



Institute for Survey Research  
TEMPLE UNIVERSITY®

# Temple University Transportation Survey Sustainability Audit Report 2016

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# Table of Contents

- Executive Summary ..... iv
- Section 1. Survey Administration and Survey Outcomes.....7
  - Table 1.1 Comparison of 2007, 2010, 2013 and 2016 Un-weighted Survey Response Rates .....7
  - Table 1.2 Unweighted 2016 Response Rates for Complete Surveys .....8
  - Figure 1.3a Map of the Geographic Distribution of Total Survey Responders .....9
  - Figure 1.3b Zoomed Map of the Geographic Distribution of Total Survey Responders.....9
  - Table 1.3 Respondent Totals Weighted up to the Temple University Community .....10
  - Table 1.4 Weighted Survey Respondent Totals and Percentages for Commuters those who Live on Campus.....10
  - Table 1.5 Weighted Survey Respondent Totals and Percentages for Commuters (Not Including Students Who Live on or Walk to Campus).....10
  - Table 1.6 Campus Where Respondents Spent the Most Amount of Time During this Semester .....11
- Section 2. Commuting Modes for Students, Faculty and Staff at the University.....12
  - Table 2.1 One-Way Trips to or from Campus Taken in a Typical Week.....12
  - Table 2.2 Percentage of Community Members that Commute Using Different Modes .....13
  - Table 2.3 Number of Trips Taken Per Week by Mode .....13
  - Table 2.4 Primary Means of Transportation Used to Get to and from Campus .....14
  - Figure 2.1 Reported Passenger Miles per Trip for Commuters.....15
  - Table 2.5 Average Passenger Miles per Trip for Commuters for Primary Mode of Transportation .....15
- Section 3. Driving.....15
  - A. Personal Vehicles for Commuters .....15
    - Table 3.1 Community Members that Commute Driving .....15
    - Table 3.2 Miles Driven as Part of Typical One-Way Commute .....16
    - Figure 3.1 Histogram of Miles Driven as Part of Typical One-Way Commute .....16
    - Table 3.3 Number of People Typically in Vehicle When Drivers Driving to or from Campus ....17
    - Table 3.4 Destinations of Others in the Vehicle when Driving to or from Campus .....17
    - Figure 3.2 Histogram of Estimated Miles per Gallon of Vehicles Used to Commute to/from Campus .....18
    - Table 3.5 Most Common Parking Location for Vehicle on Campus .....18
  - B. Carpooling.....19
    - Table 3.6 Main Reason Why People Do Not Carpool (Or Do Not Carpool More Often) .....19
  - C. Personal Vehicle Ownership of Those Living on Campus.....19
    - Table 3.7 Personal Vehicle Ownership of Students and Staff Who Live on Campus .....20
    - Table 3.8 Parking Location of Personal Vehicles on Campus .....20
    - Table 3.9 Frequency of Using Personal Vehicle .....20

