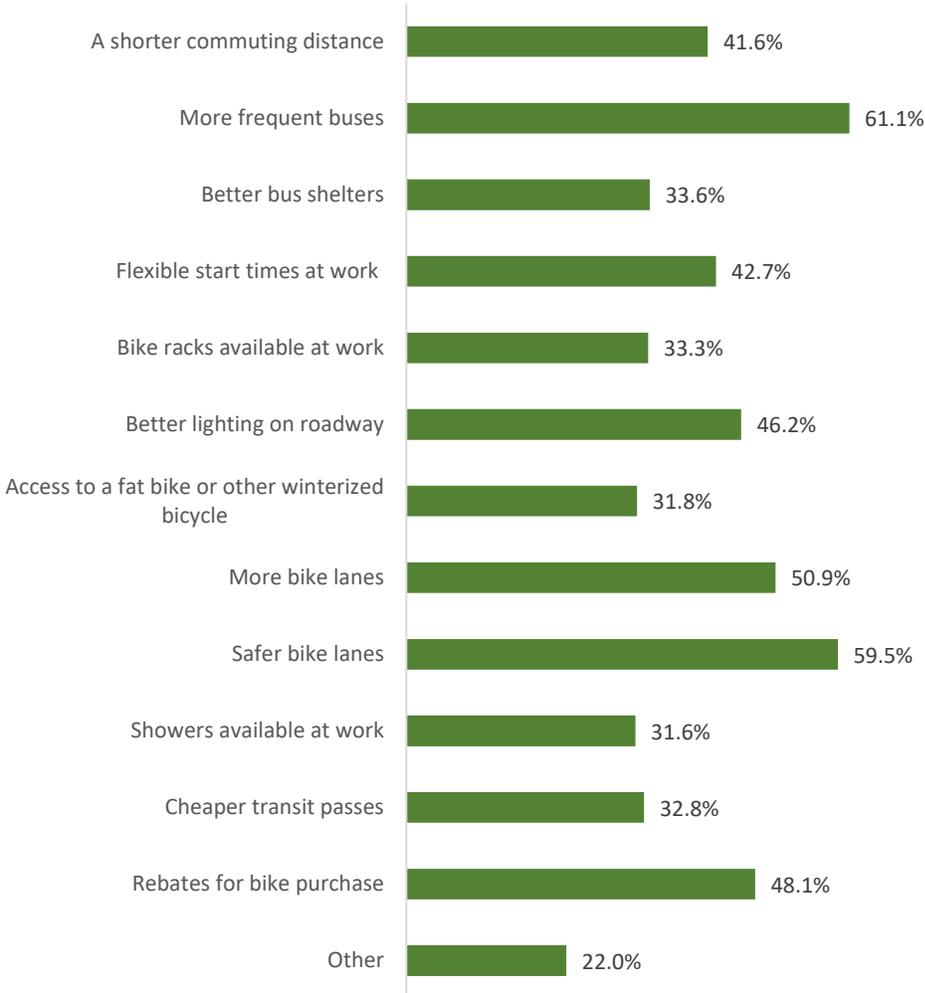


Figure 11.2. Would you consider walking, biking or taking the bus more frequently if active and/or public transportation options were made more accessible or feasible? Percent "Not applicable; I already walk, bike, or take the bus"



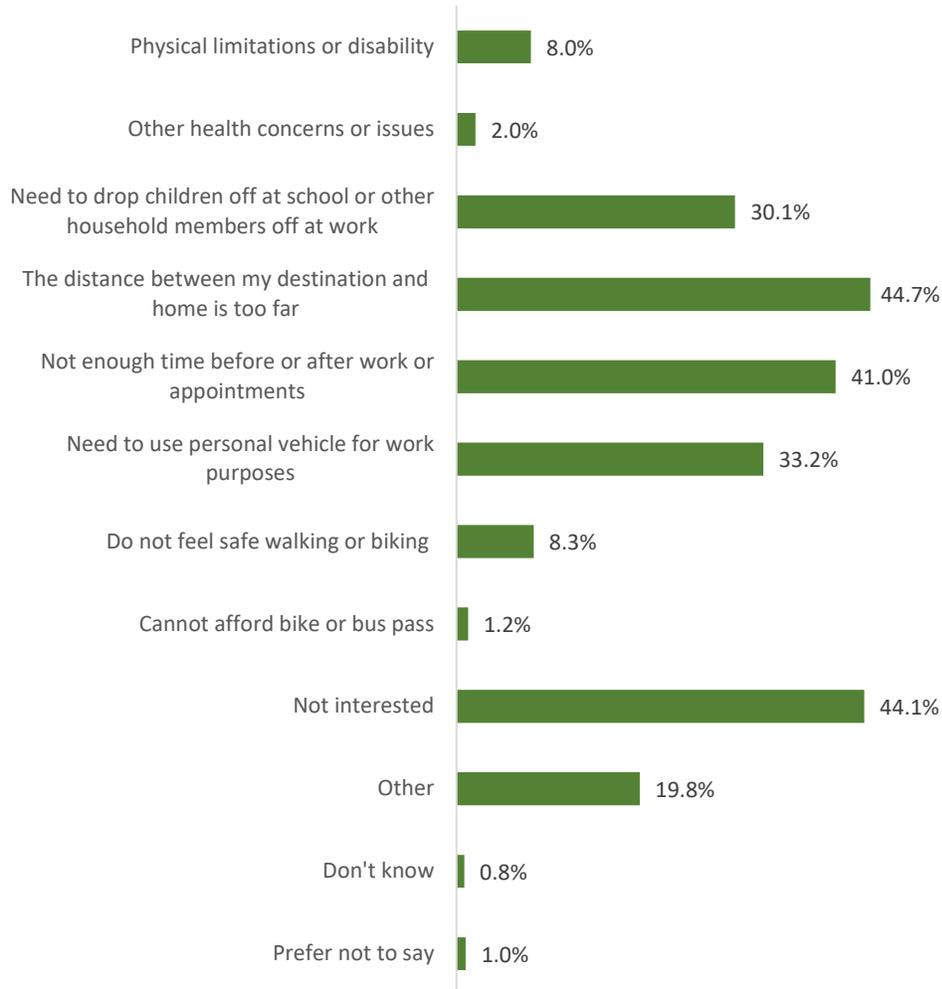
Those who answered "Yes" were asked what would encourage them to use public or active transportation more often. The three most popular responses were: more frequent buses (61.1%), safer bike lanes (59.5%), and more bike lanes (50.9%; see Figure 12).

Figure 12. Which of the following factors would make you walk, cycle, or use transit more often?  
 (Only includes respondents who answered "yes" to the previous question. Multiple responses were allowed)



Those who said they would not consider using active or public transport more often were asked what makes it difficult for them. The three most popular responses were: the distance between home and their destination is too far (44.7%), lack of interest (44.1%), and not enough time before or after work or appointments (41.0%; see Figure 13).

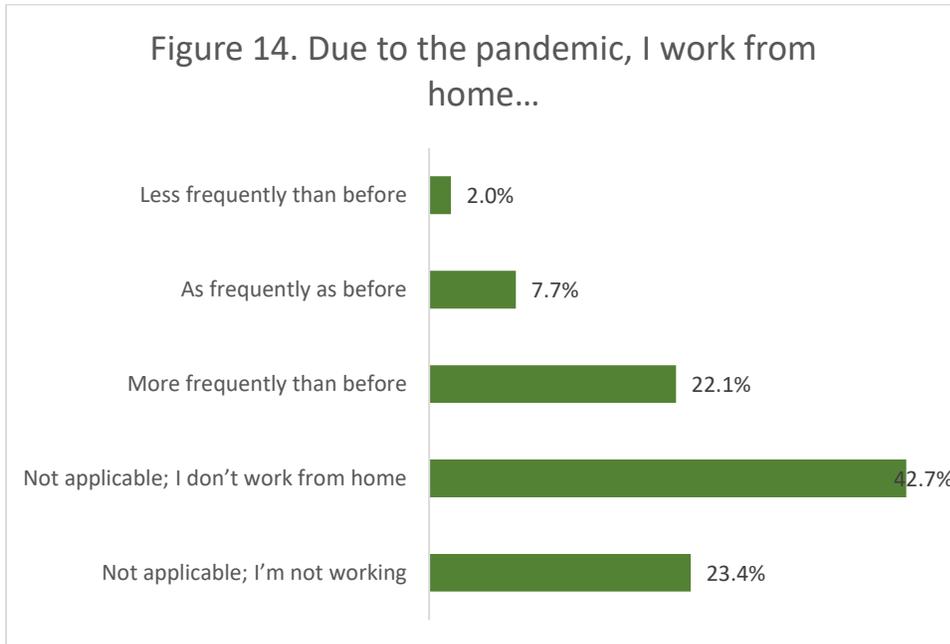
Figure 13. Which of the following factors make it difficult for you to walk, bike or take the bus?(Only includes respondents who answered "no" to the previous question. Multiple responses were allowed)



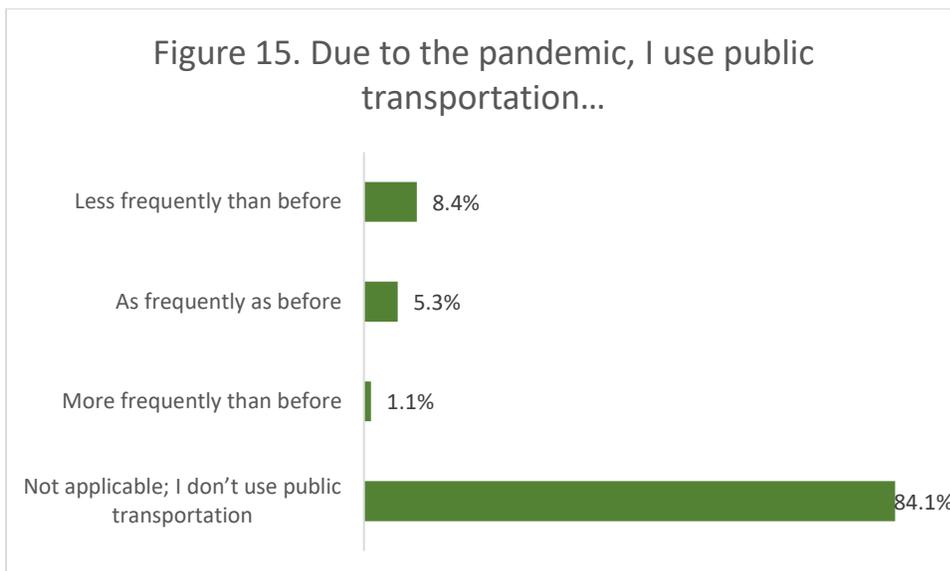
## E. Impact of the Covid-19 pandemic on transportation choices

The final section of the questionnaire assessed the impact of the Covid-19 pandemic on transportation choices. The results are presented for all neighbourhoods combined.

