University of Washington

2019 Transportation Survey
Final Report
March 2020

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Executive Summary

Overview

The U-PASS program, implemented at the University of Washington (UW) during Fall Quarter 1991, was developed to provide a range of commute options for the university population with the goal of decreasing the number of vehicles that travel to and from the campus. The U-PASS program offers a wide variety of services.

The University of Washington used a biennial survey to evaluate awareness of, use of, and satisfaction with the U-PASS program among university faculty, staff, and students. In 2015 the study was switched to an annual survey to gather information more frequently. Findings from the survey are also used to develop mode-split estimates as well as to meet the university's reporting requirements under the Washington State Commute Trip Reduction (CTR) Law.

The 2019 survey was administered using both telephone and online methodologies. The research effort resulted in 1,714 completed interviews during the survey period: 620 students, 317 faculty members, and 777 staff.

Key Findings

Travel Behavior

On average UW students, faculty, and staff work or attend classes on campus just over four days a week.
- The average days on campus has remained essentially the same going back to 2012
- As in previous years, faculty are on campus the least number of days.

Table 1: Number of Days Spent on Campus

	All	Employees	Faculty	Staff	Students
None	4%	4%	7%	2%	5%
One	3%	2%	2%	1%	3%
Two	6%	4%	5%	3%	8%
Three	10%	11%	14%	9%	10%
Four	15%	18%	13%	20%	14%
Five	55%	56%	45%	61%	54%
Six	4%	5%	11%	3%	3%
Seven	3%	2%	3%	1%	3%
Mean	4.21	4.34	4.19	4.41	4.13
Weekdays Only					
	All	Employees	Faculty	Staff	Students
None	4%	4%	7%	2%	5%
One	3%	2%	3%	2%	3%
Two	7%	6%	6%	6%	9%
Three	11%	11%	14%	9%	10%
Four	15%	18%	15%	19%	14%
Five	59%	60%	56%	61%	59%
Mean—2019	4.07	4.15	3.96	4.24	4.03
Mean—2018	4.20	4.17	4.01	4.24	4.22
Mean—2017	4.36	4.28	4.30	4.27	4.40
Mean—2016	4.13	4.08	3.92	4.15	4.16
Mean—2015	4.28	4.30	4.11	4.39	4.27
Mean—2014	4.25	4.17	4.06	4.22	4.31

Source: Respondent Data (OverallWt) Base: All Respondents
CTR1 Which of the following days did you work/attend classes at the UW main campus or in the U-District? ("0" removed from base for mean calculation)

Based on the number of days respondents travelled to campus, UW employees and students make at least 312,989 trips to campus in a typical week (Monday through Sunday).

- Students account for 61%, staff 27%, and faculty 12% of all trips taken to campus in a typical week. This is proportionate to the distribution of students, staff and faculty across campus.

Nearly all (97%) trips are made during the week (Monday through Friday).

- Over half (53%) of all weekday trips have an estimated arrival time on campus during peak commute hours of 6:00 and 9:00 a.m.

For weekday trips (Monday through Friday), transit accounts for over twice as many trips as driving alone (transit n=140,477 vs. drive alone n=56,895).

- Transit trips continue to be the most common weekday commute mode among students and staff.
  - However, faculty continue to be more likely to drive alone than take transit.
- Two-in-five trips made by students are walking trips. This is about the same as the percent of students who live within a mile of campus.

Mode Share

Figure 1: Mode Share of Trips Taken to Campus Monday through Friday

	Transit	Walk	Drive Alone	Bike	Carpool / Vanpool
All Respondents	44.9%	26.2%	18.2%	4.5%	2.7%
Employees	44.5%	4.9%	36.0%	6.9%	4.9%
Faculty	36.4%	7.2%	40.4%	9.6%	4.2%
Staff	48.0%	3.9%	34.2%	5.8%	5.2%
Students	45.1%	39.8%	6.8%	3.0%	1.3%

*Source: **Trip Data**—Trips take Monday through Friday Base: All respondents (**OverallWt**)*
Percentages are based on total weekday trips to campus and in those instances where multiple modes were reported for a single trip (in the case of linked trips) reflect the mode used for the longest portion of the trip. (Excludes Telecommute)

After remaining steady over the past few years, there has been a notable increase in transit trips.

Table 2: Percent of Transit and Drive-Alone Trips 2008—2019

		2008	2010	2012	2014	2015	2016	2017	2018	2019
Transit	**Faculty**	23%	25%	25%	27%	24%	35%	36%	32%	36%
	Staff	45%	44%	43%	43%	40%	44%	43%	42%	48%
	Students	39%	43%	46%	42%	38%	40%	43%	40%	45%
Drive Alone	**Faculty**	47%	44%	43%	45%	45%	32%	36%	39%	40%
	Staff	34%	33%	33%	32%	36%	36%	37%	35%	34%
	Students	12%	10%	7%	7%	9%	6%	6%	8%	7%

*2012-2019 Source: **Trip Data**—Trips taken Monday through Friday (**OverallWt**)*
*Percentages are based on total **weekday** trips **to** campus (Monday – Friday) and in those instances where multiple modes were reported for a single trip (in the case of linked trips) reflect the mode used for the longest portion of the trip.*
Mode split numbers from 2002 to 2010 were pulled from previous reports. See Appendix II for reference information

Transit Access and Use

Nearly all UW faculty, staff, and students have access to public transportation services that would get them from their home to the UW campus.

- Fifty-two percent (52%) claim to have direct service from their home to the UW—up slightly from 2017 (43%).
  - Direct service is defined as having no need to transfer or use a park-and-ride lot.
  - Faculty and students continue to be the most likely group to have direct service to campus.

Table 3: Transit Availability

		Total	All Employees	Faculty	Staff	Student
Among those who do NOT live on campus	No Service	8%	6%	7%	5%	10%
	Direct service	52%	46%	60%	40%	57%
	Service with Transfer	26%	31%	27%	33%	22%
	Service via park-and-ride	13%	17%	7%	21%	11%

Source: **Respondent Data** (*OverallWt*) Base: All Respondents
GT3: Which of the following best describes the bus or rail service available from where you live to the UW?

Generally speaking, transit service meets needs and expectations.

- Ratings of service are significantly higher for cost.
- Ratings are lowest regarding frequency of service.

Table 4: Transit Ratings

	Frequency of Service	Number of Transfers Required	Travel Time	Cost	Reliability (on-time)	Perception of Safety	Availability of Seats	Time of Day Available
Exceeds Needs and Expectations	7%	9%	2%	29%	8%	14%	9%	9%
Meets Needs and Expectations	60%	55%	44%	60%	59%	69%	64%	56%
Does Not Meet Needs and Expectations	33%	36%	53%	11%	33%	17%	27%	35%

Source: **Respondent Data** (*OverallWt*) Base: All Respondents
GT4: How well does the transit service from where you live to the UW meet your needs and expectations for each of the following?

The percent of respondents riding Metro in any given week has remained relatively steady from 2017 thru 2019.

Table 5: Transit Use

	All Respondents / % who have use Transit			Average # of one-way trips on Metro - All Respondents			Average # of one-way trip on Metro - Those Who Have Ridden Metro in the Past 7 days		
	2017	**2018**	**2019**	**2017**	**2018**	**2019**	**2017**	**2018**	**2019**
All	71%	73%	73%	3.81	3.67	3.91	6.89	6.63	7.26
Employees	61%	65%	65%	2.94	2.86	3.16	6.85	6.02	6.96
Faculty	57%	63%	62%	3.03	2.31	3.08	7.12	5.13	7.12
Staff	63%	66%	66%	2.90	3.13	3.20	6.72	6.42	6.90
Students	78%	79%	79%	4.37	4.23	4.38	6.91	6.96	7.40

TRANSIT1 Thinking about all of your travel over the past 7 days, how many one-way trips did you take on each of the following transit systems?
Source: **Respondent Data** Base: All Respondents (*OverallWt*)

U-PASS Access and Satisfaction

The 2019 survey included a variable to indicate staff that receive a U-PASS as part of a collective bargaining agreement. For purposes of this report, this group has been lumped into the percent with a valid U-PASS. This explains the large jump in the percent of staff with a U-PASS between 2018 and 2019.

Figure 2: Percent of UW Students, Faculty, and Staff with a Valid U-PASS

	2008	2010	2012	2014	2015	2016	2017	2018	2019
All	81%	67%	84%	85%	84%	85%	83%	83%	87%
Faculty	59%	52%	53%	52%	58%	53%	54%	55%	57%
Staff	76%	71%	69%	70%	68%	70%	63%	65%	82%
Students	87%	69%	97%	97%	97%	98%	97%	98%	96%
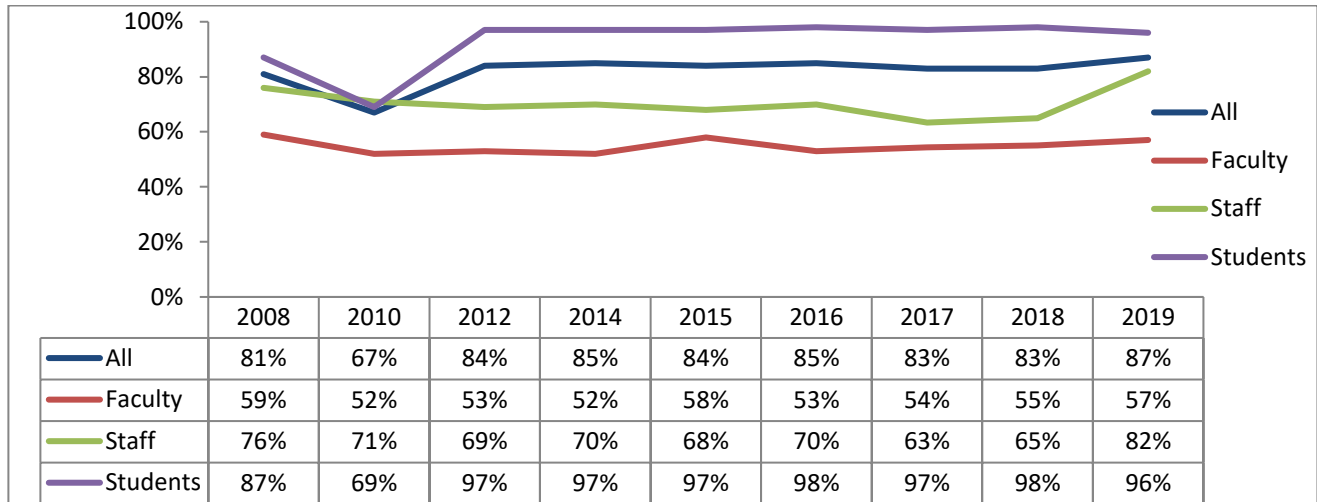
Source: Respondent Data (OverallWt) Base: All Respondents

Background and Methodology

Study Background

The University of Washington (UW) represents a major destination for commuters (faculty, staff, and students). In 1991, the university launched the U-PASS program to provide a range of commute options for the university population with the goal of decreasing the number of vehicles that travel to and from the campus. The U-PASS program offers a wide variety of services including full bus fare on King County Metro Transit, Pierce Transit, Everett Transit, Kitsap Transit, Community Transit, and Sound Transit. It also covers full fare on the Sounder Commuter Train and the Link Light Rail. U-PASS members have free use of the NightRide Shuttle and they receive merchant discounts, discounted carpool parking, and subsidized vanpool fares. The U-PASS program provides university employees who are U-PASS members with an emergency ride home service. The University of Washington offers bicycle facilities and ride match services for carpooling and vanpooling to the entire UW community whether or not they have a U-PASS.

Since 1991, UW and King County Metro have collaborated on a biennial study to evaluate awareness of, use of, and satisfaction with the U-PASS program among university students, staff, and faculty and to develop ridership factors for use in transit contracts. In 2014, UW conducted the study independently as the survey is no longer relied on for major factors in the university's transit contract and switched to an annual survey.

Findings from the survey are also used to meet the university's reporting requirements under the Washington State Commute Trip Reduction (CTR) Law.

Methodology

The study began in 1991 as a telephone survey. In 2002, an online survey component was added to the methodology. Sampled faculty, staff, and students were sent an e-mail invitation asking them to complete the survey online. Non-responders to the invitation were contacted by phone. The survey instrument has remained similar over the years, with minor changes to address changes to programs and services or new priorities.

The basic methodology was retained:

- The UW provided Northwest Research Group with a current sample of all UW faculty, staff, and students.
- Northwest Research Group drew a random sample from within each segment to achieve the desired number of completed surveys (assuming an overall response rate of 50%).
- All those sampled with an e-mail address were sent an e-mail from the UW inviting them to complete the survey online.
- Those with an e-mail address that did not respond were contacted by phone.
- Phone contacts were continued until the minimum response rate (50%) was achieved.
- All those without an e-mail address were contacted by telephone.
- A $5 coffee card was offered as an incentive for all respondents who participated online.

The survey instrument is similar to the one used since 2014, 2016 and 2017. Several cuts were made for the 2015 survey then re-introduced in 2016. For this reason, there are several places where 2015 data are not available for trending. In 2018 the screener was removed and respondent "type" (student, faculty or staff) was determined solely by UW assignment. New questions were added to address the growing popularity of e-assist travel modes (e.g. e-bikes), ride/car share, and the Kitsap Fast Ferry.

The survey averaged 14.0 minutes and was slightly longer for those completing via phone (15 minutes) compared to those completing online (14 minutes).

Extensive outreach was used to increase response rates including:
- Pre-notification and reminders emails were sent from sent from UW Transportation Services to students, faculty, and staff who were selected to take the survey.
- Incentives were offered to those who completed the survey online. This substantially raised the online response rate and was vital in achieving the required 50% employee response rate.

The UW provided a list of 68,721 faculty, staff, and students. Northwest Research Group removed people who responded in 2018 then drew a random sample within each group to achieve the required number of completed interviews.

Table 6: Sample Plan

	Total	Employees	Faculty	Staff	Students
Original Plan	1,625	1,025	325	700	600
Final Sample	1,714	1,094	317	777	620

To qualify, those contacted were required to meet the following criteria:

- Enrolled as a student for Fall Quarter 2018 or employed as faculty or staff.
- Working or attending classes on the UW campus or in a UW owned or leased building in the University District.

Data collection was completed between November 19, 2019 and February 15, 2020.

- Holiday schedules: Data collection is stopped during holidays as these time frames cause disruption in normal travel.
  - Data collection was paused from November 26 through December 9 for the Thanksgiving break.
  - Data collection was paused from December 17, 2019 thru January 14, 2020 for the winter break.

An overall response rate of 48% was achieved—Similar to 2016 and later.

- Ninety-four (94%) of all surveys were completed online—similar to 2016 and later.

Table 7: Response Rates Trended

	2014	2015	2016	2017	2018	2019
Total	38%	38%	48%	49%	48%	48%
Employees	56%	39%	53%	53%	52%	52%
Faculty	61%	48%	58%	46%	42%	42%
Staff	25%	37%	41%	56%	56%	56%
Students	42%	24%	44%	43%	43%	43%

Table 8: Sample Plan and Response Rates

	Total	Employees	Faculty	Staff	Students
Number in Sample Frame	68,721	25,965	11,289	14,676	42,756
Number of Sample Elements Selected	3,752	2,252	750	1,502	1,500
Total Disqualified*	197	133	63	70	64
Number of Qualified Respondents	3,555	2,119	687	1,432	1,436
Total Number of Completed Surveys	1,714	1,094	317	777	620
Online	1,613	1,090	313	777	523
Phone	101	4	4	0	97
Response Rate	48%	52%	42%	56%	43%

* *Respondents disqualified or opted out via e-mail or phone because they were not currently enrolled as a student or employed as a faculty or staff member or they did not work or attend classes on the UW campus or in a UW owned or leased building in the University District.*

To ensure the ability to analyze results within the key subgroups (faculty, staff, and students) and to meet CTR requirements, faculty and staff were oversampled relative to their overall incidence in the UW population. Weighting was applied so that the total responses accurately reflect the UW population as sampled (see Appendix I). Weights are calculated by dividing the population proportion for each group by the proportion of interviews for each group. The population numbers used for weighting were provided by the University of Washington after data collection had finished and thus differ from the population numbers provided for sampling.

Table 9: Weighting

	Population	Percent of Population	Completed Interviews	Percent of Completed Interviews	Weight
Total	76,968	100.00%	1,717	100.00%	
Students	47,571	61.81%	621	36.17%	1.708876881
Faculty	9,395	12.21%	318	18.52%	0.6590672902
Staff	20,002	25.99%	778	45.31%	0.5735270679

In addition, an ExpansionWt was computed in order to project some data (e.g., **Trip Data**) to the total population.

Table 10: ExpansionWt

	Completed Interviews	Weight	Population
Total	1717	n.a.	76,968
Students	621	76.60386473	47,571
Faculty	318	29.5440251572	9,395
Staff	778	25.7095115681	20,002

Table 11: Final Sample Size

Group	Obtained	Weighted	Margin of Error* 95% Confidence Level
Total	29,397	100.00%	+/-2.25%
Students	9,395	31.96%	+/-3.81%
Faculty	20,002	68.04%	+/-5.70%
Staff	29,397	100.00%	+/-3.38%
Margin of error is computed based on obtained sample sizes.			

All work was completed according to ISO 20252—Market Research Standards. ISO 20252 establishes globally recognized terms, definitions, and service requirements for project management in research organizations. Processes outlined in ISO 20252 are designed to produce transparent, consistent, well-documented, and error-free methods for conducting and managing research projects.

Methodological Improvements Made in 2018 and 2019 Suggestions

While the methodology remained the same (email with phone follow-up), it was decided in 2018 to use a UW owned email alias for all email communications to respondents. The email address, surveyts@uw.edu, was used for the initial invitation and reminders. Use of the UW owned email alias was a great success with overall improvements to response rates and fewer questions about survey validity.

It is recommended that the same approach be used in for future surveys. Another possible improvement for consideration is to create a UW owned "vanity URL" and have that URL redirect to the survey server. For example, the URL could be http://Surveyts.UW.edu. Respondents would see that URL in the communications, recognize that it is a UW owned domain and it could further legitimize the study in the eyes of the respondents.

Analysis and Reporting Conventions

Data

Two types of data resulted from this research.

1. The first is the **Respondent Data** file, which includes responses to all questions for each respondent. Each respondent represents a line of data. When using this data, results are reported as the percentage of respondents who gave the response. For example, "nearly all faculty members have access to a vehicle and nearly half have a bicycle".

2. The second data file is the **Trip Data** and provides information on the commute trip to campus each respondent took for each day travelled in the past week. Each trip represents a line of data. When using this data, results are reported as the percentage of trips having a specific characteristic. For example, "less than half of the trips reported have an arrival time on campus between peak commute hours of 6:00 and 9:00 a.m.".

The footnote in each table identifies which type of data is being reported (designated as **Respondent Data** or **Trip Data**).

Reporting Conventions

The following notes describe the reporting conventions used in this report.

- The report is organized by major topic area. Tables and charts provide supporting data.

- Information about the overall results for each topic area is generally reported first, followed by relevant, statistically and practically significant differences between years and/or key subgroups. The probability level for determining statistical significance is less than .05 (unless otherwise noted). When testing for significant associations and/or differences between groups in the base, unweighted sample sizes should be used. When significant differences (assuming a 95 percent confidence level) were observed, they are noted in the written text of the report and bold-faced and notated in the accompanying tables.

- Except where noted, tables and charts provide information from respondents who offered a valid opinion to a question. "Don't know" and "Refused" are counted as missing values unless "Don't know" is a valid or meaningful response.

- In most charts and tables, unless otherwise noted, column percent is used. Percent is rounded to the nearest whole number. Some columns may sum to more or less than 100% due to rounding, the permissibility of multiple responses for specific questions, or based on presentation of abbreviated data.

- Comparisons with research from prior years are provided where appropriate.

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Respondent Characteristics

Demographics

Faculty:
- All are 25 or older.
- Four out of five have access to a car or truck and 35% have access to a bicycle.

Staff:
- Significantly more likely to be female.
- Over four out of five have access to a vehicle and one-quarter have access to a bicycle.

Students:
- While eight out of ten have a driver's license only half have a vehicle.
- Forty four percent do not have any personal mode of transportation available for their commute.

Table 12: Respondent Characteristics

		Total	All Employees	Faculty	Staff	Students
Gender	**Male**	38%	39%	48%	35%	38%
	Female	60%	60%	51%	64%	61%
Age	**16 to 17**	0%	0%	0%	0%	1%
	18 to 24	43%	3%	0%	4%	68%
	25 to 34	23%	23%	22%	23%	23%
	35 to 44	12%	24%	24%	24%	4%
	45 to 54	9%	21%	22%	21%	1%
	55 to 64	7%	17%	15%	18%	0%
	65 or older	7%	12%	16%	10%	3%
Valid Driver's License	**Yes**	88%	97%	98%	97%	83%

AGE: What is your age? GENDER: Are you male or female? LICENSE: Do you have a valid driver's license?
*Source: **Respondent Data** Base: All Respondents (**OverallWt**)*

		Total	All Employees	Faculty	Staff	Students
Available for Commute	**Car or truck**	62%	83%	81%	84%	46%
	Motorcycle/Moped	2%	2%	2%	3%	1%
	Bike / Skateboard	21%	27%	35%	24%	15%
	Electric Transportation*	1% *(n=17)*	1% *(n=10)*	1% *(n=2)*	1% *(n=8)*	1% *(n=7)*
	Nothing	30%	11%	11%	10%	44%

*GT5: Do you personally have any of the following regularly available for your commute? *such as e-bikes or power assist scooters*
*Source: **Respondent Data** Base: Respondents who commute (**OverallWt**)*

Table 13: Availability of Commute Transportation Options

	Vehicle			Bicycle			Electric Transportation	Nothing		
	2016	*2017*	*2018*	*2016*	*2017*	*2018*	*2018*	*2016*	*2017*	*2018*
All Employees	86%	84%	84%	32%	30%	28%	0% *(n=2)*	10%	11%	10%
Faculty	80%	77%	81%	46%	39%	37%	0% *(n=0)*	8%	15%	11%
Staff	88%	89%	86%	26%	25%	23%	0% *(n=2)*	10%	9%	10%
Students	48%	53%	52%	25%	25%	20%	0% *(n=2)*	40%	36%	39%

Residence

Proximity of Home to Campus

Half of respondents live within 5 miles of campus (this excludes those who live on campus).

- While eight in ten students live off-campus, they live close to campus with an average distance of 8 miles.
- Staff have the longest commute, averaging over 12 miles each-way.

Table 14: Student Housing Types

Student Living Situation	
UW housing, on campus	31%
UW housing, off campus	9%
A fraternity or sorority	10%
Non-UW housing	49%

GT1: Do you live in. . .
Source: Respondent Data   Base: Students (OverallWt)

Table 15: Distance from Home to Campus

	Total	All Employees	Faculty	Staff	Students
On Campus	10%	0%	0%	0%	17%
One mile or less	16%	3%	4%	2%	24%
1.01 up to 2 miles	10%	9%	15%	7%	11%
2.01 up to 5 miles	24%	32%	44%	26%	19%
5.01 up to 10 miles	13%	19%	19%	19%	8%
More than 10 miles	27%	37%	18%	46%	21%
Mean	9.1	10.7	7.0	12.4	8.0

Q5: How many miles is it from where you live to the UW main campus?
Source: Respondent Data   Base: All Respondents (OverallWt)

Overall, the median distance from campus has remained similar over the previous two years.