Section 4. Bicycling .....	21
Table 4.1 Community Members that Commute By Bike.....	21
A. Bicycle Commuting .....	21
Table 4.2 Use A Personal Bicycle (Owned by Self or Friend) or Use of Indego (Philadelphia’s Bike Share System) .....	21
Table 4.3 Ability to Find a Spot in a Campus Bicycle Rack .....	21
Table 4.4 Scenarios That Would Encourage TU Community Members to Bike as Part of Their Commute or Bike More Often.....	22
B. Using Indego .....	23
Table 4.5 Have Used Indego (Philadelphia’s Bike Share System) .....	23
Table 4.6a Motivations for Using Indego (% of People Who Found Motivation Important or Very Important) .....	23
Table 4.6b Motivations for Using Indego (Mean Importance Scores).....	24
Table 4.7a Primary Purposes for Using Indego (% of People Who Use Often or Very Often) ...	24
Table 4.7b Primary Purposes for Using Indego (Mean Frequency Score) .....	25
Section 5. Public Transportation .....	26
Table 5.1 Percentage of Community Members that Commute Using Public Transportation ...	26
Table 5.2 For Bus Commuters, Number of Buses Typically Taken to Commute to and from Campus .....	26
Table 5.3 Commuters Using Some form of Public Transportation .....	27
Table 5.4a Likelihood That Students Would Use Public Transportation More .....	27
Table 5.4b Likelihood That Faculty Would Use Public Transportation More .....	28
Table 5.4c Likelihood That Staff Would Use Public Transportation More .....	28
Section 6. Other Forms of Transportation .....	29
Table 6.1 Know About Car Sharing Services.....	29
Table 6.2 Use of Mobile Ride Request Service Such as Uber or Lyft.....	29
Section 7. Selected Campus Comparisons .....	30
Table 7.1 Primary Means of Transportation Used to Get to and from Campus .....	30
Section 8. Past Years Comparisons.....	31
Table 8.1 Comparison of 2008 Through 2016 Estimates Where Available.....	31
Appendix 1.....	32
Informed Consent for the Temple Transportation Survey.....	32
Appendix 2.....	33
Sustainability Audit – Temple Transportation Survey.....	33
Appendix 3. Other Most Common Parking Locations for Vehicles Commuting to Campus (Q7f).....	44
Appendix 4. Main Reasons Why Students, Faculty and Staff Do Not Carpool, or Do Not Carpool More Often (Q14).....	46
Appendix 5. Scenarios that Would Encourage Commuters to Bike or Bike More Often (Q11).....	55
Appendix 6. Other Motivations for Using Indego (Q19) .....	67

## Executive Summary

The 2016 Temple University Transportation Survey was launched on March 22, 2016 and was completed on April 18, 2016, which was approximately a four-week survey period. Of the 8,396 Temple University students, faculty, and staff randomly sampled with a stratified design, 2,250 submitted a survey. Of the 2,250 submitted, 2,088 (93%) were sufficiently completed to include in this report. An additional 162 surveys were partially completed and excluded from the results. Excluding those that were partially completed, surveys yielded a 24.9% overall response rate, up from both an 18.9% overall response rate in 2013, and 20.1% in 2010. Post-stratification weights were calculated to adjust for non-response bias. Weighted results reflect the universe estimates of Temple students, faculty and staff proportionally.

Of the survey respondents, 85% were classified as commuters and 25% as living on campus. Living on campus is defined as living in one of the following places: White Hall, Johnson Hall, Hardwick Hall, Peabody Hall, 1940 Residential Hall, Temple Towers, 1300 Residence Hall, Morgan Hall, and Podiatry Residence Hall. All others are commuters.

In 2016, the most common means of transportation used to commute to and from campus was “tak[ing] a campus shuttle or public transportation.” Thirty-six percent (36.3%) of all community members indicated that campus shuttle or public transportation was their primary mode of transportation and 32.7% reported single-occupancy vehicle (“commute with only the driver in the vehicle”). The third most common reported primary means of transportation was walking, biking or using another non-motorized means (reported by 27.9%).

Results of the survey indicated that Temple University students, faculty and staff take an average of 379,171 one-way trips to and from campus during a typical week. There were differences in the number of trips made with respect to students, faculty and staff classification. The median number of trips made in a typical week for students and staff is 10, while for faculty, the median number of trips is 7. Modes used by trip are not mutually exclusive, as a person could use multiple modes throughout one trip coming to campus. Overall, 27.6% of weekly trips are taken by car, 25.3% walking, 16.7% by subway, 14.1% by regional rail, 7.0% by bus, 5.3% by bike, 3.3% by carpool, and 0.7% by taxi or car service.

Temple community members commuted an average of 10.6 miles in a one-way trip. As in 2013, the longest commute is by passengers using the regional rail (18.8 miles one way), followed by single occupancy vehicles (15.2 miles one way), and carpool (14.5 miles one way).

Forty-two percent (42%) of students, faculty and staff reported taking at least one trip in an average week by car. Reported fuel efficiency, using average miles per gallon (MPG), for students, faculty and staff has not improved from 2010 or 2013 to 2016. In both 2013 and 2016, the average MPG reported for the total sample was 24.0 MPG.