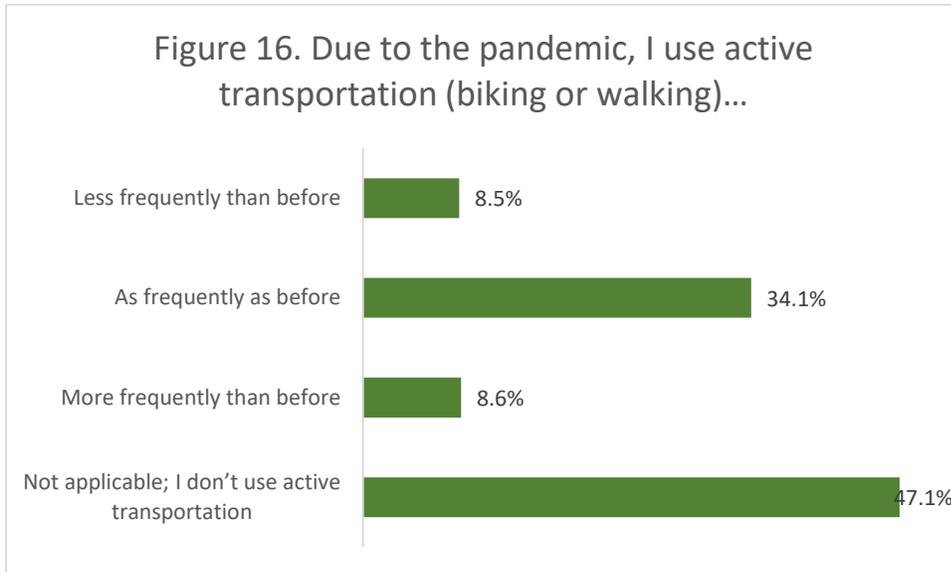
Overall, 22.1% of residents say they work from home more frequently than before due to the pandemic, while 2.0% of residents say they work from home less frequently (Figure 14).



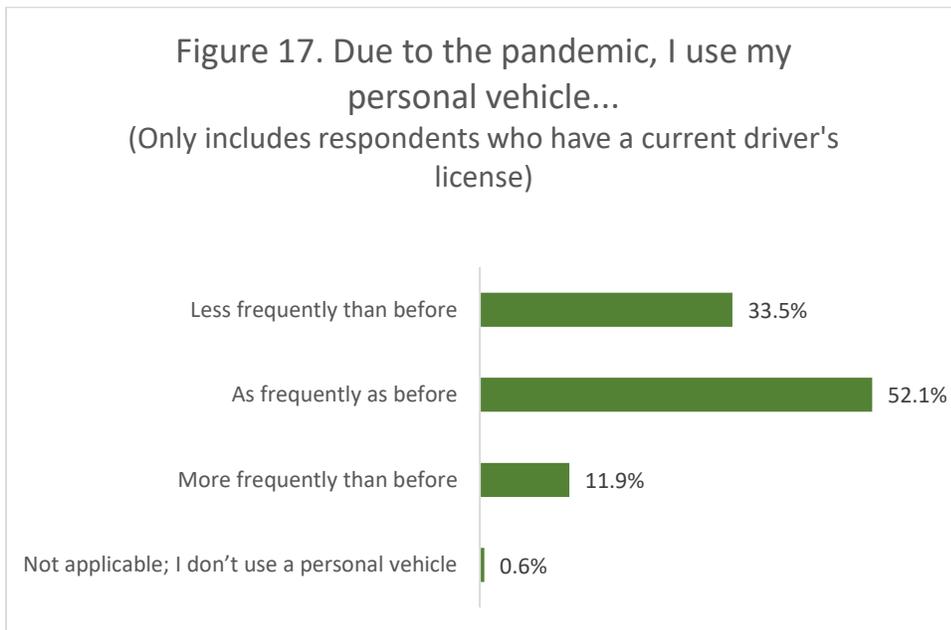
The pandemic appears to have had a negative impact on public transportation use, as 8.4% of residents say they use public transportation less frequently than before, and 1.1% use it more frequently than before (Figure 15).



The pandemic appears to have a neutral impact overall on active transportation, as 8.5% of residents say they use active transportation less frequently than before, and 8.6% use it more frequently than before (Figure 16).

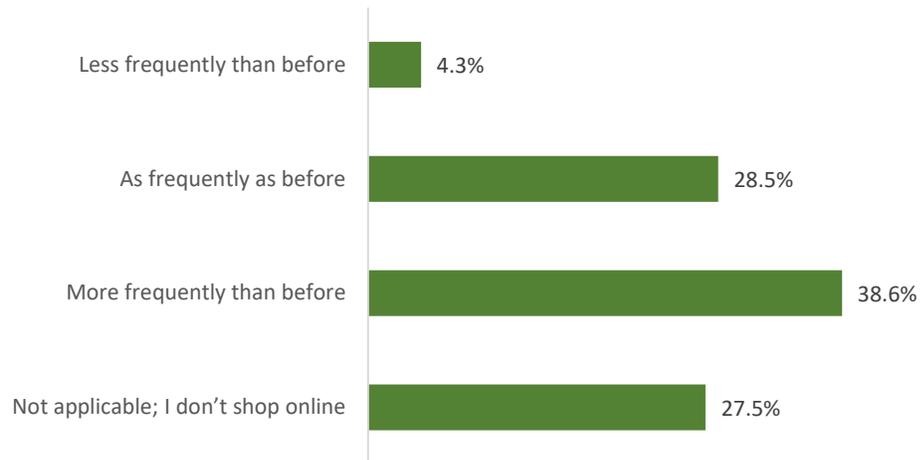


Due to the pandemic, 33.5% of residents who have a driver's license say they use a personal vehicle less frequently than before, while 11.9% use their vehicle more frequently than before (Figure 17).



Due to the pandemic, 4.3% of residents say they shop online less frequently than before, while 38.6% say they shop online more frequently than before (Figure 18).

Figure 18. Due to the pandemic, I shop online rather than purchasing items in stores...



## Appendix 1. Data tables - all neighbourhoods combined

### All neighbourhoods

n=21227 individuals, 13141 households

#### A1. Do you or anyone in your household own a personal vehicle (car or truck)?

	Frequency	Percent
Yes	12143	92.40
No	927	7.06
Prefer not to say	72	0.54
Total	13141	100.00

#### A2. Do you have a valid driver's license?

	Frequency	Percent
Yes	19737	92.98
No	1384	6.52
Prefer not to say	106	0.50
Total	21227	100.00

#### B1. What is your current employment situation?

	Frequency	Percent
Employed or self-employed full time (35 or more hours per week)	12981	61.15
Employed or self-employed part time (less than 35 hours per week)	2035	9.59
Unemployed	1393	6.56
Not participating in the labour force	4654	21.92
Prefer not to say	165	0.78
Total	21227	100.00

#### B2. What is the distance of your typical commute to work?

	n=15016	B1 = Employed or self-employed
	Frequency	Percent
Less than 3 kilometres	2365	15.75
3 to less than 6 kilometres	3721	24.78
6 to less than 11 kilometres	5015	33.40
11 to less than 21 kilometres	2075	13.82
21 kilometres or more	737	4.91
Not applicable; I work from home (not due to COVID-19)	723	4.82
Don't know	380	2.53
Total	15016	100.00

#### B3. How do you usually get to work? If you use multiple modes of transportation, select the one used for the most distance.

	n=14292	B2 /= Not applicable
	Frequency	Percent
Personal vehicle – as a driver (no passengers)	9687	67.78
Personal vehicle – as a driver (with one or more passengers)	1878	13.14
Personal vehicle / taxi – as a passenger	651	4.56
Bus	390	2.73
Walking	861	6.02
Bicycle	557	3.89
Not applicable	87	0.61
Don't know	182	1.27
Total	14292	100.00

**B4. Does your usual mode of transportation change from the summer to winter months?**

	n=14292	B2 /= Not applicable
	Frequency	Percent
Yes	2523	17.65
No	11539	80.73
Don't know	231	1.62
Total	14292	100

**B4.1. What is your usual mode of transportation to and from work in the summer months? Check all that apply:**

	n=2523	B4=Yes
	Frequency	Percent
Personal vehicle – as a driver (no passengers)	1025	40.61
Personal vehicle – as a driver (with one or more passengers)	172	6.81
Personal vehicle / taxi – as a passenger	108	4.28
Bus	184	7.30
Walking	675	26.76
Bicycle	1395	55.29
Prefer not to say	27	1.08

**B4.2. What is your main mode of transportation to and from work in the winter months? Check all that apply:**

	n=2523	B4=Yes
	Frequency	Percent
Personal vehicle – as a driver (no passengers)	1565	62.03
Personal vehicle – as a driver (with one or more passengers)	499	19.79
Personal vehicle / taxi – as a passenger	333	13.21
Bus	231	9.14
Walking	227	9.01
Bicycle	86	3.42