Table 16: Change in Commute Trip Lengths 2016–2018

	All Respondents			Faculty			Staff			Students		
	2017	**2018**	**2019**	**2017**	**2018**	**2019**	**2017**	**2018**	**2019**	**2017**	**2018**	**2019**
1 mile or less	29%	28%	26%	5%	5%	4%	2%	2%	2%	46%	45%	41%
1.01–5.0 miles	34%	32%	34%	58%	58%	59%	32%	37%	32%	29%	25%	30%
5.01–10.0 miles	13%	14%	13%	17%	21%	19%	21%	21%	19%	8%	9%	8%
> 10 miles	25%	25%	27%	20%	16%	18%	45%	40%	46%	17%	20%	21%
Median	3.7	3.9	4.5	4.3	4.3	4.2	5.0	4.9	9.5	3.2	3.3	3.0
Change in Median (2017-2019)	+0.8 miles			-0.1 miles			+4.5 miles			-.8 miles		

Source: Respondent Data (OverallWt) Base: All Respondents
GT1A: How many miles is it from where you live to the UW main campus?
Numbers may not sum to 100% due to rounding

Vehicle Ownership by Proximity to Campus

There is a clear relationship between vehicle access and distance to campus. Those living within two miles of campus are nearly half as likely as those who live more than two miles away to have a vehicle.

Table 17: Percent of Respondents with Vehicles by Distance from Home to Campus

	0.01 - 1 mile	1.01 - 2 miles	2.01 - 5 miles	5.01 - 10 miles	More than 10 miles
Total	23%	41%	69%	72%	81%
All Employees	57%	74%	78%	84%	92%
Faculty	62%	78%	79%	83%	93%
Staff	53%	71%	77%	84%	92%
Students	21%	24%	61%	56%	69%

GT1A: How many miles is it from where you live to the UW main campus? GT5: Do you have any of the following regularly available for your commute?
Source: Respondent Data   Base: All Respondents (OverallWt) Vehicle includes: Car, Truck, Motorcycle, Scooter

Impact of Commuting to UW on Household Location

Commute options is a major consideration for half of respondents, most notably among faculty.

Table 18: Housing Consideration by Type

	Total	All Employees	Faculty	Staff	Students
Not a consideration at all	19%	20%	12%	24%	19%
Somewhat of a consideration	33%	31%	27%	33%	35%
Major consideration	47%	48%	61%	42%	47%

GT2: To what extend did your options for commuting to the UW influence your choice of where you live?
Source: Respondent Data   Base: Respondents who do NOT live on campus (OverallWt)

Those choosing to live near campus are more likely to say that proximity to campus was a major influence in their choice of housing location. Six in ten (59%) UW commuters who live within 5 miles of campus suggest that proximity to campus was a major consideration in their choice of where to live as opposed to 33% who live more than 5 miles away.

Figure 3: Influence of Work Location on Proximity to Campus
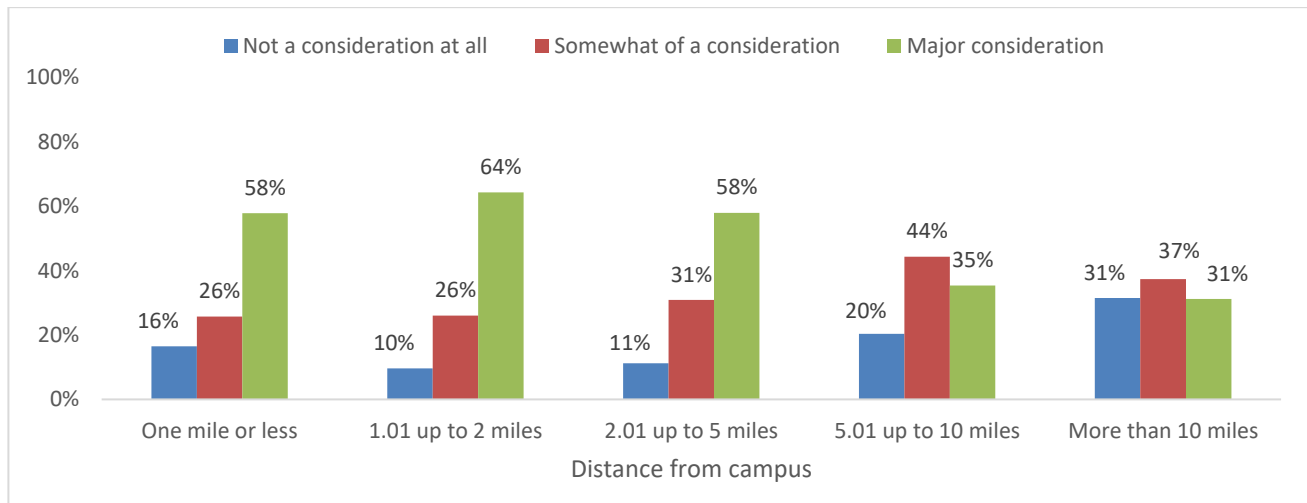
GT1A: How many miles is it from where you live to the UW main campus? GT2: To what extend did your options for commuting to the UW influence your choice of where you live? Source: Respondent Data   Base: Respondents who do NOT live on campus (OverallWt)

Access to Transit

Nearly all UW faculty, staff, and students have access to public transportation services that would get them from their home to the UW campus—over half have direct service to campus. Note, respondents who live on campus are excluded from this statistic.

Figure 4: Access to Transit from Home to UW—All Respondents

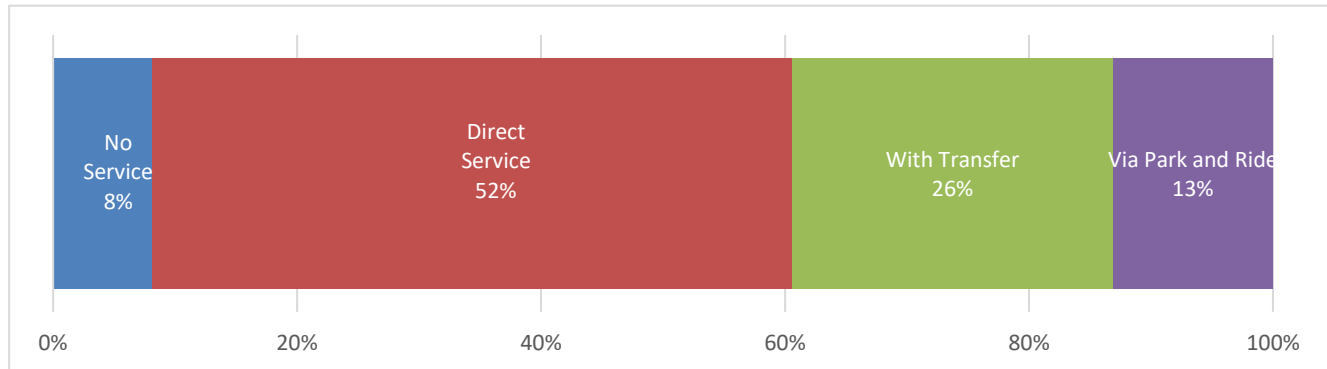GT3: *Which of the following best describes the bus or rail service available from where you live to the UW?*
Source: **Respondent Data** Base: **Respondents who do NOT live on campus** (*OverallWt*)

While nearly all staff have access to the UW by transit, they are less likely than faculty and students to have direct service. Among students who do not live on or near campus, 57% have direct transit service.

Table 19: Access to Transit from Home to UW for Those Who Do Not Live on Campus—by Type

		Total	All Employees	Faculty	Staff	Student
Among those who do NOT live on or near campus	No Service	8%	6%	7%	5%	10%
	Direct service	52%	46%	60%	40%	57%
	Service with Transfer	26%	31%	27%	33%	22%
	Service via park-and-ride	13%	17%	7%	21%	11%

GT3: *Which of the following best describes the bus or rail service available from where you live to the UW?*
Source: **Respondent Data** Base: **Respondents who do not live on campus** (*OverallWt*)

Generally speaking, transit service meets needs and expectations.

- Ratings of service are significantly higher for the number of transfers required and.
- Ratings are lowest regarding reliability and frequency of service.

Table 20: Transit Ratings Among Those Who Have Access to Transit

	Frequency of Service	Number of Transfers Required	Travel Time	Cost	Reliability (on-time)	Perception of Safety	Availability of Seats	Time of Day Available
Exceeds Needs and Expectations	7%	9%	2%	29%	8%	14%	9%	9%
Meets Needs and Expectations	60%	55%	44%	60%	59%	69%	64%	56%
Does Not Meet Needs and Expectations	33%	36%	53%	11%	33%	17%	27%	35%

GT4: *How well does the transit service from where you live to the UW meet your needs and expectations for each of the following?*
Source: **Respondent Data** Base: Respondents with Access to Transit (*OverallWt*)

Those with direct service provide significantly higher ratings than do those who must transfer and, to a lesser extent, those who use a park-and-ride lot.

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Figure 5: Ratings of Transit Service from Home to UW by Type of Service Available

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Date: March 2020
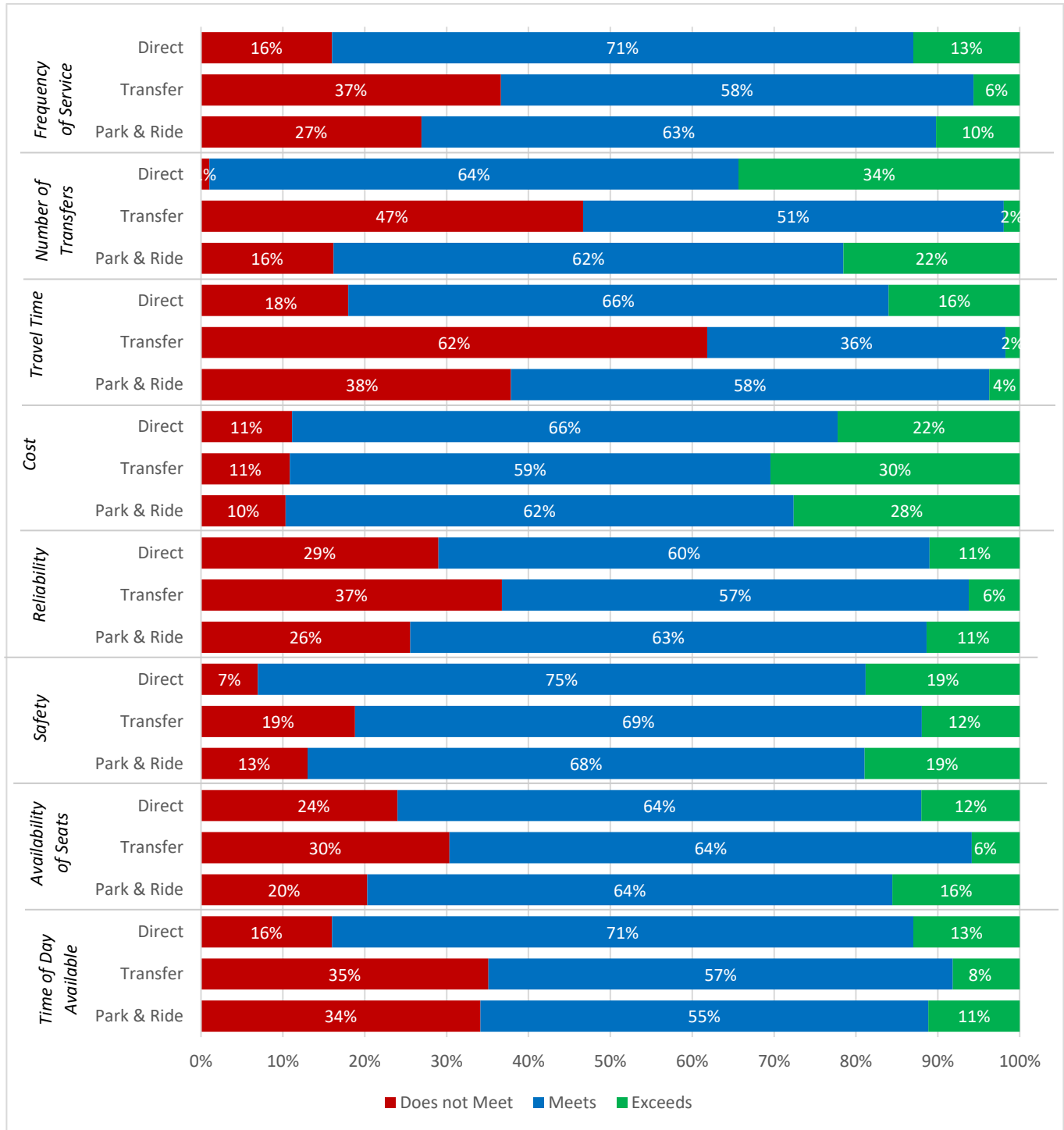
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Detailed Findings—Travel Behavior

Prior 7 Days of Travel

Beginning in 2012, the U-PASS survey instrument was changed to be more consistent with the data gathered by Washington State's Commute Trip Reduction surveys—that is, respondents were asked to record data for commute trips taken over the previous 7 days rather than weekdays only as in the past. In addition, the web survey technology had respondents start with the day of the survey (if completing after 5:00 p.m. on that day) or the day immediately prior to the day of the survey. Respondents then recorded data for the previous 7 days starting with the most recent day, as shown below.

CTR1   Over the past week, which of the following days did you **physically** [work / attend classes] at the UW main campus or in the U District?

SUNDAY	MONDAY	TUESDAY	WEDNESAY	THURSDAY	FRIDAY	SATURDAY	I did not commute to UW or the University district during the past week [MUTUALLY EXCLUSIVE]
○	○	○	○	○	○	○	○

Subsequent questions asked for arrival and departure times. Initially, programming checks ensured that departure times were later than arrival times. However, several e-mails were received from staff who work graveyard shifts at the UW Medical Center. To accommodate these participants, start/end time checks were removed.

CTR2   What time did you **arrive** on campus on each of the days below? Enter the time and then check AM or PM *(e.g. If you arrive on campus at 8:30 a.m., then input Hour: 8 and MINUTES: 30 then check AM).*

     (Your best estimate is fine.)

	SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
ENTER TIME	__:__	__:__	__:__	__:__	__:__	__:__	__:__
A.M.	○	○	○	○	○	○	○
P.M.	○	○	○	○	○	○	○

     PRE SKIP: IF CTR1 = 8 (DID NOT COMMUTE) SKIIP TO NEXT QUESTION
     SHOW ONLY DAYS SELECTED IN CTR1

CTR3   What time did you **leave** campus on each of the days below? Enter the time and then check AM or PM *(e.g. If you leave campus at 5:00 p.m., then input Hour: 5 and MINUTES: 00 then check PM).*

     (Your best estimate is fine.)

	SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
ENTER TIME	__:__	__:__	__:__	__:__	__:__	__:__	__:__
A.M.	○	○	○	○	○	○	○
P.M.	○	○	○	○	○	○	○

Number of Days on Campus

On average UW students, faculty, and staff work or attend classes on campus just over four days a week.

- The average days on campus has remained essentially the same going back to 2012
- As in previous years, faculty are on campus the least number of days.

Table 21: Number of Days on Campus

	All	Employees	Faculty	Staff	Students
None	4%	4%	7%	2%	5%
One	3%	2%	2%	1%	3%
Two	6%	4%	5%	3%	8%
Three	10%	11%	14%	9%	10%
Four	15%	18%	13%	20%	14%
Five	55%	56%	45%	61%	54%
Six	4%	5%	11%	3%	3%
Seven	3%	2%	3%	1%	3%
Mean	4.21	4.34	4.19	4.41	4.13
Weekdays Only					
	All	Employees	Faculty	Staff	Students
None	4%	4%	7%	2%	5%
One	3%	2%	3%	2%	3%
Two	7%	6%	6%	6%	9%
Three	11%	11%	14%	9%	10%
Four	15%	18%	15%	19%	14%
Five	59%	60%	56%	61%	59%
Mean—2019	4.07	4.15	3.96	4.24	4.03
Mean—2018	4.20	4.17	4.01	4.24	4.22
Mean—2017	4.36	4.28	4.30	4.27	4.40
Mean—2016	4.13	4.08	3.92	4.15	4.16
Mean—2015	4.28	4.30	4.11	4.39	4.27
Mean—2014	4.25	4.17	4.06	4.22	4.31

CTR1: Which of the following day did you work/attend classes at the UW main campus or in the U-District? ("0" removed from base)
Source: Respondent Data Base: All Respondents (OverallWt)

Total Number of Commute Trips to Campus

Based on the number of days respondents travelled to campus, UW employees and students make at least 312,989 trips to campus in a typical week (Monday through Sunday).

- Students account for 61%, staff 27%, and faculty 12% of all trips taken to campus in a typical week.

Nearly all (97%) trips are made during the week (Monday through Friday).

Table 22: Total Number of Trips to Campus

		All	Employees	Faculty	Staff	Students
Total Weekly Trips to Campus	Respondent Trips	7,218	2,841	875	1,967	4,376
	Population Trips	323,545	127,363	39,205	88,158	196,182
Total Weekday Trips to Campus	Respondent Trips	6,982	2,715	826	1,889	4,267
	Population Trips	312,989	121,710	37,048	84,661	191,280
Weekday Trips as a Percentage of Total Weekly Trips		97%	96%	94%	96%	98%

Source: Trip Data (OverallWt) and (ExpansionWt)
Base: All Respondents (excludes telecommute)

Arrival Times on Campus

Over half (53%) of all weekday trips have an estimated arrival time on campus during peak commute hours of 6:00 and 9:00 a.m.

- Trips taken by UW staff are significantly more likely than those taken by faculty or students to have arrival times during the peak period.

The majority of arrival trips during the peak morning commute time occur between 8:00 and 9:00

- This is most notable for trips taken by employees.

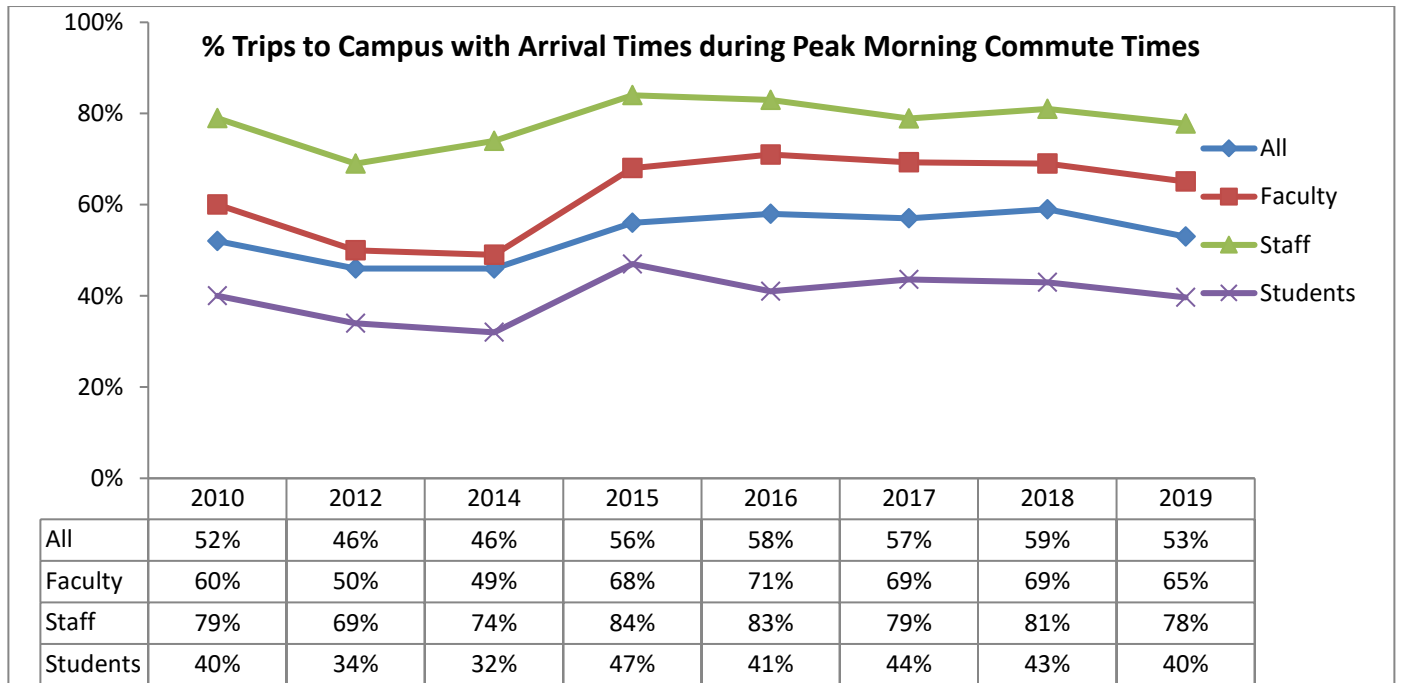*Table 23: Number and Percentage of Weekday Trips Arriving on Campus during Morning Peak Commute Hours*

		All	Employees	Faculty	Staff	Students
Arrive before 6:00 a.m.	Respondent Trips	270	92	20	72	178
	Population Trips	12,096	4,130	916	3,214	7,967
	% of Arrivals	4%	3%	2%	4%	4%
Net Arrive 6:00 a.m. to 9:00 a.m.	**Respondent Trips**	**3,700**	**2,007**	**538**	**1,469**	**1,693**
	Population Trips	**165,864**	**89,950**	**24,108**	**65,842**	**75,914**
	% of Arrivals	**53%**	**74%**	**65%**	**78%**	**40%**
Arrive 6:00 a.m. to 6:59 a.m.	*Respondent Trips*	*321*	*292*	*55*	*237*	*29*
	Population Trips	*14,398*	*13,096*	*2,452*	*10,644*	*1,302*
	% of Arrivals	*5%*	*11%*	*7%*	*13%*	*1%*
Arrive 7:00 a.m. to 7:59 a.m.	*Respondent Trips*	*752*	*559*	*136*	*423*	*193*
	Population Trips	*33,716*	*25,060*	*6,086*	*18,974*	*8,656*
	% of Arrivals	*11%*	*21%*	*16%*	*22%*	*5%*
Arrive 8:00 a.m. to 9:00 a.m.	*Respondent Trips*	*2,627*	*1,155*	*347*	*808*	*1,471*
	Population Trips	*117,750*	*51,794*	*15,570*	*36,225*	*65,956*
	% of Arrivals	*38%*	*43%*	*42%*	*43%*	*34%*
Arrive 9:01 a.m. to 9:59 a.m.	Respondent Trips	851	249	96	153	602
	Population Trips	38,142	11,178	4,313	6,864	26,965
	% of Arrivals	12%	9%	12%	8%	14%
Arrive 10:00 a.m. and later	Respondent Trips	2,161	367	172	195	1,794
	Population Trips	96,886	16,452	7,711	8,741	80,434
	% of Arrivals	31%	14%	21%	10%	42%

Source: **Trip Data** (*OverallWt*) and (*ExpansionWt*)

Base: All respondents

CTR2: What time did you arrive and depart campus on these days? (Monday–Friday)
   Percentage is based on number of trips arriving on campus during specified time periods.

Over half (53%) of all weekday trips to campus arrive during peak commute hours between 6:00 a.m. and 9:00 a.m.

- The percentage of trips taken by UW faculty, staff, and students that have arrival times on campus during peak morning commute times has remained consistent since 2015.
- Prior to 2015, this chart included from 6:00 a.m. to 8:59 a.m. Beginning in 2015, the chart included 9:00 a.m. in the calculation for peak morning commute times. This difference in calculation explains the large jump in the percent of trips.

Figure 6: Trends in Percentage of Trips to Campus with Arrival Times during Peak Morning Commute Times

% Trips to Campus with Arrival Times during Peak Morning Commute Times

	2010	2012	2014	2015	2016	2017	2018	2019
All	52%	46%	46%	56%	58%	57%	59%	53%
Faculty	60%	50%	49%	68%	71%	69%	69%	65%
Staff	79%	69%	74%	84%	83%	79%	81%	78%
Students	40%	34%	32%	47%	41%	44%	43%	40%

Source: Trip Data (OverallWt) Base: All respondents
Peak morning commute is defined at 6:00 a.m. to 9:00 a.m.
CTR2:   What time did you arrive on campus on these days? (Monday–Friday)
Percentage is based on number of trips arriving during specified time periods.