When driving to campus and parking, overall, 47.3% of driving commuters reported that they parked in a Temple parking lot with paid or swipe access. These numbers varied significantly between students, faculty and staff. While 72.1% of faculty parked in Temple lots, only 41.2% of

students and 46.5% of staff did. Related, 42.6% of students and 40.5% of staff reported parking on neighborhood streets near campus, while only 17.2% of faculty did.

Overall, only 7.7% of students, faculty and staff reported carpooling to campus. The most common reason people cited for not carpooling was that they do not know anyone who carools (29.6%).

For those who live on campus (only students and staff), 13.2% said they had their own personal vehicle. In total, 64.3% said they parked on a neighborhood street or near campus/residence. In terms of use, only 4.3% said they used it every day or almost every day; 40.3% said a few days a week, 22.4% said about one day a week, and 33.1% less than once a week.

This year's transportation survey asked several questions about bicycling behaviors, use of Indego, and what would encourage people to bicycle more. Of all people who commuted to campus, 9% reported taking at least one trip in an average week on a bike. Of those who biked to campus, 97% said they used their own bikes, 2% used Indego (Philadelphia's Bike Share System), and 1% used both a personal bike and Indego. In terms of finding a parking spot for bikes on campus, 82% said they were able to find a spot on campus (up from 70% in 2013).

When the campus community was asked about what scenarios would encourage them to bike as part of their commute or bike more often, 36.7% said more dedicated bike lanes, 33.6% said better road conditions/road surfaces, and 27% said secure bike parking with swipe access on campus.

As of March of 2016, 8.7% of students, faculty and staff had used Indego. Users rated "Like to bike, fun, way to travel" as the most important reason for using Indego (79% of users rated this as important or very important). The second most important reason for using Indego was "exercise, fitness" (67% said this was important or very important); and third, "getting around more easily, faster, shorter time" (58% said important or very important). Temple students, faculty, and staff also indicated that they used Indego most frequently "to ride for fun/entertainment" (33%) and "to take a bike ride with friends" (29%).

Overall, 59.1% of commuting students, faculty and staff use some form of public transportation when commuting to or from campus. Nearly 40% of students indicated that they would be more likely to use public transportation if they could buy a "University Pass" (where they could use unlimited transit for \$150 per semester added to the Student Activity Fee). Students also said they would be more likely if it were faster, more reliable, and cheaper. Faculty and staff would be most encouraged to use public transportation if the service were faster.

Thirty-three percent (33%) of the Temple community knows about car sharing services (like Zipcar and Enterprise CarShare). Also, 58.8% of community members have used a mobile ride request service such as Uber or Lyft.

There were differences in terms of primary modes of transportation used by campus. Main campus had the highest proportion of people commuting via walking, bicycle, or non-motorized means (31.7%), and the lowest proportion of people whose primary means of transportation is commuting with only the driver in the vehicle (excluding motorcycles and scooters) (28.6%).

Harrisburg had the highest proportion of driver commuters (94%), with Ambler as a second (76.6%).

Comparing the 2016 survey to years past, the percentage of TU commuters who walk and bicycle to campus has increased.

## Section 1. Survey Administration and Survey Outcomes

The 2016 Temple University Transportation Survey was launched on March 22, 2016 and was completed on April 18, 2016, which was approximately four weeks. Of the 8,396 Temple University students, faculty, and staff randomly sampled with a stratified design, 2,250 submitted a survey. Of the 2,250 submitted, 2,088 (93%) were sufficiently completed to include in this report. An additional 162 surveys were partially completed and excluded from the results.

The overall response rate for the 2016 survey was 24.9% counting only completed surveys, which was an increase from both the 2010 and 2013 response rates. As indicated in Table 1.1, there had been a continuous drop in the overall response rate for the Transportation survey from 2007 to 2013. The overall drop was from 34.1% in 2007 to 20.2% in 2010 to 18.9% in 2013. Note the 2007 survey was fielded in December and the 2010 and 2013 surveys were fielded in the spring semester (March, April, May). Response rates to all surveys have been declining in recent years, along with increasing the demand to respond to online surveys.