A2 = Yes, Prefer not to say  
AND B1=Employed/ self employed

**B5. How often do you typically drive to and from work?**

	n=13928	
	Frequency	Percent
Never	838	6.01
Less than once a week	966	6.94
1 or 2 days a week	3060	21.97
3 or 4 days a week	8340	59.88
5 or more days a week	723	5.19
Total	13928	100

**C1. On average, how many kilometres do you drive per week?**

	n=19737	A2=Yes
	Frequency	Percent
None	350	1.78
Between 1 and 24 km a week	2842	14.40
Between 25 and 49 km a week	4001	20.27
Between 50 and 74 km a week	3652	18.50
Between 75 and 99 km a week	2577	13.06
100 km a week or more	5125	25.97
Don't know	1146	5.81
Prefer not to say	44	0.22
Total	19737	100.00

**C2. How often do you typically drive for shopping, errands, appointments or other personal business?**

	n=19737	A2=Yes
	Frequency	Percent
Never	556	2.81
Less than once a week	9090	46.06
1 or 2 days a week	4796	24.30
3 or 4 days a week	1950	9.88
5 or more days a week	3208	16.25
Don't know	117	0.59
Prefer not to say	20	0.10
Total	19737	100.00

**C3. How often do you typically drive to help others get around, such as taking a child to school or extracurricular activities or taking a family member to work?**

	n=19737	A2=Yes
	Frequency	Percent
Never	6222	31.52
Less than once a week	3925	19.89
1 or 2 days a week	2413	12.23
3 or 4 days a week	3022	15.31
5 or more days a week	3947	20.00
Don't know	188	0.95
Prefer not to say	20	0.10
Total	19737	100.00

**D1. Would you consider walking, biking or taking the bus more frequently if active transportation and/or public transportation options were made more accessible or feasible?**

	n=15180	B1 = Employed or self-employed / Prefer not to say
	Frequency	Percent
Yes	5938	39.12
No	6262	41.25
Not applicable; I already walk, bike or take the bus	2112	13.92
Don't know	850	5.60
Prefer not to say	18	0.12
Total	15180	100

**D1.1. Which of the following factors would make you walk, cycle, or use transit more often? Check all that apply.**

	n=5938	D1=Yes
	Frequency	Percent
A shorter commuting distance	2468	41.56
More frequent buses	3626	61.07
Better bus shelters	1993	33.56
Flexible start times at work	2534	42.68
Bike racks available at work	1980	33.34
Better lighting on roadway	2741	46.16
Access to a fat bike or other winterized bicycle	1888	31.80
More bike lanes	3022	50.89
Safer bike lanes (i.e. separated from vehicle lanes by a physical barrier or not attached to roads)	3532	59.48
Showers available at work	1875	31.58
Cheaper transit passes	1946	32.77
Rebates for bike purchase	2856	48.09
Other	1309	22.04
Don't know	107	1.80
Prefer not to say	93	1.56

**Other factors:**

Better and safer bike trails, as well as more accessible public transportation  
Better schedule with longer hours  
Bike storage box downtown locations Public washroom with shower that's more available at more locations  
Bus Stops  
Bus stops closer to my work would make taking the bus doable. Also more direct bike trails to work would make the commute more bike friendly.  
Connected bike trail  
Good weather  
Have other ways of transportation maybe a train as our city grows in population  
I have studded tires on my bike which I sometimes use for commuting to work in the winter, but it can be hard to commute when the bike lanes aren't ploughed.  
I used to bike a lot in the summer and am mostly concerned about safety - drivers have zero knowledge of their responsibilities and the laws when it comes to cyclists on the road. Also for buses - an app to tell when the next bus is coming.  
Ice on the road/bike lane  
If the bus did 24 hours, it would fit my work schedule  
Lack of bus service on Sunday. Better walking/biking routes which are mapped linking all of the subdivision and downtown.  
More bike racks  
More non-road, commuter friendly routes  
Most people cant take the bus because of the frequency of the bus stops. Need stops on 6th avenue  
Need More routes Need route in Country Residential subdivision  
No public transit at location  
No stops near location  
Not to covid  
Pedestrian & bike lanes should be separate for safety  
Program to sponsor bike  
Safer bike routes eg. 2 mile hill bike path intersections at AK highway, Range Road, Industrial Rd.  
Safer bus shelters  
Weather conditions  
better bus stop options/more frequent  
better quality roads  
bus routes added because there are none in Hidden Valley where I live  
buses would have to go further out of town  
community bikes where you can use your credit card and return it to a station. Communal transportation options (ie electric cars or e-scooters)  
covid being eradicated  
earlier bus start times  
easier bike pathways (less physically demanding)  
electric bike share  
expanded bus hours and better access to the airport for buses  
extend bus routs  
extended bus routs  
extended bus times. Earlier start. Later finish  
indoor bike parking for electric bike  
lighting on walking/biking trails (commuter path)  
more bike racks on the bus  
need a bus route in country residential subdivision  
paved walking paths  
wider bus networks (enlarge routes to include subdivisions on the highway)

**D1.2. Which of the following factors make it difficult for you to walk, bike or take the bus? Check all that apply.**

	n=6262 Frequency	D1=No Percent
Physical limitations or disability	503	8.04
Other health concerns or issues	128	2.04
Need to drop children off at school or other household members off at work	1885	30.11
The distance between my destination and home is too far	2800	44.71
Not enough time before or after work or appointments	2565	40.97
Need to use personal vehicle for work purposes	2076	33.15
Do not feel safe walking or biking	522	8.33
Cannot afford bike or bus pass	78	1.25
Not interested	2760	44.08
Other	1240	19.80
Don't know	53	0.84
Prefer not to say	62	0.99

**Other factors:**

- Cold climate
- Extra time needed to take the bus.
- How long it takes to ride/walk to work
- I hate the bus
- Location of where she lives
- Long wait times between buses.
- Need safer trails
- No bus route in subdivision Not safe in night time conditions
- No time schedule
- Not available on country residential subdivision
- Parking closer
- Public transportations doesn't fit needs
- The bus schedule is absolutely horrendous to start with. Given the recent pandemic - when I do have to run errands etc I very much prefer my own vehicle. There are also times where I do will run errands after work, if I had to wait for the bus and then ha
- Work schedule is too flexible,.
- Would have to take the bus from Takhini downtown, then another up to Granger
- Yukon weather
- better weather
- bus commute is too inconvenient
- bus does not go where I need to be.
- bus does not run to where I work
- bus does not travel to the area I work
- convenience
- covid
- didn't move north to live around a government schedule
- do not live on a bus route and no accessible trails
- errands after work
- extend bus routes
- i want the ability to do errands before returning home
- need more frequent busis
- need to be able to take my tools to work
- need to be at work before 7
- no buses this far out
- picking up classes at university around work time
- public transportation is unreliable
- scheduling
- scheduling of public transport
- shift work
- shift work
- snow clearing on sidewalks

there is no bus at the time I need one  
 too hard to bike up all the hills  
 winter  
 work at camp and commute to the airport and need to carry luggage

**E1. Due to the pandemic, I work from home...**

	Frequency	Percent
Less frequently than before	414	1.95
As frequently as before	1645	7.75
More frequently than before	4687	22.08
Not applicable; I don't work from home	9062	42.69
Not applicable; I'm not working	4965	23.39
Don't know	388	1.83
Prefer not to say	66	0.31
Total	21227	100.00

**E2. Due to the pandemic, I use public transportation...**

	Frequency	Percent
Less frequently than before	1774	8.36
As frequently as before	1134	5.34
More frequently than before	238	1.12
Not applicable; I don't use public transportation	17856	84.12
Don't know	158	0.75
Prefer not to say	66	0.31
Total	21227	100

**E3. Due to the pandemic, I use active transportation (biking or walking) ...**

	Frequency	Percent
Less frequently than before	1797	8.47
As frequently as before	7239	34.10
More frequently than before	1830	8.62
Not applicable; I don't use active transportation	10006	47.14
Don't know	268	1.26
Prefer not to say	87	0.41
Total	21227	100

**E4. Due to the pandemic, I use my personal vehicle...**

	n=19737	A2=Yes
	Frequency	Percent
Less frequently than before	6612	33.50
As frequently as before	10274	52.05
More frequently than before	2344	11.88
Not applicable; I don't use a personal vehicle	115	0.58
Don't know	248	1.26
Prefer not to say	96	0.49
Total	19689	100

**E5. Due to the pandemic, I shop online rather than purchasing items in stores...**

	Frequency	Percent
Less frequently than before	917	4.32
As frequently as before	6046	28.48
More frequently than before	8186	38.57
Not applicable; I don't shop online	5828	27.45
Don't know	141	0.66
Prefer not to say	110	0.52
Total	21227	100

## Appendix 2. Data tables - Copper Ridge/ Granger/ Logan/Arnell /Lobird

### Copper Ridge/ Granger/ Logan/Arnell /Lobird

n=5012 individuals, 2789 households

#### A1. Do you or anyone in your household own a personal vehicle (car or truck)?

	Frequency	Percent
Yes	2778	99.6
No	11	0.4
Total	2789	100.0

#### A2. Do you have a valid driver's license?

	Frequency	Percent
Yes	4775	95.3
No	195	3.9
Prefer not to say	42	0.8
Total	5012	100.0

#### B1. What is your current employment situation?

	Frequency	Percent
Employed or self-employed full time (35 or more hours per week)	3145	62.7
Employed or self-employed part time (less than 35 hours per week)	675	13.5
Unemployed	284	5.7
Not participating in the labour force	884	17.6
Prefer not to say	24	0.5
Total	5012	100.0

	n=3820	B1 = Employed or self-employed
	Frequency	Percent
Less than 3 kilometres	143	3.8
3 to less than 6 kilometres	1040	27.2
6 to less than 11 kilometres	2016	52.8
11 to less than 21 kilometres	281	7.3
21 kilometres or more	113	3.0
Not applicable; I work from home (not due to COVID-19)	131	3.4
Don't know	95	2.5
Total	3820	100.0