Departure Time from Campus

The majority of weekday trips have a departure time during peak afternoon and evening commute hours (3:00 p.m. to 6:00 p.m.).

- A greater percentage of trips made by employees have departure times during peak afternoon and evening commute hours compared to students.

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Table 24: Number and Percentage of Weekday Trips Departing Campus during Afternoon and Evening Peak Commute Hours

|		All	Employees	Faculty	Staff	Students
Depart before 3:00 p.m.	Respondent Trips	1,464	254	69	185	1,210
	Population Trips	65,642	11,406	3,102	8,304	54,236
	% Departing	21%	9%	8%	10%	28%
Net Depart 3:00 p.m. to 6:00 p.m.	Respondent Trips	4,205	2,019	564	1,456	2,186
	Population Trips	188,487	90,511	25,260	65,251	97,976
	% Departing	60%	74%	68%	77%	51%
Depart 3:00 p.m. to 3:59 p.m.	*Respondent Trips*	*763*	*271*	*53*	*218*	*492*
	Population Trips	*34,195*	*12,133*	*2,364*	*9,770*	*22,062*
	% Departing	*11%*	*10%*	*6%*	*12%*	*12%*
Depart 4:00 p.m. to 4:59 p.m.	*Respondent Trips*	*1,177*	*626*	*121*	*506*	*550*
	Population Trips	*52,749*	*28,082*	*5,407*	*22,676*	*24,666*
	% Departing	*17%*	*23%*	*15%*	*27%*	*13%*
Depart 5:00 p.m. to 6:00 p.m.	*Respondent Trips*	*2,265*	*1,122*	*390*	*732*	*1,143*
	Population Trips	*101,543*	*50,295*	*17,490*	*32,805*	*51,248*
	% Departing	*32%*	*41%*	*47%*	*39%*	*27%*
Depart 6:01 p.m. to 6:59 p.m.	Respondent Trips	270	154	65	89	116
	Population Trips	12,119	6,910	2,925	3,985	5,209
	% Departing	4%	6%	8%	5%	3%
Depart 7:00 p.m. and later	Respondent Trips	1,043	287	129	159	755
	Population Trips	46,742	12,883	5,761	7,122	33,859
	% Departing	15%	11%	16%	8%	18%

*Source: **Trip Data** (OverallWt) and (ExpansionWt)*
Base: All respondents
CTR3: What time did you depart campus on these days? (Monday–Friday)
    Percentage is based on number of trips departing campus during specified time periods.

Arrival and Departure Times Combined

The table below shows the number of trips arriving on and departing from campus during each hour of the day.

Figure 7: Hourly Number of Arrivals and Departures
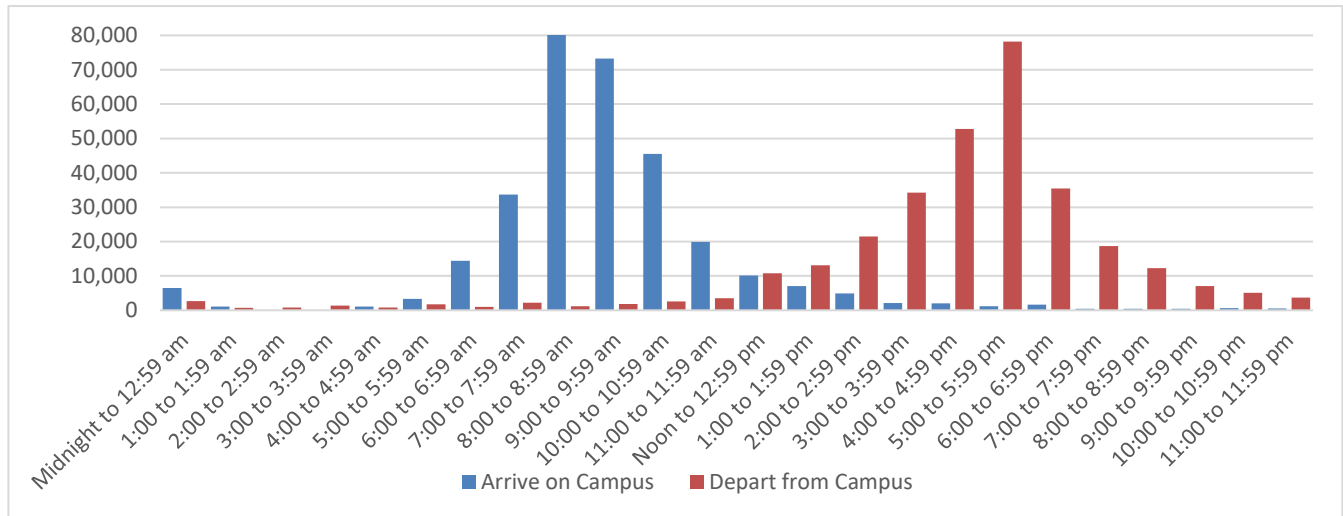
*Source: **Trip Data** (ExpansionWt)*
Base: All respondents
CTR2/CTR3:   What time did you arrive / depart campus on these days? (Monday–Friday)
Based on number of trips arriving/departing campus during specified time periods.
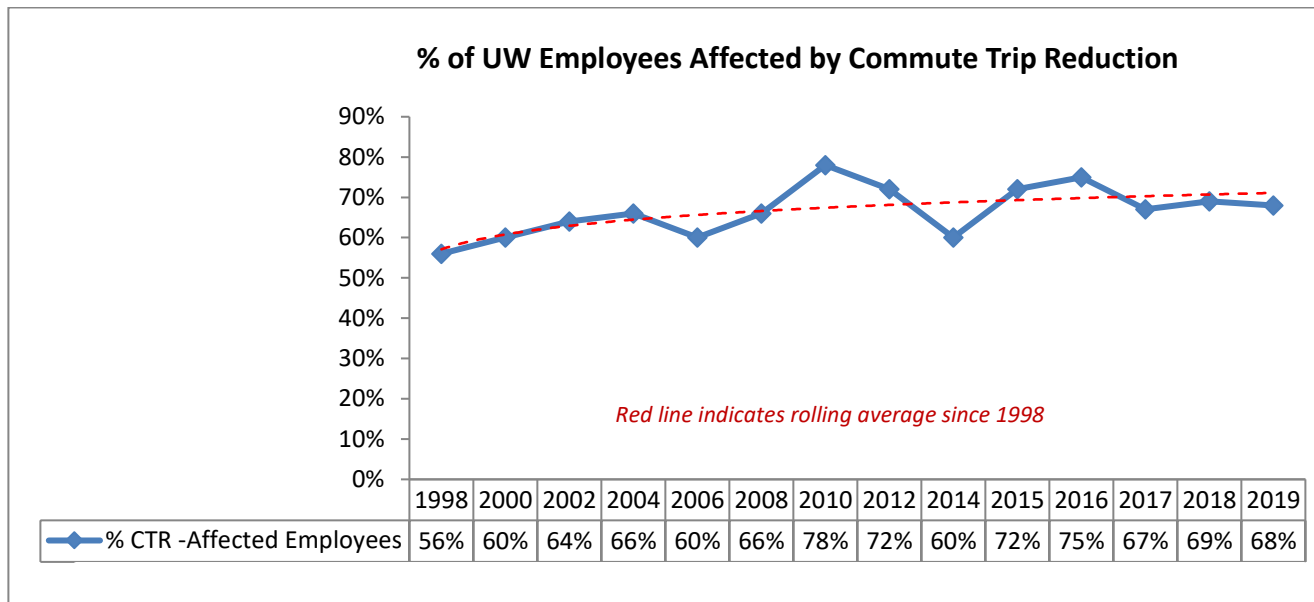
CTR-Affected Employees

Washington State's CTR law defines CTR-affected employees as regular, full-time employees who arrive at work between 6:00 and 9:00 a.m. at least two days during the Monday to Friday work week.

After increasing in 2015 and 2016 (possibly as a result in the change from 8:59 to 9:00 a.m.) the percent CTR-affected employees decreased in 2017 and remained similar since.

- Break outs by employee type are:
    - CTR Affected Faculty: 61%.
    - CTR Affected Staff: 71%.

Figure 8: Percentage of UW CTR-Affected Faculty / Staff

% of UW Employees Affected by Commute Trip Reduction

Red line indicates rolling average since 1998

	1998	2000	2002	2004	2006	2008	2010	2012	2014	2015	2016	2017	2018	2019
% CTR -Affected Employees	56%	60%	64%	66%	60%	66%	78%	72%	60%	72%	75%	67%	69%	68%

*Source: **Respondent Data**; (**EmployeeWt**)*
Base: All faculty and staff;
A CTR trip is defined as a trip taken by faculty or staff members Monday–Friday between 6 a.m. and 9 a.m.

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Commute Mode(s) Used

The Puget Sound metropolitan area offers a complex, multimodal transportation system. To better understand travel behavior, respondents were asked to describe what types of transportation they use to get from home to campus or the U-District. If the respondent used more than one mode, they were asked to enter each type used in the order of their trip, starting from where they live until they reached their destination, as illustrated below:

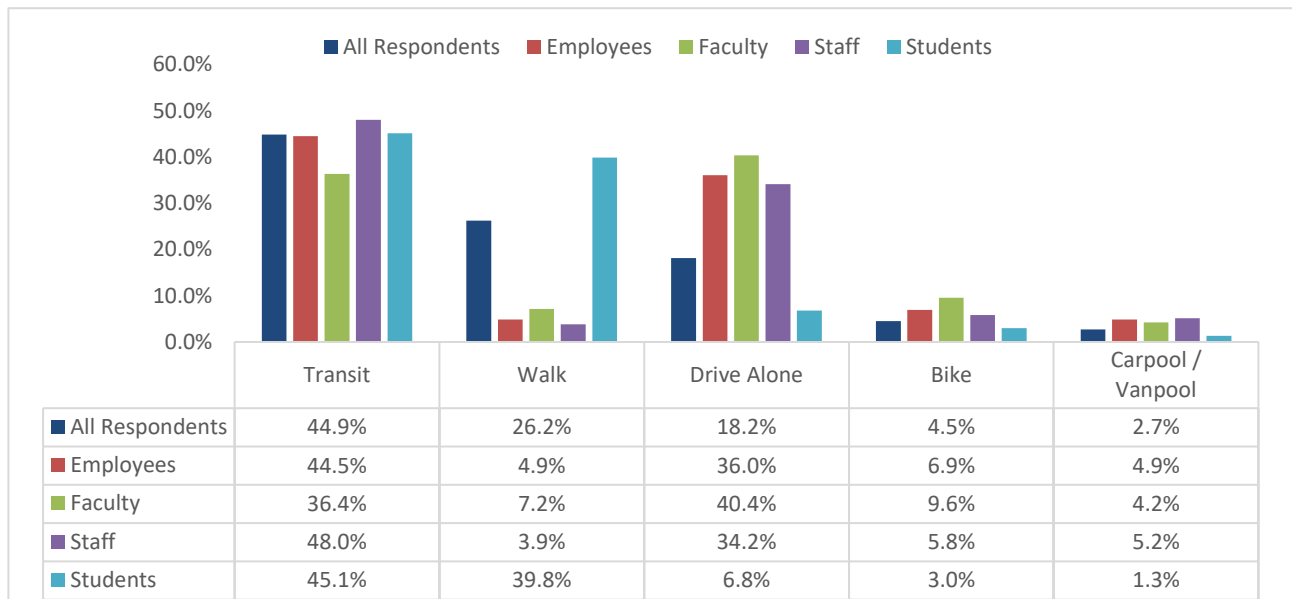| What type of transportation did you use for the **[first, second, etc.]** part of your commute to the UW? **[PHONE NOTATION]** (CLARIFY FROM THE LIST AS NEEDED. DO NOT READ LIST UNLESS RESPONDENT SAYS DON'T KNOW)	Leg 1	Leg 2...	Last Leg
Trip Finished **[SHOWN FOR LEG 2 AND ONWARDS]**		○	○
Drove alone (or with children under 16) **[ASK IF DRIVE ALONE]** Did you use a Car Share service such as Car2Go, Reach Now, or Zipcar? 00 No 01 Yes	○	○	○
Carpooled - includes ride-hailing services such as Uber, Lift, or Taxi (2 or more people) **[ASK IF CARPOOL]** Did you use a Ride-hailing service such as Uber, Lyft, or Taxi? 00 No 01 Yes **[ASK IF CARPOOL AND THEY DID NOT USE A RIDE SHARE SERVICE. IF USED RIDE SHARE THEN AUTOCODE THIS AS 00]** Did you use a Car Share service such as Car2Go, Reach Now, or Zipcar? 00 No 01 Yes	○	○	○
[ASK IF CARPOOL] Including yourself, how many people 16 and older were in the vehicle? **[IF THEY USED A RIDE SHARE SERVICE DISPLAY]** *Please do not include the driver of the Ride-hailing service.* **[REQUIRE A RESPONSE GE 1]**	___	___	___
Vanpooled	○	○	○
[ASK IF VANPOOL] Including yourself, how many people 16 and older were in your vanpool? **[REQUIRE A RESPONSE GE 1]**	___	___	___
Motorcycle / Moped / Scooter	○	○	○
[ASK IF MOTORCYCLE] Including yourself, how many people 16 and older were on the motorcycle/moped/scooter?" **[REQUIRE A RESPONSE GE 1]**	___	___	___
Bus	○	○	○
[ASK IF TOOK BUS] Which bus system did you ride? **[PHONE NOTATION]** (READ LIST IF NECESSARY)			
King County Metro	○	○	○
Sound Transit	○	○	○
Community Transit	○	○	○
Everett Transit	○	○	○
Pierce Transit	○	○	○
Kitsap Transit	○	○	○
Other bus system (**specify**)	○	○	○
[PHONE NOTATION: (DO NOT READ)] Bus System Unknown	99	99	99
Link Light Rail	○	○	○
[ASK IF USED LINK] At which station did you **board** the Link? **[PHONE NOTATION]** (READ LIST IF NECESSARY)			
Angle Lake Station	○	○	○
SeaTac Airport	○	○	○
Tukwila / International Blvd	○	○	○
Rainier Beach	○	○	○
Othello	○	○	○
Columbia City	○	○	○
Mount Baker	○	○	○
Beacon Hill	○	○	○
SODO	○	○	○
Stadium	○	○	○
International District / Chinatown	○	○	○
Pioneer Square	○	○	○
University Street	○	○	○
Westlake	○	○	○
Capitol Hill	○	○	○
University of Washington	○	○	○
[ASK IF USED LINK] At which station did you **get off** the Link? **[PHONE NOTATION]** (READ LIST IF NECESSARY)			
Angle Lake Station	○	○	○
SeaTac Airport	○	○	○
Tukwila / International Blvd	○	○	○
Rainier Beach	○	○	○
Othello	○	○	○
Columbia City	○	○	○
Mount Baker	○	○	○
Beacon Hill	○	○	○
SODO	○	○	○
Stadium	○	○	○
International District / Chinatown	○	○	○
Pioneer Square	○	○	○
University Street	○	○	○
Westlake	○	○	○
Capitol Hill	○	○	○
University of Washington	○	○	○
Seattle Streetcar	○	○	○
King County Water Taxi	○	○	○
Sounder Commuter Rail	○	○	○
Kitsap Fast Ferry	○	○	○
Washington State Ferries	○	○	○
Bicycled	○	○	○
Walked	○	○	○
Health Sciences Express Shuttle	○	○	○
[DO NOT DISPLAY FOR PHONE OR WEB] Telecommute		○	
Other (**please describe**) **[FORCE SPECIFY IF SELECTED]**	○	○	○

Those using more than one mode were asked a follow-up question to identify their primary mode, defined as the mode used for the longest part (based on miles traveled) of their trip. This allows for comparisons to previous years when respondents only provided a single mode.

Mode Share for Commute Trips to Campus

For weekday trips (Monday through Friday), transit accounts for over twice as many trips as driving alone (transit n=140,477 vs. drive alone n=56,895).

- Transit trips continue to be the most common weekday commute mode among students and staff.
  - However, faculty continue to be more likely to drive alone than take transit.
- Two-in-five trips made by students are walking trips. This is about the same as the percent of students who live within a mile of campus.

Figure 9: Mode Share for Commute Trips to Campus (Weekdays)

	Transit	Walk	Drive Alone	Bike	Carpool / Vanpool
All Respondents	44.9%	26.2%	18.2%	4.5%	2.7%
Employees	44.5%	4.9%	36.0%	6.9%	4.9%
Faculty	36.4%	7.2%	40.4%	9.6%	4.2%
Staff	48.0%	3.9%	34.2%	5.8%	5.2%
Students	45.1%	39.8%	6.8%	3.0%	1.3%

*Source: **Trip Data**—Trips take Monday through Friday Base: All respondents (**OverallWt**)*
*Percentages are based on total weekday trips **to** campus and in those instances where multiple modes were reported for a single trip (in the case of linked trips) reflect the mode used for the longest portion of the trip. (Excludes Telecommute)*

Number of Transportation Modes Used on Commute Trip from Home to Campus

Seven out of ten weekday trips are single-mode trips. This decreased from 2014 to 2018 where it hit a low of 60% of trips being single mode.

- Peaking in 2010, 84% of weekday trips consisted of a single mode.

- In 2014, 73% of weekday trips used a single mode.

- Trips made by faculty are significantly more likely than those made by staff to be single-mode trips.

Table 25: Number of Transportation Modes Used Per Commute Trip

	All	Employees	Faculty	Staff	Students
Monday through Friday					
% Single Mode	70%	69%	77%	66%	71%
Average # of Modes	1.44	1.44	1.32	1.49	1.44
Source: Trip Data (OverallWt)					
Base: All respondents					
Percent shown is percent of trips taken					

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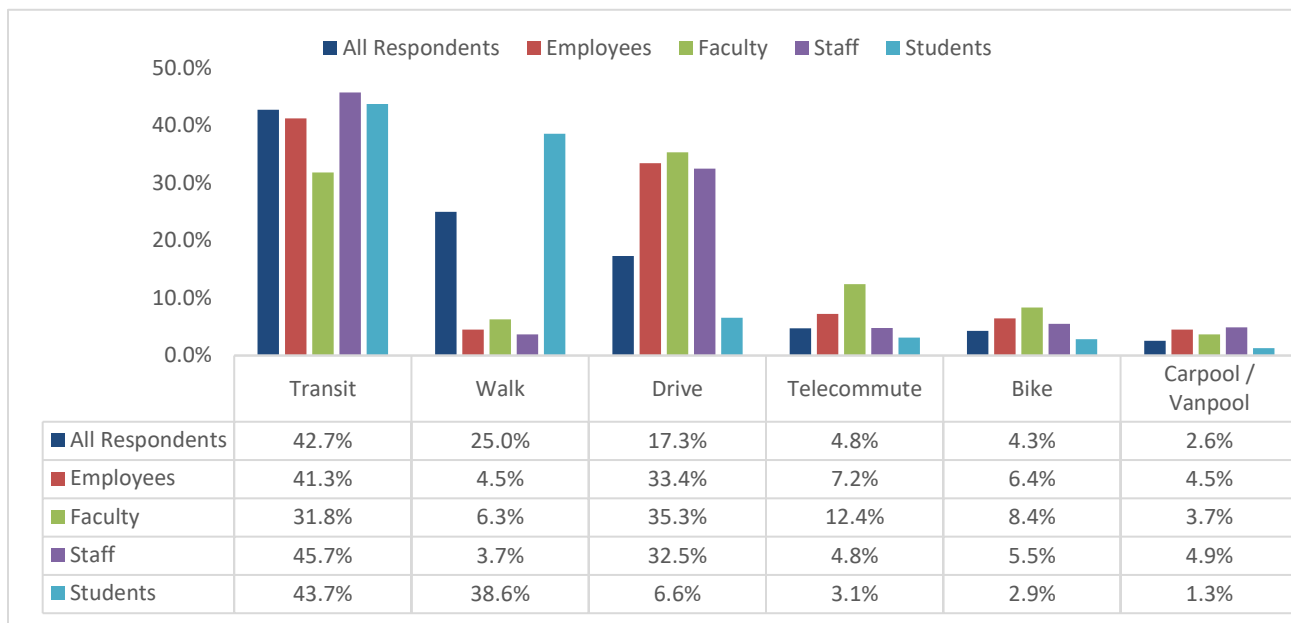
Details on Trips

Telecommuting

One out of 10 of respondents have telecommuted at least once in the past week.

- Telecommuters telecommute an average of 1.8 days per week.
- Faculty is significantly more likely to telecommute than other groups.

When taken into the trip count Telecommuting accounts for five percent (5%) of weekday trips to campus—accounting for 15,629 "trips".

Figure 10: Mode Share of Trips Taken to Campus Monday through Friday – Including Telecommute

	Transit	Walk	Drive	Telecommute	Bike	Carpool / Vanpool
All Respondents	42.7%	25.0%	17.3%	4.8%	4.3%	2.6%
Employees	41.3%	4.5%	33.4%	7.2%	6.4%	4.5%
Faculty	31.8%	6.3%	35.3%	12.4%	8.4%	3.7%
Staff	45.7%	3.7%	32.5%	4.8%	5.5%	4.9%
Students	43.7%	38.6%	6.6%	3.1%	2.9%	1.3%

*Source: **Trip Data**—Trips take Monday through Friday Base: All respondents (**OverallWt**) INCLUDES TELECOMMUTERS*
*Percentages are based on total weekday trips **to** campus and in those instances where multiple modes were reported for a single trip (in the case of linked trips) reflect the mode used for the longest portion of the trip.*

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Bicycling

Five percent (5%) or a total of 14,124 commute trips per week are primarily bicycle trips. An additional 1% of trips use a bicycle as part of the trip in conjunction with another mode that is their primary mode (longest distance).

On average, bicycle commuters ride just over four miles as part of their commute.

- Students have the shortest bike commute and staff have the longest.

Figure 11: Percent of Trips Using Bicycle for Some / All of the Trip
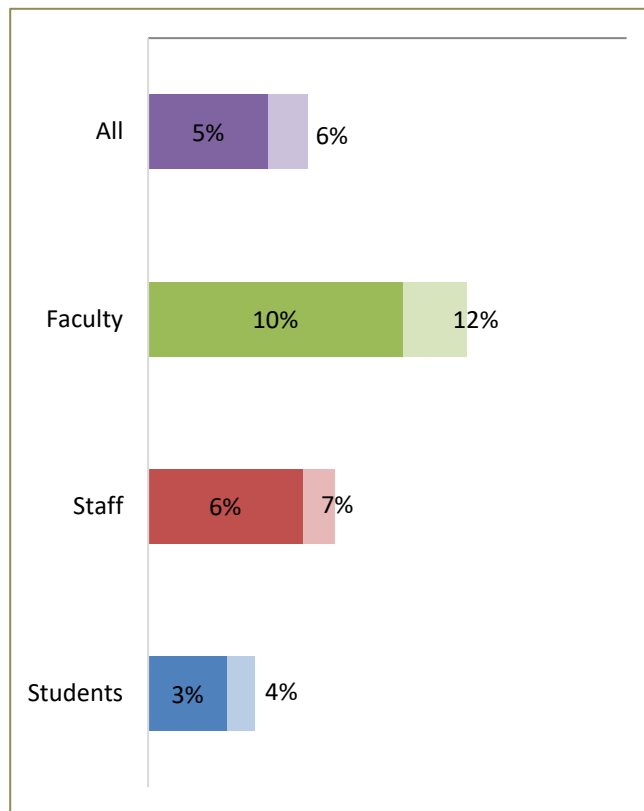
*Source: **Trip Data** (OverallWt) Base: All respondents*
Darker color indicates percentage of respondents who biked for their entire trip
Lighter color indicates percentage of respondents who biked for all or part of their trip (Monday thru Friday)

Table 26: Riding Distance for Cyclists

	<2 miles	2 < 3 miles	3 < 4 miles	4 < 5 miles	5 < 10 miles	10+ miles	Average
Total	28%	17%	15%	11%	21%	8%	4.05
All Employees	18%	15%	20%	14%	22%	12%	4.94
Faculty	20%	17%	26%	17%	13%	7%	3.73
Staff	16%	13%	14%	11%	30%	16%	5.97
Students	42%	19%	10%	6%	19%	3%	2.93

*Source: **Respondent Data** (OverallWt) Base: Respondents who took a bike to campus*
BIKECOMM1: When you use a bicycle as part of your commute, how far do you ride?