The 2016 incentive for respondents was one of twenty \$50 gift cards. The 2013 incentive for responders was the raffle of 1 grand prize, an iPad (\$399 value) and 30, \$10.00 diamond dollar gifts. The 2010 incentive for responding was a grand prize of a Fuji bike (\$300 value) and 100 winners of \$10.00 diamond dollars. Three reminders were sent in 2013, and 2010, compared to four reminders in 2007. Note that only 7% of the completed 2007 surveys were submitted after the 4<sup>th</sup> reminder. In 2016, three reminders, followed by a reminder from President Neil D. Theobald, were sent.

**Table 1.1 Comparison of 2007, 2010, 2013 and 2016 Un-weighted Survey Response Rates**

Group	Response Rates			
	2007	2010	2013	2016
Graduate Students	31.2%	20.6%	20.7%	25.0%
Undergraduates	28.7%	15.0%	14.0%	20.0%
Faculty	49.7%	28.6%	29.9%	39.2%
Administration and Staff	62.3%	50.1%	42.0%	48.4%
Support Personnel	22.3%	15.0%	14.7%	12.7%
Overall/Total Response Rate	34.1%	20.2%	18.9%	24.9%

Table 1.2 reports the response rate details for the 2016 survey. Within the strata, administrative personnel and staff were the most likely to respond (48.4% of those sampled) followed by faculty (39.2%). Non-degree seeking students and undergraduates were the least likely to respond (13.2% and 14.1% respectively of those sampled in each group).

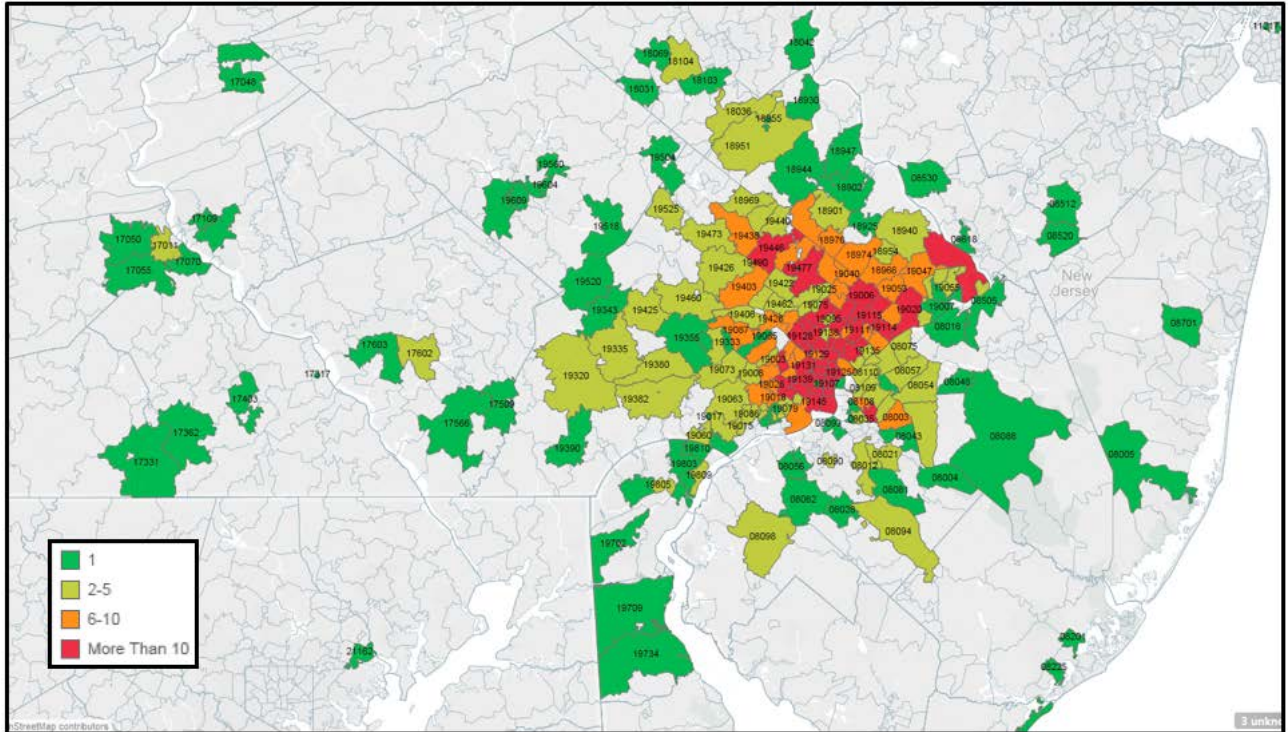
**Table 1.2 Unweighted 2016 Response Rates for Complete Surveys**