#### B3. How do you usually get to work? If you use multiple modes of transportation, select the one used for the most distance.

	n=3689	B2 /= Not applicable
	Frequency	Percent
Personal vehicle – as a driver (no passengers)	2734	74.1
Personal vehicle – as a driver (with one or more passengers)	524	14.2
Personal vehicle / taxi – as a passenger	188	5.1
Bus	83	2.3
Walking	46	1.3
Bicycle	48	1.3
Don't know	66	1.8
Total	3689	100.0

**B4. Does your usual mode of transportation change from the summer to winter months?**

	n=3689	B2 /= Not applicable
B04	Frequency	Percent
Yes	515	14.0
No	3087	83.7
Don't know	86	2.3
Total	3689	100.0

**B4.1. What is your usual mode of transportation to and from work in the summer months? Check all that apply:**

	n=515	B4=Yes
	Frequency	Percent
Personal vehicle – as a driver (no passengers)	209	40.6
Personal vehicle – as a driver (with one or more passengers)	48	9.2
Personal vehicle / taxi – as a passenger	0	0.0
Bus	0	0.0
Walking	112	21.7
Bicycle	284	55.1

**B4.2. What is your main mode of transportation to and from work in the winter months? Check all that apply:**

	n=515	B4=Yes
	Frequency	Percent
Personal vehicle – as a driver (no passengers)	321	62.3
Personal vehicle – as a driver (with one or more passengers)	48	9.2
Personal vehicle / taxi – as a passenger	99	19.2
Bus	48	9.2
Walking	0	0.0
Bicycle	86	16.8

**B5. How often do you typically drive to and from work?**

	n=3629	A2 = Yes, Prefer not to say AND B1=Employed/self employed
	Frequency	Percent
Never	66	1.8
Less than once a week	279	7.7
1 or 2 days a week	891	24.5
3 or 4 days a week	2298	63.3
5 or more days a week	95	2.6
Total	3629	100.0

**C1. On average, how many kilometres do you drive per week?**

	n=4775	A2=Yes
	Frequency	Percent
None	24	0.5
Between 1 and 24 km a week	491	10.3
Between 25 and 49 km a week	646	13.5
Between 50 and 74 km a week	1034	21.7
Between 75 and 99 km a week	970	20.3
100 km a week or more	1316	27.6
Don't know	294	6.1
Total	4775	100.0

**C2. How often do you typically drive for shopping, errands, appointments or other personal business?**

	n=4775	A2=Yes
	Frequency	Percent
Never	206	4.3
Less than once a week	2208	46.2
1 or 2 days a week	1069	22.4
3 or 4 days a week	659	13.8
5 or more days a week	633	13.3
Total	4775	100.0

**C3. How often do you typically drive to help others get around, such as taking a child to school or extracurricular activities or taking a family member to work?**

	n=4775	A2=Yes
	Frequency	Percent
Never	1281	26.8
Less than once a week	1003	21.0
1 or 2 days a week	722	15.1
3 or 4 days a week	788	16.5
5 or more days a week	958	20.1
Don't know	24	0.5
Total	4775	100.0

**D1. Would you consider walking, biking or taking the bus more frequently if active transportation and/or public transportation options were made more accessible or feasible?**

	n=3844	B1 = Employed or self-employed / Prefer not to say
	Frequency	Percent
Yes	1576	41.0
No	1716	44.6
Not applicable; I already walk, bike or take the bus	321	8.3
Don't know	231	6.0
Total	3844	100.0

**D1.1. Which of the following factors would make you walk, cycle, or use transit more often? Check all that apply.**

	n=1576	D1=Yes
	Frequency	Percent
A shorter commuting distance	799	50.7
More frequent buses	1086	68.9
Better bus shelters	596	37.8
Flexible start times at work	772	49.0
Bike racks available at work	580	36.8
Better lighting on roadway	687	43.6
Access to a fat bike or other winterized bicycle	677	42.9
More bike lanes	751	47.7
Safer bike lanes (i.e. separated from vehicle lanes by a physical barrier or not attached to roads)	1019	64.7
Showers available at work	692	43.9
Cheaper transit passes	623	39.5
Rebates for bike purchase	885	56.2
Other	337	21.4
Don't know	45	2.8
Prefer not to say	45	2.8

**Other factors:**

Bike storage box downtown locations  
 Public washroom with shower that's more available at more locations  
 Bus stops closer to my work would make taking the bus doable. Also more direct bike trails to work would make the commute more bike friendly.  
 Ice on the road/bike lane  
 More bike racks  
 Safer bus shelters  
 Weather conditions  
 better quality roads  
 electric bike share  
 expanded bus hours and better access to the airport for buses  
 more bike racks on the bus

**D1.2. Which of the following factors make it difficult for you to walk, bike or take the bus? Check all that apply.**

	n=1716 Frequency	D1=No Percent
Physical limitations or disability	161	9.4
Other health concerns or issues	0	0.0
Need to drop children off at school or other household members off at work	580	33.8
The distance between my destination and home is too far	584	34.1
Not enough time before or after work or appointments	771	44.9
Need to use personal vehicle for work purposes	538	31.3
Do not feel safe walking or biking	66	3.8
Cannot afford bike or bus pass	24	1.4
Not interested	1052	61.3
Other	279	16.3
Prefer not to say	42	2.4

**Other factors:**

Long wait times between buses.  
 Public transportations doesn't fit needs  
 bus commute is too inconvenient  
 bus does not travel to the area I work  
 need more frequent busis  
 need to be at work before 7  
 scheduling of public transport  
 there is no bus at the time I need one  
 too hard to bike up all the hills

**E1. Due to the pandemic, I work from home...**

	Frequency	Percent
Less frequently than before	185	3.7
As frequently as before	393	7.8
More frequently than before	1314	26.2
Not applicable; I don't work from home	2094	41.8
Not applicable; I'm not working	961	19.2
Don't know	66	1.3
Total	5012	100.0

**E2. Due to the pandemic, I use public transportation...**

	Frequency	Percent
Less frequently than before	438	8.7
As frequently as before	200	4.0
More frequently than before	72	1.4
Not applicable; I don't use public transportation	4261	85.0
Don't know	42	0.8
Total	5012	100.0

**E3. Due to the pandemic, I use active transportation (biking or walking) ...**

	Frequency	Percent
Less frequently than before	546	10.9
As frequently as before	1560	31.1
More frequently than before	255	5.1
Not applicable; I don't use active transportation	2600	51.9
Don't know	51	1.0
Total	5012	100.0

**E4. Due to the pandemic, I use my personal vehicle...**

	n=4775	A2=Yes
	Frequency	Percent
Less frequently than before	2152	45.1
As frequently as before	2168	45.4
More frequently than before	385	8.1
Not applicable; I don't use a personal vehicle	46	1.0
Don't know	24	0.5
Total	4775	100.0

**E5. Due to the pandemic, I shop online rather than purchasing items in stores...**

	Frequency	Percent
Less frequently than before	302	6.0
As frequently as before	1393	27.8
More frequently than before	2050	40.9
Not applicable; I don't shop online	1216	24.3
Don't know	51	1.0
Total	5012	100.0

## Appendix 3. Data tables – Country Residential

### Country Residential

n=1983 individuals, 1145 households

#### A1. Do you or anyone in your household own a personal vehicle (car or truck)?

	Frequency	Percent
Yes	1097	95.8
No	30	2.6
Prefer not to say	18	1.6
	1145	100.0

#### A2. Do you have a valid driver's license?

	Frequency	Percent
Yes	1964	99.1
Prefer not to say	18	0.9
Total	1983	100.0

#### B1. What is your current employment situation?

	Frequency	Percent
Employed or self-employed full time (35 or more hours per week)	1266	63.8
Employed or self-employed part time (less than 35 hours per week)	183	9.2
Unemployed	112	5.6
Not participating in the labour force	404	20.4
Prefer not to say	18	0.9
	1983	100.0

#### B2. What is the distance of your typical commute to work?

	Frequency	Percent
Less than 3 kilometres	49	3.4
3 to less than 6 kilometres	29	2.0
6 to less than 11 kilometres	208	14.4
11 to less than 21 kilometres	750	51.8
21 kilometres or more	235	16.2
Not applicable; I work from home (not due to COVID-19)	20	1.4
Don't know	159	10.9
Total	1449	100.0

#### B3. How do you usually get to work? If you use multiple modes of transportation, select the one used for the most distance.