Bicycle Parking

Two-thirds of bike commuters park at a bike rack on campus.

Overall satisfaction with bicycle parking on campus has dropped between 2018 and 2019 with 20 percent saying they are very dissatisfied with security.

Table 27: Trends in Overall Satisfaction with Bicycle Parking

	2017	**2018**	**2019**
Total Satisfied	86%	85%	78%
Very Satisfied	37%	37%	31%
Somewhat Satisfied	49%	47%	47%
Total NOT Satisfied	14%	15%	22%

Table 28: Bike Parking

|	
Bike rack on campus	66%
In office	11%
Bike locker campus	6%
Fenced, locked bicycle enclosure	8%
Dedicated storage on campus	7%
Parking garage	7%
Someplace else	6%

Source: Respondent Data (OverallWt)
Base: Bicycle respondents
BIKECOMM3: When you use your bike as part of your commute trip, do you typically park your bike.

Cyclists are most satisfied with proximity to destination and least satisfied with the security of bicycle parking.

Figure 12: Satisfaction with Bicycle Parking
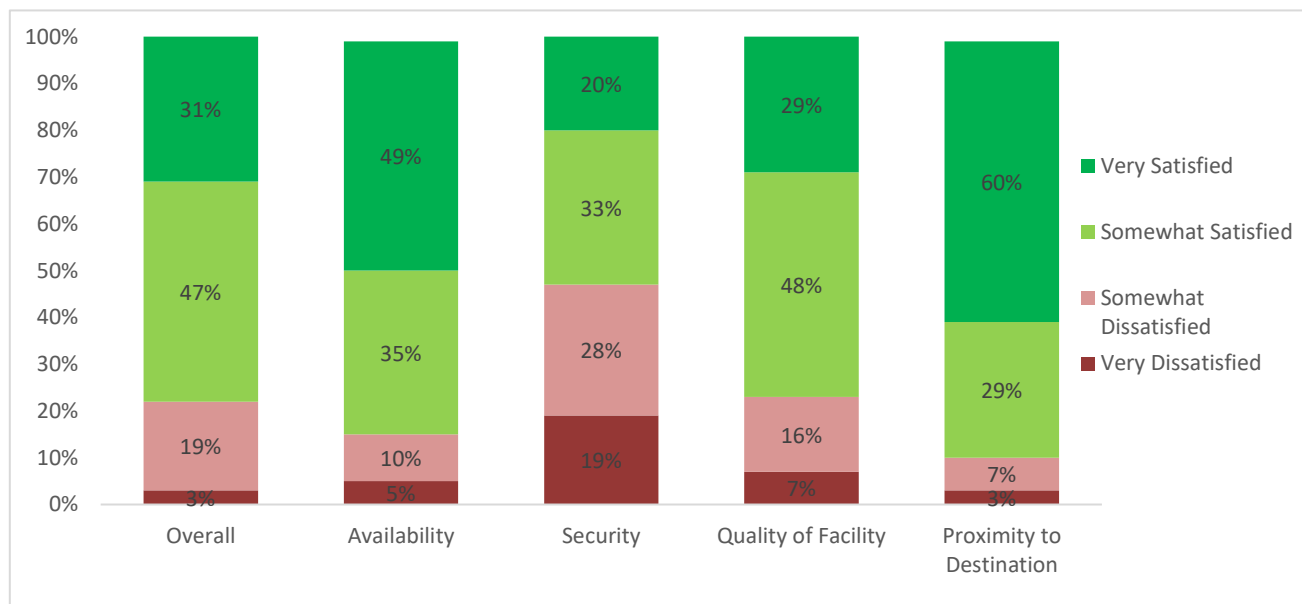
Source: Respondent Data (OverallWt) Base: Respondents who parked bike on UW campus BIKECOMM3C How satisfied are you with each of the following

Too few respondents park their bikes in bike lockers, bike enclosures and bike storage facilities to perform reliable analysis among these groups. The table below if for information only and should not be relied upon for decision making.

Table 29: Net Satisfaction with Bicycle Parking by Place Parked

	Bike Rack *(n=85)*	Bike Locker *(n=11)*	Bike Enclosure *(n=11)*	Bike Storage *(n=9)*
Overall	73%	100%	94%	93%
Availability	83%	85%	94%	93%
Security	48%	70%	77%	67%
Quality of Facility	73%	92%	94%	100%
Proximity to Dest.	89%	92%	94%	100%

Bike Infrastructure Improvements

Infrastructure improvements such as more bike lanes, separated bike tracks and off-street paths would have the largest impact on encouraging people to bike to campus more often.
Additional improvements such are additional secure parking and showers/lockers would also have a large impact.

Two things that matter the least are additional bike racks and the addition of a guaranteed ride home for cyclists.

Figure 13: Extent of Impact on increasing Bicycle Commuting

*Source: **Respondent Data** (**OverallWt**) Base: Respondents who have a bike or took a bike to campus*
BIKECOMM4: Which of the following would encourage you to bike to campus more often? | Of those you selected, which one would be most effective in encouraging you to bike to campus more often? | Of those items you did not select, which one has the least impact on increasing the frequency that you would bike to campus?

Bike Sharing as Part of Commute

Nine out of ten bike commuters use a personal bike for their commute.

Table 30: Use of Bike Share to Commute

	Personal Bike	Bike Share
Overall *(n=140)*	94%	8%
Employees *(n=109)*	96%	6%
Faculty *(n=46)*	96%	7%
Staff *(n=63)*	97%	6%
Students *(n=31)*	90%	10%

Source: Respondent Data (OverallWt)
Base: Respondents who took a bike to campus
BIKECOMM2: When you use a bicycle as part of your commute trip, do you use a personal bike or a Bike Share program?

Only n=10 respondents used a bike share as part of their commute. The chart below shows the raw (unweighted) number of respondents regarding other mode choices had bike share not been available.

Figure 14: Alternatives to Bike Sharing
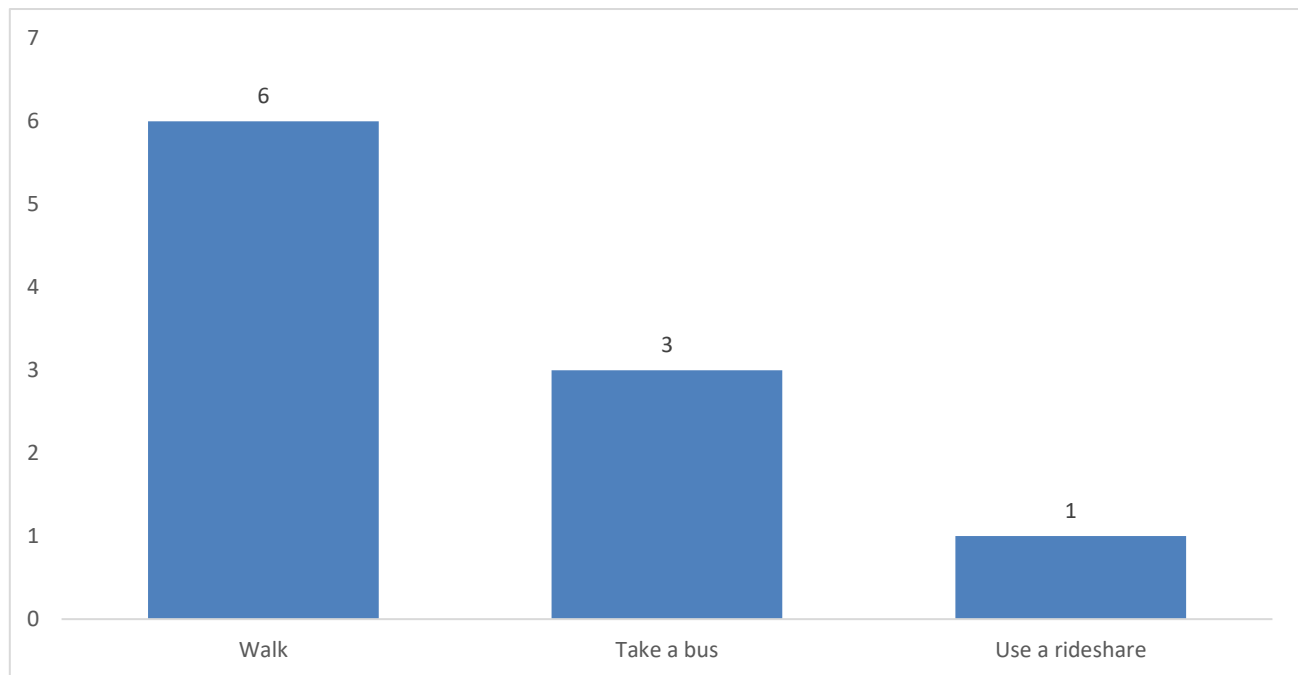
Source: Respondent Data (OverallWt) Base: Respondents who used a bike share as part of their commute
BIKECOMM2A: If the bike share were not available, how would you have made that portion of your commute trip?

Bike Sharing in General

Overall, just over one in ten respondents has used a bike share service in the past month.

- Of those, 29 percent (n=54) have taken advantage of the discount provided through UW transportation.

Table 31: Use of Bike Share in Past Month

	%Yes	Mean # of times used
Overall	10%	1.3
Employees	10%	1.4
Faculty	10%	1.7
Staff	9%	1.2
Students	11%	1.3

Source: Respondent Data (OverallWt)
BIKESHARE1: In the past month, have you used any bike share services such as Lime? Base: All respondents
BIKESHARE2: How many times do you use bike share services in a typical week? Base: Respondents who have used bike share

Most bike share trips involve traveling to/from or within campus.

Figure 15: Typical Reasons for using bike share
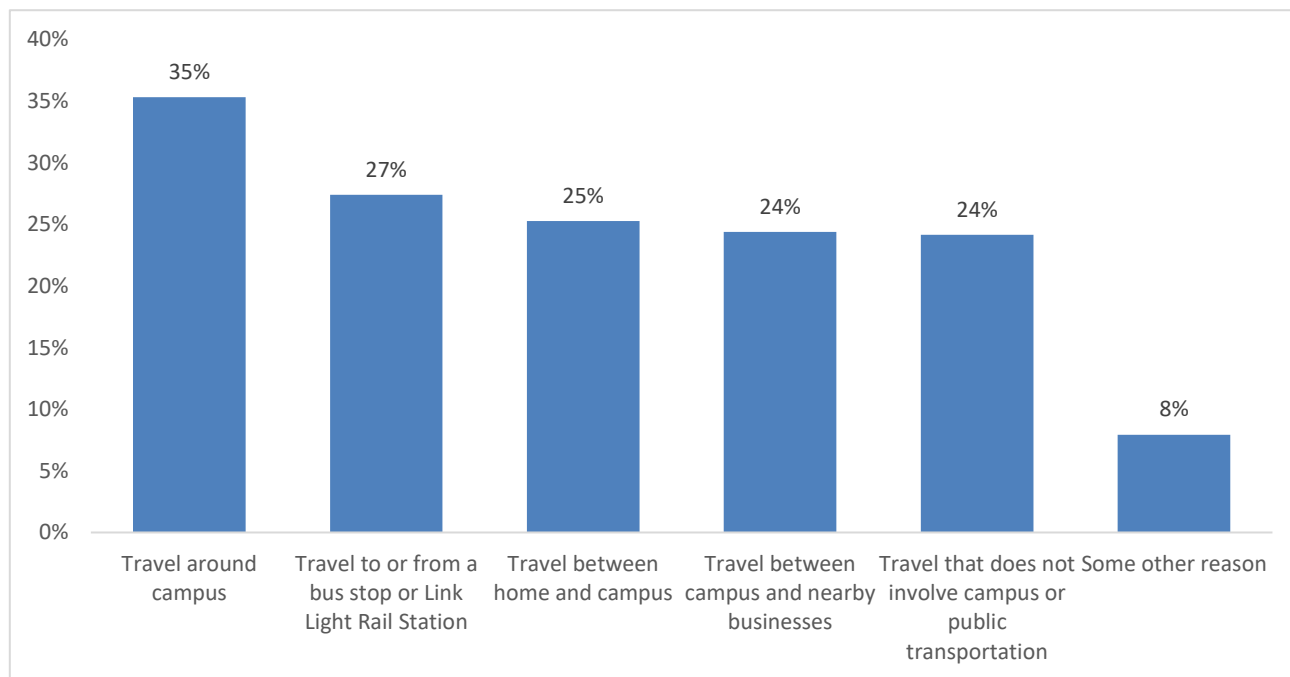
Source: Respondent Data (OverallWt) Base: Respondents who used a bike share as part of their commute
BIKESHARE3: For what reasons do you typically use bike share? (multiple select)

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Driving Alone

Two-thirds of those who drive alone as their primary travel mode report that they drive for their entire trip.

Table 32: Percent Drive Alone as Primary Mode (Monday through Friday)

	All	Employees	Faculty	Staff	Students
Drove Alone	18%	36%	40%	34%	7%

Source: **Trip Data** (**OverallWt**) Base: All respondents
Percent shown is percent of trips taken (Excludes Telecommuters)

Table 33: Percent of Drive-Alone Trips that Are Entirely by Car versus Combined with Other Modes (Mon–Fri)

	% Drive Entire Trip*	% Drive + Transit	% Drive + Other Mode**
All	63%	27%	10%
Employees	70%	20%	10%
Faculty	80%	9%	11%
Staff	65%	25%	10%
Students	47%	43%	10%

* Includes trips with a single trip leg (drive alone) or drive alone and walk to final destination.
** Includes carpool, vanpool, motorcycle, bicycle, shuttle, etc.
Source: **Trip Data** (**OverallWt**)
Base: Respondents whose primary mode is drive alone; cell sizes represent number of respondents providing **Trip Data**
May not add to 100% due to rounding

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Carpooling / Vanpooling

Three percent (3%) or a total of 8,464 commute trips to campus per week are primarily carpool or vanpool trips.
- 85 percent carpool trips are two-person carpools.

Table 34: Number in Carpool / Vanpool

		All	**Faculty**	**Staff**	**Students**
Carpool*	% 2-Person	85%	100%	89%	79%
	Mean	2.23	2.00	2.10	2.36
Vanpool**	Mean	7.49	7.00	7.57	n/a

*Source: **Respondent Data** (OverallWt)*
COMMCP / COMMVP: Number of people 16 and older in carpool (including yourself)
*Base: Primary trip is carpool or vanpool; base sizes is number of respondents from **Respondent Data***
*Note, small sample sizes for carpool data (all=108, faculty=22, staff=53, students=33)
**Note, small sample sizes for vanpool data (all=8, faculty=1, staff=7, students=0)

Six out of ten (57%) of carpool / vanpool respondents state they are the passenger.

Table 35: Role in Carpool—by Type*

	Total	**All Employees**	**Faculty**	**Staff**	**Student**
Driver	25%	40%	50%	36%	12%
Passenger	57%	37%	18%	45%	73%
Both equally	11%	13%	14%	13%	9%
Varies	8%	10%	18%	6%	6%

*Note, small sample sizes for carpool data (all=108, faculty=22, staff=53, students=33)

Figure 16: Role in Carpool / Vanpool—All Respondents
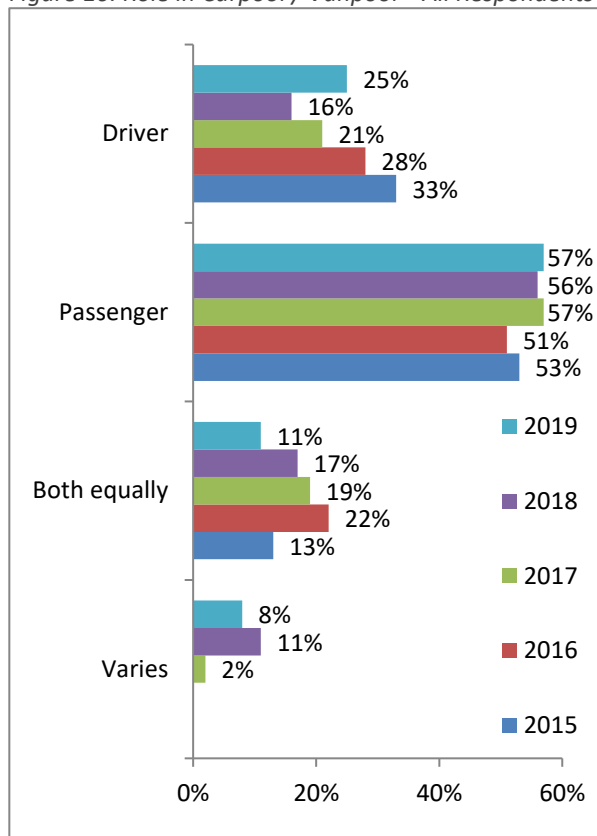
*Source: **Respondent Data** (OverallWt)*
PARK4: When you carpool are you typically. .
Base: Respondents whose primary trip mode is carpool or vanpool

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Parking

Four out of five respondents who take a vehicle park in a UW lot or garage.

- Employees are the most likely to park in a university run spot.

On average, it takes just over 8 minutes for respondents to walk from their parking spot to their final destination.

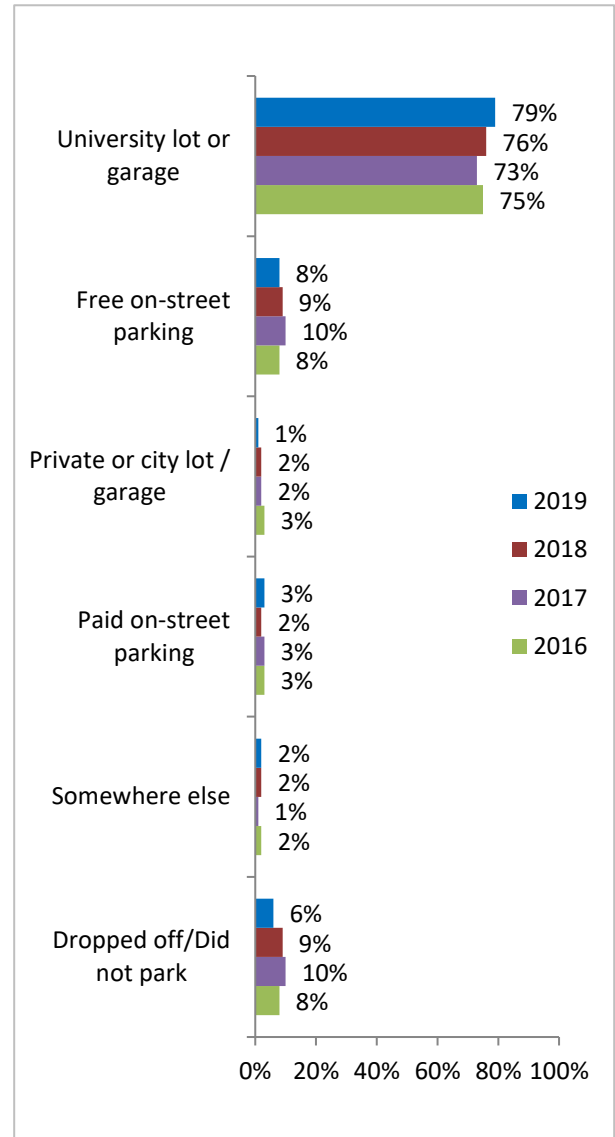Most people who park use a pay-per-use or SOV permit.

Figure 17: Parking Permits Used
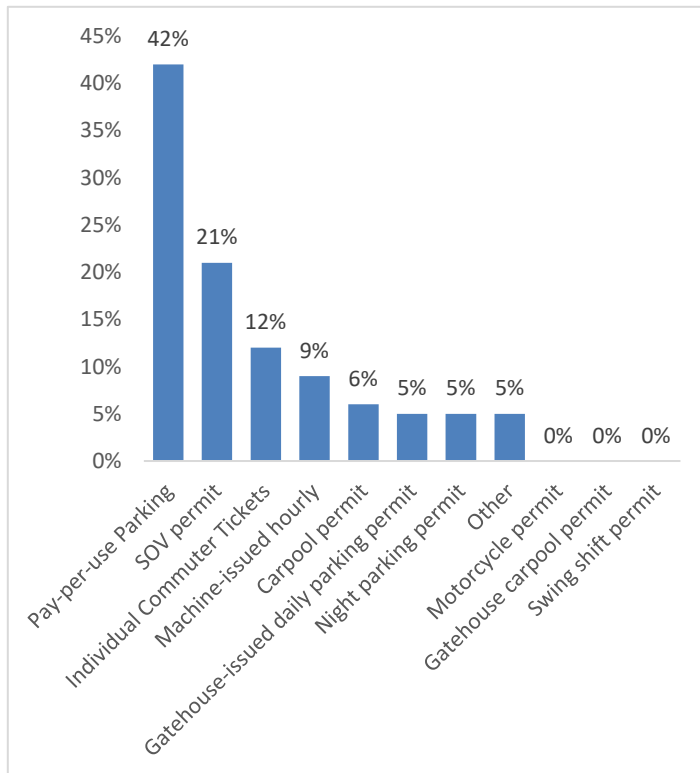
Source: **Respondent Data** (*OverallWt*)
Base: Last leg to campus is drive/carpool/vanpool/motorcycle
PARK3: Which of the following parking products do you use when parking on campus?

Figure 18: Parking Locations

Source: **Respondent Data** (*OverallWt*)
Base: Last leg to campus is drive/carpool/vanpool/motorcycle
PARK1: When you drive alone to campus, where do you typically park?

Table 36: Parking Locations by Type

	Total	All Employees	Faculty	Staff	Student
A University lot or garage	79%	85%	88%	84%	68%
Free on-street parking	8%	10%	8%	12%	5%
In a private / city lot / garage	1%	0%	0%	1%	3%
Paid on-street parking	3%	0%	0%	1%	8%
Did not park	6%	2%	3%	1%	15%
Other	2%	2%	2%	2%	3%

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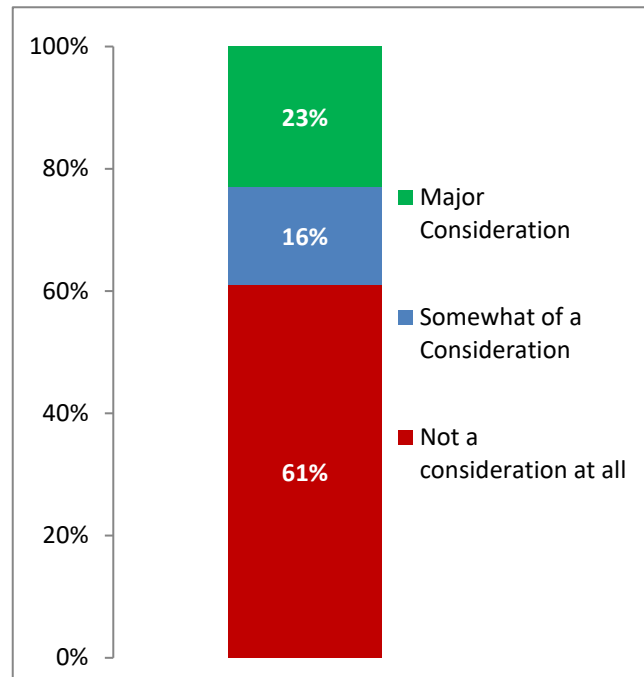
Carpool Parking

Discounted parking factored into the mode choice decision for two out of five respondents who carpooled.