Strata	Eligible		Sampled		Completed Surveys		Response Rates	
	Total	Subclass	Sample	Subclass	Total	Subclass	Total %	Subclass %
Graduate Students	7,946		1,573		394		25.0%	
Professional	2,295		460		85		18.5%	25.0%
All other graduate students	5,651		1,113		309		27.8%	
Undergraduates	26,562		5,313		1,061		20.0%	
Seniors+ (> 120 credit hours)		2,163		433		95		21.9%
Seniors		6,545		1,309		255		19.5%
Juniors		6,881		1,378		294		21.3%
Sophomores		5,804		1,162		241		20.7%
Freshmen		5,169		1,031		176		17.1%
Faculty	3,806		635		249		39.2%	
Full time		2,166		361		187		51.8%
Part time		1,640		274		62		22.6%
Administration and Staff	4,594		765		370		48.4%	
Administrative professional	3,661		620		329		53.1%	
Administrative/managerial		1,435		235		144		61.3%
Professionals		2,226		385		185		48.1%
Administrative nonprofessional	933		145		41		28.3%	
Technical/paraprofessional		388		64		14		21.9%
Clerical, secretarial		545		81		27		33.3%
Support Personnel	665		110		14		12.7%	
<b>Total</b>	<b>43,573</b>		<b>8,396</b>		<b>2,088</b>		<b>24.9%</b>	