	Frequency	Percent
Personal vehicle – as a driver (no passengers)	1026	71.8
Personal vehicle – as a driver (with one or more passengers)	278	19.5
Personal vehicle / taxi – as a passenger	27	1.9
Walking	29	2.0
Don't know	69	4.9
Total	1429	100.0

B1 =  
Employed or  
self-employed

B2 /= Not  
applicable

**B4. Does your usual mode of transportation change from the summer to winter months?**

	n=1429	B2 /= Not applicable
	Frequency	Percent
Yes	199	13.9
No	1230	86.1
Total	1429	100.0

**B4.1. What is your usual mode of transportation to and from work in the summer months?**

Check all that apply:

	n=199	B4=Yes
	Frequency	Percent
Personal vehicle – as a driver (no passengers)	74	37.2
Personal vehicle – as a driver (with one or more passengers)	0	0.0
Personal vehicle / taxi – as a passenger	0	0.0
Bus	0	0.0
Walking	20	9.9
Bicycle	125	62.7
Prefer not to say	27	13.6

**B4.2. What is your main mode of transportation to and from work in the winter months?**

Check all that apply:

	n=199	B4=Yes
	Frequency	Percent
Personal vehicle – as a driver (no passengers)	103	51.8
Personal vehicle – as a driver (with one or more passengers)	69	34.5
Personal vehicle / taxi – as a passenger	27	13.6
Bus	0	0.0
Walking	0	0.0
Bicycle	0	0.0

**B5. How often do you typically drive to and from work?**

	n=1448	A2 = Yes, Prefer not to say AND B1=Employed/ self employed
	Frequency	Percent
Never	48	3.3
Less than once a week	27	1.9
1 or 2 days a week	289	20.0
3 or 4 days a week	1009	69.7
5 or more days a week	75	5.2
Total	1448	100.0

**C1. On average, how many kilometres do you drive per week?**

	n=1964	A2=Yes
	Frequency	Percent
None	20	1.0
Between 1 and 24 km a week	102	5.2
Between 25 and 49 km a week	122	6.2
Between 50 and 74 km a week	153	7.8
Between 75 and 99 km a week	357	18.2
100 km a week or more	1097	55.8
Don't know	114	5.8
Total	1964	100.0

**C2. How often do you typically drive for shopping, errands, appointments or other personal business?**

	n=1964	A2=Yes Percent
Less than once a week	950	48.4
1 or 2 days a week	340	17.3
3 or 4 days a week	259	13.2
5 or more days a week	415	21.1
Total	1964	100.0

**C3. How often do you typically drive to help others get around, such as taking a child to school or extracurricular activities or taking a family member to work?**

	n=1964 Frequency	A2=Yes Percent
Never	792	40.3
Less than once a week	549	27.9
1 or 2 days a week	177	9.0
3 or 4 days a week	246	12.5
5 or more days a week	182	9.3
Don't know	18	0.9
Total	1964	100.0

**D1. Would you consider walking, biking or taking the bus more frequently if active transportation and/or public transportation options were made more accessible or feasible?**

	n=1468 Frequency	B1 = Employed or self-employed / Prefer not to say Percent
Yes	502	34.2
No	825	56.2
Not applicable; I already walk, bike or take the bus	49	3.3
Don't know	73	5.0
Prefer not to say	18	1.3
Total	1468	100.0

**D1.1. Which of the following factors would make you walk, cycle, or use transit more often?  
Check all that apply.**

	n=502 Frequency	D1=Yes Percent
A shorter commuting distance	188	37.4
More frequent buses	294	58.7
Better bus shelters	182	36.3
Flexible start times at work	177	35.2
Bike racks available at work	93	18.5
Better lighting on roadway	205	40.9
Access to a fat bike or other winterized bicycle	75	14.9
More bike lanes	277	55.1
Safer bike lanes (i.e. separated from vehicle lanes by a physical barrier or not attached to roads)	216	43.0
Showers available at work	140	27.9
Cheaper transit passes	140	27.9
Rebates for bike purchase	112	22.2
Other	195	38.8

**Other factors:**

Bus Stops  
 Need More routes Need route in Country Residential subdivision  
 No public transit at location  
 No stops near location  
 bus routes added because there are none in Hidden Valley where I live  
 buses would have to go further out of town  
 extended bus routs  
 need a bus route in country residential subdivision

**D1.2. Which of the following factors make it difficult for you to walk, bike or take the bus?  
 Check all that apply.**

	n=825 Frequency	D1=No Percent
Physical limitations or disability	0	0.0
Other health concerns or issues	0	0.0
Need to drop children off at school or other household members off at work	190	23.1
The distance between my destination and home is too far	627	76.0
Not enough time before or after work or appointments	283	34.4
Need to use personal vehicle for work purposes	294	35.7
Do not feel safe walking or biking	147	17.9
Cannot afford bike or bus pass	0	0.0
Not interested	303	36.7
Other	238	28.9

**Other factors:**

Location of where she lives  
 No bus route in subdivision Not safe in night time conditions  
 Not available on country residential subdivision  
 Parking closer  
 bus does not go where I need to be.  
 do not live on a bus route and no accessible trails  
 extend bus routes  
 i want the ability to do errands before returning home  
 no buses this far out

**E1. Due to the pandemic, I work from home...**

	Frequency	Percent
Less frequently than before	29	1.5
As frequently as before	115	5.8
More frequently than before	396	20.0
Not applicable; I don't work from home	902	45.5
Not applicable; I'm not working	501	25.3
Don't know	20	1.0
Prefer not to say	18	0.9
Total	1983	100.0

**E2. Due to the pandemic, I use public transportation...**

	Frequency	Percent
Less frequently than before	20	1.0
As frequently as before	66	3.3
Not applicable; I don't use public transportation	1879	94.7
Prefer not to say	18	0.9
Total	1983	100.0

**E3. Due to the pandemic, I use active transportation (biking or walking) ...**

	Frequency	Percent
Less frequently than before	37	1.9
As frequently as before	670	33.8
More frequently than before	67	3.4
Not applicable; I don't use active transportation	1145	57.7
Don't know	46	2.3
Prefer not to say	18	0.9
Total	1983	100.0

**E4. Due to the pandemic, I use my personal vehicle...**

	n=1964	A2=Yes
	Frequency	Percent
Less frequently than before	443	22.6
As frequently as before	1288	65.6
More frequently than before	233	11.9
Total	1964	100.0

**E5. Due to the pandemic, I shop online rather than purchasing items in stores...**

	Frequency	Percent
Less frequently than before	108	5.4
As frequently as before	503	25.3
More frequently than before	888	44.8
Not applicable; I don't shop online	439	22.1
Don't know	27	1.4
Prefer not to say	18	0.9
Total	1983	100.0

## Appendix 4. Data tables – Downtown/ Riverdale/ Marwell

### Downtown/ Riverdale/ Marwell

n=6243 individuals, 4325 households

#### A1. Do you or anyone in your household own a personal vehicle (car or truck)?

	Frequency	Percent
Yes	3689	85.3
No	583	13.5
Prefer not to say	53	1.2
Total	4325	100.0

#### A2. Do you have a valid driver's license?

	Frequency	Percent
Yes	5500	88.1
No	696	11.2
Prefer not to say	46	0.7
Total	6243	100.0

#### B1. What is your current employment situation?

	Frequency	Percent
Employed or self-employed full time (35 or more hours per week)	3820	61.2
Employed or self-employed part time (less than 35 hours per week)	502	8.0
Unemployed	406	6.5
Not participating in the labour force	1469	23.5
Prefer not to say	46	0.7
Total	6243	100.0

#### B2. What is the distance of your typical commute to work?

	Frequency	Percent
Less than 3 kilometres	1520	35.2
3 to less than 6 kilometres	1270	29.4
6 to less than 11 kilometres	624	14.4
11 to less than 21 kilometres	347	8.0
21 kilometres or more	205	4.8
Not applicable; I work from home (not due to COVID-19)	307	7.1
Don't know	48	1.1
Total	4321	100.0

B1 =  
Employed or  
self-employed

#### B3. How do you usually get to work? If you use multiple modes of transportation, select the one used for the most distance.

	Frequency	Percent
Personal vehicle – as a driver (no passengers)	2319	57.8
Personal vehicle – as a driver (with one or more passengers)	335	8.3
Personal vehicle / taxi – as a passenger	161	4.0
Bus	116	2.9
Walking	655	16.3
Bicycle	338	8.4
Not applicable	65	1.6
Don't know	25	0.6
Total	4014	100.0

B2 /= Not  
applicable

n=4014

**B4. Does your usual mode of transportation change from the summer to winter months?**

	n=4014	B2 /= Not applicable
	Frequency	Percent
Yes	1040	25.9
No	2905	72.4
Don't know	68	1.7
Total	4014	100.0

**B4.1. What is your usual mode of transportation to and from work in the summer months?**

Check all that apply:

	n=1040	B4=Yes
	Frequency	Percent
Personal vehicle – as a driver (no passengers)	523	50.3
Personal vehicle – as a driver (with one or more passengers)	90	8.6
Personal vehicle / taxi – as a passenger	71	6.8
Bus	116	11.1
Walking	386	37.1
Bicycle	500	48.1

**B4.2. What is your main mode of transportation to and from work in the winter months?**

Check all that apply:

	n=1040	B4=Yes
	Frequency	Percent
B04_2C01		
Personal vehicle – as a driver (no passengers)	592	56.9
Personal vehicle – as a driver (with one or more passengers)	196	18.8
Personal vehicle / taxi – as a passenger	141	13.5
Bus	114	11.0
Walking	207	19.9
Bicycle	0	0.0

**B5. How often do you typically drive to and from work?**

	n=3816	A2 = Yes, Prefer not to say AND B1=Employed/self employed
	Frequency	Percent
Never	543	14.2
Less than once a week	275	7.2
1 or 2 days a week	927	24.3
3 or 4 days a week	1718	45.0
5 or more days a week	353	9.3
Total	3816	100.0

**C1. On average, how many kilometres do you drive per week?**

	n=5500	A2=Yes
	Frequency	Percent
None	120	2.2
Between 1 and 24 km a week	1265	23.0
Between 25 and 49 km a week	1568	28.5
Between 50 and 74 km a week	991	18.0
Between 75 and 99 km a week	309	5.6
100 km a week or more	810	14.7
Don't know	414	7.5
Prefer not to say	23	0.4
Total	5500	100.0

**C2. How often do you typically drive for shopping, errands, appointments or other personal business?**

	n=5500 Frequency	A2=Yes Percent
Never	185	3.4
Less than once a week	2571	46.8
1 or 2 days a week	1424	25.9
3 or 4 days a week	303	5.5
5 or more days a week	971	17.6
Don't know	46	0.8
Total	5500	100.0

**C3. How often do you typically drive to help others get around, such as taking a child to school or extracurricular activities or taking a family member to work?**

	n=5500 Frequency	A2=Yes Percent
Never	1820	33.1
Less than once a week	945	17.2
1 or 2 days a week	513	9.3
3 or 4 days a week	870	15.8
5 or more days a week	1282	23.3
Don't know	71	1.3
Total	5500	100.0

**D1. Would you consider walking, biking or taking the bus more frequently if active transportation and/or public transportation options were made more accessible or feasible?**

	n=4367 Frequency	B1 = Employed or self-employed / Prefer not to say Percent
Yes	1689	38.7
No	1318	30.2
Not applicable; I already walk, bike or take the bus	1220	27.9
Don't know	141	3.2
Total	4367	100.0

**D1.1. Which of the following factors would make you walk, cycle, or use transit more often? Check all that apply.**

	n=1689 Frequency	D1=Yes Percent
A shorter commuting distance	570	33.8
More frequent buses	918	54.3
Better bus shelters	537	31.8
Flexible start times at work	686	40.6
Bike racks available at work	403	23.9
Better lighting on roadway	693	41.0
Access to a fat bike or other winterized bicycle	386	22.9
More bike lanes	694	41.1
Safer bike lanes (i.e. separated from vehicle lanes by a physical barrier or not attached to roads)	717	42.5
Showers available at work	351	20.8
Cheaper transit passes	465	27.5
Rebates for bike purchase	660	39.1
Other	238	14.1
Don't know	40	2.4
Prefer not to say	48	2.8

**Other factors:**

Better schedule with longer hours

Good weather

I used to bike a lot in the summer and am mostly concerned about safety - drivers have zero knowledge of their responsibilities and the laws when it comes to cyclists on the road. Also for buses - an app to tell when the next bus is coming.

