Contents

1. Introduction ................................................................................................................................................. 1
   1.1. About the university ........................................................................................................................... 1
   1.2. About the commuter survey ............................................................................................................... 2

2. Respondent Information ............................................................................................................................. 3
   2.1. Group, classification and campus ...................................................................................................... 3
   2.2. Demographics .................................................................................................................................... 4
   2.3. Home location .................................................................................................................................... 6
   2.4. Vehicle and Bicycle Access ............................................................................................................ 8
   2.5. Travel Spending ................................................................................................................................. 9

3. Commute to and from Dalhousie .............................................................................................................. 10
   3.1. Primary mode .................................................................................................................................... 10
   3.2. Secondary mode ............................................................................................................................... 11
   3.3. Commute distance ............................................................................................................................ 12
   3.4. Commute duration ............................................................................................................................ 12
   3.5. Arrival and departure time ............................................................................................................. 13

4. Safety .......................................................................................................................................................... 14
   4.1. Perception of commuter safety ......................................................................................................... 14
   4.2. Knowledge of transportation safety .................................................................................................. 15

5. Intercampus Travel ................................................................................................................................... 17
   5.1. Travel among Halifax campuses ...................................................................................................... 17
   5.2. Travel between Halifax an Agricultural campuses .......................................................................... 18

6. Comparison by Campus ............................................................................................................................ 20
   6.1. Vehicle and bicycle access ............................................................................................................. 20
   6.2. Commute mode .................................................................................................................................. 2
   6.3. Commute distance and duration ...................................................................................................... 2

7. Comparison by Year .................................................................................................................................. 3
   7.1. Commute mode .................................................................................................................................. 3
   7.2. Commute distance and duration ...................................................................................................... 4

8. Sustainability ............................................................................................................................................... 6
   8.1. Campus sustainability ....................................................................................................................... 6

9. Conclusion .................................................................................................................................................. 7

Appendix A. Comparison of Secondary and Combined Modes by Year .................................................... A
Appendix B. Summary of 2018-2019 Survey Data ....................................................................................... B
List of Tables

Table 1-1. Survey responses by academic year .................................................................. 2
Table 2-1. Gender distribution by group .......................................................................... 4
Table 2-2. Age distribution by group ................................................................................. 5
Table 2-3. Annual household income by group ................................................................... 5
Table 2-4. Vehicle access by group .................................................................................. 8
Table 2-5. Bicycle access by group .................................................................................. 9
Table 3-1. Primary commute mode by group ..................................................................... 10
Table 3-2. Secondary commute mode by group ................................................................. 11
Table 3-3. Secondary commute mode by primary mode .................................................... 11
Table 3-4. Average commute duration by commute mode .................................................. 13
Table 4-1. Do the following factors or behaviours make you feel unsafe as a commuter? ... 15
Table 5-1. Travel frequency among Halifax campuses by group ...................................... 17
Table 5-2. Travel frequency between Halifax and Truro campuses by group ..................... 18
Table 5-3. Primary travel mode between Halifax and Truro campuses by group ............... 19
Table 8-1. Importance of sustainability initiatives .............................................................. 6

List of Figures

Figure 1-1. Dalhousie University campus locations ......................................................... 1
Figure 2-1. Respondent group ......................................................................................... 3
Figure 2-2. Respondent classification .............................................................................. 3
Figure 2-3. Primary campus distribution ......................................................................... 3
Figure 2-4. Gender distribution ....................................................................................... 4
Figure 2-5. Age distribution ............................................................................................. 5
Figure 2-6. Annual household income distribution ........................................................... 5
Figure 2-7. Respondents’ home locations ........................................................................ 6
Figure 2-8. Density of Agricultural campus respondents in Truro area .............................. 7
Figure 2-9. Density of Halifax campus respondents in Halifax area .................................. 7
Figure 2-10. Vehicle access ............................................................................................. 8
Figure 2-11. Bicycle access ............................................................................................ 9
Figure 2-12. Average monthly travel spending ($) ........................................................... 9
Figure 2-13. Average monthly travel spending by group .................................................. 9
Figure 3-1. Primary commute mode ............................................................................... 10
Figure 3-2. Different primary commute mode than last year .......................................... 10
Figure 3-3. Secondary commute mode ............................................................................ 11
Figure 3-4. Average commute distance by group ............................................................. 12
Figure 3-5. Distribution of commute distances ................................................................. 12
Figure 3-6. Distribution of commute duration for primary mode .................................................. 12
Figure 3-7. Average commute duration by group ........................................................................ 12
Figure 3-8. Distribution of arrival times ....................................................................................... 13
Figure 3-9. Distribution of departure times ................................................................................... 13
Figure 4-1. Cyclists not following the rules of the road make me feel unsafe as a commuter .......... 14
Figure 4-2. Vehicle drivers not following the rules of the road make me feel unsafe as a commuter ... 14
Figure 4-3. Poor infrastructure on roads makes me feel unsafe as a commuter ............................ 14
Figure 4-4. Poor infrastructure on sidewalks makes me feel unsafe as a commuter ..................... 14
Figure 4-5. Wearing a bicycle helmet is required in Nova Scotia .................................................. 15
Figure 4-6. Is it safe for a car and a cyclist to be side by side in the same lane at an intersection? ...... 15
Figure 4-7. Every intersection is a crosswalk.......................................................................... 16
Figure 4-8. It is illegal to use a cell phone while driving in Nova Scotia ....................................... 16
Figure 5-1. Travel frequency among Halifax campuses ................................................................. 17
Figure 5-2. Primary travel mode between Halifax campuses ......................................................... 18
Figure 5-3. Travel frequency between Halifax and Truro campuses ............................................. 18
Figure 5-4. Primary travel mode between Halifax and Truro campuses ......................................... 19
Figure 6-1. Vehicle ownership by campus .................................................................................... 20
Figure 6-2. Bicycle ownership by campus .................................................................................... 20
Figure 6-3. Primary commute mode by campus ............................................................................ 2
Figure 6-4. Average commute distance by campus ....................................................................... 2
Figure 6-5. Average commute time by campus ............................................................................ 2
Figure 7-1. Primary commute mode by year ................................................................................... 3
Figure 7-2. Student primary commute mode by year ..................................................................... 3
Figure 7-3. Faculty and staff primary commute mode by year ......................................................... 4
Figure 7-4. Proportion of respondents with given average commute time by year ............................ 4
Figure 7-5. Average commute distance by year and group (km) .................................................. 5
Figure 8-1. Should sustainability be a campus-wide goal? ............................................................ 6
Figure 8-2. Importance of Dalhousie as an innovator in green building ....................................... 6
Figure A-1. Secondary mode (2009-2018) ................................................................................... 1
Figure A-2. Secondary mode of students (2009-2018) ................................................................. 1
Figure A-3. Secondary mode of staff and faculty (2009-2018) ....................................................... 1
Figure A-4. Combined mode of Halifax Campuses (2009-2018) .................................................. 2
Figure A-5. Combined mode of Agriculture Campus (2012-2018) .............................................. 2
1. Introduction

Each year since 2009, the Dalhousie Office of Sustainability collects data on the university community’s commuting habits with a goal to monitor our progress toward sustainability in transportation. This report presents an analysis of the results of the 2018-19 survey, one of the largest and most representative commuter surveys conducted so far.

1.1. About the university

Founded in 1818, Dalhousie University is one of Canada’s oldest universities. Located on the east coast in Nova Scotia, Dalhousie is comprised of four campuses, three in Halifax and one in Truro (Figure 1-1).

In 2009, Dalhousie made a commitment to sustainability. Its Sustainability Policy pledges to “contribute to and model long-lasting sustainable solutions”, recognizing the need for continual monitoring and improvement along the way. One key aim is to improve sustainable transportation. Since the introduction of the policy, Dalhousie has encouraged its community to make more sustainable transportation decisions. Through a partnership with the Halifax Regional Municipality (HRM), Dalhousie has developed approaches to incentivize more sustainable transportation choices, such as student and staff transit passes and the Dalhousie Bike Centre.

![Figure 1-1. Dalhousie University campus locations](image-url)
1.2. About the commuter survey

The Annual Sustainability and Commuter Survey is a tool used to monitor the success of the university’s sustainability programs, collect ideas for future projects, and understand the Dalhousie community’s knowledge, values, and interests in sustainable transportation. The survey annually asks respondents questions about their primary commuting mode choice, their commute duration, and their access to vehicles and bicycles. The survey also measures and compares intercampus travel, annual spending on transportation, and opinions toward sustainability and safety. Previous surveys have assisted in the implementation of sustainability programs at Dalhousie, such as the initiation of the summer student bus pass and the Share the Road campaign.

The survey has been conducted for the past 10 academic years (Table 1-1). The survey is typically administered in the fall semester, except from 2016-2018 when it was held in the winter semester. This year’s survey (2018-2019) was conducted from October 29th, 2018 to November 12th, 2018. The survey has varied in size and representation of students, staff and faculty over the years. It typically underrepresents students relative to faculty and staff.

<table>
<thead>
<tr>
<th>Year</th>
<th>09-10</th>
<th>10-11</th>
<th>11-12</th>
<th>12-13</th>
<th>13-14</th>
<th>14-15</th>
<th>15-16</th>
<th>16-17</th>
<th>17-18</th>
<th>18-19</th>
</tr>
</thead>
<tbody>
<tr>
<td>Students</td>
<td>1322</td>
<td>315</td>
<td>329</td>
<td>713</td>
<td>767</td>
<td>719</td>
<td>517</td>
<td>865</td>
<td>1975</td>
<td>1938</td>
</tr>
<tr>
<td>Staff</td>
<td>1291</td>
<td>436</td>
<td>547</td>
<td>618</td>
<td>717</td>
<td>604</td>
<td>474</td>
<td>472</td>
<td>668</td>
<td>554</td>
</tr>
<tr>
<td>Faculty</td>
<td></td>
<td></td>
<td></td>
<td>188</td>
<td>252</td>
<td>185</td>
<td>139</td>
<td>205</td>
<td>204</td>
<td>193</td>
</tr>
<tr>
<td>Alumni/other</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>41</td>
<td>34</td>
<td></td>
</tr>
<tr>
<td>No answer</td>
<td></td>
<td></td>
<td></td>
<td>277</td>
<td>161</td>
<td>255</td>
<td>441</td>
<td>609</td>
<td>608</td>
<td>249</td>
</tr>
<tr>
<td>Responses</td>
<td>2613</td>
<td>751</td>
<td>1153</td>
<td>1680</td>
<td>1991</td>
<td>1949</td>
<td>1739</td>
<td>2150</td>
<td>3137</td>
<td>2928</td>
</tr>
<tr>
<td>Completed</td>
<td></td>
<td></td>
<td></td>
<td>1374</td>
<td>1630</td>
<td>1508</td>
<td>1110</td>
<td>1690</td>
<td>2700</td>
<td>2624</td>
</tr>
</tbody>
</table>

While the 2018-2019 Commuter Survey did not receive as many responses as the 2017-2018 survey (Table 1-1), it remains one of the largest commuter surveys the university has ever conducted with just under 3000 responses. Comparable to the 2017-2018 survey, the 2018-2019 survey is close to representing the true proportion of students at Dalhousie University, and its results are largely in line with previous surveys.
2. Respondent Information

2.1. Group, classification and campus

This survey received the highest number of responses from students, followed by staff and then faculty (Figure 2-1). The proportion of respondents is comparable to that of the 2017-2018 Commuter Survey. While student responses have more than doubled since the 2016-2017 survey, the number of faculty respondents has stayed consistent (Table 1-1).