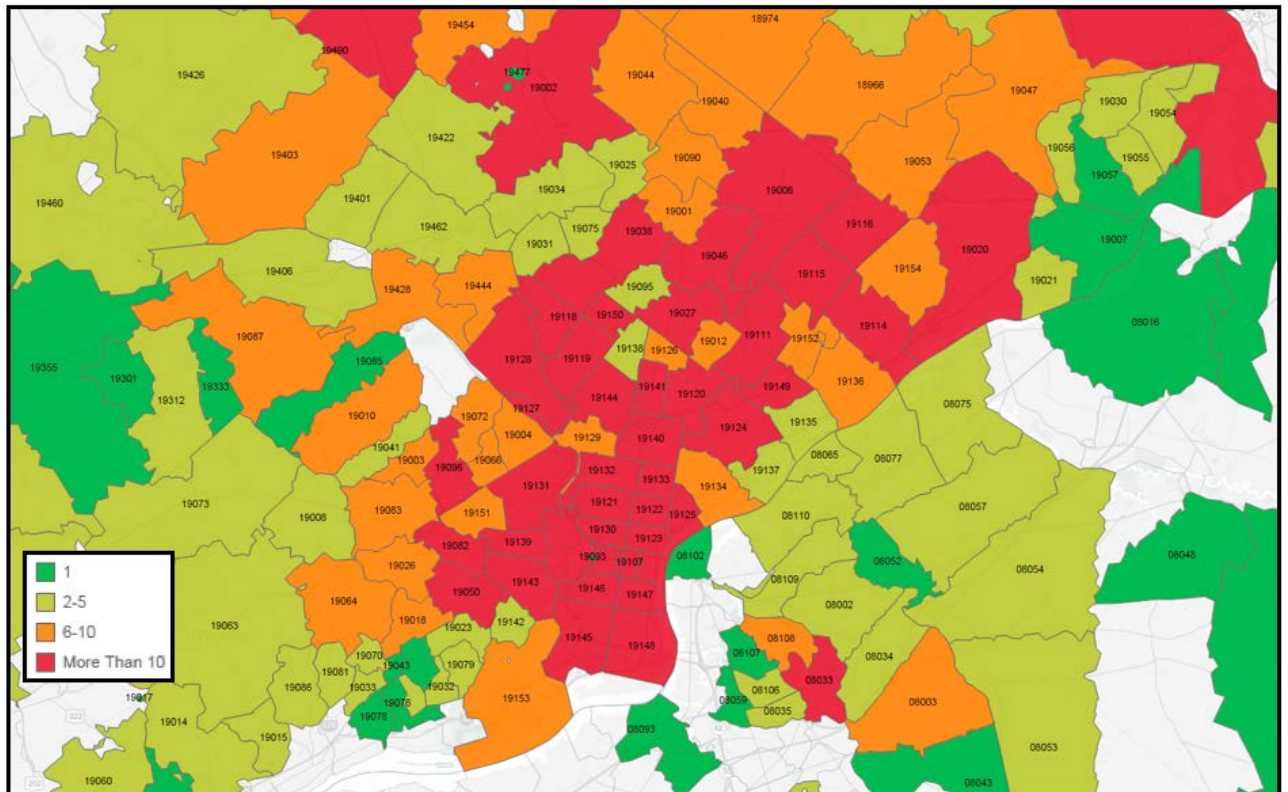


Figures 1.3a and 1.3b show maps of zip codes where survey respondents live and begin their commute to campus. We were unable to look at the geographic distribution of the total sample to compare because we were not given home addresses in the sampling frame. The zip code data presented below were collected in the survey.

**Figure 1.3a Map of the Geographic Distribution of Total Survey Responders**



**Figure 1.3b Zoomed Map of the Geographic Distribution of Total Survey Responders**



Post-stratification weights were constructed to adjust for nonresponse bias in each of the sample groups of students, faculty and staff. Weighted data represent respondents proportionately to the totals at the university. The weighted survey totals for each of the three strata (students, faculty, and staff) are presented in Table 1.3. These estimates include both commuters and non-commuting students who live on campus. Table 1.4 presents the weighted survey totals for commuters only. We define commuters as all respondents except those who answered “Yes, I live on campus” to question #3. Thus, Table 1.5 omits 15% students who live on campus (that is the estimated weighted number of students). Overall, an estimated 85% of the Temple University community commutes to campus, including 81.2% of all students.

**Table 1.3 Respondent Totals Weighted up to the Temple University Community**

Estimate	Students	Faculty	Staff	Total
Weighted count	34,508	3,806	5,259	43,573
Weighted %	79.2%	8.7%	12.1%	100.0%

**Table 1.4 Weighted Survey Respondent Totals and Percentages for Commuters those who Live on Campus**

	Students	Faculty	Staff	Total
I live on campus	6,464 19%	0 0%	58 1%	6,522 15%
I am a commuter	27,992 81%	3,794 100%	5,181 99%	36,968 85%
Total	34,457 100%	3,794 100%	5,239 100%	43,490 100%

\*Living on campus is defined as living in one of the following places: White Hall, Johnson Hall, Hardwick Hall, Peabody Hall, 1940 Residential Hall, Temple Towers, 1300 Residence Hall, Morgan Hall, and Podiatry Residence Hall. All others are commuters.

**Table 1.5 Weighted Survey Respondent Totals and Percentages for Commuters (Not Including Students Who Live on or Walk to Campus)**

	Students	Faculty	Staff	Total
Weighted count	18,303	3,381	4,873	26,557
Weighted %	68.9%	12.7%	18.4%	100.0

Table 1.6 shows the distribution of Temple University students, faculty and staff across the seven campus locations.