Most people cant take the bus because of the frequency of the bus stops. Need stops on 6th avenue

Not to covid

better bus stop options/more frequent

wider bus networks (enlarge routes to include subdivisions on the highway)

**D1.2. Which of the following factors make it difficult for you to walk, bike or take the bus?**

**Check all that apply.**

	n=1318 Frequency	D1=No Percent
Physical limitations or disability	114	8.7
Other health concerns or issues	66	5.0
Need to drop children off at school or other household members off at work	368	27.9
The distance between my destination and home is too far	410	31.1
Not enough time before or after work or appointments	508	38.5
Need to use personal vehicle for work purposes	439	33.3
Do not feel safe walking or biking	109	8.3
Cannot afford bike or bus pass	0	0.0
Not interested	432	32.8
Other	229	17.4

**Other factors:**

Cold climate

Need safer trails

The bus schedule is absolutely horrendous to start with. Given the recent pandemic - when I do have to run errands etc I very much prefer my own vehicle. There are also times where I do will run errands after work, if I had to wait for the bus and then ha

Work schedule is too flexible,.

bus does not run to where I work

covid

errands after work

snow clearing on sidewalks

**E1. Due to the pandemic, I work from home...**

	Frequency	Percent
Less frequently than before	116	1.9
As frequently as before	542	8.7
More frequently than before	1126	18.0
Not applicable; I don't work from home	2767	44.3
Not applicable; I'm not working	1433	22.9
Don't know	212	3.4
Prefer not to say	48	0.8
Total	6243	100.0

**E2. Due to the pandemic, I use public transportation...**

	Frequency	Percent
Less frequently than before	704	11.3
As frequently as before	411	6.6
More frequently than before	88	1.4
Not applicable; I don't use public transportation	4993	80.0
Prefer not to say	48	0.8
Total	6243	100.0

**E3. Due to the pandemic, I use active transportation (biking or walking) ...**

	Frequency	Percent
Less frequently than before	829	13.3
As frequently as before	2322	37.2
More frequently than before	870	13.9
Not applicable; I don't use active transportation	2080	33.3
Don't know	94	1.5
Prefer not to say	48	0.8
Total	6243	100.0

**E4. Due to the pandemic, I use my personal vehicle...**

	n=5500	A2=Yes
	Frequency	Percent
Less frequently than before	1436	26.1
As frequently as before	2963	53.9
More frequently than before	837	15.2
Not applicable; I don't use a personal vehicle	193	3.5
Don't know	23	0.4
Prefer not to say	48	0.9
Total	5500	100.0

**E5. Due to the pandemic, I shop online rather than purchasing items in stores...**

	Frequency	Percent
Less frequently than before	140	2.2
As frequently as before	1757	28.1
More frequently than before	2162	34.6
Not applicable; I don't shop online	2092	33.5
Prefer not to say	91	1.5
Total	6243	100.0

## Appendix 5. Data tables – Porter Creek/ Whistle Bend

### Porter Creek/ Whistle Bend

n=5210 individuals, 3095 households

#### A1. Do you or anyone in your household own a personal vehicle (car or truck)?

	Frequency	Percent
Yes	2953	95.4
No	142	4.6
Total	3095	100.0

#### A2. Do you have a valid driver's license?

	Frequency	Percent
Yes	5001	96.0
No	209	4.0
Total	5210	100.0

#### B1. What is your current employment situation?

	Frequency	Percent
Employed or self-employed full time (35 or more hours per week)	3036	58.3
Employed or self-employed part time (less than 35 hours per week)	381	7.3
Unemployed	352	6.7
Not participating in the labour force	1386	26.6
Prefer not to say	56	1.1
Total	5210	100.0

#### B2. What is the distance of your typical commute to work?

	Frequency	Percent
Less than 3 kilometres	99	2.9
3 to less than 6 kilometres	479	14.0
6 to less than 11 kilometres	1817	53.2
11 to less than 21 kilometres	668	19.6
21 kilometres or more	154	4.5
Not applicable; I work from home (not due to COVID-19)	143	4.2
Don't know	56	1.6
Total	3416	100.0

#### B3. How do you usually get to work? If you use multiple modes of transportation, select the one used for the most distance.

	Frequency	Percent
Personal vehicle – as a driver (no passengers)	2498	76.3
Personal vehicle – as a driver (with one or more passengers)	467	14.3
Personal vehicle / taxi – as a passenger	98	3.0
Bus	126	3.9
Walking	22	0.7
Bicycle	41	1.2
Not applicable	22	0.7
Total	3274	100.0

B1 =  
Employed or  
self-employed

B2 /= Not  
applicable

**B4. Does your usual mode of transportation change from the summer to winter months?**

	n=3274	B2 /= Not applicable
	Frequency	Percent
Yes	253	7.7
No	2966	90.6
Don't know	54	1.7
Total	3274	100.0

**B4.1. What is your usual mode of transportation to and from work in the summer months?**

Check all that apply:

	n=253	B4=Yes
	Frequency	Percent
Personal vehicle – as a driver (no passengers)	140	55.2
Personal vehicle – as a driver (with one or more passengers)	35	13.7
Personal vehicle / taxi – as a passenger	37	14.7
Bus	69	27.1
Walking	0	0.0
Bicycle	113	44.8

**B4.2. What is your main mode of transportation to and from work in the winter months?**

Check all that apply:

	n=253	B4=Yes
	Frequency	Percent
Personal vehicle – as a driver (no passengers)	199	78.5
Personal vehicle – as a driver (with one or more passengers)	89	35.2
Personal vehicle / taxi – as a passenger	0	0.0
Bus	69	27.1
Walking	0	0.0
Bicycle	0	0.0

**B5. How often do you typically drive to and from work?**

	n=3275	A2 = Yes, Prefer not to say AND B1=Employed/self employed
	Frequency	Percent
Never	111	3.4
Less than once a week	142	4.3
1 or 2 days a week	658	20.1
3 or 4 days a week	2266	69.2
5 or more days a week	98	3.0
Total	3275	100.0

**C1. On average, how many kilometres do you drive per week?**

	n=5001	A2=Yes
	Frequency	Percent
None	63	1.3
Between 1 and 24 km a week	576	11.5
Between 25 and 49 km a week	994	19.9
Between 50 and 74 km a week	964	19.3
Between 75 and 99 km a week	640	12.8
100 km a week or more	1562	31.2
Don't know	202	4.0
Total	5001	100.0

**C2. How often do you typically drive for shopping, errands, appointments or other personal business?**

	n=5001 Frequency	A2=Yes Percent
Never	41	0.8
Less than once a week	2091	41.8
1 or 2 days a week	1398	28.0
3 or 4 days a week	479	9.6
5 or more days a week	901	18.0
Don't know	70	1.4
Prefer not to say	20	0.4
Total	5001	100.0

**C3. How often do you typically drive to help others get around, such as taking a child to school or extracurricular activities or taking a family member to work?**

	n=5001 Frequency	A2=Yes Percent
Never	1566	31.3
Less than once a week	957	19.1
1 or 2 days a week	538	10.8
3 or 4 days a week	723	14.5
5 or more days a week	1142	22.8
Don't know	54	1.1
Prefer not to say	20	0.4
Total	5001	100.0

**D1. Would you consider walking, biking or taking the bus more frequently if active transportation and/or public transportation options were made more accessible or feasible?**

	n=3472 Frequency	B1 = Employed or self-employed / Prefer not to say Percent
Yes	1218	35.1
No	1790	51.6
Not applicable; I already walk, bike or take the bus	166	4.8
Don't know	298	8.6
Total	3472	100.0

**D1.1. Which of the following factors would make you walk, cycle, or use transit more often? Check all that apply.**

	n=1218 Frequency	D1=Yes Percent
A shorter commuting distance	538	44.2
More frequent buses	698	57.3
Better bus shelters	318	26.1
Flexible start times at work	479	39.3
Bike racks available at work	517	42.4
Better lighting on roadway	679	55.8
Access to a fat bike or other winterized bicycle	362	29.7
More bike lanes	695	57.1
Safer bike lanes (i.e. separated from vehicle lanes by a physical barrier or not attached to roads)	885	72.6
Showers available at work	331	27.2
Cheaper transit passes	431	35.4
Rebates for bike purchase	662	54.3
Other	273	22.4
Don't know	22	1.8

**Other factors:**

Have other ways of transportation maybe a train as our city grows in population

If the bus did 24 hours, it would fit my work schedule

Lack of bus service on Sunday. Better walking/biking routes which are mapped linking all of the subdivision and downtown.