![Figure 2-1. Respondent group](image)

Most respondents classified themselves as full-time (Figure 2-2), and the majority are based on the Studley campus in Halifax (Figure 2-3). These two distributions have remained stable over the past few survey years. In the 2017/18 academic year, 88% of Dalhousie students were enrolled full-time and 12% were part time. While the commuter survey also includes staff and faculty, the distribution of full-time and part-time respondents roughly agrees with enrolment statistics.

![Figure 2-2. Respondent classification](image) ![Figure 2-3. Primary campus distribution](image)
2.2. Demographics

2.2.1. Gender

Women made up the highest proportion of respondents, with more than double the number of men in the sample (Figure 2-4). This gender imbalance is a pattern that has been repeated throughout past commuter surveys. Akin to these previous surveys, fewer than 1% of respondents have a non-binary or self-described gender.

![Gender distribution](image)

*Figure 2-4. Gender distribution*

Staff respondents were most likely to be female, and members of faculty were most likely to be male (Table 2-1).

<table>
<thead>
<tr>
<th></th>
<th>Female</th>
<th>Male</th>
<th>Non-binary/self-described</th>
</tr>
</thead>
<tbody>
<tr>
<td>Student</td>
<td>67.5%</td>
<td>31.6%</td>
<td>1.0%</td>
</tr>
<tr>
<td>Faculty</td>
<td>60.7%</td>
<td>38.2%</td>
<td>1.1%</td>
</tr>
<tr>
<td>Staff</td>
<td>75.5%</td>
<td>23.8%</td>
<td>0.8%</td>
</tr>
</tbody>
</table>

2.2.2. Age

Most respondents are between 20 to 24 years of age (Figure 2-5). While this is consistent with the most common age of student respondents, faculty and staff tend to be between the ages of 35 and 44 (Table 2-2. Age distribution by group). There is a small percentage of respondents 65 or older, most of whom are faculty members.
Figure 2-5. Age distribution

Table 2-2. Age distribution by group

<table>
<thead>
<tr>
<th></th>
<th>15-19</th>
<th>20-24</th>
<th>25-34</th>
<th>35-44</th>
<th>45-54</th>
<th>55-64</th>
<th>65 and above</th>
</tr>
</thead>
<tbody>
<tr>
<td>Student</td>
<td>27.6%</td>
<td>44.8%</td>
<td>23.3%</td>
<td>3.2%</td>
<td>0.7%</td>
<td>0.2%</td>
<td>0.3%</td>
</tr>
<tr>
<td>Faculty</td>
<td>0.0%</td>
<td>0.0%</td>
<td>11.2%</td>
<td>30.7%</td>
<td>26.8%</td>
<td>23.5%</td>
<td>7.8%</td>
</tr>
<tr>
<td>Staff</td>
<td>0.0%</td>
<td>5.4%</td>
<td>18.5%</td>
<td>28.5%</td>
<td>24.8%</td>
<td>21.3%</td>
<td>1.5%</td>
</tr>
</tbody>
</table>

2.2.3. Household income

Figure 2-6. Annual household income distribution

The most common household income among respondents is less than $20,000. Table 2-3 shows that over 50% of students earn less than $20,000 annually. Meanwhile, this is reversed for faculty as almost three fourths of the faculty respondents’ annual household incomes are above $100,000. The household income for staff varies, however many staff households also earn above $100,000.

Table 2-3. Annual household income by group

<table>
<thead>
<tr>
<th></th>
<th>Less than $19,999</th>
<th>$20,000-$39,999</th>
<th>$40,000-$59,999</th>
<th>$60,000-$79,999</th>
<th>$80,000-$99,999</th>
<th>Above $100,000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Student</td>
<td>51.10%</td>
<td>16.30%</td>
<td>9.20%</td>
<td>7.70%</td>
<td>6.10%</td>
<td>9.60%</td>
</tr>
<tr>
<td>Faculty</td>
<td>0.60%</td>
<td>2.50%</td>
<td>4.90%</td>
<td>6.80%</td>
<td>10.50%</td>
<td>74.70%</td>
</tr>
<tr>
<td>Staff</td>
<td>1.30%</td>
<td>9.30%</td>
<td>23.60%</td>
<td>17.10%</td>
<td>15.40%</td>
<td>33.20%</td>
</tr>
</tbody>
</table>
2.3. Home location

Figure 2-7 shows respondents’ home locations based on their postal codes. Respondent locations tend to cluster near campus locations. Typically, people who attend Halifax campuses live closer to Halifax, and those who attend the Agricultural Campus live closer to Truro. Respondents who live further away may have given a permanent address.

![Map of respondent locations](image)

*Figure 2-7. Respondents’ home locations*

Figure 2-8 shows the density of respondents in the Truro area. Many respondents live in Bible Hill, a village just north east of the Agricultural campus. Additionally, a high proportion of respondents live in the residential areas of Truro’s downtown. This is relatively similar to the respondent density reported in the 2017-2018 Commuter Survey; however, this year there were fewer respondents living just outside of Truro (e.g. no respondents from Lower Truro, Onslow or Harmony).

A similar situation is seen with Dalhousie’s Halifax Campuses (Studley, Carleton and Sexton). Figure 2-9 shows that many respondents live near the campuses on the South End of the peninsula. Respondents tend to live in areas with higher-density housing options, which is why areas around the Halifax Forum in the North End also have a high respondent density. As you move farther from the peninsula, this density lowers. For example, suburban communities such as Bedford, Spryfield and Woodlawn have fewer responses, indicating that few Dalhousie community members live in these communities.
Figure 2-8. Density of Agricultural campus respondents in Truro area.

Figure 2-9. Density of Halifax campus respondents in Halifax area.
2.4. Vehicle and Bicycle Access

This section presents statistics on Dalhousie community members’ access to vehicles and bicycles. For questions in this section, respondents could select more than one option (e.g. own a car and belong to a car share program), so distributions may total more than 100%.

2.4.1. Vehicle

Just under half of survey respondents own a vehicle, while another quarter have access to one through a car share membership or by borrowing one (Figure 2-10). Table 2-4 shows that student access to vehicles varies widely, while most staff and faculty members own a vehicle. The proportion of people with a car share membership stayed constant from the 2017-2018 survey at 3%.

![Vehicle Access Chart](chart.png)

*Figure 2-10. Vehicle access*

<table>
<thead>
<tr>
<th></th>
<th>Owns a car</th>
<th>Member of a car sharing service</th>
<th>Can Borrow a car or get a ride most of the time</th>
<th>Can Borrow a car or get a ride some of the time</th>
<th>No access to a car</th>
</tr>
</thead>
<tbody>
<tr>
<td>Student</td>
<td>34.1%</td>
<td>2.7%</td>
<td>13.4%</td>
<td>15.1%</td>
<td>39.9%</td>
</tr>
<tr>
<td>Faculty</td>
<td>84.9%</td>
<td>3.8%</td>
<td>3.2%</td>
<td>5.9%</td>
<td>5.9%</td>
</tr>
<tr>
<td>Staff</td>
<td>81.3%</td>
<td>3.5%</td>
<td>5.4%</td>
<td>4.5%</td>
<td>8.9%</td>
</tr>
</tbody>
</table>

2.4.2. Bicycle

Unlike vehicles, most respondents had no access to a bicycle (Figure 2-11). Faculty members and staff members are more likely to own a bike, while students are least likely (Table 2-5). The proportion of people who can borrow a bike is low for all groups—even lower than those who can borrow a car (Table 2-4). These numbers are consistent with the 2017-2018 Commuter Survey.
2.5. Travel Spending

Most respondents spend $20 or less monthly on travel (Figure 2-12). For the survey, travel spending includes expenses such as gas and parking and does not include the costs of owning or maintaining a vehicle. A few respondents entered values of $1000 or more, which we believe were input mistakenly as yearly totals instead of monthly. For this reason, we divided values above $1000 by 12 in our analysis.

Students spend the least on average monthly travel expenses, while staff tend to spend the most (Figure 2-13). The median monthly expenditure per group is the same as the 2017-2018 Commuter Survey aside from students, who reported spending slightly more in monthly travel expenses this year.
3. Commute to and from Dalhousie

The goal of the Commuter Survey is to record characteristics of trips taken by the Dalhousie community to and from campuses. This section explains elements of survey respondents’ commutes, including mode choice, distance, duration and timing.

3.1. Primary mode

Primary mode is defined as the method of transportation used 70% or more of the time to get to and from campus. Figure 3-1 shows that walking is the most common mode of travel within the Dalhousie community, followed by public transit and then driving alone.

Table 3-1 breaks down primary commute mode by respondent group. Students are more likely to walk or take public transit to and from campus, while faculty and staff are more likely to drive. The proportion of commuters taking public transit in each group has increased since the last survey. Figure 3-2 explains that most respondents primary commute mode stayed similar to the previous year. Many respondents were new to campus and the question was not applicable to them.

Table 3-1. Primary commute mode by group

<table>
<thead>
<tr>
<th></th>
<th>Auto (alone)</th>
<th>Auto (passenger)</th>
<th>Public transit</th>
<th>Bicycle</th>
<th>Walking</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>Student</td>
<td>11.0%</td>
<td>5.2%</td>
<td>28.5%</td>
<td>3.4%</td>
<td>51.5%</td>
<td>0.4%</td>
</tr>
<tr>
<td>Faculty</td>
<td>29.5%</td>
<td>12.4%</td>
<td>14.0%</td>
<td>14.0%</td>
<td>27.5%</td>
<td>2.6%</td>
</tr>
<tr>
<td>Staff</td>
<td>36.8%</td>
<td>18.0%</td>
<td>23.0%</td>
<td>4.4%</td>
<td>16.7%</td>
<td>1.1%</td>
</tr>
</tbody>
</table>
3.2. Secondary mode

Secondary mode of transportation is described as the method of transport used less than 30% of the time. The highest proportion of respondents stated that their secondary commute mode was public transit (Figure 3-3). The 2017-2018 Commuter Survey displayed a similar distribution; however, walking is slightly more popular as a secondary mode than last year.

![Secondary commute mode chart](image)

**Figure 3-3. Secondary commute mode**

Students are more likely to take public transit as their secondary mode, while faculty and staff are more likely to stick with their primary mode of transportation (Table 3-2).

**Table 3-2. Secondary commute mode by group**

<table>
<thead>
<tr>
<th></th>
<th>Auto (alone)</th>
<th>Auto (passenger)</th>
<th>Public transit</th>
<th>Bicycle</th>
<th>Walking</th>
<th>Other</th>
<th>Always use primary mode</th>
</tr>
</thead>
<tbody>
<tr>
<td>Student</td>
<td>12.1%</td>
<td>13.8%</td>
<td>33.3%</td>
<td>5.0%</td>
<td>21.1%</td>
<td>1.2%</td>
<td>13.4%</td>
</tr>
<tr>
<td>Faculty</td>
<td>14.6%</td>
<td>18.2%</td>
<td>15.6%</td>
<td>9.9%</td>
<td>19.3%</td>
<td>0.0%</td>
<td>22.4%</td>
</tr>
<tr>
<td>Staff</td>
<td>20.1%</td>
<td>14.7%</td>
<td>18.0%</td>
<td>4.4%</td>
<td>14.2%</td>
<td>2.2%</td>
<td>26.5%</td>
</tr>
</tbody>
</table>

Table 3-3 compares respondents’ secondary modes to their primary modes. It shows that respondents’ secondary mode of transportation relies heavily on their primary mode. For example, people who drive alone to campus are less likely to have a backup transport option. Public transit is the favoured backup by respondents who primarily walk or drive as a passenger. Meanwhile, walking is the favoured means of transportation for those who primarily bike or take transit to campus.