- It was a "major" consideration for one-quarter of car-poolers.

Over half (57%) of car-poolers are satisfied with parking.

While still high (57% satisfied), the availability of carpool parking receives the lowest rating.

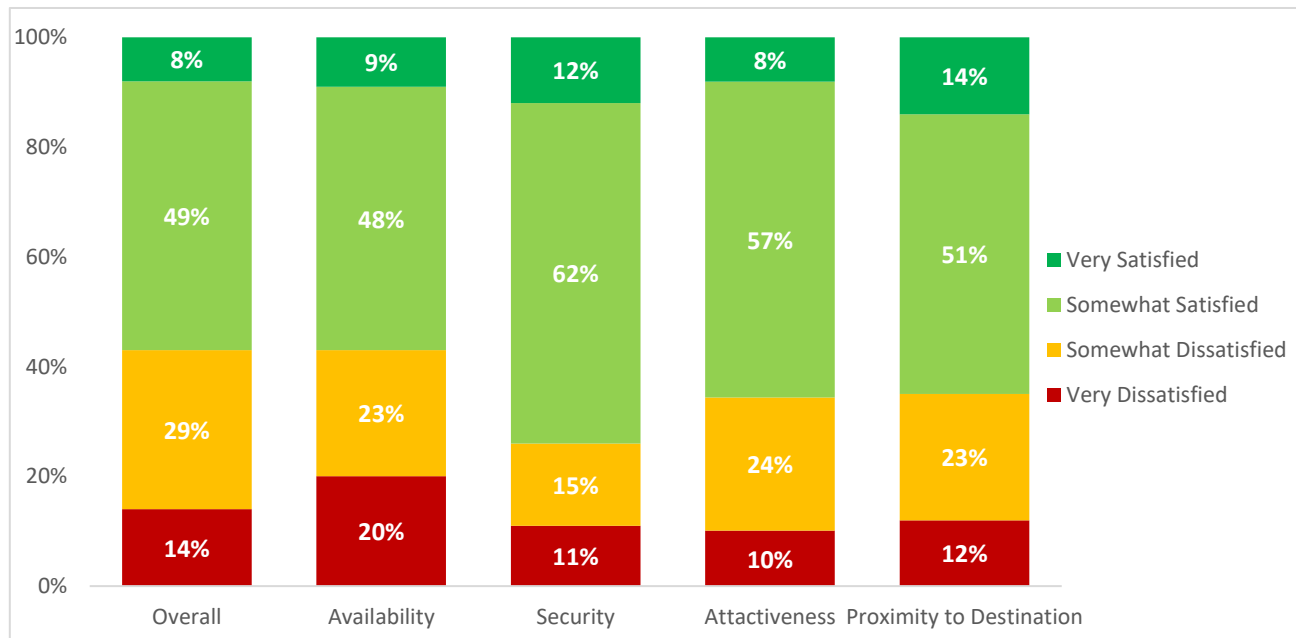*Figure 19: Extent of discount parking on decision to carpool*

*Source: **Respondent Data** (**OverallWt**)*
Base: Last leg to campus is carpool/vanpool
PARK4B: To what extent was discounted carpool parking fees a factor in your decision to carpool

Figure 20: Satisfaction with Carpool Parking

*Source: **Respondent Data** (**OverallWt**)*
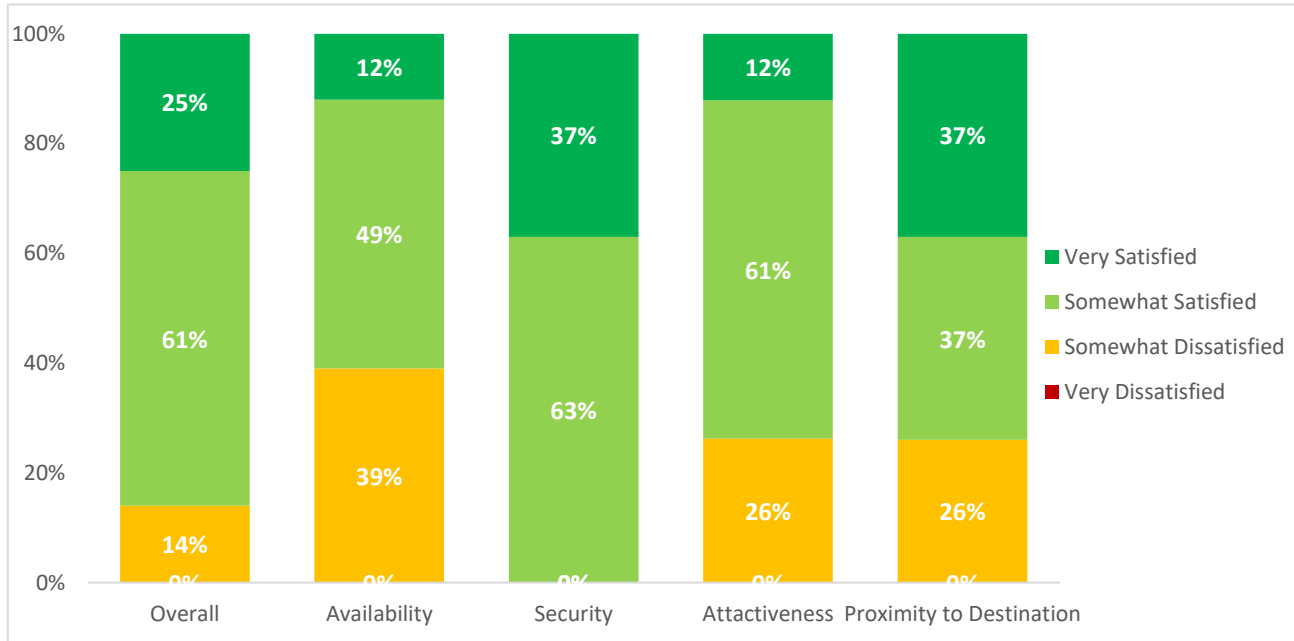*Base: Last leg to campus is carpool*
PARK4C: How satisfied are you with each of the following aspects of carpool parking on campus. Excludes respondents with "no opinion" (n=108)

Vanpool Parking

Four out of five (86%) of vanpoolers are satisfied with parking.

While still high (61% satisfied), the availability of vanpool parking receives the lowest rating.

Figure 21: Satisfaction with Vanpool Parking

*Source: **Respondent Data** (**OverallWt**)*
Base: Last leg to campus is vanpool
PARK5: How satisfied are you with each of the following aspects of vanpool parking on campus. Excludes respondents with "no opinion" (n=8)

Key Findings: Overall Transit Use

Three transit systems serve the University of Washington Seattle campus directly: King County Metro Transit, Community Transit, and Sound Transit (both express bus and link light rail). Link Light Rail started serving the University of Washington in mid-2016 with the opening of the station near the UW Medical Center and Husky Stadium.

Other systems covered by the U-PASS include the Sounder Commuter Rail, Everett Transit, Kitsap Transit, and Pierce Transit. Trips on these systems require a transfer to reach the UW Seattle campus.

Transit Use

Seven out of ten respondents made at least one trip on one of the region's transit systems in the previous 7 days.

- Transit use increased between 2014 and 2016 and has remained steady since (not asked in 2015).

Table 37: Trends in Overall Transit Use

	2017	2018	2019
Total	71%	73%	73%
All Employees	61%	65%	65%
Faculty	57%	63%	62%
Staff	63%	66%	66%
Students	78%	79%	79%

Figure 22: Overall Transit Use—agencies used by >=5% of population
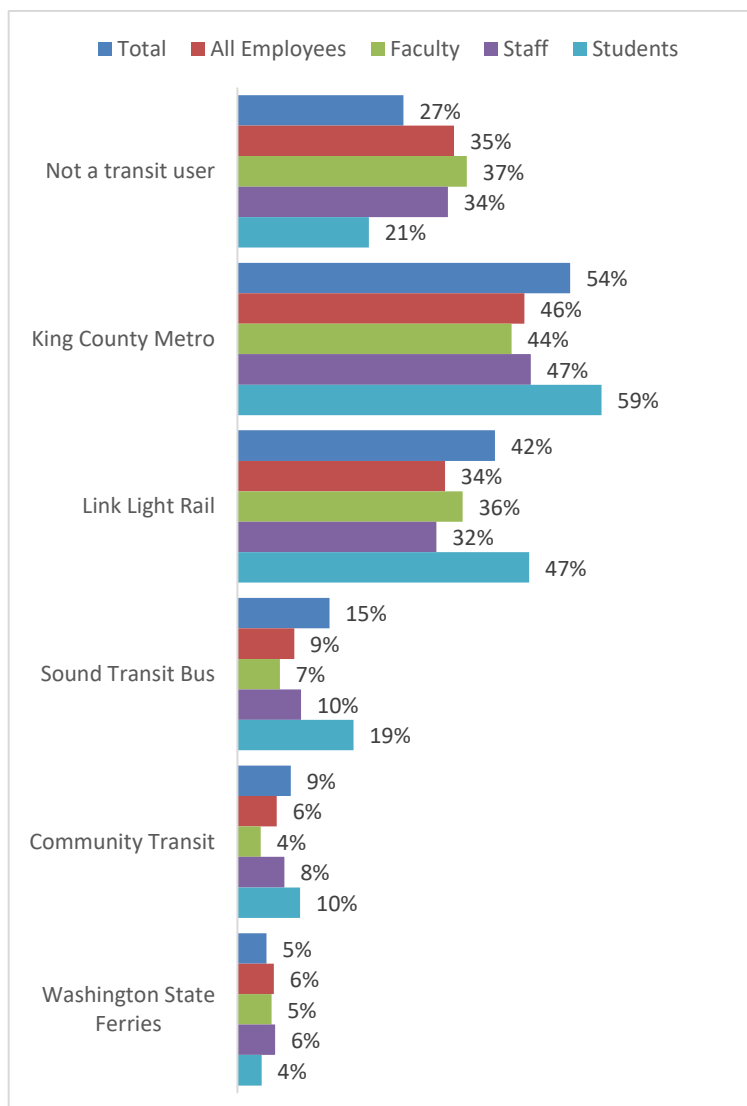
Source: **Respondent Data** (**OverallWt**) Base: All respondents
TRANSIT1; In the past 7 days, how many one-way trips did you take on each of the following for any purpose (not just getting to or from work or school)?

Number of Trips

Respondents reported taking a total of 12,461 trips on one or more of the region's transit systems in the previous 7 days.

- This equates to more than 558,598 total trips for the entire population—the equivalent of 7.27 one-way trips per person. Up slightly from 2017 and 2018.

Trips on Metro account for over half of transit trips.
- After decreasing over a few years, the average number of weekly transit trips on Metro has increased in 2019.

Light rail now accounts for 121,053 trips—that is one-quarter of all transit trips taken by UW faculty, staff and students.

Table 38: Average Weekly Metro Transit Trips 2017–2019

	2017	2018	2019
Average # of One-Way Trips / All Respondent			
All Transit	6.89	6.86	7.27
King County Metro	3.81	3.67	3.91
All Employees	2.94	2.86	3.16
Faculty	3.03	2.31	3.08
Staff	2.90	3.13	3.20
Students	4.37	4.23	4.38
Average # of One-Way Trips on Metro / Metro Riders			
All Riders	6.89	6.63	7.26
All Employees	6.85	6.02	6.96
Faculty	7.12	5.13	7.12
Staff	6.72	6.42	6.90
Students	6.91	6.96	7.40

Table 39: Total Transit Trips in Previous Week

	Respondents	UW Population	% of Transit Trips
Total Weekly Transit Trips			
Total Transit Trips	12,461	558,598	100%
King County Metro Trips	6,708	300,698	54%
Net Trips on Other Systems	5,753	257,900	46%
Link Light Rail	2,700	121,053	22%
ST Bus	1,474	66,075	12%
Community Transit	877	39,312	7%
Sounder Rail	219	9,818	2%
Washington State Ferries	209	9,367	2%
Seattle Streetcar	90	4,034	1%
Everett Transit	54	2,409	<1%
KC Water Taxi	40	1,796	<1%
Kitsap Transit	32	1,438	<1%
Pierce Transit	31	1,395	<1%

*Source: **Respondent Data** (Weighted by **OverallWt** and (**ExpansionWt**)*
Base: All respondents
TRANSIT1: In the past 7 days, how many one-way trips did you take on each of the following for any purpose (not just getting to or from work or school)?

Table 40: Total Transit Trips on Most Used Systems

	Average # of One-Way Transit Trips / All Respondents	7.27
King County Metro	**Average # of Trips on KC Metro / All Respondents**	3.91
	Faculty	3.08
	Staff	3.20
	Students	4.38
	Average # of Trips on KC Metro / Metro Riders	7.26
	Faculty	7.12
	Staff	6.90
	Students	7.40
Central Link Light Rail	**Average # of Trips on Link Light Rail / All Respondents**	1.58
	Faculty	1.39
	Staff	1.56
	Students	1.62
	Average # of Trips on Link Light Rail / Link Light Rail Riders	3.97
	Faculty	4.02
	Staff	4.60
	Students	3.75
Sound Transit	**Average # of Trips on Sound Transit / All Respondents**	0.86
	Faculty	0.50
	Staff	0.56
	Students	1.06
	Average # of Trips on Sound Transit / ST Riders	4.71
	Faculty	6.83
	Staff	5.21
	Students	4.49

|		
Community Transit	**Average # of Trips on Community Transit / All Respondents**	0.51
	Faculty	0.19
	Staff	0.59
	Students	0.54
	Average # of Trips on Community Transit / Community Transit Riders	5.24
	Faculty	4.29
	Staff	6.00
	Students	5.03
Sounder Commuter Rail	**Average # of Trips on Sounder Rail / All Respondents**	0.13
	Faculty	0.03
	Staff	0.15
	Students	0.14
	Average # of Trips on Sounder Rail / Washington Sounder Rail Riders	3.61
	Faculty	5.50
	Staff	5.65
	Students	3.07
Washington State Ferries	**Average # of Trips on WSF / All Respondents**	0.12
	Faculty	0.12
	Staff	0.14
	Students	0.12
	Average # of Trips on WSF / WSF Riders	2.90
	Faculty	2.60
	Staff	3.39
	Students	2.77

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Trip Purpose(s)

Two-thirds of transit users indicate that commuting to or from the UW is their primary purpose when using public transportation.

- Staff are the most likely group to primarily use transit for their commute.
- Students have the most varied reasons for using transit—over one-quarter of them use transit for non-commute purposes.

Figure 23: Trip Purpose: Metro Trips
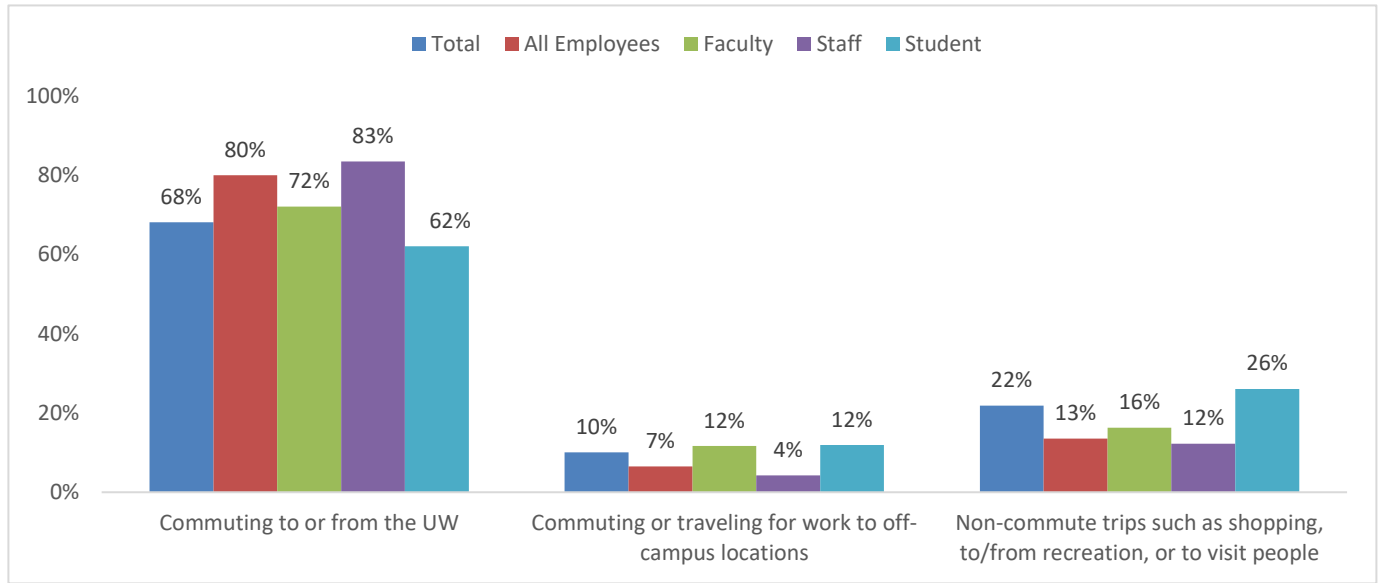
*Source: **Respondent Data** (**OverallWt**) **Base**: Respondents who rode public transit in the past 7 days*
TRANSIT4: What is the primary purpose for the trips that you take on public transportation?

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Metro Ridership

Number of Trips

Respondents reported a total of 6,708 weekly one-way rides on Metro. When projected to the entire UW population this equates to more than 300,698 weekly transit trips.

- UW faculty account for only 10% of all one-way trips on Metro.
- Students account for 69% of all one-way trips on Metro. On average, students took 4.38 one-way trips in the 7 days prior to the survey.

Table 41: Number of Weekly One-Way Trips on Metro

	All	All Employees	Faculty	Staff	Students
	Respondents				
Total #of Weekly One-Way Trips	6,708	2,067	643	1,424	4,641
	Expanded to Population				
Total # of Weekly One-Way Trips	300,698	92,642	28,805	63,837	208,056
% of Total Weekly Trips		31%	10%	21%	69%
Average # of Weekly One-Way Trips / Person	3.91	3.16	3.08	3.20	4.38

Source: Respondent Data (OverallWt)and (ExpansionWt)
Base: All respondents
TRANSIT1: In the past 7 days, how many one-way trips did you take on each of the following for any purpose (not just getting to or from work or school)?

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At least three-quarters of Metro trips are to or from campus. This holds true for all segments.

Twenty-four percent (24%) of Metro trips are intra-campus trips—that is, trips between two points on the campus and/or the U-District.

- Students are more likely than staff and faculty to use Metro for intra-campus trips.

- It should be noted that respondents could provide answers for both to/from and intra-campus trips. While writing the questionnaire the decision was made to not force the sum of these trips to equal the total number of trips taken. This means that a trip where a respondent may have travelled from some point within the U-District onto the UW campus proper may be counted twice. Thus, the percentages in the table below may not sum to 100%.

Table 42: Types of Metro Trips

		Total Metro Trips	To / From Campus	Intra-Campus
All	# One-Way Trips*	6,708	5,174	1641
	% of Total Metro Trips*		77%	24%
All Employees	# One-Way Trips*	2,067	1,647	214
	% of Total Metro Trips*		80%	10%
Faculty	# One-Way Trips*	643	480	49
	% of Total Metro Trips*		75%	8%
Staff	# One-Way Trips*	1,424	1,167	165
	% of Total Metro Trips*		82%	12%
Students	# One-Way Trips*	4,641	3,527	1427
	% of Total Metro Trips*		76%	31%

Source: Respondent Data (OverallWt) Base: All respondents
TRANSIT1 In the past 7 days, how many one-way trips did you take on each of the following for any purpose (not just getting to or from work or school)?
TRANSIT2A: How many of those trips you took last week included getting to or from the UW campus area?
TRANSIT2B: How many of those trips you took last week were between two points in the U District? (The U-District is defined as east of I-5, north of Portage Bay and Montlake cut, south of Ravenna Boulevard and west of Mary Gates Drive.)
*Percentages sum to 100% across the rows. May not sum to 100% due to questionnaire logic allowing multiple types of trips.

Fare Payment

Nearly all those riding Metro use a U-PASS to pay their fare.

Reflecting the lower penetration of the U-PASS in these segments, faculty, and to a lesser extent staff, are less likely than students to use a U-PASS.

Overall use of the U-PASS when riding Metro has increased remained the same since 2016.

Table 43: Trends in U-PASS Use for Fare Payment 2014-2017

	2017	**2018**	**2019**
Total	96%	95%	96%
All Employees	89%	86%	89%
Faculty	85%	82%	83%
Staff	90%	88%	92%
Students	100%	100%	99%

Figure 24: Fare Payment
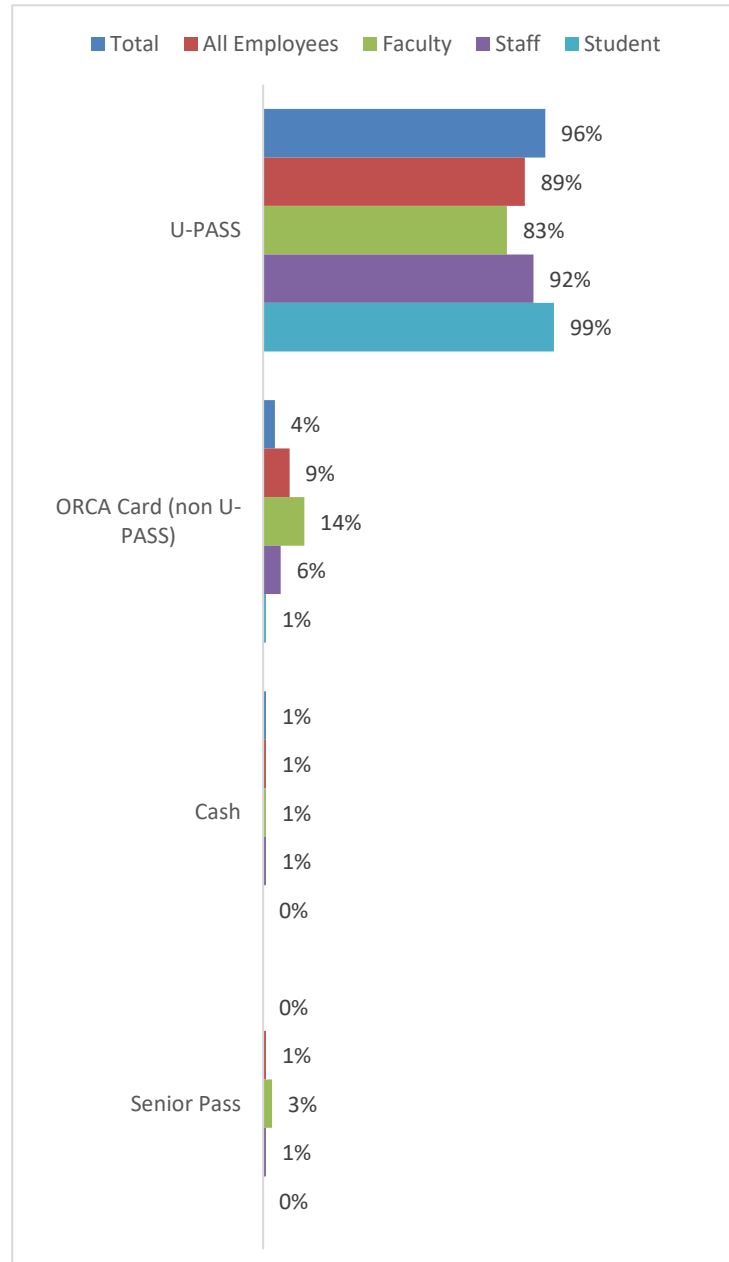
Source: **Respondent Data** (*OverallWt*)
Base: Ridden Metro in previous 7 days
TRANSIT5: When you rode Metro, how did you pay your fare?