More non-road, commuter friendly routes

Program to sponsor bike

community bikes where you can use your credit card and return it to a station. Communal transportation options (ie electric cars or e-scooters)

earlier bus start times

easier bike pathways (less physically demanding)

extend bus routs

**D1.2. Which of the following factors make it difficult for you to walk, bike or take the bus?**

**Check all that apply.**

	n=1790 Frequency	D1=No Percent
Physical limitations or disability	207	11.6
Other health concerns or issues	20	1.1
Need to drop children off at school or other household members off at work	558	31.2
The distance between my destination and home is too far	892	49.8
Not enough time before or after work or appointments	820	45.8
Need to use personal vehicle for work purposes	620	34.6
Do not feel safe walking or biking	159	8.9
Cannot afford bike or bus pass	54	3.0
Not interested	676	37.7
Other	355	19.8
Prefer not to say	20	1.1

**Other factors:**

Extra time needed to take the bus.

How long it takes to ride/walk to work

I hate the bus

No time schedule

Yukon weather

better weather

convenience

didn't move north to live around a government schedule

picking up classes at university around work time

shift work

winter

work at camp and commute to the airport and need to carry

luggage

**E1. Due to the pandemic, I work from home...**

	Frequency	Percent
Less frequently than before	56	1.1
As frequently as before	382	7.3
More frequently than before	1277	24.5
Not applicable; I don't work from home	1938	37.2
Not applicable; I'm not working	1466	28.1
Don't know	91	1.7
Total	5210	100.0

**E2. Due to the pandemic, I use public transportation...**

	Frequency	Percent
Less frequently than before	300	5.8
As frequently as before	254	4.9
More frequently than before	57	1.1
Not applicable; I don't use public transportation	4483	86.1
Don't know	116	2.2
Total	5210	100.0

**E3. Due to the pandemic, I use active transportation (biking or walking) ...**

	Frequency	Percent
Less frequently than before	248	4.8
As frequently as before	1624	31.2
More frequently than before	328	6.3
Not applicable; I don't use active transportation	2934	56.3
Don't know	77	1.5
Total	5210	100.0

**E4. Due to the pandemic, I use my personal vehicle...**

	n=5001	A2=Yes
	Frequency	Percent
Less frequently than before	1841	36.8
As frequently as before	2568	51.4
More frequently than before	551	11.0
Not applicable; I don't use a personal vehicle	20	0.4
Don't know	20	0.4
Total	5001	100.0

**E5. Due to the pandemic, I shop online rather than purchasing items in stores...**

	Frequency	Percent
Less frequently than before	225	4.3
As frequently as before	1592	30.5
More frequently than before	2067	39.7
Not applicable; I don't shop online	1284	24.7
Don't know	42	0.8
Total	5210	100.0

## Appendix 6. Data tables - Takhini/ Valleyview/ Hillcrest/ Kopper King/ Raven's Ridge

### Takhini/ Valleyview/ Hillcrest/ Kopper King/ Raven's Ridge

n=2780 individuals, 1787 households

#### A1. Do you or anyone in your household own a personal vehicle (car or truck)?

	Frequency	Percent
Yes	1626	91.0
No	161	9.0
Total	1787	100.0

#### A2. Do you have a valid driver's license?

	Frequency	Percent
Yes	2496	89.8
No	283	10.2
Total	2780	100.0

#### B1. What is your current employment situation?

	Frequency	Percent
Employed or self-employed full time (35 or more hours per week)	1715	61.7
Employed or self-employed part time (less than 35 hours per week)	294	10.6
Unemployed	240	8.6
Not participating in the labour force	510	18.4
Prefer not to say	20	0.7
Total	2780	100.0

#### B2. What is the distance of your typical commute to work?

	n=2009 Frequency	B1 = Employed or self-employed Percent
Less than 3 kilometres	553	27.5
3 to less than 6 kilometres	902	44.9
6 to less than 11 kilometres	351	17.5
11 to less than 21 kilometres	29	1.4
21 kilometres or more	31	1.5
Not applicable; I work from home (not due to COVID-19)	122	6.1
Don't know	22	1.1
Total	2009	100.0

#### B3. How do you usually get to work? If you use multiple modes of transportation, select the one used for the most distance.

	n=1887 Frequency	B2 /= Not applicable Percent
Personal vehicle – as a driver (no passengers)	1111	58.9
Personal vehicle – as a driver (with one or more passengers)	274	14.5
Personal vehicle / taxi – as a passenger	177	9.4
Bus	65	3.4
Walking	108	5.7
Bicycle	130	6.9
Don't know	22	1.2
Total	1887	100.0

**B4. Does your usual mode of transportation change from the summer to winter months?**

	n=1887 Frequency	B2 /= Not applicable Percent
Yes	516	27.3
No	1349	71.5
Don't know	22	1.2
Total	1887	100.0

**B4.1. What is your usual mode of transportation to and from work in the summer months? Check all that apply:**

	n=516 Frequency	B4=Yes Percent
Personal vehicle – as a driver (no passengers)	79	15.2
Personal vehicle – as a driver (with one or more passengers)	0	0.0
Personal vehicle / taxi – as a passenger	0	0.0
Bus	0	0.0
Walking	158	30.6
Bicycle	373	72.3

**B4.2. What is your main mode of transportation to and from work in the winter months? Check all that apply:**

	n=516 Frequency	B4=Yes Percent
Personal vehicle – as a driver (no passengers)	351	68.0
Personal vehicle – as a driver (with one or more passengers)	98	19.0
Personal vehicle / taxi – as a passenger	67	12.9
Bus	0	0.0
Walking	20	4.0
Bicycle	0	0.0

**B5. How often do you typically drive to and from work?**

	n=1759 Frequency	A2 = Yes, Prefer not to say AND B1=Employed/self employed Percent
Never	71	4.0
Less than once a week	244	13.8
1 or 2 days a week	295	16.7
3 or 4 days a week	1049	59.6
5 or more days a week	102	5.8
Total	1759	100.0

**C1. On average, how many kilometres do you drive per week?**

	n=2496 Frequency	A2=Yes Percent
None	124	5.0
Between 1 and 24 km a week	408	16.4
Between 25 and 49 km a week	670	26.8
Between 50 and 74 km a week	510	20.4
Between 75 and 99 km a week	301	12.0
100 km a week or more	341	13.6
Don't know	123	4.9
Prefer not to say	20	0.8
Total	2496	100.0

**C2. How often do you typically drive for shopping, errands, appointments or other personal business?**

	n=2496 Frequency	A2=Yes Percent
Never	124	5.0
Less than once a week	1270	50.9
1 or 2 days a week	564	22.6
3 or 4 days a week	250	10.0
5 or more days a week	289	11.6
Total	2496	100.0

**C3. How often do you typically drive to help others get around, such as taking a child to school or extracurricular activities or taking a family member to work?**

	n=2496 Frequency	A2=Yes Percent
Never	763	30.6
Less than once a week	472	18.9
1 or 2 days a week	463	18.6
3 or 4 days a week	395	15.8
5 or more days a week	383	15.4
Don't know	20	0.8
Total	2496	100.0

**D1. Would you consider walking, biking or taking the bus more frequently if active transportation and/or public transportation options were made more accessible or feasible?**

	n=2030 Frequency	B1 = Employed or self-employed / Prefer not to say Percent
Yes	954	47.0
No	613	30.2
Not applicable; I already walk, bike or take the bus	356	17.6
Don't know	107	5.3
Total	2030	100.0

**D1.1. Which of the following factors would make you walk, cycle, or use transit more often? Check all that apply.**

	n=954 Frequency	D1=Yes Percent
A shorter commuting distance	374	39.2
More frequent buses	630	66.0
Better bus shelters	360	37.8
Flexible start times at work	421	44.1
Bike racks available at work	387	40.5
Better lighting on roadway	477	50.0
Access to a fat bike or other winterized bicycle	389	40.7
More bike lanes	605	63.4
Safer bike lanes (i.e. separated from vehicle lanes by a physical barrier or not attached to roads)	695	72.8
Showers available at work	361	37.9
Cheaper transit passes	287	30.1
Rebates for bike purchase	537	56.3
Other	267	28.0

**Other factors:**

Better and safer bike trails, as well as more accessible public transportation  
 Connected bike trail  
 I have studded tires on my bike which I sometimes use for commuting to work in the winter, but it can be hard to commute when the bike lanes aren't ploughed.  
 Pedestrian & bike lanes should be separate for safety  
 Safer bike routes eg. 2 mile hill bike path intersections at AK highway, Range Road, Industrial Rd.  
 Weather conditions  
 covid being eradicated  
 extended bus times. Earlier start. Later finish  
 indoor bike parking for electric bike  
 lighting on walking/biking trails (commuter path)  
 paved walking paths

**D1.2. Which of the following factors make it difficult for you to walk, bike or take the bus? Check all that apply.**

	n=613 Frequency	D1=No Percent
Physical limitations or disability	20	3.3
Other health concerns or issues	41	6.7
Need to drop children off at school or other household members off at work	189	30.9
The distance between my destination and home is too far	287	46.8
Not enough time before or after work or appointments	183	29.9
Need to use personal vehicle for work purposes	185	30.2
Do not feel safe walking or biking	41	6.7
Cannot afford bike or bus pass	0	0.0
Not interested	298	48.6
Other	139	22.7
Don't know	53	8.6

**Other factors:**

Would have to take the bus from Takhini downtown, then another up to Granger  
 need to be able to take my tools to work  
 public transportation is unreliable  
 scheduling  
 shift work

**E1. Due to the pandemic, I work from home...**

	Frequency	Percent
Less frequently than before	29	1.0
As frequently as before	213	7.7
More frequently than before	574	20.6
Not applicable; I don't work from home	1361	48.9
Not applicable; I'm not working	604	21.7
Total	2780	100.0

**E2. Due to the pandemic, I use public transportation...**

	Frequency	Percent
Less frequently than before	313	11.2
As frequently as before	205	7.4
More frequently than before	22	0.8
Not applicable; I don't use public transportation	2240	80.6
Total	2780	100.0

**E3. Due to the pandemic, I use active transportation (biking or walking) ...**

	Frequency	Percent
Less frequently than before	137	4.9
As frequently as before	1064	38.3
More frequently than before	309	11.1
Not applicable; I don't use active transportation	1248	44.9
Prefer not to say	20	0.7
Total	2780	100.0

**E4. Due to the pandemic, I use my personal vehicle...**

	n=2496	A2=Yes
	Frequency	Percent
Less frequently than before	739	29.6
As frequently as before	1287	51.6
More frequently than before	338	13.5
Not applicable; I don't use a personal vehicle	103	4.1
Don't know	29	1.1
Total	2496	100.0

**E5. Due to the pandemic, I shop online rather than purchasing items in stores...**

	Frequency	Percent
Less frequently than before	141	5.1
As frequently as before	802	28.8
More frequently than before	1019	36.6
Not applicable; I don't shop online	797	28.7
Don't know	20	0.7
Total	2780	100.0

## Appendix 7. Survey questionnaire

### Survey of Transportation and Commuting Habits in Whitehorse

The Yukon Bureau of Statistics is conducting the Survey of Transportation and Commuting Habits in Whitehorse on behalf of Government of Yukon Department of Environment. The purpose of the survey is to collect information about Whitehorse residents' commuting patterns.