**Table 3-3. Secondary commute mode by primary mode**

<table>
<thead>
<tr>
<th></th>
<th>Auto (alone)</th>
<th>Auto (passenger)</th>
<th>Public transit</th>
<th>Bicycle</th>
<th>Walking</th>
<th>Other</th>
<th>Always use primary mode</th>
</tr>
</thead>
<tbody>
<tr>
<td>Auto (alone)</td>
<td>12.6%</td>
<td>21.8%</td>
<td>18.5%</td>
<td>3.2%</td>
<td>13.2%</td>
<td>1.3%</td>
<td>29.4%</td>
</tr>
<tr>
<td>Auto (passenger)</td>
<td>27.3%</td>
<td>4.8%</td>
<td>38.3%</td>
<td>2.2%</td>
<td>11.9%</td>
<td>1.8%</td>
<td>13.7%</td>
</tr>
<tr>
<td>Public transit</td>
<td>19.7%</td>
<td>20.7%</td>
<td>3.1%</td>
<td>4.8%</td>
<td>44.2%</td>
<td>0.4%</td>
<td>7.0%</td>
</tr>
<tr>
<td>Bicycle</td>
<td>10.8%</td>
<td>5.0%</td>
<td>30.0%</td>
<td>3.3%</td>
<td>49.2%</td>
<td>0.8%</td>
<td>0.8%</td>
</tr>
<tr>
<td>Walking</td>
<td>8.8%</td>
<td>10.1%</td>
<td>47.8%</td>
<td>7.2%</td>
<td>5.0%</td>
<td>1.6%</td>
<td>19.4%</td>
</tr>
</tbody>
</table>
3.3. Commute distance

Commute distance was calculated by finding the shortest driving distance between respondents’ home postal codes and their primary campus. The median respondent commute distance is 2.5 km. The median commute distance for respondents who walk to campus is 1.3 km, while for respondents who drive solo to campus it is 8.5 km. Staff tend to have the furthest commute, followed by faculty and students (Figure 3-4). The median commute distance for students is 2.0 km, 3.0 km for faculty, and 6.3 km for staff. Figure 3-5 shows that most respondents’ commute distance is 4 km or less, however, a fair number of respondents travel 28 km or more to campus.

![Figure 3-4. Average commute distance by group](image1)

![Figure 3-5. Distribution of commute distances](image2)

3.4. Commute duration

Respondents were asked to report the minimum and maximum amount of time that it took for them to commute to Dalhousie using their primary mode of transportation. Using their answers, averages were calculated to determine the average commute time (Figure 3-6). Most respondents’ commute is between 5 and 20 minutes. The median commute duration is 17.5 minutes. On average, staff tend to have the longest commute, followed by faculty and students (Figure 3-7).

![Figure 3-6. Distribution of commute duration for primary mode](image3)

![Figure 3-7. Average commute duration by group](image4)
Table 3-4 shows that out of all modes of transportation, auto drivers typically have the longest commute, often over 30 minutes. The majority of walkers and bikers commute for under 20 minutes.

**Table 3-4. Average commute duration by commute mode**

<table>
<thead>
<tr>
<th></th>
<th>0-9</th>
<th>10-19</th>
<th>20-29</th>
<th>30-39</th>
<th>40-49</th>
<th>50-59</th>
<th>60-69</th>
<th>70-79</th>
</tr>
</thead>
<tbody>
<tr>
<td>All</td>
<td>20.0%</td>
<td>31.4%</td>
<td>17.1%</td>
<td>11.5%</td>
<td>7.7%</td>
<td>4.5%</td>
<td>3.1%</td>
<td>4.6%</td>
</tr>
<tr>
<td>Auto (alone)</td>
<td>9.3%</td>
<td>17.7%</td>
<td>17.3%</td>
<td>20.6%</td>
<td>17.3%</td>
<td>8.2%</td>
<td>4.8%</td>
<td>4.8%</td>
</tr>
<tr>
<td>Auto (passenger)</td>
<td>5.0%</td>
<td>12.4%</td>
<td>23.4%</td>
<td>19.3%</td>
<td>19.3%</td>
<td>5.0%</td>
<td>4.1%</td>
<td>11.5%</td>
</tr>
<tr>
<td>Public transit</td>
<td>6.6%</td>
<td>24.5%</td>
<td>19.4%</td>
<td>15.4%</td>
<td>9.2%</td>
<td>9.2%</td>
<td>6.4%</td>
<td>9.5%</td>
</tr>
<tr>
<td>Bicycle</td>
<td>19.5%</td>
<td>53.4%</td>
<td>16.1%</td>
<td>7.6%</td>
<td>3.4%</td>
<td>0.0%</td>
<td>0.0%</td>
<td>0.0%</td>
</tr>
<tr>
<td>Walking</td>
<td>35.9%</td>
<td>43.3%</td>
<td>14.3%</td>
<td>4.1%</td>
<td>0.6%</td>
<td>0.5%</td>
<td>0.6%</td>
<td>0.8%</td>
</tr>
</tbody>
</table>

3.5. Arrival and departure time

Figure 3-8 shows that most respondents arrive on Dalhousie University campuses between 8:00 am and 10:00 am. Figure 3-9 shows that most respondents leave campus between 4:00 pm and 6:00 pm.
4. Safety

The 2018-19 survey introduced several new questions regarding commuter safety and respondents’ knowledge of safety policies. These were based on the respondent’s primary mode of transportation.

4.1. Perception of commuter safety

Respondents’ feelings of safety as a commuter vary depending on the situation. Most respondents answered that they sometimes feel unsafe as a commuter due to several factors including the behaviour of other road users (Table 4-1). Figure 4-1 and Figure 4-2 show people are more likely to feel unsafe when a vehicle driver is not following the rules of the road than when a cyclist is not.

The survey described poor infrastructure on roads and sidewalks as a lack of bike lanes, narrow sidewalks or bad conditions and poor infrastructure. Respondents are more likely to very often or always feel unsafe when roads are in poor conditions than when sidewalks are in poor conditions (Figure 4-3 and Figure 4-4).
Table 4-1. Do the following factors or behaviours make you feel unsafe as a commuter?

<table>
<thead>
<tr>
<th>Factor</th>
<th>Never</th>
<th>Rarely</th>
<th>Sometimes</th>
<th>Very often</th>
<th>Always</th>
</tr>
</thead>
<tbody>
<tr>
<td>Another commuter shouting at you</td>
<td>31.9%</td>
<td>27.5%</td>
<td>17.1%</td>
<td>10.3%</td>
<td>13.2%</td>
</tr>
<tr>
<td>Cyclists on sidewalks</td>
<td>24.3%</td>
<td>28.2%</td>
<td>26.6%</td>
<td>13.4%</td>
<td>7.5%</td>
</tr>
<tr>
<td>Cyclists not following the rules of the road</td>
<td>10.2%</td>
<td>25.9%</td>
<td>29.0%</td>
<td>20.7%</td>
<td>14.2%</td>
</tr>
<tr>
<td>Vehicle drivers not following the rules of the road</td>
<td>4.4%</td>
<td>15.3%</td>
<td>33.4%</td>
<td>26.7%</td>
<td>20.2%</td>
</tr>
<tr>
<td>Pedestrians jaywalking</td>
<td>12.9%</td>
<td>26.2%</td>
<td>30.3%</td>
<td>19.4%</td>
<td>11.2%</td>
</tr>
<tr>
<td>Pedestrians looking at an electronic device while crossing the road</td>
<td>9.0%</td>
<td>18.8%</td>
<td>30.5%</td>
<td>25.0%</td>
<td>16.8%</td>
</tr>
<tr>
<td>Poor infrastructure on roads</td>
<td>9.8%</td>
<td>18.7%</td>
<td>33.3%</td>
<td>23.9%</td>
<td>14.3%</td>
</tr>
<tr>
<td>Poor infrastructure on sidewalks</td>
<td>10.0%</td>
<td>25.6%</td>
<td>36.2%</td>
<td>18.1%</td>
<td>10.2%</td>
</tr>
<tr>
<td>Ice, flooding, snow, etc. on the road or sidewalk</td>
<td>24.3%</td>
<td>28.2%</td>
<td>26.6%</td>
<td>13.4%</td>
<td>7.5%</td>
</tr>
<tr>
<td>Possibility of crime</td>
<td>19.2%</td>
<td>30.1%</td>
<td>25.5%</td>
<td>12.8%</td>
<td>12.4%</td>
</tr>
<tr>
<td>Travelling in the evening or at night</td>
<td>11.7%</td>
<td>21.0%</td>
<td>31.6%</td>
<td>21.3%</td>
<td>14.5%</td>
</tr>
</tbody>
</table>

4.2. Knowledge of transportation safety

The survey included questions to gauge respondents’ knowledge of transportation safety regulations, with varied results. Most respondents knew that wearing a helmet is required while cycling in Nova Scotia (Figure 4-5), and almost all respondents agreed that it is illegal to use a cell phone and drive in the province (Figure 4-8). Respondents were less clear about whether every intersection is treated as a crosswalk (Figure 4-7), with under half correctly answering yes. About half of respondents think that it is unsafe for a car and cyclist to be side by side in the same lane (Figure 4-6).
Figure 4-7. Every intersection is a crosswalk

Figure 4-8. It is illegal to use a cell phone while driving in Nova Scotia
5. Intercampus Travel

Dalhousie University has several campuses located in Halifax, including Studley, Carleton, Sexton and off campus health facilities. Dalhousie’s Agricultural campus is located in Truro. The Commuter Survey asked respondents questions regarding their travel between these campuses, breaking it down into inter-Halifax campus travel and Halifax-Truro travel.

Figure 2-3 depicts the primary campus for respondents. Studley Campus is the most common campus among respondents, followed by Carleton, and Sexton.

5.1. Travel among Halifax campuses

Most respondents travel among Halifax campuses; however, the frequency of these trips vary (Figure 5-1). Respondents who make these trips often do so at least once a week (Figure 5-1).

![Figure 5-1. Travel frequency among Halifax campuses](image)

Table 5-1 details that most respondent groups do travel among Halifax campuses with varying frequency. Almost the same proportion of students either never travel between Halifax campuses or travel between these campuses once or more every week. Just under half of the faculty members travel between Halifax campuses a few times a year or less. Most staff members travelled among Halifax campuses at least once a year.

<table>
<thead>
<tr>
<th></th>
<th>Daily</th>
<th>3-4 times a week</th>
<th>1-2 times a week</th>
<th>A few times a month</th>
<th>Once a month</th>
<th>A few times a year</th>
<th>Never</th>
</tr>
</thead>
<tbody>
<tr>
<td>Student</td>
<td>11.8%</td>
<td>12.0%</td>
<td>12.9%</td>
<td>8.5%</td>
<td>4.6%</td>
<td>14.2%</td>
<td>36.0%</td>
</tr>
<tr>
<td>Faculty</td>
<td>4.2%</td>
<td>8.5%</td>
<td>12.7%</td>
<td>16.9%</td>
<td>9.0%</td>
<td>24.3%</td>
<td>24.3%</td>
</tr>
<tr>
<td>Staff</td>
<td>5.2%</td>
<td>4.8%</td>
<td>11.8%</td>
<td>18.7%</td>
<td>8.1%</td>
<td>33.5%</td>
<td>17.9%</td>
</tr>
</tbody>
</table>
The Dalhousie University Halifax campuses are within a few kilometers of each other, thus most intercampus travel is done by walking (Figure 5-2). This is consistent with the 2017-2018 Commuter Survey.