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Key Findings: U-PASS

U-PASS Acquisition

The 2019 survey included a variable to indicate staff that receive a U-PASS as part of a collective bargaining agreement. For purposes of this report, this group has been lumped into the percent with a valid U-PASS. This explains the large jump in the percent of staff with a U-PASS between 2018 and 2019.

Figure 25: Percent with Valid U-PASS

	2008	2010	2012	2014	2015	2016	2017	2018	2019
All	81%	67%	84%	85%	84%	85%	83%	83%	87%
Faculty	59%	52%	53%	52%	58%	53%	54%	55%	57%
Staff	76%	71%	69%	70%	68%	70%	63%	65%	82%
Students	87%	69%	97%	97%	97%	98%	97%	98%	96%
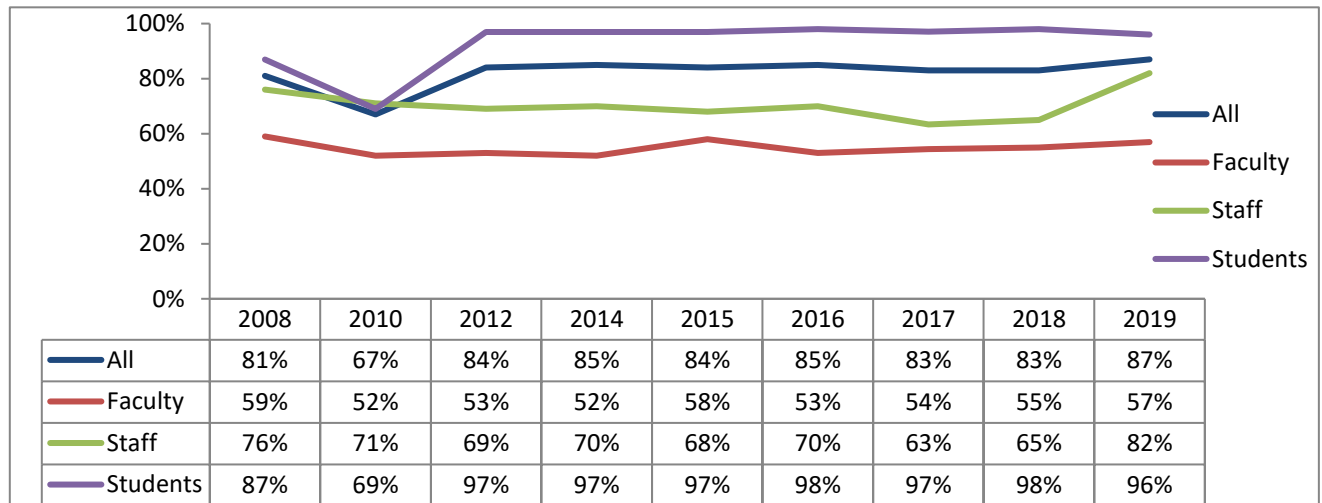
*Source: **Respondent Data** (OverallWt)*
Base: All respondents
U-PASS1/BENNEFIT: Do you have a U-PASS that is valid for Fall Quarter 2018?

Two-thirds of U-PASS holders have had their U-PASS for at least a year.

- Seven out of ten employees have had their U-PASS for three years or longer.

Thirty-six percent (36%) of students are new users—that is, Fall Quarter 2019 is the first quarter they have had a U-PASS.

- The proportion is the same for undergraduate and graduate students.

- Among undergraduate students, the percentage of new members is related to class standing.

It should be noted that combined, graduate students and freshman make up a significant portion of the students who completed the survey. The high rate of new U-PASS members among these two groups greatly impacts the total percentage of students who are new U-PASS members.

Table 44: Percent New Members by Class Standing

	New User
Total	36%
NET: Under Graduate	36%
Freshman	95%
Sophomore	18%
Junior	26%
Senior	1%
NET: Graduate Student *(incl prof.)*	36%
Graduate	37%
Professional	28%

Source: **Respondent Data** (*OverallWt*)
Base: Students who are new members
*New member is defined as the first quarter that respondent has used U-PASS.

Table 45: Length of Time Had U-PASS

	Total	All Employees	Faculty	Staff	Students
New User	33%	26%	19%	28%	36%
1-2 Years	28%	14%	11%	15%	34%
3+ Years	40%	60%	70%	57%	30%

Source: **Respondent Data** (*OverallWt*)
Base: Respondents with a U-PASS
UPASS1A:How long have you had a U-PASS?

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Faculty and staff can obtain a U-PASS either through the collective bargaining agreement, with a parking permit or through an outright purchase.

Forty-five percent (45%) of employees received their U-PASS as part of a collective bargaining agreement.

- Staff are significantly more likely than Faculty to have received this as part of the agreement.

Forty percent (40%) of employees purchased their U-PASS.

- One-quarter received their U-PASS along with the purchase of a parking permit.

Figure 26: Acquisition of U-PASS (Faculty and Staff)
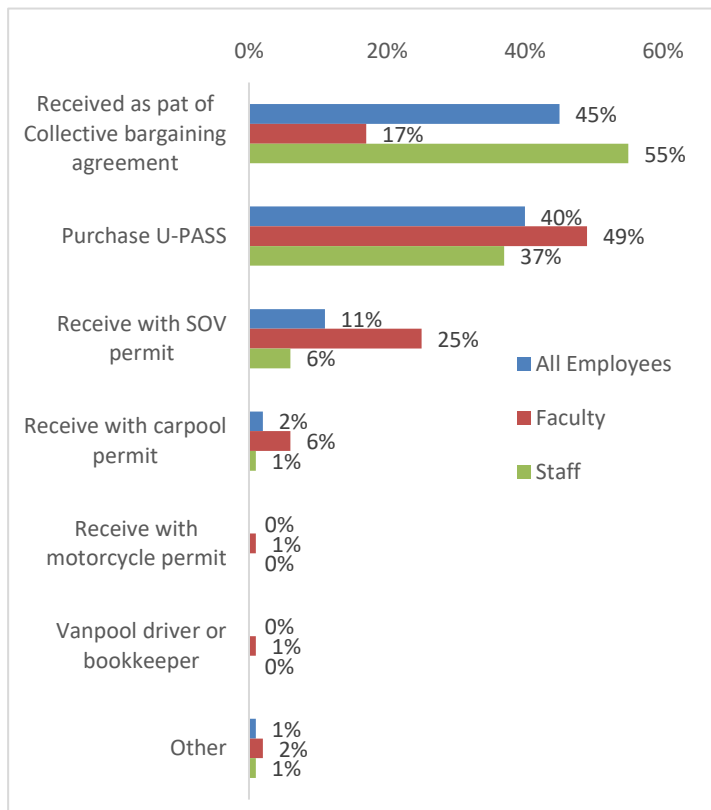
Source: Respondent Data (EmployeeWt)
Base: Employees with a U-PASS
BENEFIT/UPASS2/UPASS3: Did you purchase your U-PASS, receive a U-PASS with an SOV parking permit, a carpool parking permit, receive a motorcycle parking permit or because you are a vanpool driver or bookkeeper, or something else?

Table 46: Trends in Faculty / Staff U-PASS Acquisition

	2016	2017	2018	2019[+]
% Purchase				
All Employees	75%	71%	70%	40%
Faculty	72%	64%	63%	49%
Staff	76%	74%	73%	37%
% Receive with Parking Permit*				
All Employees	23%	26%	25%	13%
Faculty	28%	34%	33%	31%
Staff	21%	22%	22%	7%

The percentage of faculty and staff purchasing their U-PASS outright has dropped significantly between 2018 and 2019.

Source: Respondent Data (EmployeeWt) Base: Employees with a U-PASS
*Includes SOV, carpool, and motorcycle permit
+2019 was the first year that collective bargaining agreement was incorporated into this data.

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Using the U-PASS

As expected, the primary use of the U-PASS is for transit.

- Riding the light-rail is the most common use for the U-PASS.

Figure 27: Uses of U-PASS
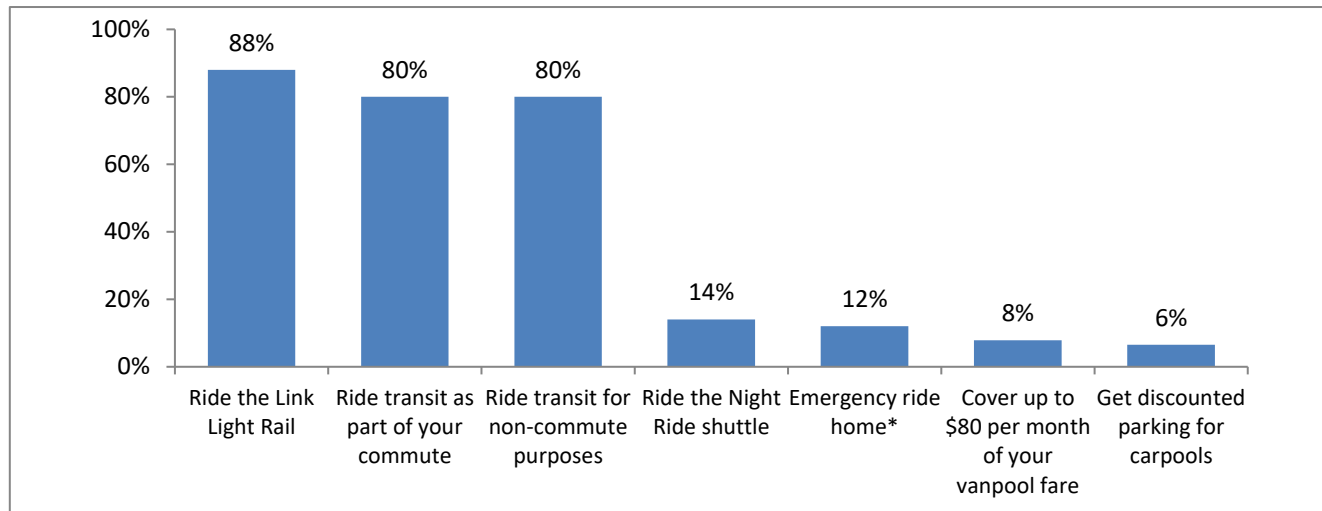
*Source: **Respondent Data** (**OverallWt**) Base: Respondents with a U-PASS*
UPASS4: How often have you used your U-PASS to do each of the following?
* Emergency ride home program is available to faculty and staff only.
Includes Rarely, Sometimes, Frequently

Six percent of (6%) respondents have received personalized trip planning service through Commute Options Services. Of these (n=105), forty-one percent (n=36) state that using this service affected how they commuted to campus.

Figure 28: Use of Commute Options Service
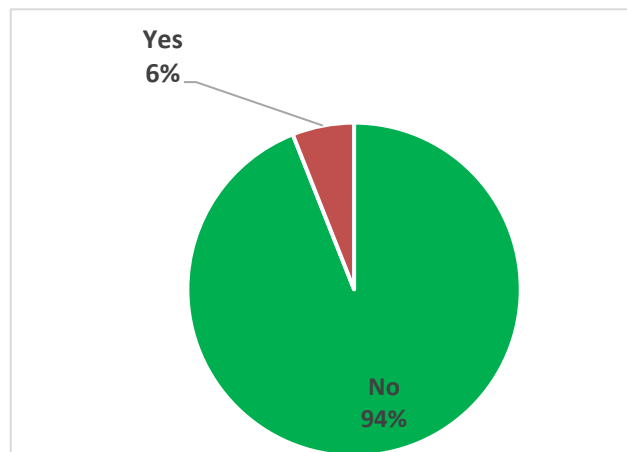
*Source: **Respondent Data** (**OverallWt**)*
Base: Respondents with a U-PASS
UPASS5: Have you used the Commute Options Service to receive personalized commute assistance to campus?

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There are differences in the uses of the U-PASS based on segment.

- Students are the most likely to ride the Night Ride Shuttle.
- Students use their U-PASS more frequently than employees for commute trips.

Table 47: Primary Uses of U-PASS by Segment

		Total	All Employees	Faculty	Staff	Students
Ride the Link Light Rail	Never	12%	16%	12%	17%	10%
	Rarely	21%	22%	14%	25%	21%
	Sometimes	37%	34%	41%	31%	38%
	Frequently	30%	28%	33%	27%	31%
Ride the Night Ride shuttle	Never	86%	95%	92%	96%	82%
	Rarely	9%	3%	5%	3%	11%
	Sometimes	4%	1%	3%	1%	5%
	Frequently	1%	0%	0%	0%	1%
Emergency ride home	Never	88%	88%	91%	87%	N/A
	Rarely	8%	8%	5%	9%	N/A
	Sometimes	3%	3%	3%	3%	N/A
	Frequently	1%	1%	1%	1%	N/A
Discounted parking for carpools	Never	94%	93%	91%	94%	94%
	Rarely	4%	4%	6%	4%	3%
	Sometimes	2%	1%	2%	1%	2%
	Frequently	1%	1%	1%	1%	1%
Discounted fares for vanpool	Never	92%	97%	98%	97%	90%
	Rarely	3%	1%	0%	1%	4%
	Sometimes	2%	1%	1%	0%	3%
	Frequently	3%	1%	1%	1%	3%
Ride transit as part of your commute	Never	20%	18%	22%	16%	21%
	Rarely	12%	12%	9%	14%	11%
	Sometimes	15%	11%	13%	11%	16%
	Frequently	54%	59%	56%	59%	52%
Ride transit for non-commute purposes	Never	20%	21%	17%	22%	19%
	Rarely	20%	24%	18%	26%	18%
	Sometimes	31%	34%	38%	33%	30%
	Frequently	29%	22%	28%	20%	33%

*Source: **Respondent Data** (OverallWt) Base: Respondents with a U-PASS*
UPASS4: How often have you used your U-PASS to do each of the following?
* Emergency ride home program is available to faculty and staff only.

U-PASS BENEFITS

Overall, eight out of ten respondents agree that the benefits received from the U-pass are important to them.

Figure 29: Overall Satisfaction with the U-PASS Program
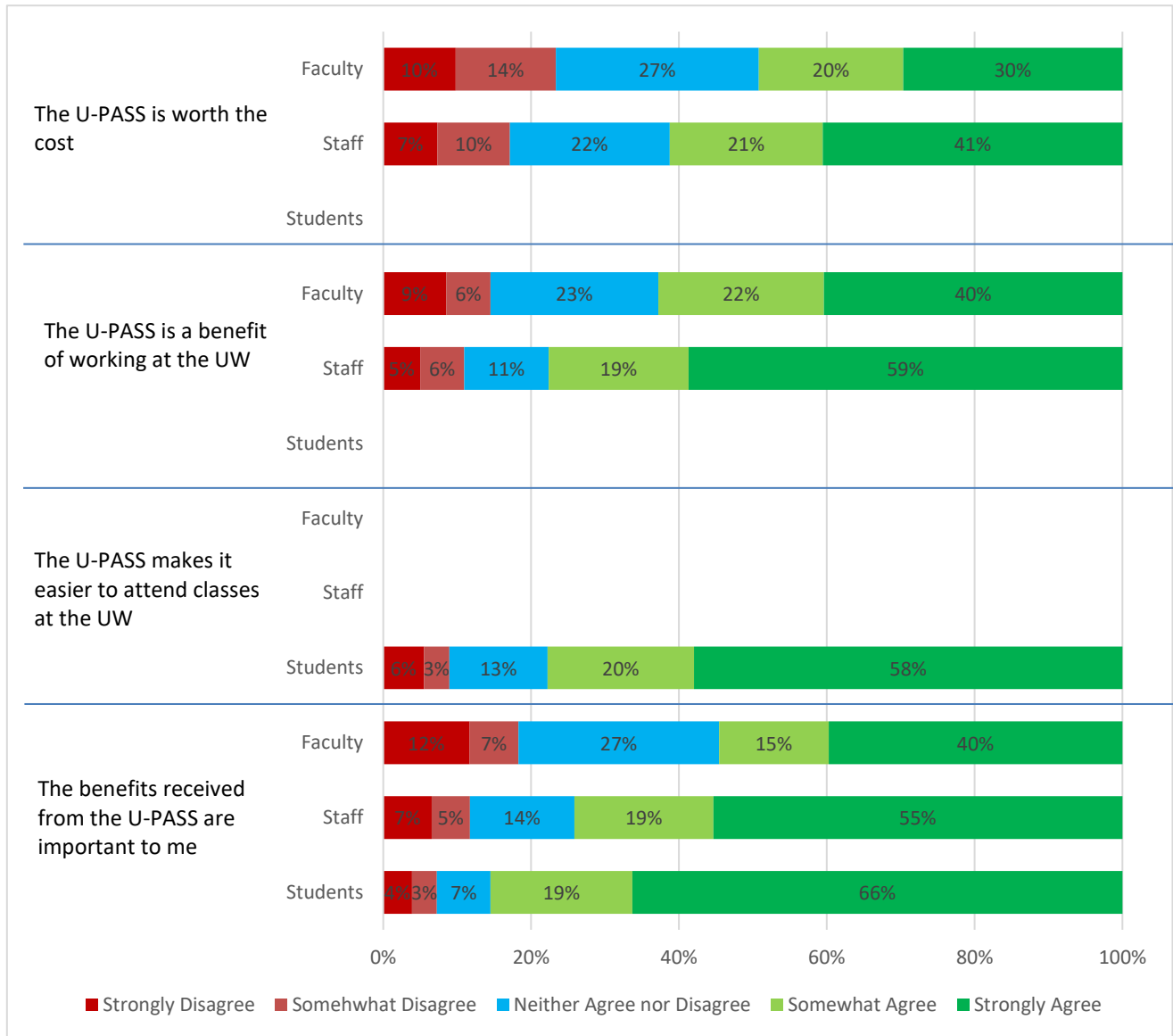
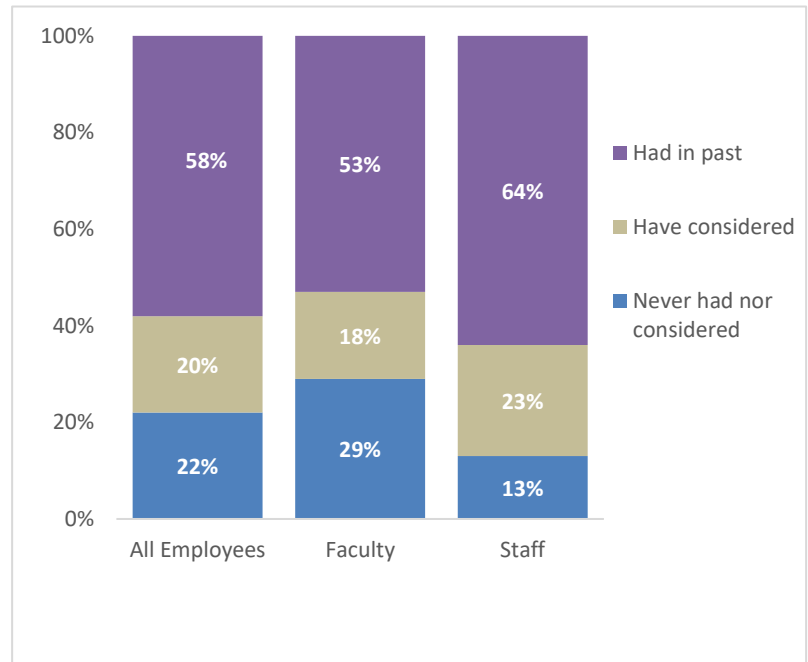[Blank page inserted for pagination purposes.]

U-PASS Non-Members

Six out of ten (58%) employees have had a U-PASS in the past.

One in five employees have never had nor would consider getting a U-PASS.

Only 26 students (unweighted) surveyed do not have a U-PASS so that data is not shown.

Figure 30: Past Use or Consideration of U-PASS

*Source: **Respondent Data** (**EmployeeWt**)*
Base: Respondents WITHOUT a U-PASS
NOPASS1: Have you ever had or considered having a U-PASS?

The majority of those who do not currently have a U-PASS indicate that they are unlikely to get a U-PASS in the future.

- One-in-three say they are "not at all likely" to get one.

Figure 31: Potential Acquisition of U-PASS
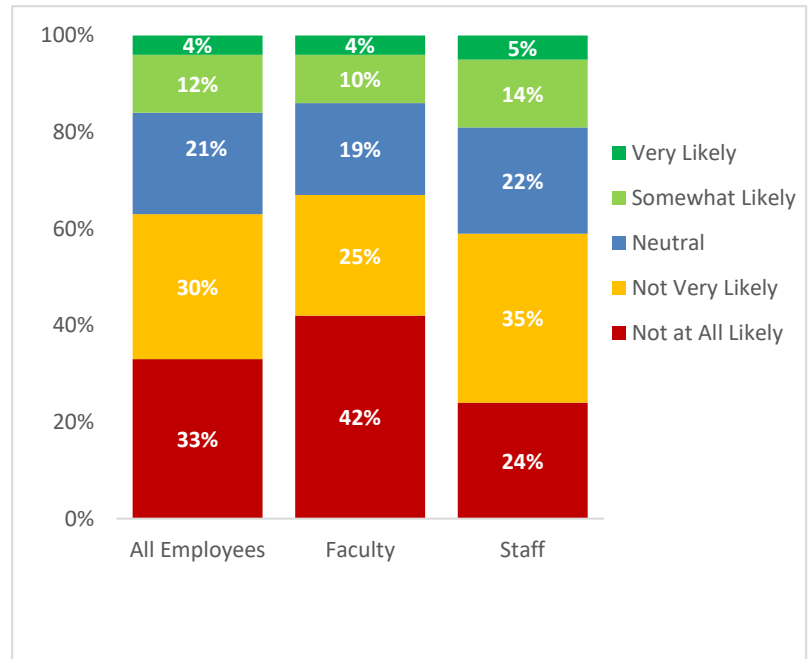
*Source: **Respondent Data** (**EmployeeWt**)*
Base: Respondents WITHOUT a U-PASS
NOPASS2: Have you ever had or considered having a U-PASS?

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Appendix I: Detailed Methodology

This survey was conducted via mixed modes–using a web-based survey and a computer-assisted telephone interviewing (CATI) methodology that mirrored the web survey. All faculty, staff and students were initially contacted through email. Those did not complete the online survey within a week were contacted by telephone to complete the survey. This dual methodology was first adopted in the 2002 survey wave to obtain a higher response rate (50–55% is required) from faculty and staff for the State of Washington's Commute Trip Reduction measurements and to accommodate respondent requests from previous years.

Data collection was completed between November 19, 2019 and February 15, 2020.

- Holiday schedules: Data collection is stopped during holidays as these time frames cause disruption in normal travel.
    - Data collection was paused from November 26 through December 9 for the Thanksgiving break.
    - Data collection was paused from December 17, 2019 thru January 14, 2020 for the winter break..

To ensure that data was collected over the entire period, the sample was introduced in successive batches, rolling the online sample to the telephone survey and inviting new sample elements to complete the online survey. Respondents were questioned about their travel during the previous 7 days. Data collection was completed by February 15, 2020.

Prior to data collection, UW sent an introductory email to all faculty members, staff, and students that had been randomly selected to complete the survey. The email introduced the survey and discussed the schedule and response options—telephone and online. The timing of the introductory email was approximately a few days before respondents received their personalized login code in their e-mail inbox. Awareness of the survey effort was also made known through the outreach materials listed below. Full text of the outreach materials is in Appendix V.

Outreach materials consisted of the following:

- UW e-mail notifications
- NWRG e-mail invitation and reminders
- FAQs for posting on websites, e-mailing to respondent, requests for additional information, etc.

Questionnaire

The questionnaire contained a variety of question formats, including closed single and multiple response questions for all categorical data. In situations where not all of the possible responses were known, an "other" category was included so the respondent's verbatim response could be recorded. These results were reviewed and, where appropriate, coded post-facto into the database. All attitude and evaluation questions used scaled response formats. Scales were typically four or five points in length. To prevent order bias, certain blocks of questions were rotated or randomized in both the online and telephone versions of the survey.

A copy of the questionnaire is included in Appendix IV.