Participation in this survey is voluntary and your responses will remain confidential. Information collected through this survey is protected in accordance with Yukon's Statistics Act. Individual responses will be aggregated when reporting results. The survey should only take 5-8 minutes to complete.

#### Screening Question

- i. Are you currently a resident of the City of Whitehorse?
- Yes
  - No → [END SURVEY SW: Not a Whitehorse Resident](#)

#### A. Driving Habits

A1. Do you or anyone in your household own a personal vehicle (car or truck)?

- Yes
- No
- Prefer not to say

A2. Do you have a valid driver's license?

- Yes
- No → [Skip B5, skip Section C](#)
- Prefer not to say

#### B. Commuting to Work

B1. What is your current employment situation?

- Employed or self-employed full time (35 or more hours per week)
- Employed or self-employed part time (less than 35 hours per week)
- Unemployed → [Skip B2-B5, Skip Section D](#)
- Not participating in the labour force (for example, you may be a full time student, a stay-at-home parent, retired, or on long-term disability) → [Skip B2-B5, Skip Section D](#)
- Don't know
- Prefer not to say

B2. <SKIP IF B1= "Unemployed" OR "Not participating in the labour force"> What is the distance of your typical commute to work? If you are currently working from home due to COVID-19, but typically work elsewhere, please select your usual commute distance prior to when you began working from home.

- Less than 3 kilometres
- 3 to less than 6 kilometres
- 6 to less than 11 kilometres
- 11 to less than 21 kilometres
- 21 kilometres or more
- Not applicable; I work from home (not due to COVID-19) → [Go to Section C](#)
- Don't know
- Prefer not to say

**B3.** <SKIP IF B1= “Unemployed” OR “Not participating in the labour force”> How do you usually get to work? If you use multiple modes of transportation, select the one used for the most distance.

- Personal vehicle – as a driver (no passengers)
- Personal vehicle – as a driver (with one or more passengers)
- Personal vehicle – as a passenger
- Bus
- Walking
- Bicycle
- Other (please specify): \_\_\_\_\_
- Not applicable
- Don't know
- Prefer not to say

**B4.** <SKIP IF B1= “Unemployed” OR “Not participating in the labour force”> Does your usual mode of transportation change from the summer to winter months?

- Yes → Go to B4.1
- No – I use the same mode of transportation year-round → Go to B5
- Don't know → Go to B5
- Prefer not to say → Go to B5

**B4.1.** <SKIP IF B4= “No”> What is your usual mode of transportation to and from work in the summer months? Check all that apply:

- Personal vehicle – as a driver (no passengers)
- Personal vehicle – as a driver (with one or more passengers)
- Personal vehicle – as a passenger
- Bus
- Walking
- Bicycle
- Other (please specify): \_\_\_\_\_
- Don't know
- Prefer not to say

**B4.2.** What is your main mode of transportation to and from work in the winter months? Check all that apply:

- Personal vehicle — as a driver (no passengers)
- Personal vehicle – as a driver (with one or more passengers)
- Personal vehicle — as a passenger.
- Bus
- Walking
- Bicycle
- Other (please specify): \_\_\_\_\_
- Don't know
- Prefer not to say

**B5.** <SKIP IF A2=NO> or <SKIP IF B1= “Unemployed” OR “Not participating in the labour force”> How often do you typically drive to and from work?

- Never
- Less than once a week
- 1 or 2 days a week
- 3 or 4 days a week
- 5 or more days a week

## C: General Driving Habits <SKIP IF A2=NO>

C1. On average, how many kilometres do you drive per week? Please include any work commuting time, but do not include work-related driving that may occur during your work shift, such as delivery services.

- None
- Between 1 and 24 km a week
- Between 25 and 49 km a week
- Between 50 and 74 km a week
- Between 75 and 99 km a week
- 100 km a week or more
- Don't know
- Prefer not to say

C2. How often do you typically drive for shopping, errands, appointments or other personal business?

- Never
- Less than once a week
- 1 or 2 days a week
- 3 or 4 days a week
- 5 or more days a week
- Don't know
- Prefer not to say

C3. How often do you typically drive to help others get around, such as taking a child to school or extracurricular activities or taking a family member to work?

- Never
- Less than once a week
- 1 or 2 days a week
- 3 or 4 days a week
- 5 or more days a week
- Don't know
- Prefer not to say

## D. Barriers to Active and Public Transportation when Commuting

<SKIP IF B1= "Unemployed" OR "Not participating in the labour force">

D1. Would you consider walking, biking or taking the bus more frequently if active transportation and/or public transportation options were made more accessible or feasible?

- Yes → [Go to D1.1](#)
- No → [Go to D1.2](#)
- Not applicable; I already walk, bike or take the bus → [Go to Section E](#)
- Don't know → [Go to Section E](#)
- Prefer not to say → [Go to Section E](#)

D1.1. Which of the following factors would make you walk, cycle, or use transit more often? Check all that apply. → [Go to Section E](#)

- A shorter commuting distance
- More frequent buses
- Better bus shelters
- Flexible start times at work
- Bike racks available at work
- Better lighting on roadway
- Access to a fat bike or other winterized bicycle
- More bike lanes
- Safer bike lanes (i.e. separated from vehicle lanes by a physical barrier or not attached to roads)

- Showers available at work
- Cheaper transit passes
- Rebates for bike purchase
- Other (please specify): \_\_\_\_\_
- Don't know
- Prefer not to say

**D1.2. Which of the following factors make it difficult for you to walk, bike or take the bus? Check all that apply.**

- Physical limitations or disability
- Other health concerns or issues
- Need to drop children off at school or other household members off at work
- The distance between my destination and home is too far
- Not enough time before or after work or appointments
- Need to use personal vehicle for work purposes
- Do not feel safe walking or biking
- Cannot afford bike or bus pass
- Not interested
- Other (please specify)
- Don't know
- Prefer not to say

## **E. Impact of COVID-19 on Transportation Choices**

For each of the following statements, please indicate how COVID-19 has impacted your transportation choices.

**E1.** Due to the pandemic, I work from home...

- Less frequently than before
- As frequently as before
- More frequently than before
- Not applicable; I don't work from home
- Not applicable; I'm not working
- Don't know
- Prefer not to say

**E2.** Due to the pandemic, I use public transportation...

- Less frequently than before
- As frequently as before
- More frequently than before
- Not applicable; I don't use public transportation
- Don't know
- Prefer not to say

**E3.** Due to the pandemic, I use active transportation (biking or walking) ...

- Less frequently than before
- As frequently as before
- More frequently than before
- Not applicable; I don't use active transportation
- Don't know
- Prefer not to say

**E4.** **<SKIP IF A2=NO>** Due to the pandemic, I use my personal vehicle...

- Less frequently than before
- As frequently as before
- More frequently than before
- Not applicable; I don't use a personal vehicle

- Don't know
- Prefer not to say

**E5.** Due to the pandemic, I shop online rather than purchasing items in stores...

- Less frequently than before
- As frequently as before
- More frequently than before
- Not applicable; I don't shop online
- Don't know
- Prefer not to say

## F. Demographics

### F1. Which neighbourhood do you live in?

- Downtown/Riverdale/Marwell
- Takhini/Valleyview/Hillcrest/Kopper King/Raven's Ridge
- Copper Ridge/Granger/Logan/Arnell/Lobird
- Porter Creek/Crestview/Whistlebend/Kulan
- Country Residential Areas (including Cowley Creek, Mary Lake, Spruce Hill, Pine Ridge, Wolf Creek, Fox Haven, Mt. Sima, MacRae, Canyon Crescent, MacPherson and Hidden Valley)
- Prefer not to say

### F2. Which of the following best describes your total household income in 2019 (the combined gross income for all household members, before taxes)?

- Less than \$25,000
- \$25,000 to less than \$50,000
- \$50,000 to less than \$75,000
- \$75,000 to less than \$100,000
- \$100,000 to less than \$150,000
- \$150,000 or more
- Prefer not to say

### F3. Do any children age 0-18 live in your household, either full or part time?

- Yes → [Go to F3.1](#)
- No → [Go to F4](#)
- Prefer not to say → [Go to F4](#)

#### F3. 1. How many children live in your household, either full or part time?

- Age 0-4: \_\_\_\_\_
- Age 5-17: \_\_\_\_\_
- Prefer not to say

### F4. How many adults (age 18+) live in your household, including yourself? \_\_\_\_\_

- Prefer not to say

### F5. What is your gender?

- Male
- Female
- Gender Diverse
- Prefer not to say

### F6. Do you identify as indigenous, that is First Nations, Inuit or Metis?

- Yes
- No
- Prefer not to say