![Figure 5-2. Primary travel mode between Halifax campuses](image)

5.2. Travel between Halifax an Agricultural campuses

The majority of respondents do not travel between Dalhousie’s Halifax and Truro campuses (Figure 5-3). Those that do, rarely do.

![Figure 5-3. Travel frequency between Halifax and Truro campuses](image)

Staff are most likely to travel between Halifax and Truro campuses, while students are least likely (Table 5-2).

<table>
<thead>
<tr>
<th>At least once a week</th>
<th>A few times a month</th>
<th>Once a month</th>
<th>A few times a year</th>
<th>Rarely</th>
<th>Never</th>
</tr>
</thead>
<tbody>
<tr>
<td>Student</td>
<td>1.3%</td>
<td>1.1%</td>
<td>0.6%</td>
<td>2.0%</td>
<td>6.7%</td>
</tr>
<tr>
<td>Faculty</td>
<td>0.5%</td>
<td>1.6%</td>
<td>0.0%</td>
<td>11.7%</td>
<td>16.0%</td>
</tr>
<tr>
<td>Staff</td>
<td>0.6%</td>
<td>1.1%</td>
<td>2.8%</td>
<td>10.9%</td>
<td>15.7%</td>
</tr>
</tbody>
</table>
Dalhousie’s Halifax and Truro campuses are about 100 km apart, which impacts how people choose to travel between them. Just under half of respondents drive by themselves between campuses (Figure 5-4). Other respondents carpool or take the bus.

![Diagram showing travel modes between campuses](image)

**Figure 5-4. Primary travel mode between Halifax and Truro campuses**

Students are more likely to take the bus as their primary mode of travel between campuses (Table 5-3). Almost three quarters of faculty members who travel between Halifax and Truro campuses use a car by themselves as their primary mode of travel. Staff members are likely to drive alone or carpool when travelling between campuses (Table 5-3).

**Table 5-3. Primary travel mode between Halifax and Truro campuses by group**

<table>
<thead>
<tr>
<th>Group</th>
<th>Bus</th>
<th>Carpool</th>
<th>Drive alone</th>
<th>Van pool</th>
<th>Train</th>
<th>Taxi</th>
</tr>
</thead>
<tbody>
<tr>
<td>Student</td>
<td>36.7%</td>
<td>26.1%</td>
<td>32.2%</td>
<td>1.1%</td>
<td>0.6%</td>
<td>3.3%</td>
</tr>
<tr>
<td>Faculty</td>
<td>1.8%</td>
<td>25.5%</td>
<td>70.9%</td>
<td>0.0%</td>
<td>0.0%</td>
<td>1.8%</td>
</tr>
<tr>
<td>Staff</td>
<td>5.7%</td>
<td>41.1%</td>
<td>52.5%</td>
<td>0.6%</td>
<td>0.0%</td>
<td>0.0%</td>
</tr>
</tbody>
</table>
6. Comparison by Campus

Dalhousie’s campuses have geographic and demographic differences which are reflected in the commuting habits of people who attend those campuses. This section breaks down commuting characteristics (ownership, mode, distance, and duration) by campus. The Halifax campuses are most similar but have some differences which will be explored below. The Agricultural campus and the university’s health facilities display divergent commuting patterns.

6.1. Vehicle and bicycle access

Figure 6-1 details how many respondents own a vehicle based on the campus they attend. Studley and Sexton campuses show a similar pattern of vehicle ownership, as most of the respondents who attend these campuses do not own a car. Most likely because it is situated in Truro (a smaller town with no transit system), the Agricultural campus has a higher rate of vehicle ownership. Dalhousie’s health facilities have the highest rate of car ownership, potentially due to the substantially older student population.

![Figure 6-1. Vehicle ownership by campus](image)

Figure 6-2 shows that respondents from health facilities are the most likely to own a bicycle. The 2017-2018 Commuter Survey showed a similar trend.

![Figure 6-2. Bicycle ownership by campus](image)
6.2. Commute mode

The primary commute modes among Halifax campuses are walking, public transit and driving. Like the 2017-2018 Commuter Survey, Sexton campus has the highest levels of public transit use, possibly due to its downtown location and proximity to transit routes (Figure 6-3). The agricultural campus has the highest rates of auto use.

![Figure 6-3. Primary commute mode by campus](image)

6.3. Commute distance and duration

Respondents’ commute distance varies by campus. Figure 6-4 shows that respondents who commute to the Agricultural campus have the longest average commute by far. Figure 6-5 displays the average commute time of respondents to their campus. Most respondents have a similar commute time regardless of the campus they attend. Respondents attending the Agriculture campus have longer commute distances but one of the shortest average commute times due primarily to much higher rates of travelling by auto.

![Figure 6-4. Average commute distance by campus](image)
![Figure 6-5. Average commute time by campus](image)
7. Comparison by Year

This section explores the trends in commuter behaviour over the years since Dalhousie began the commuter survey. Here, we use 2012 to refer to the survey for the 2012-13 academic year. Since the survey does not take a random sample and the relative proportions of different groups varies, year-to-year variation may be due to sample composition rather than underlying trends. Small subsamples (e.g. respondents from campuses other than Studley) likely have greater sample variation. The 2010 sample was smaller than usual, which helps explain inconsistent results from that year.

7.1. Commute mode

Respondents’ primary mode choices have remained stable over time (Figure 7-1). The increase in walking and transit is likely due to the increase in student survey respondents. In comparison to the 2017-2018 survey, the likelihood that a respondent would bike or carpool to campus has decreased.

Figure 7-1. Primary commute mode by year

Figure 7-2 details that for almost every survey year, 50% or more of student respondents walk as their primary commute mode. Public transit has also always been popular among students.

Figure 7-2. Student primary commute mode by year
Faculty and staff tend to drive solo as their primary commute mode (Figure 7-3). Auto passenger, public transit and walking historically see similar levels of use, while cycling is less popular.

![Figure 7-3. Faculty and staff primary commute mode by year](image)

7.2. Commute distance and duration

The distribution of respondents' average commute times has remained reasonably stable throughout the last surveys (Figure 7-4). The most common commutes have always taken between 11 to 20 minutes. Most commute times for the 2018-2019 Commuter Survey were within a 5% range of the 2017-2018 Survey, other than a commute time of 10 minutes or less, which dropped by 6%.

![Figure 7-4. Proportion of respondents with given average commute time by year](image)
Figure 7-5 shows that staff members’ commute distances have been higher than other respondent groups for the past seven years, followed by faculty and then students. This is likely a result of students’ tendency to live closer to campuses. Compared to the 2017-2018 Commuter Survey, the average commute distances for each group dropped by at least one kilometre.

Figure 7-5. Average commute distance by year and group (km)
8. Sustainability

The data included in this report is from the Annual Sustainability and Transportation Survey administered by the Office of Sustainability. This year, DalTRAC has decided to include sustainability questions from the survey in this report. This section discusses how important sustainability and sustainability initiatives are to the survey respondents.

8.1. Campus sustainability

Overall, most respondents believe campus sustainability is crucial. Over two thirds of respondents think that sustainability should be a campus-wide goal (Figure 8-1), and more than half of respondents believe its very important that Dalhousie is an innovator in the field of green building (Figure 8-2).

Table 8-1 displays how important sustainability initiatives are to the respondents. Three fifths of respondents found climate change to be very important. Climate change had the highest rating of importance out of all the questions, and procurement had the lowest.

<table>
<thead>
<tr>
<th>Initiative</th>
<th>Not important</th>
<th>Somewhat important</th>
<th>Moderately important</th>
<th>Important</th>
<th>Very important</th>
</tr>
</thead>
<tbody>
<tr>
<td>Built environment</td>
<td>1.5%</td>
<td>4.6%</td>
<td>21.3%</td>
<td>42.3%</td>
<td>30.2%</td>
</tr>
<tr>
<td>Climate change</td>
<td>1.9%</td>
<td>2.9%</td>
<td>8.6%</td>
<td>26.5%</td>
<td>60.0%</td>
</tr>
<tr>
<td>Food security</td>
<td>1.8%</td>
<td>4.4%</td>
<td>13.3%</td>
<td>35.1%</td>
<td>45.3%</td>
</tr>
<tr>
<td>Natural environment</td>
<td>1.4%</td>
<td>3.1%</td>
<td>10.3%</td>
<td>34.6%</td>
<td>50.7%</td>
</tr>
<tr>
<td>Procurement</td>
<td>3.0%</td>
<td>8.8%</td>
<td>32.7%</td>
<td>36.1%</td>
<td>19.3%</td>
</tr>
<tr>
<td>Transportation</td>
<td>1.6%</td>
<td>6.1%</td>
<td>15.3%</td>
<td>35.1%</td>
<td>41.8%</td>
</tr>
<tr>
<td>Waste</td>
<td>1.6%</td>
<td>2.8%</td>
<td>9.7%</td>
<td>33.4%</td>
<td>52.6%</td>
</tr>
</tbody>
</table>
9. Conclusion

The 2018-2019 Dalhousie University Commuter Survey continues to engage approximately 3000 staff, faculty and students annually across Dalhousie’s four campuses and off-campus health facilities. In addition to successfully representing the Dalhousie student population, this survey brought in focus the importance of sustainability and the feelings of safety among Dalhousie commuters.

Conclusions from this year’s survey:

• The primary commute modes of Dalhousie community members are walking and public transit.

• A respondent’s role at the university influences their commuting characteristics. For example, students tend to live closer to campus and are more likely to walk or take public transit than staff or faculty members.

• Most respondents from Halifax campuses rely on public transit as their secondary travel mode. This is true for all commuters except auto drivers, who likely see their primary option as reliable enough not to require a back up option.

• The feelings of safety among commuters varies greatly and depends on the situation. Most commuters sometimes feel unsafe in commuting situations.

• Respondents who attend Halifax campuses are likely to make a trip between campuses at least once a year. Respondents are unlikely to make trips between the Halifax and Truro campuses.

• Respondents who attend the Agricultural campus have limited access to public transit and therefore have different commuting habits than those who attend the Halifax campuses. Agricultural campus respondents are more likely to drive or live within walking distance of campus.

• Sustainability on campus is important to Dalhousie community members, with climate change being the primary concern.