Sample Selection and Management

The UW provided two databases to NWRG for sampling: the student database and a database including all types of UW employees (staff and faculty), drawn from UW's payroll and personnel system.

The combined UW databases were stratified into three main groups—faculty, staff, and students. Because the sample was already designated (faculty, staff, and students) the only qualifying statement that respondents needed to verify was whether they worked or attended classes at a UW owned or leased building. This verification revealed a very close match with the sample information. Prior to data collection, an analysis of the student sample was conducted to ensure accurate representation of class standing within the student sample universe. After data collection was complete, class standing analysis was conducted to verify representative distribution of class standing for survey respondents and found that representation was fairly close (within +/-5% of actual class distribution).

Based on the desired quotas for each group, and limited by the state CTR response requirements, a random sample was drawn for each group. Historically, approximately 20% of the randomly selected sample has been disqualified from the survey—generally for not working or attending classes at the main University District campus in Seattle, WA. This was considered for the final sample pull of 3,752 sample elements (1,500 students, 1,502 staff, and 750 faculty).

Sample elements with e-mail addresses were initially contacted online, while those without e-mail addresses were contacted via telephone.

If the respondent did not complete the online survey during their time allotment, the sample record was transferred to the telephone interview sample. Interviewers made up to five attempts to reach respondents by phone.

At the beginning of the interview, respondents were screened to determine eligibility. Respondents who did not qualify for the survey were immediately screened out. If a respondent was qualified to take the survey but was not available to be interviewed at the time the current call was placed, a callback interview was scheduled. Significant effort (including repeated callbacks) was made to reach the respondent at both the daytime work and the evening residence numbers. In addition, respondents with e-mail addresses who were not reached during the initial three waves were re-invited to complete the online survey in two additional online survey waves. These were simultaneous to the telephone follow-up efforts.

Appendix II: Sources for Previous Year Mode Share Data

Prior to 2012, the mode share data was calculated using a different methodology. The previous data files are either unavailable or do not contain the variable or calculation used to determine mode-share. The mode share numbers from 2002 through 2010 have been imported from the previous reports. The table below provides the table number from which the mode share data was imported for each of the previous years.

Table 48: Sources for Mode Share Data from 2002 to 2010

Year	Source
2002	Final Report—Table 13
2004	Final Report—Table 13
2006	Final Report—Table 18
2008	Final Report—Table 17
2010	Final Report—Table 21

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Appendix III: Sample Size Tables

Below is a table showing the sample sizes for each base throughout the report. Sample sizes are provided for unweighted counts as well as weighted counts for each weight. Unless specified, Weight is the default weight used throughout the report. ExpansionWt is used when results are projected to a total number (e.g., total number of weekly trips). When reporting percentages, there are no differences between Weight and ExpansionWt. EmployeeWt is only used when specifically looking at employees only or when comparing faculty to staff only. The use of EmployeeWt is noted during each instance.

Table 49: 2018 Sample Base Sizes

	Unweighted	Weighted by OVERALLWT	EXPANSIONWT	EMPLOYEEWT
All respondents	1,714	1,714	76,836	-
All employees	1,094	655	29,342	1,094
Faculty	317	209	9,365	349
Staff	777	446	19,976	745
Students	620	1,060	47,494	-
All respondents with U-PASS	1,412	1,500	67,227	-
All respondents w/o U-PASS	276	214	9,609	-
Employees with U-PASS	818	485	21,724	810
Students with U-PASS	594	1,015	45,503	-
New student U-Pass members	214	399	16,393	-
Primary trip mode is drive alone	400	287	12,863	357
Primary trip mode is carpool/vanpool	52	38	1,684	46
Carpool for any part of trip	108	101	4,541	75
Bike for any part of trip	140	119	5,353	111
Parked a bike on UW campus	110	99	4,446	83
Transit service available from home to UW	1,494	1,408	63,109	1,031
Respondents who have used transit in the past 7 days	1,197	1,256	56,315	709
Respondents who have ridden Metro in the past 7 days	864	924	41,417	496
Respondents who took a trip on Sounder or Light Rail in past 7 days	642	682	30,567	374

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Appendix IV: Questionnaire

INTRODUCTION

Thank you for agreeing to participate in this important study for the University of Washington. The information gathered in this study will be used to help improve transportation in and around the U-District. Additionally, it provides data to help the University meet State and City regulatory requirements. You have been randomly selected to participate in the research effort and all of your responses will be kept confidential and only used in aggregate with others participating in this study.

This important survey. . .

1. Provides information on travel behavior that the University uses for long-range development plans.

2. Provides data required by the State of Washington's Commute Trip Reduction Law. Major employers are required, by this law, to provide data on their employees' commuting choices as determined by the survey. (http://www.wsdot.wa.gov/Transit/CTR/overview.htm)

3. Provides important information on the effectiveness of the University's U-PASS program and potential program improvements.

IF VERSION == 1 DISPLAY: This survey is interested in travel made to campus for any reason associated with your status as a student. This could include attending classes, studying, group projects, or academic employment such as teaching or research. For simplicity's sake, the term "attend classes" will be used to cover all of these activities.

If you have program or general questions, please contact ucommute@uw.edu.

If you have technical survey questions, please contact Nathan Wiggin, the project director at Northwest Research Group at nwiggin@nwresearchgroup.com or (206) 489-2363.

SCREENER

PASS-IN VARIABLES
VERSION*: 1=PHONE none=web------PASSED IN THROUGH SAMPLE*
TYPE*: 1=STUDENT, 2=FACULTY, 3=STAFF------PASSED IN THROUGH SAMPLE*
BARGAIN*: 1=RECEIVED U-PASS AS PART OF A BARGAINED BENEFITS PACKAGE------PASSED IN THROUGH SAMPLE*
TYPEGROUP*: 1=STUDENTS, 2=EMPLOYEES------ASSIGNED AT S1*
FTSTD*: 1=PART TIME, 2= FULL TIME ------ASSIGNED AT ZIP*
TRANSITSUM*: TOTAL NUMBER OF TRANSIT TRIPS TAKEN FROM TRANSIT1------ASSIGNED AT TRANSIT2*
LINKSOUNDER*: TOTAL NUMBER FO RAIL TRIPS TAKEN FROM TRANSIT1------ASSIGNED AT TRANSIT2*
EMAIL*: Email address, this is to be assigned In CTR1*

IF TYPE EQ 01: RESTORE [ATTEND CLASSES OR OTHER SPECIFIED WORDING] WHERE SPECIFIED
IF TYPE EQ 02 OR 03: RESTORE [WORK] WHERE SPECIFED

S1   Do you **[**work **/** attend classes**]** on the Seattle campus or in a UW owned or leased building in the University District?

> 01   No, neither **[MUTUALLY EXCLUSIVE]**
> 02   Yes, on Seattle campus
> 03   Yes, in the University District

POST SKIP: IF S1 = 1 AND (TYPE = 2) OR (TYPE = 3) SKIP TO 2A
POST SKP: IF S1 = 1 AND TY[E = 1 SKIP TO TermNotAtUW

PRESKIP: IF TYPE=1 SKIP TO NEXT QUESTION
PRESKIP: IF S1 <> 1ASK S2 IF TYPE EQ 02 OR 03 AND S1=2

S2   In which building in the U-District do you work?

Open-ended question

PRE SKIP: IF S1 <> 1 OR TYPE=1 SKIP TO NEXT QUESTION

S2A   Where do you work?

> **[Open-ended question]**

POST SKIP: ALWAYS SKIP TO TermNotAtUW

PRESKIP: IF TYPE = 1 SKIP TO NEXT QUESTION

S3   Are you employed…?

        01   Full-time (35 hours or more per week)
        02   Part-time (20 to 34 hours per week)
        03   Part-time (less than 20 hours per week)
        888   Something else **(please describe)** **[FORCE SPECIFY]**

PRESKIP: IF TYPE = 1 SKIP TO NEXT QUESTION

S3A   Is your position intended to last 12 months or more?

        01   No
        02   Yes

PRE SKIP: IF TYPE = 2 OR TYPE = 3 SKIP TO NEXT QUESTION

S4   How many credits are you currently registered for this quarter?

(Enter '999' if you do not know)

Number of credits: ___

PRE SKIP: S4 < 999 SKIP TO NEXT QUESTION
PRE SKIP: IF TYPE = 2 OR TYPE = 3 SKIP TO NEXT QUESTION

S4A   Are you a full-time or part-time student?
        01   Full time
        02   Part time

GENERAL TRAVEL

ZIP   What is the zip code associated with your current residence **[IF TYPE EQUALS 01 SHOW** "while attending the UW"**]**?

         Zip Code: _____

POPULATE VARIABLE: FTSTD
if (GETVALUE("S4") < 10) SETVALUE("FTSTD", 1),
elsif ((GETVALUE("S4") > 9) && (GETVALUE("S4") < 999)) SETVALUE("FTSTD", 2),
if (GETVALUE("S4A") == 2) SETVALUE("FTSTD", 1),
elsif (GETVALUE("S4A") == 1) SETVALUE("FTSTD", 2),

PRE SKIP: IF TYPE <> 1 SKIP TO NEXT QUESTION

GT1   Do you live in…

         01   UW housing, on campus
         02   UW housing, off campus
         03   A fraternity or sorority
         04   Non-UW housing
         888   Something else *(please describe)*

PRE SKIP: IF GT1=1 SKIP TO CTR1

GT1A   How many miles is it from where you live to the UW main campus? Your best estimate is fine.
(Decimal's allowed)

IF VERSION == 1 DISPLAY: **(INTERVIEWER – IF RESPONDENT IS HAVING A TOUGH TIME)**
"What are your cross streets, I can look up the mileage for you."

IF VERSION != 1 DISPLAY: *"If not sure, please use the link below to calculate the mileage. The link is in no way connected to the survey, we will not have any access to what you type into the address field in Google Maps. It will just give you an accurate mileage number to type into the survey"*

         [GOOGLE LINK TO POP OPEN IN NEW TAB/WINDOW]
         https://www.google.com/maps/dir//47.6559845,-122.3092919/@47.6581308,-122.3147636,16z

         Number of miles: _____

GT2   To what extent did your options for commuting to the UW influence your choice of where you live?
         01   Not a consideration at all
         02   Somewhat of a consideration
         03   Major consideration

GT3   Which of the following best describes the bus or rail service available from where you live to the UW?
- 01   No service available
- 02   There is direct service from where you live to the UW
- 03   There is service available from where you live to the UW but requires transferring
- 04   There is direct service available from a park-and-ride lot to the UW

PRE SKIP: IF GT3 = 1 OR GT3 > 4 SKIP TO NEXT QUESITON

GT4   How well does the transit service from where you live to the UW meet your needs and expectations for each of the following?

	Does Not Meet Needs and Expectations	Meets Needs and Expectations	Exceeds Needs and Expectations	I don't know
Frequency of Service	○	○	○	○
# of Transfers Required	○	○	○	○
Travel Time *(amount of time it takes to get to/from the UW)*	○	○	○	○
Cost	○	○	○	○
Reliability (on-time)	○	○	○	○
Perception of safety	○	○	○	○
Availability of seats	○	○	○	○
Time of day service is available	○	○	○	○

GT5   Do you personally have any of the following regularly available for your commute?
(Select all that apply)

- 01   Car or truck
- 02   Motorcycle or moped
- 03   Bicycle or skateboard
- 04   Personal electronic transportation device such as a hoverboard, one-wheel, or electric scooter
- 97   None of the above **[MUTUALLY EXCLUSIVE]**

PRE SKIP: IF GT5 <> 3 SKIP TO NEXT QUESTION

GT6   Is your bicycle or skateboard a traditional, human powered device, or is an electronic or E-assist type device? If you have more than one type, select all that apply.
(Select all that apply)

- 01   Traditional, human powered device
- 02   Electronic / E-assist type device

GT7   How do you travel between two destinations within the UW main campus? *(e.g. between the Husky Union Building to the chemistry building?)*

(Select all that apply)

01	Walk
02	Bike using a personal bicycle
03	Use a bike share such as Lime or JUMP
04	Ride a bus
05	Ride share such as Uber, Lyft, or a taxi
06	Some other way *(Please tell us)*
07	I do not use single mode most often [not shown in gt7, only shown in gt7a]

GT7A   What do you do most often when traveling between two destinations within the UW main campus?

SELECT ONLY ONE: DISPLAY ONLY THOSE SELECTED IN GT7

CTR TRAVEL BEHAVIOR

CTR1   Over the past week, which of the following days did you **physically** [work / attend classes] at the UW main campus or in the U District?

SUNDAY	MONDAY	TUESDAY	WEDNESAY	THURSDAY	FRIDAY	SATURDAY	I did not commute to UW or the University district during the past week [MUTUALLY EXCLUSIVE]
○	○	○	○	○	○	○	○

POPULATE VARIABLE: EMAIL
PERL SYNTAX TO ASSIGN EMAIL BASED ON USERID ISSUED HERE.

PRE SKIP: IF CTR1 = 8 (DID NOT COMMUTE) SKIIP TO NEXT QUESTION
PRE SKIP: IF GT1 == 1 SKIP TO COMM_INT
SHOW ONLY DAYS SELECTED IN CTR1

CTR2   What time did you **arrive** on campus on each of the days below? Enter the time and then check AM or PM *(e.g. If you arrive on campus at 8:30 a.m., then input Hour: 8 and MINUTES: 30 then check AM).*

(Your best estimate is fine.)

	SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
ENTER TIME	___:__	___:__	___:__	___:__	___:__	___:__	___:__
A.M.	○	○	○	○	○	○	○
P.M.	○	○	○	○	○	○	○

PRE SKIP: IF CTR1 = 8 (DID NOT COMMUTE) SKIIP TO NEXT QUESTION
SHOW ONLY DAYS SELECTED IN CTR1

CTR3   What time did you **leave** campus on each of the days below? Enter the time and then check AM or PM *(e.g. If you leave campus at 5:00 p.m., then input Hour: 5 and MINUTES: 00 then check PM).*

(Your best estimate is fine.)

	SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
ENTER TIME	___:__	___:__	___:__	___:__	___:__	___:__	___:__
A.M.	○	○	○	○	○	○	○
P.M.	○	○	○	○	○	○	○

Q9D   Did your time **[WORKING / ATTENDING CLASS]** on campus extend past midnight on any day last week?

        01   No
        02   Yes
        998   **[PHONE NOTATION: (DO NOT READ)]** Don't know
        999   **[PHONE NOTATION: (DO NOT READ)]** Prefer not to answer

---

DISPLAY Q9E IF Q9D=01 (YES)

Q9E   On which days did you stay past midnight?

[PHONE NOTATION] (READ LIST AND SELECT EACH DAY THE RESPONDENT INDICATES)

[WEB DISPLAY] Select the day that you arrived on campus before midnight to indicate you stayed past midnight that evening…

[ONLY DISPLAY DAYS SELECTED IN Q9A, MULTIPLE SELECT]

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
○	○	○	○	○	○	○

CTR4 You indicated, that you did **not [**work **/** attend classes**]** at the UW campus or in the University District on the following days. Did you telecommute or **[**work **/** attend classes**]** from a remote location for any of these days?

SUNDAY	MONDAY	TUESDAY	WEDNESAY	THURSDAY	FRIDAY	SATURDAY	I did not telecommute to the UW or U-District during the past week **[MUTUALLY EXCLUSIVE]**
⭕	⭕	⭕	⭕	⭕	⭕	⭕	⭕

IN TRANSIT1 I THERE IS LOGIC TO AUTOCODE EACH DAY INDICATED HERE AS "TELECOMMUTE' IN THE COMM SERIES.

COMM_INT For the next few questions, think about how you traveled to the UW campus / University District in the previous week. You will be asked to describe your commute for each day you went to campus. Your trip may have been very straightforward, like walking to campus, or you may have used a number of different types of transportation. For these questions think of all the different ways you traveled as a "leg" of each day's commute.

(Press "next" to continue)

POST SKIP: ALWAYS SKIP TO COMM1

SET UP A LOOP FROM COMM5 TO COMM6.

CREATE LOOP AND REPEAT LOOP FOR EACH DAY SELECTED IN CTR1

NOTE: COMM5 WILL NOT BE SHOWN WHEN THE ENTER THE LOOP AS COMM_INT SKIPS OVER. SO FROM A RESPONDENT PERSPECTIVE COMM5 IS THE LAST QUESTION

COMM5 On **[%LoopLabel()%]**, did you use the same mode of travel as just described?

    01   No
    02   Yes

COMM1   Thinking about your travel **from where you live to the UW** on **[%LoopLabel()%]**, how did you get to **[**work **/** class**]**?

(Please select all modes you used on **[%LoopLabel()%]** even if it was just for a short distance)

IF GT1 == 1 DISPLAY: "If you live on campus, please list how you get from your home to where you [work / attend class] on campus."

- 01   Drive alone or with children under 16 in a personal vehicle
- 02   Drive alone in a Car Share vehicle such as Car2Go or Zipcar
- 03   Use a ride-hailing service such as Uber, Lyft or a taxi
- 04   Carpool with 2 or more people *(does **not** include ride-hailing services such as Uber, Lift, or Taxi)*
- 05   Vanpool
- 06   Ride a motorcycle, moped, or scooter
- 07   Link Light Rail
- 08   King County Metro bus
- 09   Sound Transit bus
- 10   Community Transit bus
- 11   Everett Transit bus
- 12   Pierce Transit bus
- 13   Kitsap Transit bus
- 14   Seattle Streetcar
- 15   King County Water Taxi
- 16   Sounder Commuter Rail
- 17   Kitsap Fast Ferry
- 18   Washington State Ferries
- 19   Bicycle
- 20   Walk
- 21   Health Sciences Express Shuttle
- 22   Some other mode *(Please tell us)*
- 23   Telecommute **[DO NOT DISPLAY]**

PRE SKIP: IF COMM1 <> 4 SKIP TO NEXT QUESITON

COMMCP **Including yourself**, how many people 16 and older were in the carpool vehicle on **[%LoopLabel()%]**?

Number of people: _____

PRE SKIP: IF COMM1 <> 5 SKIP TO NEXT QUESITON

COMMVP **Including yourself**, how many people 16 and older were in the vanpool vehicle on **[%LoopLabel()%]**?

Number of people: _____

PRE SKIP: IF COMM1 <> 6 SKIP TO NEXT QUESITON

COMMMOTO   **Including yourself**, how many people 16 and older were on the motorcycle, moped, or scooter on **[%LoopLabel()%]**?

Number of people: _____

COMMLR1   At which station did you **board** the Link Light Rail on **[%LoopLabel()%]**?

COMMLR2   At which station did you **get off** the Link Light Rail on **[%LoopLabel()%]**?

    01 Angle Lake Station
    02 SeaTac Airport
    03 Tukwila / International Blvd
    04 Rainier Beach
    05 Othello
    06 Columbia City
    07 Mount Baker
    08 Beacon Hill
    09 SODO
    10 Stadium
    11 International District / Chinatown
    12 Pioneer Square
    13 University Street
    14 Westlake
    15 Capitol Hill
    16 University of Washington *(Husky Stadium)*

COMM2   Which part of your trip covered the longest distance, based on miles traveled on **[%LoopLabel()%]**?

DISPLAY ONLY THOSE MODES SELECTED IN COMM1

COMM3   Which mode did you use to enter the UW Campus / the University District on **[%LoopLabel()%]**?

DISPLAY ONLY THOSE MODES SELECTED IN COMM1

COMM4   How long **in minutes** did your entire commute take from leaving your home to arriving at your final UW destination on **[%LoopLabel()%]**?

(Use your best estimate)

Number of minutes ___

PRE SKIP: IF COMM3 <> 8 AND COMM3 <> 9 AND COMM3 <> 10 AND COMM3 <> 11 AND COMM3 <> 12 AND COMM3 <> 13 SKIP TO NEXT QUESITON (IF THEIR LAST LEG WAS NOT A BUS SKIP)

COMM6   **When you take the bus to campus on [%LoopLabel()%]**, how long did it take you to walk from where you got off the bus to your final destination?

(Use your best estimate)

Number of minutes ___

BICYCLE

BIKECOMM1 When you use a bicycle as part of your commute, how far do you ride?

(Use your best estimate)

Number of Miles: _____

BIKECOMM2 When you use a bicycle as part of your commute trip, do you use a personal bike or a Bike Share program such as Lime?

(Select all that apply)

> 01   Personal bike
> 02   Bike Share

BIKECOMM2A   If the bike share were not available, how would you have made that portion of your commute trip?

> 01   Walk
> 02   Ride your own bike
> 03   Take a bus
> 04   Gotten a ride from someone a friend of family member
> 05   Use a rideshare service such as Uber, Lyft, or a Taxi
> 05   Driven myself in a personal vehicle
> 06   Drive myself using a carshare vehicle such as Car2Go or Zipcar
> 888   Some other way **(please describe)**
> 997   I would not have made the trip

BIKECOMM3 When you use a bike as part of your commute trip, do you typically park the bike…

(Select all that apply)

> 01   At a transit center, park and ride or train station
> 02   At the ferry terminal
> 03   At a bike rack on the UW campus
> 04   In a bicycle locker on the UW campus
> 05   In a dedicated storage room on the UW campus
> 06   In a fenced, locked bicycle enclosure (e.g., in the UW tower garage)
> 07   In your office
> 08   In a parking garage/bike rack in parking garage
> 888   Someplace else *(Please tell us)*

BIKECOMM3A   At which transit center, park and ride or train station do you park your bike?

[OPEN END]

BIKECOMM3B At which ferry terminal do you park your bike?

[OPEN END]

PRE SKIP: IF BIKECOMM3 <> 3 AND BIKECOMM3 <> 4 AND BIKECOMM3 <>5 AND BIKECOMM3 <> 6 SKIP TO NEXT QUESITON

BIKECOMM3C How satisfied are you with each of the following aspects of bicycle parking on campus?

RANDOMIZE BIKECOMM3C_B THRU BIKECOMM3C_E

	Very Dissatisfied	Somewhat Dissatisfied	Somewhat Satisfied	Very Satisfied
A Overall satisfaction with bicycle parking on campus	❍	❍	❍	❍
B Availability of bicycle parking on campus	❍	❍	❍	❍
C Security of bicycle parking on campus	❍	❍	❍	❍
D Quality of bicycle parking facilities on campus	❍	❍	❍	❍
E Proximity of bicycle parking facilities to your final destination	❍	❍	❍	❍

BIKECOMM4 Which of the following would encourage you to bike to campus more often?
1. Additional secure bicycle parking locations *(e.g. lockers, enclosures, rooms)*
2. Additional covered bicycle parking
3. More bicycle racks
4. Showers and clothes lockers at your destination
5. More signs and shared lane pavement markings
6. More bicycle lanes, separated cycle tracks, and off-street paths
7. More neighborhood greenway routes on residential streets
8. Guaranteed ride home in the event of an emergency
9. I already bike commute every day **[MUTUALLY EXCLUSIVE]**
10. None of these would encourage me to bike commute more often **[MUTUALLY EXCLUSIVE]**

BIKECOMM4A Of those you selected, which one would be most effective in encouraging you to bike to campus more often?

BIKECOMM4B Of those items you did **not** select, which one has the least impact on increasing the frequency that you bike to campus?

BIKESHARE1 In the past month, have you used any bike share services such as Lime or JUMP?
  01 No
  02 Yes

BIKESHARE1A Have you taken advantage of the discount provided to UW employees and students through UW Transportation Services partnership with Lime and JUMP?
  01 No
  02 Yes
[% SETVALUE(BIKESHARE = 2) %] basically, everyone who gets this has used bikeshare.