The commuter survey is an integral part of Dalhousie’s efforts to monitor its commitment to sustainability. It is an opportunity to annually check in with its community members and their transportation choices. The survey provides evidence to inform future transportation plans and policies. This report shows that there is room for improvement; however, overall it shows that the University has seen an increase in sustainable transportation choices being made among its community.
Appendix A. Comparison of Secondary and Combined Modes by Year

Contents:

1. Figure A-1. Secondary mode (2009-2018)
2. Figure A-2. Secondary mode of students (2009-2018)
3. Figure A-3. Secondary mode of staff and faculty (2009-2018)
4. Figure A-4. Combined mode of Halifax Campuses (2009-2018)
5. Figure A-5. Combined mode of Agriculture Campus (2012-2018)
Figure A-1. Secondary mode (2009-2018)

Figure A-2. Secondary mode of students (2009-2018)

Figure A-3. Secondary mode of staff and faculty (2009-2018)


Figure A-4. Combined mode of Halifax Campuses (2009-2018)

Figure A-5. Combined mode of Agriculture Campus (2012-2018)
Appendix B. Summary of 2018-2019 Survey Data

Contents:

1. Which of these groups do you currently belong to?
2. Environmental sustainability should be a campus-wide goal.
3. What is your primary mode of transportation (70% of the time or more) for your daily commute to campus throughout the year?
4. What is your secondary mode of transportation (less than 30% of the time) for your daily commute to campus?
5. Do the following behaviours make you feel unsafe as a commuter?
6. Do the following factors make you feel unsafe as a commuter?
7. Please answer the following statements with yes, no, or not sure.
8. How important is it that Dalhousie is an innovator in the field of green building?
9. The Dalhousie Office of Sustainability works on a number of initiatives. Please rate the following based on how important they are to you.
10. Do you use a different primary commute mode this year (in comparison to your primary commute mode in 2017-2018)?
11. Considering all parts of your commute (from the time you leave your home until you arrive on campus) which of the following combination of modes do you use during a typical commute? (select all that apply)
12. How many minutes, on average, does it take to get from your home to Dalhousie when you use your primary mode of transportation? Please enter number only.
13. At what time, on average, do you arrive at Dalhousie? Please identify the time to the nearest hour.
14. At what time, on average, do you leave Dalhousie? Please identify the time to the nearest hour.
15. How often do you travel between the Halifax campuses? (Carleton, Sexton, and Studley)
16. What is your primary means of travel between Halifax campuses?
17. How often do you travel between the Halifax and Agricultural campuses?
18. What is your primary means of travel between Halifax and Agricultural campuses?
19. Do you own or have access to a car? (Choose all that apply)
20. Do you own or have access to a bicycle? (Choose all that apply)
21. How much on average (in Canadian dollars) do you spend out-of-pocket on a monthly basis for transportation purposes (for gas, parking, etc.)? Costs of ownership or vehicle maintenance should not be included.
22. What is your age?
23. What is your gender?
24. What is your annual household income?
25. What is your primary campus?
26. Are you a full-time or part-time staff, faculty, or student?
27. What is your primary department and/or faculty?
28. How did you hear about this survey? (choose all that apply)
### 1. Which of these groups do you currently belong to?

<table>
<thead>
<tr>
<th>Group</th>
<th>n (total 2928)</th>
<th>% of total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Students</td>
<td>1938</td>
<td>66.19</td>
</tr>
<tr>
<td>Faculty</td>
<td>193</td>
<td>6.69</td>
</tr>
<tr>
<td>Staff</td>
<td>554</td>
<td>18.92</td>
</tr>
<tr>
<td>Alumni</td>
<td>23</td>
<td>0.79</td>
</tr>
<tr>
<td>Other</td>
<td>11</td>
<td>0.38</td>
</tr>
<tr>
<td>Total</td>
<td>2719</td>
<td>92.86</td>
</tr>
<tr>
<td>Not answered</td>
<td>209</td>
<td>7.14</td>
</tr>
</tbody>
</table>

### 2. Environmental sustainability should be a campus-wide goal.

<table>
<thead>
<tr>
<th>Opinion</th>
<th>n (total 2712)</th>
<th>% of total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Strongly disagree</td>
<td>106</td>
<td>3.62</td>
</tr>
<tr>
<td>Somewhat disagree</td>
<td>24</td>
<td>0.82</td>
</tr>
<tr>
<td>Unsure</td>
<td>34</td>
<td>1.16</td>
</tr>
<tr>
<td>Somewhat agree</td>
<td>506</td>
<td>17.28</td>
</tr>
<tr>
<td>Strongly agree</td>
<td>2042</td>
<td>69.74</td>
</tr>
<tr>
<td>Total</td>
<td>2712</td>
<td>92.62</td>
</tr>
<tr>
<td>Not answered</td>
<td>216</td>
<td>7.38</td>
</tr>
</tbody>
</table>

### 3. What is your primary mode of transportation (70% of the time or more) for your daily commute to campus throughout the year?

<table>
<thead>
<tr>
<th>Mode</th>
<th>n (total 2714)</th>
<th>% of total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Automobile - Drive alone</td>
<td>478</td>
<td>16.33</td>
</tr>
<tr>
<td>Automobile - Passenger (including carpooling)</td>
<td>227</td>
<td>7.75</td>
</tr>
<tr>
<td>Public transit (including ferry services)</td>
<td>711</td>
<td>24.28</td>
</tr>
<tr>
<td>Bicycle</td>
<td>120</td>
<td>4.10</td>
</tr>
<tr>
<td>Walking</td>
<td>1169</td>
<td>39.58</td>
</tr>
<tr>
<td>Skateboard/longboard</td>
<td>2</td>
<td>0.07</td>
</tr>
<tr>
<td>Other (e.g. motorcycle, electric scooter)</td>
<td>17</td>
<td>0.58</td>
</tr>
<tr>
<td>Total</td>
<td>2714</td>
<td>92.69</td>
</tr>
<tr>
<td>Not answered</td>
<td>214</td>
<td>7.31</td>
</tr>
</tbody>
</table>

### 4. What is your secondary mode of transportation (less than 30% of the time) for your daily commute to campus?

<table>
<thead>
<tr>
<th>Mode</th>
<th>n (total 2711)</th>
<th>% of total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Automobile - Drive alone</td>
<td>381</td>
<td>13.01</td>
</tr>
<tr>
<td>Automobile - Passenger (including carpooling)</td>
<td>385</td>
<td>13.15</td>
</tr>
<tr>
<td>Public transit (including ferry services)</td>
<td>790</td>
<td>26.98</td>
</tr>
<tr>
<td>Van pool</td>
<td>2</td>
<td>0.07</td>
</tr>
<tr>
<td>Bicycle</td>
<td>143</td>
<td>4.88</td>
</tr>
<tr>
<td>Walking</td>
<td>526</td>
<td>17.96</td>
</tr>
<tr>
<td>Skateboard/longboard</td>
<td>18</td>
<td>0.61</td>
</tr>
<tr>
<td>Not applicable - Always use the primary mode</td>
<td>451</td>
<td>15.4</td>
</tr>
<tr>
<td>Other (e.g. motorcycle, electric scooter)</td>
<td>15</td>
<td>0.51</td>
</tr>
<tr>
<td>Total</td>
<td>2711</td>
<td>92.59</td>
</tr>
<tr>
<td>Not answered</td>
<td>217</td>
<td>7.41</td>
</tr>
</tbody>
</table>
5. Do the following behaviours make you feel unsafe as a commuter?

### Vehicle drivers not following the rules of the road (cutting off other commuters, going through stop signs, etc.)

<table>
<thead>
<tr>
<th>Frequency</th>
<th>Never</th>
<th>Rarely</th>
<th>Sometimes</th>
<th>Very often</th>
<th>Always</th>
<th>Total</th>
<th>Not answered</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>120</td>
<td>416</td>
<td>903</td>
<td>722</td>
<td>547</td>
<td>2707</td>
<td>221</td>
</tr>
<tr>
<td></td>
<td>4.10</td>
<td>14.17</td>
<td>30.84</td>
<td>24.66</td>
<td>18.68</td>
<td>92.45</td>
<td>7.55</td>
</tr>
</tbody>
</table>

### Cyclists not following the rules of the road (cutting off other commuters, going through stop signs, etc.)

<table>
<thead>
<tr>
<th>Frequency</th>
<th>Never</th>
<th>Rarely</th>
<th>Sometimes</th>
<th>Very often</th>
<th>Always</th>
<th>Total</th>
<th>Not answered</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>277</td>
<td>702</td>
<td>784</td>
<td>560</td>
<td>383</td>
<td>2706</td>
<td>222</td>
</tr>
<tr>
<td></td>
<td>9.46</td>
<td>23.98</td>
<td>26.78</td>
<td>19.13</td>
<td>13.08</td>
<td>92.42</td>
<td>7.58</td>
</tr>
</tbody>
</table>

### Pedestrians looking at an electronic device while crossing the road

<table>
<thead>
<tr>
<th>Frequency</th>
<th>Never</th>
<th>Rarely</th>
<th>Sometimes</th>
<th>Very often</th>
<th>Always</th>
<th>Total</th>
<th>Not answered</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>243</td>
<td>508</td>
<td>825</td>
<td>676</td>
<td>456</td>
<td>2708</td>
<td>220</td>
</tr>
<tr>
<td></td>
<td>8.30</td>
<td>17.35</td>
<td>28.18</td>
<td>23.09</td>
<td>15.57</td>
<td>92.49</td>
<td>7.51</td>
</tr>
</tbody>
</table>

### Pedestrians jaywalking (crossing in the middle of streets)

<table>
<thead>
<tr>
<th>Frequency</th>
<th>Never</th>
<th>Rarely</th>
<th>Sometimes</th>
<th>Very often</th>
<th>Always</th>
<th>Total</th>
<th>Not answered</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>349</td>
<td>707</td>
<td>818</td>
<td>524</td>
<td>303</td>
<td>2701</td>
<td>227</td>
</tr>
<tr>
<td></td>
<td>11.92</td>
<td>24.15</td>
<td>27.94</td>
<td>17.90</td>
<td>10.35</td>
<td>92.25</td>
<td>7.75</td>
</tr>
</tbody>
</table>

### Another commuter shouting at you

<table>
<thead>
<tr>
<th>Frequency</th>
<th>Never</th>
<th>Rarely</th>
<th>Sometimes</th>
<th>Very often</th>
<th>Always</th>
<th>Total</th>
<th>Not answered</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>859</td>
<td>739</td>
<td>459</td>
<td>276</td>
<td>356</td>
<td>2689</td>
<td>239</td>
</tr>
<tr>
<td></td>
<td>29.34</td>
<td>25.24</td>
<td>15.68</td>
<td>9.43</td>
<td>12.16</td>
<td>91.84</td>
<td>8.16</td>
</tr>
<tr>
<td>Cyclists on sidewalks</td>
<td>653</td>
<td>22.30</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>-----------------------</td>
<td>-----</td>
<td>-------</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Never</td>
<td>759</td>
<td>25.92</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rarely</td>
<td>714</td>
<td>24.39</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sometimes</td>
<td>360</td>
<td>12.30</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Very often</td>
<td>203</td>
<td>6.93</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>2689</td>
<td>91.84</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Not answered</td>
<td>239</td>
<td>8.16</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

6. Do the following factors make you feel unsafe as a commuter?

**Poor infrastructure on the roads (lack of bike lanes, condition, etc.)**

<table>
<thead>
<tr>
<th>Never</th>
<th>264</th>
<th>9.02</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rarely</td>
<td>504</td>
<td>17.21</td>
</tr>
<tr>
<td>Sometimes</td>
<td>898</td>
<td>30.67</td>
</tr>
<tr>
<td>Very often</td>
<td>645</td>
<td>22.03</td>
</tr>
<tr>
<td>Always</td>
<td>386</td>
<td>13.18</td>
</tr>
<tr>
<td>Total</td>
<td>2697</td>
<td>92.11</td>
</tr>
<tr>
<td>Not answered</td>
<td>231</td>
<td>7.89</td>
</tr>
</tbody>
</table>

**Poor infrastructure on sidewalks (narrow sidewalks, condition, etc.)**

<table>
<thead>
<tr>
<th>Never</th>
<th>271</th>
<th>9.26</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rarely</td>
<td>690</td>
<td>23.57</td>
</tr>
<tr>
<td>Sometimes</td>
<td>976</td>
<td>33.33</td>
</tr>
<tr>
<td>Very often</td>
<td>487</td>
<td>16.63</td>
</tr>
<tr>
<td>Always</td>
<td>274</td>
<td>9.36</td>
</tr>
<tr>
<td>Total</td>
<td>2698</td>
<td>92.14</td>
</tr>
<tr>
<td>Not answered</td>
<td>230</td>
<td>7.86</td>
</tr>
</tbody>
</table>

**Ice, flooding, snow etc. on the road or sidewalk**

<table>
<thead>
<tr>
<th>Never</th>
<th>122</th>
<th>4.17</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rarely</td>
<td>379</td>
<td>12.94</td>
</tr>
<tr>
<td>Sometimes</td>
<td>1055</td>
<td>36.03</td>
</tr>
<tr>
<td>Very often</td>
<td>705</td>
<td>24.08</td>
</tr>
<tr>
<td>Always</td>
<td>428</td>
<td>14.62</td>
</tr>
<tr>
<td>Total</td>
<td>2689</td>
<td>91.84</td>
</tr>
<tr>
<td>Not answered</td>
<td>239</td>
<td>8.16</td>
</tr>
</tbody>
</table>

**Travelling in the evening or at night**

<table>
<thead>
<tr>
<th>Never</th>
<th>314</th>
<th>10.72</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rarely</td>
<td>564</td>
<td>19.26</td>
</tr>
<tr>
<td>Sometimes</td>
<td>850</td>
<td>29.03</td>
</tr>
<tr>
<td>Very often</td>
<td>573</td>
<td>19.57</td>
</tr>
<tr>
<td>Always</td>
<td>391</td>
<td>13.35</td>
</tr>
<tr>
<td>Total</td>
<td>2692</td>
<td>91.94</td>
</tr>
<tr>
<td>Not answered</td>
<td>236</td>
<td>8.06</td>
</tr>
</tbody>
</table>
Possibility of crime such as assault

<table>
<thead>
<tr>
<th>Frequency</th>
<th>Count</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Never</td>
<td>517</td>
<td>17.66</td>
</tr>
<tr>
<td>Rarely</td>
<td>811</td>
<td>27.70</td>
</tr>
<tr>
<td>Sometimes</td>
<td>685</td>
<td>23.39</td>
</tr>
<tr>
<td>Very often</td>
<td>345</td>
<td>11.78</td>
</tr>
<tr>
<td>Always</td>
<td>333</td>
<td>11.37</td>
</tr>
<tr>
<td>Total</td>
<td>2691</td>
<td>91.91</td>
</tr>
<tr>
<td>Not answered</td>
<td>237</td>
<td>8.09</td>
</tr>
</tbody>
</table>

7. Please answer the following statements with yes, no, or not sure:

Wearing a bicycle helmet is required in Nova Scotia

<table>
<thead>
<tr>
<th>Answer</th>
<th>Count</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
<td>2321</td>
<td>79.27</td>
</tr>
<tr>
<td>No</td>
<td>55</td>
<td>1.88</td>
</tr>
<tr>
<td>Not Sure</td>
<td>337</td>
<td>11.51</td>
</tr>
<tr>
<td>Total</td>
<td>2713</td>
<td>92.66</td>
</tr>
<tr>
<td>Not answered</td>
<td>215</td>
<td>7.34</td>
</tr>
</tbody>
</table>

It is illegal to use a cell phone while driving in Nova Scotia

<table>
<thead>
<tr>
<th>Answer</th>
<th>Count</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
<td>2552</td>
<td>87.16</td>
</tr>
<tr>
<td>No</td>
<td>71</td>
<td>2.42</td>
</tr>
<tr>
<td>Not Sure</td>
<td>88</td>
<td>3.01</td>
</tr>
<tr>
<td>Total</td>
<td>2711</td>
<td>92.59</td>
</tr>
<tr>
<td>Not answered</td>
<td>217</td>
<td>7.41</td>
</tr>
</tbody>
</table>

Every intersection is a crosswalk

<table>
<thead>
<tr>
<th>Answer</th>
<th>Count</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
<td>1115</td>
<td>38.08</td>
</tr>
<tr>
<td>No</td>
<td>891</td>
<td>30.43</td>
</tr>
<tr>
<td>Not Sure</td>
<td>707</td>
<td>24.15</td>
</tr>
<tr>
<td>Total</td>
<td>2713</td>
<td>92.66</td>
</tr>
<tr>
<td>Not answered</td>
<td>215</td>
<td>7.34</td>
</tr>
</tbody>
</table>

Is it safe for a car and a cyclist to be side by side in the same lane at an intersection

<table>
<thead>
<tr>
<th>Answer</th>
<th>Count</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
<td>492</td>
<td>16.80</td>
</tr>
<tr>
<td>No</td>
<td>1377</td>
<td>47.03</td>
</tr>
<tr>
<td>Not Sure</td>
<td>844</td>
<td>28.83</td>
</tr>
<tr>
<td>Total</td>
<td>2713</td>
<td>92.66</td>
</tr>
<tr>
<td>Not answered</td>
<td>215</td>
<td>7.34</td>
</tr>
</tbody>
</table>

8. How important is it that Dalhousie is an innovator in the field of green building?

<table>
<thead>
<tr>
<th>Importance Level</th>
<th>Count</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not important</td>
<td>39</td>
<td>1.33</td>
</tr>
<tr>
<td>Somewhat important</td>
<td>243</td>
<td>8.30</td>
</tr>
<tr>
<td>Important</td>
<td>914</td>
<td>31.22</td>
</tr>
<tr>
<td>Very important</td>
<td>1503</td>
<td>51.33</td>
</tr>
<tr>
<td>Total</td>
<td>2699</td>
<td>92.18</td>
</tr>
<tr>
<td>Not answered</td>
<td>229</td>
<td>7.82</td>
</tr>
</tbody>
</table>
9. The Dalhousie Office of Sustainability works on a number of initiatives. Please rate the following based on how important they are to you:

<table>
<thead>
<tr>
<th>Initiative</th>
<th>Very important</th>
<th>Important</th>
<th>Moderately important</th>
<th>Slightly important</th>
<th>Not important</th>
<th>Total</th>
<th>Not answered</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Transportation</strong></td>
<td>1095</td>
<td>920</td>
<td>402</td>
<td>161</td>
<td>42</td>
<td>2620</td>
<td>308</td>
</tr>
<tr>
<td><strong>Built environment</strong></td>
<td>790</td>
<td>1107</td>
<td>558</td>
<td>119</td>
<td>40</td>
<td>2614</td>
<td>314</td>
</tr>
<tr>
<td><strong>Natural environment</strong></td>
<td>1321</td>
<td>902</td>
<td>269</td>
<td>80</td>
<td>36</td>
<td>2608</td>
<td>320</td>
</tr>
<tr>
<td><strong>Waste</strong></td>
<td>1376</td>
<td>873</td>
<td>253</td>
<td>74</td>
<td>41</td>
<td>2617</td>
<td>311</td>
</tr>
<tr>
<td><strong>Food</strong></td>
<td>1183</td>
<td>917</td>
<td>347</td>
<td>116</td>
<td>48</td>
<td>2611</td>
<td>317</td>
</tr>
</tbody>
</table>
### Procurement

<table>
<thead>
<tr>
<th>Importance</th>
<th>Score</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Very important</td>
<td>501</td>
<td>17.11</td>
</tr>
<tr>
<td>Important</td>
<td>936</td>
<td>31.97</td>
</tr>
<tr>
<td>Moderately important</td>
<td>847</td>
<td>28.93</td>
</tr>
<tr>
<td>Slightly important</td>
<td>229</td>
<td>7.82</td>
</tr>
<tr>
<td>Not important</td>
<td>77</td>
<td>2.63</td>
</tr>
<tr>
<td>Total</td>
<td>2590</td>
<td>88.46</td>
</tr>
<tr>
<td>Not answered</td>
<td>338</td>
<td>11.54</td>
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</tbody>
</table>

### Energy & climate change

<table>
<thead>
<tr>
<th>Importance</th>
<th>Score</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Very important</td>
<td>1572</td>
<td>53.69</td>
</tr>
<tr>
<td>Important</td>
<td>693</td>
<td>23.67</td>
</tr>
<tr>
<td>Moderately important</td>
<td>226</td>
<td>7.72</td>
</tr>
<tr>
<td>Slightly important</td>
<td>76</td>
<td>2.60</td>
</tr>
<tr>
<td>Not important</td>
<td>51</td>
<td>1.74</td>
</tr>
<tr>
<td>Total</td>
<td>2618</td>
<td>89.41</td>
</tr>
<tr>
<td>Not answered</td>
<td>310</td>
<td>10.59</td>
</tr>
</tbody>
</table>

10. Do you use a different primary commute mode this year (in comparison to your primary commute mode in 2017-2018)?

<table>
<thead>
<tr>
<th>Response</th>
<th>Score</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
<td>419</td>
<td>14.31</td>
</tr>
<tr>
<td>No</td>
<td>1682</td>
<td>57.45</td>
</tr>
<tr>
<td>Not applicable (first year on campus)</td>
<td>523</td>
<td>17.86</td>
</tr>
<tr>
<td>Total</td>
<td>2624</td>
<td>89.62</td>
</tr>
<tr>
<td>Not answered</td>
<td>304</td>
<td>10.38</td>
</tr>
</tbody>
</table>

11. Considering all parts of your commute (from the time you leave your home until you arrive on campus) which of the following combination of modes do you use during a typical commute? (select all that apply)

*Note: percentages are individual and are not representative of total responses*

<table>
<thead>
<tr>
<th>Mode</th>
<th>Score</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Automobile – Drive alone</td>
<td>667</td>
<td>25.68</td>
</tr>
<tr>
<td>Automobile – Passenger (including carpooling)</td>
<td>417</td>
<td>16.06</td>
</tr>
<tr>
<td>Public transit (ferry, bus)</td>
<td>1034</td>
<td>39.82</td>
</tr>
<tr>
<td>Van pool</td>
<td>5</td>
<td>0.19</td>
</tr>
<tr>
<td>Bicycle</td>
<td>205</td>
<td>7.89</td>
</tr>
<tr>
<td>Walking (more than 10 minutes)</td>
<td>1582</td>
<td>60.92</td>
</tr>
<tr>
<td>Skateboard/longboard</td>
<td>19</td>
<td>0.73</td>
</tr>
<tr>
<td>Other (please specify)</td>
<td>105</td>
<td>4.04</td>
</tr>
</tbody>
</table>

12. How many minutes, on average, does it take to get from your home to Dalhousie when you use your primary mode of transportation? Please enter number only.