BIKESHARE2 How many times do you use bike share services in a typical week?
_____ **[NUMERIC – RANGE: 0-99]**
  998 **[PHONE NOTATION: (DO NOT READ)]** Don't know
  999 **[PHONE NOTATION: (DO NOT READ)]** Prefer not to answer

BIKESHARE3 For what reasons do you typically use Bike Share?
(Select all that apply)

      01   Travel around campus
      02   Travel between home and campus
      03   Travel between campus and nearby businesses
      04   Travel to or from a bus stop or Link Light Rail Station
      05   Travel that does not involve campus or public transportation
      888   **[PHONE NOTATION: (DO NOT READ)]** Other (**please describe**)
          998   **[PHONE NOTATION: (DO NOT READ)]** Don't know
          999   **[PHONE NOTATION: (DO NOT READ)]** Prefer not to answer

PRE SKIP: IF COMM3 <> 1 AND COMM3 <> 2 AND COMM3 <> 4 AND COMM3 <> 5 AND COMM3 <> 6 SKIP TO NEXT QUESTION

PARK1 When you **[drive / carpool / vanpool]** to campus, where do you **typically** park?
01 A University lot or garage
02 Paid on-street parking
03 Free on-street parking
04 In a private or city lot or garage
888 Somewhere else *(please describe)*
996 Didn't park / got dropped off

PRE SKIP: IF COMM3 <> 1 AND COMM3 <> 2 AND COMM3 <> 4 AND COMM3 <> 5 AND COMM3 <> 6 SKIP TO NEXT QUESTION

PARK2 How long does it **typically** take you to walk from where you left your vehicle to your final destination?

Number of minutes walked: _____

PRE SKIP: IF PARK1 <> 1 SKIP TO NEXT QUESTION
PRE SKIP: IF COMM3 == 5 (IF THEY VANPOOL ONTO CAMPUS SKIP)

PARK3 Which of the following parking products do you use when parking on campus?
01 SOV permit
02 Individual Commuter Tickets or ICTs
03 Carpool permit
04 Night parking permit
05 Pay-per-use Parking or P.P.U.P. **[PHONE NOTATION: (PRONOUNCED "PUP")]**
06 Swing shift permit
07 Motorcycle permit
08 Gatehouse-issued daily parking permit
09 Gatehouse-issued carpool parking permit
10 Machine-issued hourly parking permit
11 Other *(Please tell us)*

PRE SKIP: IF PARK4 <> 1 AND PARK4 <> 2 AND PARK4 <>3 AND PARK4 <> 4
SKIP TO NEXT QUESTION **PARK4** When you carpool are you typically…
(Select the one that applies most often)
01 The driver
02 The passenger
03 Share driving responsibility equally
04 It varies
05 Each time I carpooled in the past week as part of my commute I used a ride sharing service **(AS NEEDED:** such as Uber, Lyft, or a Taxi**)**

PARK4A   Were you or some other members of your carpool dropped off at somewhere other than a UW owned or leased building on the main campus or in the U-District?
(Select all that apply)

    01   I was dropped off somewhere else
    02   Other members of the carpool were dropped off
    888   Something other arrangement else **(please describe) [FORCE SPECIFY]**
    03   No one dropped off **[MUTUALLY EXCLUSIVE]**

PARK4B   To what extent was free carpool parking fees a factor in your decision to carpool?
[PHONE TEXT] Was it… **(READ LIST)**
    01   Not a consideration at all
    02   Somewhat of a consideration
    03   Major consideration
    998   **[PHONE NOTATION: (DO NOT READ)]** Don't know
    999   **[PHONE NOTATION: (DO NOT READ)]** Prefer not to answer

PARK4C   How satisfied are you with each of the following aspects of carpool parking on campus?

RANDOMIZE PARK4B, PARK4C, PARK4D, PARK4E

	Very Dissatisfied	Somewhat Dissatisfied	Somewhat Satisfied	Very Satisfied
A Overall satisfaction with carpool parking on campus	❍	❍	❍	❍
B Availability of carpool parking on campus	❍	❍	❍	❍
C Security of carpool parking on campus	❍	❍	❍	❍
D Attractiveness of carpool parking facilities on campus	❍	❍	❍	❍
E Proximity of carpool parking facilities to your final destination	❍	❍	❍	❍

PARK5   How satisfied are you with each of the following aspects of vanpool parking on campus?

RANDOMIZE PARK5B, PARK5C, PARK5D, PARK5E

	Very Dissatisfied	Somewhat Dissatisfied	Somewhat Satisfied	Very Satisfied
A Overall satisfaction with vanpool parking on campus	❍	❍	❍	❍
B Availability of vanpool parking on campus	❍	❍	❍	❍
C Security of vanpool parking on campus	❍	❍	❍	❍
D Attractiveness of vanpool parking facilities on campus	❍	❍	❍	❍
E Proximity of vanpool parking facilities to your final destination	❍	❍	❍	❍

UPASS USERS

UPASS2A Our records indicate that you receive your U-PASS at no cost to you through your employment benefits package. Did you have a U-PASS before receiving the benefited pass?
- 01 No
- 02 Yes

UPASS2B

Has having this benefited U-PASS affected your transit usage?
- 01 No
- 02 Yes

UPASS1 Do you have a U-PASS that is valid for Fall Quarter 2019?
- 01 No
- 02 Yes

AUTO POPULATION SCRIPTING ON THIS PAGE: POPULATING COMMUTE DAYS AS TELECOMUTE WHERE NEEDED
IF (GETVALUE("CTR4_R1_CX") == 1) SETVALUE("COMM1_23.X",1))
IF TELECOMMUTE ON ANY GIVEN DAY IN CTR4 AUTOPOPULATE THE COMMUTE MODE AS TELECOMMUTE IN THE DIARY

UPASS1A How long have you had a U-PASS?
- 01 First quarter I have had one **[PHONE NOTATION (INTERVIEWER: CHOOSE IF ISSUED AFTER SEPT 1, 2019)]**
- 02 Less than one year
  - 03 1 to 2 years
  - 04 3 to 5 years
  - 05 More than 5 years
  - 888 Other *(please tell us)*

UPASS2 Did you…
- 01 Purchase your U-PASS
- 02 Receive a U-PASS with an SOV **[PHONE NOTATION: (Single Occupancy Vehicle)]** parking permit
- 03 Receive a U-PASS with a carpool parking permit
- 04 Receive a U-PASS with a motorcycle parking permit
- 05 Receive a U-PASS as part of your vanpool membership888 Something else *(Please tell us)*

UPASS3   Did you…
- 01   Receive a U-PASS with your tuition and fees
- 02   Purchase a U-PASS from UW Professional and Continuing Education
- 03   Purchase a U-PASS from UW Transportation Services
- 04   Purchased as a staff / employee
- 888   Something else *(please tell us)*

PRE SKIP: IF UPASS1 <> 2 SKIP TO NEXT QUESTION

UPASS4   How often have you used your U-PASS to do each of the following…
[RANDOMIZE LIST]

		Never	Rarely	Sometimes	Frequently
UPASS4_A	Ride the Link Light Rail	❍	❍	❍	❍
UPASS4_B	Ride the Night Ride shuttle	❍	❍	❍	❍
UPASS4_C	**[DISPLAY FOR TYPE EQ 02,03 ONLY]** Get an emergency ride home	❍	❍	❍	❍
UPASS4_D	Get discounted parking for carpools	❍	❍	❍	❍
UPASS4_E	Cover up to $80 per month of your vanpool fare	❍	❍	❍	❍
UPASS4_F	Ride transit as part of your commute	❍	❍	❍	❍
UPASS4_G	Ride transit for other / non-commute purposes	❍	❍	❍	❍

ASK UPASS5 OF ALL RESPONDENTS

UPASS5   Have you used the Commute Options service to receive personalized commute assistance to campus?

- 01   No
- 02   Yes

PRESKIP: IF UPASS5A <> 2 SKIP TO NEXT QUESTION

UPASS5A Did the Commute Options service affect how you commute to campus?

- 01   No
- 02   Yes

UPASS6   How much do you agree or disagree with the following statements about the U-PASS program

❍	❍	❍	❍	❍	❍

	Strongly Disagree	Somewhat Disagree	Neither Agree nor Disagree	Somewhat Agree	Strongly Agree
[SHOW IF TYPE=1] **UPASS6_A** The U-PASS makes it easier to attend classes at the UW	❍	❍	❍	❍	❍
[SHOW IF TYPE=2 | 3] **UPASS6_B** The U-PASS is a benefit of working at the University of Washington?	❍	❍	❍	❍	❍
[SHOW IF TYPE=2 | 3] **UPASS6_C** The U-PASS is worth the cost	❍	❍	❍	❍	❍
[SHOW TO ALL] **UPASS6_D** The benefits received from the U-PASS are important to me	❍	❍	❍	❍	❍

NON-UPASS USERS

NOPASS1 Have you ever had or considered having a U-PASS?

> 01   No, have never had nor considered having a U-PASS
> 02   Yes, have considered getting a U-PASS
> 03   Yes, had a U-PASS in the past

NOPASS2 How likely are you to get a U-PASS in the future?

Not at All Likely	Not Very Likely	Not Sure Either Way	Somewhat Likely	Very Likely
❍	❍	❍	❍	❍

NOPASS3 What would encourage you to get a U-PASS?

[PHONE NOTATION] **(PROBE TWICE OR UNTIL UNPRODUCTIVE AND CLARIFY AS NEEDED. WE'RE LOOKING FOR <u>AT LEAST</u> TWO RESPONSES)**

Open-ended question – codes below are for post coding reference only

Post-codes:
1   Cheaper/lower price
2   If it was free
3   Cheaper/discounted rates for less frequent/occasional/sporadic use
4   Lower Senior rate
5   Cheaper/free for staff/employees/part-time employees
6   Discounted/free parking
7   Lower price/discount for bicyclists
8   Ability to pay per use/pay as you go
9   Easier/more convenient (unspecified)
10   Reliable/on time service
11   Faster commute/less travel time
12   Better connections (unspecified)
13   Direct routes/no transfers
14   More frequent buses/bus service
15   If I worked different hours/if bus schedule fit my schedule/work schedule
16   Earlier/early morning service
17   Later evening/night service
18   Less crowded buses/evening buses
19   If buses were more comfortable
20   Safety/security
21   More options (unspecified)
22   Better bus service (unspecified)
23   If service was closer to my home
24   If service was closer to my home
25   Distance/if I lived further away/out of walking/biking distance
26   If I couldn't walk/ride my bike
27   If I needed to use the bus more often
28   If I couldn't drive/carpool/didn't have a vehicle/car broke down
29   Better service to/from West Seattle
30   When light rail terminal is finished/light rail to/from Capitol Hill is complete
31   Other specified parking mentions
32   Need to know more about it
33.   Need my car for emergencies/family reasons
94.   Other Cost mentions
888   Other
997   Nothing/don't need it
998   DON'T KNOW
999   PREFER NOT TO ANSWER

TRANSIT SYSTEM USE

TRANSIT1   Thinking about all of your travel over the past 7 days, how many one-way trips did you take on each of the following transit systems for any purpose?

     [PHONE NOTATION] (AS NEEDED) A round trip counts as 2 trips.

     [PHONE NOTATION] (IF NECESSARY) If your trip included transfers between buses on the same system, count it as 1 trip on that system. If your trip included transfers from one transit system to another, count 1 trip for each transit system used. For example, if you transferred from a King County Metro bus to another King County Metro bus, that would count as one trip on King County Metro – but if you transferred from a King County Metro bus to a Sound Transit bus, that would count as one trip on each system, one trip for King County Metro and one trip for Sound Transit.

     [PHONE NOTATION] (READ LIST AND RECORD NUMBER OF TRIPS FOR EACH)

TRANSIT2A   How many of the trips you took last week on each of the following public transportation systems were to or from the UW campus or U-District?

[PHONE NOTATION] (READ LIST AND RECORD NUMBER OF TRIPS FOR EACH. PREVIOUS TRIPS/TOTALS SHOWN FOR REFERENCE ONLY.)

TRANSIT3B   How many of the trips you took last week on each of the following public transportation systems were between two points in the U-District?

     [PHONE NOTATION: (AS NEEDED)] The U-District is defined as east of I-5, north of Portage Bay and the Montlake cut, South of Ravenna Boulevard and West of Mary Gates Drive.

     [PHONE NOTATION] (READ LIST AND RECORD NUMBER OF TRIPS FOR EACH. PREVIOUS TRIPS/TOTALS SHOWN FOR REFERENCE ONLY.)

	TRANSIT1	TRANSIT2B	TRANSIT2A
	Total # of One-Way Trips	# of One-Way Trips entirely within the U-District	# of One-Way Trips to / from UW Campus
King County Metro	___	___	___
Sound Transit Express Buses	___	___	___
Community Transit	___	___	___
Link Light Rail	___	*n/a*	___
Seattle Streetcar	___	*n/a*	*n/a*
Everett Transit	___	*n/a*	*n/a*
Pierce Transit	___	*n/a*	*n/a*
Kitsap Transit	___	*n/a*	*n/a*
Sounder Commuter Rail	___	*n/a*	*n/a*
Kitsap Fast Ferry	___	*n/a*	*n/a*
King County Water Taxi	___	*n/a*	*n/a*
Washington State Ferries	___	*n/a*	*n/a*

CREATE A NEW VARIABLE TRANSIT_SUM*:*
THIS IS THE SUM OF ALL ONE-WAY TRIPS TAKEN ON ALL SYSTEMS IN TRANSIT1

CREATE A NEW VARIABLE LINK_SOUNDER*:*
THIS IS THE SUM OF Q40A FOR LINK LIGHT RAIL AND SOUNDER COMMUTER RAIL IN TRANSIT1.

PRE SKIP: IF LINK_SOUNDER < 1 SKIP TO NEXT QUESITON

TRANSIT3 You indicated you took **[RESTORE VALUE FROM LINK_SOUNDER]** one-way trips on Link Light Rail or Sounder Commuter Rail in the past 7 days. Did you tap your U-PASS on the ORCA reader every time you got on **and** off the Link Light Rail or Sounder Commuter Rail?

    01   No
    02   Yes, every time

PRE SKIP: IF TRANSIT_SUM < 1 SKIP TO NEXT QUESITON

TRANSIT4 What is the **primary** purpose for the trips that you take on public transportation?

    01   Commuting to or from the UW
    02   Commuting or traveling for work to locations off campus
    03   Non-commute trips such as shopping, recreation, or visitingpeople
    998   **[PHONE NOTATION: (DO NOT READ)]** Don't know
    999   **[PHONE NOTATION: (DO NOT READ)]** Prefer not to answer

TRANSIT5 When you rode Metro, how did you pay your fare?

01   ORCA Card
       02   Cash
       03   Tickets
       04   U-PASS
       05   Senior pass
       06   Free ticket
       888   Other *(Please tell us)*

IF SKIPPED DUE TO UPASS1 = 1 AND KCMETRO > 0 THEN AUTOCODE TRANSIT5 = 4

TRANSIT5A   Which of the following products do you have on your ORCA Card?

       (Select all that apply)
       01   Monthly pass that you purchased yourself
       02   Monthly pass purchased by someone else (e.g., employer)
       03   E-Purse
       04   Day pass
       888   Something else *(Please tell us)*

TRANSIT6 Overall, how satisfied are you with UW Transportation Services?
[PHONE NOTATION] **(READ LIST)**
       01   Very dissatisfied
       02   Somewhat dissatisfied
       03   Somewhat satisfied
       04   Very satisfied

AUTO POPULATION SCRIPTING ON THIS PAGE: POPULATING TRANSIT5 AS UPASS WHERE NEEDED
if ((GETVALUE("UPASS1")==2 && GETVALUE("TRANSIT1_r1_c1")>0)) SETVALUE("TRANSIT5_4", 1);

WRAP UP

These final questions will help us group your answers with others. Please let us assure you that all of your responses will remain completely confidential.

AGE   What is your age?
           AGE: ___

PRE SKIP: IF AGE < 998 SKIP TO NEXT QUESITON

AGECAT Are you…

[PHONE NOTATION] **(READ LIST)**
        01   Under the age of 18
        02   Between 18 and 24
        03   Between 25 and 34
        04   Between 35 and 44
        05   Between 45 and 54
        06   Between 55 and 64
        07   65 or older
        998   **[PHONE NOTATION: (DO NOT READ)]** Don't know
        999   **[PHONE NOTATION: (DO NOT READ)]** Prefer not to answer

GENDER   Do you identify as…
        01   Male
        02   Female
        03   Gender non-binary or non-conforming
        04   Transgender
        888   Other gender identity (Please tell us:_____)

AUTO POPULATION SCRIPTING ON THIS PAGE: POPULATING AGECAT FOR ALL RESPONDENTS
if ((GETVALUE("AGE")> 12 && GETVALUE("AGE") < 18)) SETVALUE("AGECAT", 1),
elsif ((GETVALUE("AGE")> 17 && GETVALUE("AGE") < 25)) SETVALUE("AGECAT", 2),
elsif ((GETVALUE("AGE")> 24 && GETVALUE("AGE") < 35)) SETVALUE("AGECAT", 3),
elsif ((GETVALUE("AGE")> 34 && GETVALUE("AGE") < 45)) SETVALUE("AGECAT", 4),
elsif ((GETVALUE("AGE")> 44 && GETVALUE("AGE") < 55)) SETVALUE("AGECAT", 5),
elsif ((GETVALUE("AGE")> 54 && GETVALUE("AGE") < 65)) SETVALUE("AGECAT", 6),
elsif (GETVALUE("AGE")> 64) SETVALUE("AGECAT", 7)

LICENSE   Do you have a valid driver's license?

        01   No
        02   Yes

SMARTPHONE   Do you have access to a Smartphone or similar handheld internet-capable device that you use while on campus?

        01   No
        02   Yes

PRE SKIP: IF VERSION = 1 SKIP TO NEXT QUESTION

COFFEE   Would you like to receive your free $5 Starbucks gift card as a "thank you" for completing this survey?

        01   No
        02   Yes

PRE SKIP: IF COFFEE <> 2 SKIP TO NEXT QUESTION

COFFEE1   The gift card will be sent electronically, via email, at the end of the study. Please confirm that the email address below is the email address you would prefer we send the gift card.

[DISPLAY EMAIL ADDRESS FROM SAMPLE]

        01   No, I would prefer that you send the gift card to a different email address than the one above
        02   Yes, this is the email address to send the gift card to

PRE SKIP: IF COFFEE1 <> 1 SKIP TO NEXT QUESTION

COFFEE2   Please provide the email address to which you would like the gift card sent.

        ENTER EMAIL ADDRESS: _____
        RE-ENTER EMAIL ADDRESS TO CONFIRM: _____
        998   Don't know
        999   Prefer not to answer

ASK FUTURE OF ALL

FUTURE   Would you be willing to participate in additional research to help UW Transportation Services better serve students, faculty and staff?

        01   No
        02   Yes

Thank you for participating in this important study. The information you provided today will help the UW better serve your transportation needs.

[Blank page inserted for pagination purposes.]

University of Washington 2019 Transportation Study
Date: March 2020

Appendix V: Outreach Materials

UW Email Notification – pre-notification of selection <mark>– Sent by UW</mark>

Subject line: How do you get to campus? We need your help to improve campus transportation

Dear **[Preferred_Name]**:

Every year, the University of Washington conducts an important study to gather information regarding how students, faculty and staff commute to campus. The information gathered in this study is used to help improve transportation to, from, and around the U-District. Additionally, it provides the data needed to assist the University in complying with State and City regulatory requirements associated with reducing congestion and managing traffic throughout campus.

You have been randomly selected to participate in this study. The survey results will be used to shape future transportation programs for the University of Washington Seattle campus.

Starting November 19, you will be contacted by Northwest Research Group (NWRG) with instructions for participants and a link to the online questionnaire. NWRG is working with the UW to complete this survey. All survey responses will remain confidential, although anonymous, summarized data will be available to the public sometime next year.

To show our appreciation, participants who complete the survey online will receive a $5 coffee card. If we do not receive a response online, NWRG interviewers will follow-up with participants via telephone.

You can and will help the UW better understand the campus community's transportation needs. If you have questions, please contact UW Transportation Services at ucommute@uw.edu or (206) 897-1727 for assistance.

Thank you in advance for your participation.

UW Transportation Services
https://transportation.uw.edu/news/campus-transportation-survey
ucommute@uw.edu/ 206-897-1727

Vendor Email Invitation <mark>– SENT BY NWRG</mark>

Subject line: Your help is needed to improve campus transportation

Dear **[Preferred_Name]:**

Recently, the UW sent you a notification that you have been randomly selected to participate in an important study to shape future transportation programs for campus. Northwest Research Group (NWRG) is working with the UW to complete this research. All survey responses will remain confidential, although anonymous, summarized data will be available to the public sometime next year.

To begin your participation in the study, please click on the link below.

[INSERT SURVEY LINK HERE with unique ID appended to end]

If the above link does not work, please copy the link and paste it into your browser, then press "enter" to begin taking the survey.

In addition to shaping future transportation programs for campus, upon completing the survey online, you will receive a $5 coffee card (instructions on receiving your card will be e-mailed to you after the study is complete in December). If we do not receive a response online, NWRG interviewers will be following up via telephone.

If you have questions, please contact UW Transportation Services at ucommute@uw.edu or (206) 897-1727.

If you have technical survey questions, contact Nathan Wiggin, Project Director at NWRG, at nwiggin@nwresearchgroup.com or (206) 489-2363.

Thank you in advance for your participation in this important research.

UW Transportation Services
https://transportation.uw.edu/news/campus-transportation-survey
ucommute@uw.edu/ 206-897-1727

1st Reminder Email (Northwest Research Group) – SENT BY NWRG

Subject line: We want to hear from you – please help improve campus transportation

Dear **[Preferred_Name]:**

You were selected to take part in the University of Washington's transportation study, but according to our records, have not yet taken the survey. The survey should only take about 10 minutes to complete; will you please take the survey at your earliest convenience? If you have already completed the survey, you may disregard this email.

This study is conducted every year to collect information on how students, faculty, and staff commute to campus. The information gathered in this study will be used to help improve transportation to and around the U-District. Additionally, it provides the data needed to assist the University in complying with State and City regulatory requirements associated with reducing congestion and managing traffic throughout campus.

You have been randomly selected to participate in this study. To show our appreciation, upon completing the survey online, you will receive a $5 coffee card (instructions on receiving your card will be e-mailed to you after the study is complete in December). If we do not receive a response online, NWRG interviewers will be following up via telephone.

Please help the UW transportation system by participating in this important study.

[INSERT SURVEY LINK HERE with unique ID appended to end]

If the above link does not work, please copy the link and paste it into your browser and then press enter to begin taking the survey.

If you have questions, please contact UW Transportation Services at ucommute@uw.edu or (206) 897-1727.

If you have technical survey questions, contact Nathan Wiggin, Project Director at NWRG, at nwiggin@nwresearchgroup.com or (206) 489-2363.

Thank you in advance for your participation in this important research.

UW Transportation Services
https://transportation.uw.edu/news/campus-transportation-survey
ucommute@uw.edu/ 206-897-1727

2nd Reminder Email (Northwest Research Group) – <mark>SENT BY NWRG</mark>

Subject line: Your transportation feedback helps in more ways than one

Dear **[Preferred_Name]:**

You were selected to take part in the University of Washington's transportation study but according to our records, have not yet taken the survey. The survey should only take about 10 minutes to complete; will you please take the survey at your earliest convenience? If you have already completed the survey you may disregard this email.

This study is conducted every year to collect information on how students, faculty, and staff commute to campus. The information gathered in this study will be used to help improve transportation to and around the U-District. Additionally, it provides the data needed to assist the University in complying with State and City regulatory requirements associated with reducing congestion and managing traffic throughout campus.

You have been randomly selected to participate in this study. To show our appreciation, upon completing the survey online, you will receive a $5 coffee card. If we do not receive a response online, NWRG interviewers will be following up via telephone.

Please help the UW transportation system by participating in this important study.

To begin your participation in the study, please click on the link below.

<mark>[INSERT SURVEY LINK HERE with unique ID appended to end]</mark>

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