<table>
<thead>
<tr>
<th>Minimum</th>
<th>Score</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 - 17</td>
<td>1639</td>
<td>55.98</td>
</tr>
<tr>
<td>18 - 35</td>
<td>644</td>
<td>21.99</td>
</tr>
<tr>
<td>36 - 53</td>
<td>182</td>
<td>6.22</td>
</tr>
<tr>
<td>54 - 71</td>
<td>84</td>
<td>2.87</td>
</tr>
<tr>
<td>72 - 89</td>
<td>13</td>
<td>0.44</td>
</tr>
<tr>
<td>Time Interval</td>
<td>Count</td>
<td>Probability</td>
</tr>
<tr>
<td>--------------</td>
<td>-------</td>
<td>-------------</td>
</tr>
<tr>
<td>90 - 107</td>
<td>9</td>
<td>0.31</td>
</tr>
<tr>
<td>108 - 125</td>
<td>2</td>
<td>0.07</td>
</tr>
<tr>
<td>144 - 161</td>
<td>2</td>
<td>0.07</td>
</tr>
<tr>
<td>162 - 179</td>
<td>3</td>
<td>0.10</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>2578</strong></td>
<td><strong>88.05</strong></td>
</tr>
<tr>
<td><strong>Not answered</strong></td>
<td><strong>350</strong></td>
<td><strong>11.95</strong></td>
</tr>
</tbody>
</table>

**Maximum:**

<table>
<thead>
<tr>
<th>Time Interval</th>
<th>Count</th>
<th>Probability</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 - 17</td>
<td>1447</td>
<td>49.42</td>
</tr>
<tr>
<td>18 - 35</td>
<td>663</td>
<td>22.64</td>
</tr>
<tr>
<td>36 - 53</td>
<td>301</td>
<td>10.28</td>
</tr>
<tr>
<td>54 - 71</td>
<td>98</td>
<td>3.35</td>
</tr>
<tr>
<td>72 - 89</td>
<td>40</td>
<td>1.37</td>
</tr>
<tr>
<td>90 - 107</td>
<td>3</td>
<td>0.10</td>
</tr>
<tr>
<td>108 - 125</td>
<td>5</td>
<td>0.17</td>
</tr>
<tr>
<td>144 - 161</td>
<td>1</td>
<td>0.03</td>
</tr>
<tr>
<td>162 - 179</td>
<td>1</td>
<td>0.03</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>2559</strong></td>
<td><strong>87.40</strong></td>
</tr>
<tr>
<td><strong>Not answered</strong></td>
<td><strong>369</strong></td>
<td><strong>12.60</strong></td>
</tr>
</tbody>
</table>

13. At what time, on average, do you arrive at Dalhousie? Please identify the time to the nearest hour.

<table>
<thead>
<tr>
<th>Time</th>
<th>Count</th>
<th>Probability</th>
</tr>
</thead>
<tbody>
<tr>
<td>01:00am</td>
<td>13</td>
<td>0.44</td>
</tr>
<tr>
<td>05:00am</td>
<td>5</td>
<td>0.17</td>
</tr>
<tr>
<td>06:00am</td>
<td>28</td>
<td>0.96</td>
</tr>
<tr>
<td>07:00am</td>
<td>140</td>
<td>4.78</td>
</tr>
<tr>
<td>08:00am</td>
<td>832</td>
<td>28.42</td>
</tr>
<tr>
<td>09:00am</td>
<td>867</td>
<td>29.61</td>
</tr>
<tr>
<td>10:00am</td>
<td>362</td>
<td>12.36</td>
</tr>
<tr>
<td>11:00am</td>
<td>117</td>
<td>4.00</td>
</tr>
<tr>
<td>12:00pm</td>
<td>47</td>
<td>1.61</td>
</tr>
<tr>
<td>01:00pm</td>
<td>42</td>
<td>1.43</td>
</tr>
<tr>
<td>02:00pm</td>
<td>25</td>
<td>0.85</td>
</tr>
<tr>
<td>03:00pm</td>
<td>5</td>
<td>0.17</td>
</tr>
<tr>
<td>04:00pm</td>
<td>2</td>
<td>0.07</td>
</tr>
<tr>
<td>05:00pm</td>
<td>9</td>
<td>0.31</td>
</tr>
<tr>
<td>06:00pm</td>
<td>2</td>
<td>0.07</td>
</tr>
<tr>
<td>07:00pm</td>
<td>10</td>
<td>0.34</td>
</tr>
<tr>
<td>08:00pm</td>
<td>30</td>
<td>1.02</td>
</tr>
<tr>
<td>09:00pm</td>
<td>26</td>
<td>0.89</td>
</tr>
<tr>
<td>10:00pm</td>
<td>9</td>
<td>0.31</td>
</tr>
<tr>
<td>12:00am</td>
<td>2</td>
<td>0.07</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>2573</strong></td>
<td><strong>87.88</strong></td>
</tr>
<tr>
<td><strong>Not answered</strong></td>
<td><strong>355</strong></td>
<td><strong>12.12</strong></td>
</tr>
</tbody>
</table>
14. At what time, on average, do you leave Dalhousie? Please identify the time to the nearest hour.

<table>
<thead>
<tr>
<th>Time</th>
<th>Frequency</th>
<th>Average Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>01:00am</td>
<td>3</td>
<td>0.10</td>
</tr>
<tr>
<td>02:00am</td>
<td>2</td>
<td>0.07</td>
</tr>
<tr>
<td>03:00am</td>
<td>26</td>
<td>0.89</td>
</tr>
<tr>
<td>04:00am</td>
<td>54</td>
<td>1.84</td>
</tr>
<tr>
<td>05:00am</td>
<td>78</td>
<td>2.66</td>
</tr>
<tr>
<td>06:00am</td>
<td>27</td>
<td>0.92</td>
</tr>
<tr>
<td>07:00am</td>
<td>5</td>
<td>0.17</td>
</tr>
<tr>
<td>08:00am</td>
<td>19</td>
<td>0.65</td>
</tr>
<tr>
<td>09:00am</td>
<td>11</td>
<td>0.38</td>
</tr>
<tr>
<td>10:00am</td>
<td>10</td>
<td>0.34</td>
</tr>
<tr>
<td>11:00am</td>
<td>10</td>
<td>0.34</td>
</tr>
<tr>
<td>12:00pm</td>
<td>29</td>
<td>0.99</td>
</tr>
<tr>
<td>01:00pm</td>
<td>48</td>
<td>1.64</td>
</tr>
<tr>
<td>02:00pm</td>
<td>85</td>
<td>2.90</td>
</tr>
<tr>
<td>03:00pm</td>
<td>265</td>
<td>9.05</td>
</tr>
<tr>
<td>04:00pm</td>
<td>595</td>
<td>20.32</td>
</tr>
<tr>
<td>05:00pm</td>
<td>593</td>
<td>20.25</td>
</tr>
<tr>
<td>06:00pm</td>
<td>299</td>
<td>10.21</td>
</tr>
<tr>
<td>07:00pm</td>
<td>130</td>
<td>4.44</td>
</tr>
<tr>
<td>08:00pm</td>
<td>90</td>
<td>3.07</td>
</tr>
<tr>
<td>09:00pm</td>
<td>55</td>
<td>1.88</td>
</tr>
<tr>
<td>10:00pm</td>
<td>52</td>
<td>1.78</td>
</tr>
<tr>
<td>11:00pm</td>
<td>36</td>
<td>1.23</td>
</tr>
<tr>
<td>12:00am</td>
<td>34</td>
<td>1.16</td>
</tr>
<tr>
<td>Total</td>
<td>2556</td>
<td>87.30</td>
</tr>
<tr>
<td>Not answered</td>
<td>372</td>
<td>12.70</td>
</tr>
</tbody>
</table>

15. How often do you travel between the Halifax campuses? (Carleton, Sexton, and Studley)

<table>
<thead>
<tr>
<th>Frequency</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Daily</td>
<td>253</td>
</tr>
<tr>
<td>3-4 times a week</td>
<td>264</td>
</tr>
<tr>
<td>1-2 times a week</td>
<td>327</td>
</tr>
<tr>
<td>A few times a month</td>
<td>292</td>
</tr>
<tr>
<td>Once a month</td>
<td>147</td>
</tr>
<tr>
<td>A few times a year</td>
<td>490</td>
</tr>
<tr>
<td>Never</td>
<td>805</td>
</tr>
<tr>
<td>Total</td>
<td>2578</td>
</tr>
<tr>
<td>Not answered</td>
<td>350</td>
</tr>
</tbody>
</table>

16. What is your primary means of travel between Halifax campuses?

<table>
<thead>
<tr>
<th>Means of Travel</th>
<th>Frequency</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Walking</td>
<td>1373</td>
<td>46.89</td>
</tr>
<tr>
<td>Bicycle</td>
<td>68</td>
<td>2.32</td>
</tr>
<tr>
<td>Bus</td>
<td>306</td>
<td>10.45</td>
</tr>
<tr>
<td>Private car</td>
<td>96</td>
<td>3.28</td>
</tr>
<tr>
<td>Taxi</td>
<td>20</td>
<td>0.68</td>
</tr>
<tr>
<td>Dal Tiger Patrol van</td>
<td>1</td>
<td>0.03</td>
</tr>
<tr>
<td>Category</td>
<td>Count</td>
<td>Percentage</td>
</tr>
<tr>
<td>--------------------------------</td>
<td>-------</td>
<td>------------</td>
</tr>
<tr>
<td>Not applicable</td>
<td>692</td>
<td>23.63</td>
</tr>
<tr>
<td>Other (please specify)</td>
<td>14</td>
<td>0.48</td>
</tr>
<tr>
<td>Total</td>
<td>2570</td>
<td>87.77</td>
</tr>
<tr>
<td>Not answered</td>
<td>358</td>
<td>12.23</td>
</tr>
</tbody>
</table>

17. How often do you travel between the Halifax and Agricultural campuses?

<table>
<thead>
<tr>
<th>Frequency</th>
<th>Count</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Daily</td>
<td>9</td>
<td>0.31</td>
</tr>
<tr>
<td>3-4 times a week</td>
<td>10</td>
<td>0.34</td>
</tr>
<tr>
<td>1-2 times a week</td>
<td>9</td>
<td>0.31</td>
</tr>
<tr>
<td>A few times a month</td>
<td>29</td>
<td>0.99</td>
</tr>
<tr>
<td>Once a month</td>
<td>25</td>
<td>0.85</td>
</tr>
<tr>
<td>A few times a year</td>
<td>119</td>
<td>4.06</td>
</tr>
<tr>
<td>Rarely</td>
<td>238</td>
<td>8.13</td>
</tr>
<tr>
<td>Never</td>
<td>2137</td>
<td>72.98</td>
</tr>
<tr>
<td>Total</td>
<td>2576</td>
<td>87.98</td>
</tr>
<tr>
<td>Not answered</td>
<td>352</td>
<td>12.02</td>
</tr>
</tbody>
</table>

18. What is your primary means of travel between the Halifax and Agricultural campuses?

<table>
<thead>
<tr>
<th>Mode</th>
<th>Count</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bus</td>
<td>76</td>
<td>2.60</td>
</tr>
<tr>
<td>Carpool</td>
<td>126</td>
<td>4.30</td>
</tr>
<tr>
<td>Drive alone</td>
<td>184</td>
<td>6.28</td>
</tr>
<tr>
<td>Van Pool</td>
<td>3</td>
<td>0.10</td>
</tr>
<tr>
<td>Train</td>
<td>1</td>
<td>0.03</td>
</tr>
<tr>
<td>Taxi</td>
<td>7</td>
<td>0.24</td>
</tr>
<tr>
<td>Not applicable</td>
<td>2177</td>
<td>74.35</td>
</tr>
<tr>
<td>Total</td>
<td>2574</td>
<td>87.91</td>
</tr>
<tr>
<td>Not answered</td>
<td>354</td>
<td>12.09</td>
</tr>
</tbody>
</table>

20. Do you own or have access to a car? (Choose all that apply)

*Note: percentages are individual and are not representative of total responses

<table>
<thead>
<tr>
<th>Access to Car</th>
<th>Count</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>I own a car</td>
<td>1234</td>
<td>48.09</td>
</tr>
<tr>
<td>I am a member of a car sharing service</td>
<td>77</td>
<td>3.00</td>
</tr>
<tr>
<td>I can borrow a car or get a ride most times I need it</td>
<td>279</td>
<td>10.87</td>
</tr>
<tr>
<td>I can borrow a car or get a ride some of the time</td>
<td>311</td>
<td>12.12</td>
</tr>
<tr>
<td>I do not own or have access to a car</td>
<td>786</td>
<td>30.63</td>
</tr>
</tbody>
</table>

21. Do you own or have access to a bicycle? (Choose all that apply)

*Note: percentages are individual and are not representative of total responses

<table>
<thead>
<tr>
<th>Access to Bicycle</th>
<th>Count</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>I own a bicycle</td>
<td>919</td>
<td>35.95</td>
</tr>
<tr>
<td>I can use or borrow a bicycle most times I need it</td>
<td>122</td>
<td>4.77</td>
</tr>
<tr>
<td>I can use or borrow a bicycle some of the times that I need it</td>
<td>206</td>
<td>8.06</td>
</tr>
<tr>
<td>I do not own or have access to a bicycle</td>
<td>1368</td>
<td>53.52</td>
</tr>
</tbody>
</table>
22. How much on average (in Canadian dollars) do you spend out-of-pocket on a monthly basis for transportation purposes (for gas, parking, etc.)? Costs of ownership or vehicle maintenance should not be included. Please enter a number only. Average:

<table>
<thead>
<tr>
<th>Range</th>
<th>Count</th>
<th>Average</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 - 699</td>
<td>2360</td>
<td>80.60</td>
</tr>
<tr>
<td>700 - 1399</td>
<td>15</td>
<td>0.51</td>
</tr>
<tr>
<td>1400 - 2099</td>
<td>2</td>
<td>0.07</td>
</tr>
<tr>
<td>2800 - 3499</td>
<td>2</td>
<td>0.07</td>
</tr>
<tr>
<td>4900 - 5599</td>
<td>1</td>
<td>0.03</td>
</tr>
<tr>
<td>5600 - 6299</td>
<td>1</td>
<td>0.03</td>
</tr>
<tr>
<td>6300 - 6999</td>
<td>1</td>
<td>0.03</td>
</tr>
<tr>
<td>Total</td>
<td>2382</td>
<td>81.35</td>
</tr>
<tr>
<td>Not answered</td>
<td>546</td>
<td>18.65</td>
</tr>
</tbody>
</table>

23. What is your age?

<table>
<thead>
<tr>
<th>Age Group</th>
<th>Count</th>
<th>Average</th>
</tr>
</thead>
<tbody>
<tr>
<td>15-19</td>
<td>494</td>
<td>16.87</td>
</tr>
<tr>
<td>20-24</td>
<td>840</td>
<td>28.69</td>
</tr>
<tr>
<td>25-34</td>
<td>548</td>
<td>18.72</td>
</tr>
<tr>
<td>35-44</td>
<td>269</td>
<td>9.19</td>
</tr>
<tr>
<td>45-54</td>
<td>194</td>
<td>6.63</td>
</tr>
<tr>
<td>55-64</td>
<td>160</td>
<td>5.46</td>
</tr>
<tr>
<td>65 and above</td>
<td>28</td>
<td>0.96</td>
</tr>
<tr>
<td>Prefer not to say</td>
<td>15</td>
<td>0.51</td>
</tr>
<tr>
<td>Total</td>
<td>2548</td>
<td>87.02</td>
</tr>
<tr>
<td>Not answered</td>
<td>380</td>
<td>12.98</td>
</tr>
</tbody>
</table>

24. What is your gender?

<table>
<thead>
<tr>
<th>Gender</th>
<th>Count</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Female</td>
<td>1725</td>
<td>58.91</td>
</tr>
<tr>
<td>Male</td>
<td>765</td>
<td>26.13</td>
</tr>
<tr>
<td>Non-binary/Third Gender</td>
<td>13</td>
<td>0.44</td>
</tr>
<tr>
<td>Prefer not to say</td>
<td>37</td>
<td>1.26</td>
</tr>
<tr>
<td>Prefer to self-describe</td>
<td>10</td>
<td>0.34</td>
</tr>
<tr>
<td>Total</td>
<td>2550</td>
<td>87.09</td>
</tr>
<tr>
<td>Not answered</td>
<td>378</td>
<td>12.91</td>
</tr>
</tbody>
</table>

25. What is your annual household income?

<table>
<thead>
<tr>
<th>Income Range</th>
<th>Count</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Less than $19,999</td>
<td>726</td>
<td>24.80</td>
</tr>
<tr>
<td>$20,000-39,999</td>
<td>277</td>
<td>9.46</td>
</tr>
<tr>
<td>$40,000-59,999</td>
<td>254</td>
<td>8.67</td>
</tr>
<tr>
<td>$60,000-79,999</td>
<td>200</td>
<td>6.83</td>
</tr>
<tr>
<td>$80,000-99,999</td>
<td>173</td>
<td>5.91</td>
</tr>
<tr>
<td>Above $100,000</td>
<td>416</td>
<td>14.21</td>
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<tr>
<td>Prefer not to say</td>
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<tr>
<td>Total</td>
<td>2550</td>
<td>87.09</td>
</tr>
<tr>
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<td>378</td>
<td>12.91</td>
</tr>
</tbody>
</table>
27. What is your primary campus?

<table>
<thead>
<tr>
<th>Campus</th>
<th>Count</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Studley</td>
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<tr>
<td>Carleton</td>
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<tr>
<td>Sexton</td>
<td>338</td>
<td>11.54</td>
</tr>
<tr>
<td>Agricultural</td>
<td>167</td>
<td>5.70</td>
</tr>
<tr>
<td>Health facilities (off campus)</td>
<td>62</td>
<td>2.12</td>
</tr>
<tr>
<td>Other</td>
<td>42</td>
<td>1.43</td>
</tr>
<tr>
<td>Total</td>
<td>2550</td>
<td>87.09</td>
</tr>
<tr>
<td>Not answered</td>
<td>378</td>
<td>12.91</td>
</tr>
</tbody>
</table>

28. Are you a full-time or part-time staff, faculty, or student?

<table>
<thead>
<tr>
<th>Time Type</th>
<th>Count</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Full-time</td>
<td>2359</td>
<td>80.57</td>
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<tr>
<td>Part-time</td>
<td>140</td>
<td>4.78</td>
</tr>
<tr>
<td>Other (please specify)</td>
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<td>1.74</td>
</tr>
<tr>
<td>Total</td>
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<td>87.09</td>
</tr>
<tr>
<td>Not answered</td>
<td>378</td>
<td>12.91</td>
</tr>
</tbody>
</table>

29. What is your primary department and/or faculty?

<table>
<thead>
<tr>
<th>Department</th>
<th>Count</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ancillary Services</td>
<td>12</td>
<td>0.41</td>
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<tr>
<td>Athletics and Recreational Services</td>
<td>8</td>
<td>0.27</td>
</tr>
<tr>
<td>College of Continuing Education</td>
<td>15</td>
<td>0.51</td>
</tr>
<tr>
<td>College of Sustainability</td>
<td>19</td>
<td>0.65</td>
</tr>
<tr>
<td>Communications and Marketing</td>
<td>5</td>
<td>0.17</td>
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<tr>
<td>Dalhousie Arts Centre &amp; Art Gallery</td>
<td>2</td>
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<tr>
<td>Dalhousie Libraries</td>
<td>45</td>
<td>1.54</td>
</tr>
<tr>
<td>Environmental Health and Safety</td>
<td>4</td>
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<tr>
<td>Facilities Management</td>
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<td>2.39</td>
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<tr>
<td>Faculty of Agriculture</td>
<td>123</td>
<td>4.20</td>
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<tr>
<td>Faculty of Architecture and Planning</td>
<td>59</td>
<td>2.02</td>
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<tr>
<td>Faculty of Arts and Social Sciences</td>
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<tr>
<td>Faculty of Computer Science</td>
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<td>4.68</td>
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<tr>
<td>Faculty of Dentistry</td>
<td>62</td>
<td>2.12</td>
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<tr>
<td>Faculty of Engineering</td>
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<td>8.67</td>
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<tr>
<td>Faculty of Graduate Studies</td>
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<td>2.90</td>
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<tr>
<td>Faculty of Health</td>
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<tr>
<td>Faculty of Law</td>
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<td>2.12</td>
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<tr>
<td>Faculty of Management</td>
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<td>6.11</td>
</tr>
<tr>
<td>Faculty of Medicine</td>
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<td>16.67</td>
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<td>Financial Services</td>
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<tr>
<td>Human Resources</td>
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<td>Information Technology Services</td>
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<tr>
<td>Legal &amp; Internal Audit Services</td>
<td>3</td>
<td>0.10</td>
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<tr>
<td>Office of Advancement</td>
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<td>0.34</td>
</tr>
<tr>
<td>President's &amp; Provost's Offices</td>
<td>11</td>
<td>0.38</td>
</tr>
<tr>
<td>Registrar's Office</td>
<td>23</td>
<td>0.79</td>
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<tr>
<td>Service</td>
<td>Responded</td>
<td>Percentage</td>
</tr>
<tr>
<td>-------------------------------</td>
<td>-----------</td>
<td>------------</td>
</tr>
<tr>
<td>Research Services</td>
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<td>0.27</td>
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<tr>
<td>Student Services</td>
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<td>University Food Services</td>
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<tr>
<td>Not answered</td>
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</tbody>
</table>

30. How did you hear about this survey? (choose all that apply)

*Note: percentages are individual and are not representative of total responses*

<table>
<thead>
<tr>
<th>Source</th>
<th>Responded</th>
<th>Percentage</th>
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</thead>
<tbody>
<tr>
<td>Faculty/departmental administrator</td>
<td>116</td>
<td>4.55</td>
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<tr>
<td>Office of sustainability website</td>
<td>18</td>
<td>0.71</td>
</tr>
<tr>
<td>LCD screen</td>
<td>12</td>
<td>0.47</td>
</tr>
<tr>
<td>Word of mouth</td>
<td>42</td>
<td>1.65</td>
</tr>
<tr>
<td>Direct email</td>
<td>2104</td>
<td>82.51</td>
</tr>
<tr>
<td>&quot;Today at Dal&quot;</td>
<td>99</td>
<td>3.88</td>
</tr>
<tr>
<td>&quot;My Dal announcement&quot;</td>
<td>131</td>
<td>5.14</td>
</tr>
<tr>
<td>Student society</td>
<td>29</td>
<td>1.14</td>
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<tr>
<td>Departmental newsletter</td>
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<tr>
<td>Facebook</td>
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<tr>
<td>Twitter</td>
<td>8</td>
<td>0.31</td>
</tr>
<tr>
<td>Other</td>
<td>54</td>
<td>2.12</td>
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</tbody>
</table>