**Table 1.6 Campus Where Respondents Spent the Most Amount of Time During this Semester**

<b>Campus</b>	<b>Students</b>	<b>Faculty</b>	<b>Staff</b>	<b>Total</b>
Main (Broad & Montgomery)	30,741 89.1%	3,151 82.8%	3,511 66.8%	37,403 85.8%
Health Sciences Center	2,052 6.0%	476 12.5%	1,095 20.8%	3,624 8.3%
Ambler	591 1.7%	64 1.7%	164 3.1%	820 1.9%
Center City (TUCC)	823 2.4%	61 1.6%	132 2.5%	1,017 2.3%
Temple Administrative	136 0.4%	0 0.0%	262 5.0%	398 0.9%
Harrisburg	91 0.3%	26 0.7%	82 1.6%	200 0.5%
Fort Washington	73 0.2%	26 0.7%	12 0.2%	112 0.3%
Total	34,508 100.0%	3,806 100.0%	5,259 100.0%	43,573 100.0%

## Section 2. Commuting Modes for Students, Faculty and Staff at the University

In the 2016 survey, commuters were defined as those who were not living on campus (e.g., not living in one of the following places: White Hall, Johnson Hall, Hardwick Hall, Peabody Hall, 1940 Residential Hall, Temple Towers, 1300 Residence Hall, Morgan Hall, Podiatry Residence Hall.) This Section 2 applies only to the weighted total of 36,968 Temple students, faculty and staff who were classified as commuters.

All commuting students, faculty and staff were asked to specify the **number of one-way[s] they take coming to and from campus in a typical week** (see Q4). They were given the example, “If you come to campus 3 days per week, then you would make 6, one-way trips to campus in a typical week,” and instructed not to count the intercampus bus shuttle if taken. Table 2.1 reports the total number of trips, mean number of trips, and median number of trips taken to and from campus in a typical week by Temple students, faculty and staff. Overall, students averaged the greatest number of trips in a typical week (10.71), as compared to faculty (7.49). The median number of trips taken by both students and staff was 10, while faculty took a median number of 7 trips per week.

The number of one-way trips taken in a typical week served as a core element of the survey on which other mode-specific questions were asked in subsequent questions.

**Table 2.1 One-Way Trips to or from Campus Taken in a Typical Week**

		<b>Students</b>	<b>Faculty</b>	<b>Staff</b>	<b>Total</b>
<b>Weighted N (People)</b>		27,781	3,794	5,111	36,687
Total Trips Per Week	<i>Estimate</i>	297,564	28,430	53,177	379,171
	<i>Std. Err.</i>	945.3	266.1	334.8	1054.0
Mean Trips Per Week	<i>Estimate</i>	10.71	7.49	10.40	10.34
	<i>Std. Dev.</i>	5.67	4.33	4.69	5.50
Median Trips Per Week	<i>Estimate</i>	10	7	10	10

\* Less than 1% (0.67%) of commuters were coded as outliers and removed from the sample because their reported number of one-way trips per week was greater than 30.

Following the overarching question of how many one-way trips were made to and from campus in a typical week, the survey asked participants to specify the number of one-way trips made using specific modes. Table 2.2 reports each of the different modes of transportation used by Temple students, faculty, and staff as part of their one-way commutes to and from campus during a typical week, regardless of whether any particular mode of transportation is used alone or in combination with one or more other modes. As a result, the transportation categories in Table 2.2 are not mutually exclusive, and the sum of individuals using one or more modes of transportation (column sum) is greater than the total number of Temple commuters. For example, consider a student who commutes to campus on Monday, Wednesday, and Friday. In a typical week, this student takes the bus on Monday and Wednesday, but on Fridays she drives so that she can pick up her little brother at daycare. This student would have indicated taking six one-way trips in a typical week: four on bus and two by car. Thus, she would be counted as commuting using both bus and car.

**Table 2.2 Percentage of Community Members that Commute Using Different Modes**

	<b>Students</b>	<b>Faculty</b>	<b>Staff</b>	<b>Total</b>
<b>Weighted N</b>	27,781	3,794	5,111	36,687
Bus	3,776 13.6%	283 7.5%	527 10.3%	4,586 12.5%
Car	9,335 33.6%	2,421 63.8%	3,571 69.9%	15,327 41.8%
Ride Service (Taxi, Uber, Lyft)	1,556 5.6%	96 2.5%	70 1.4%	1,721 4.7%
Subway, trolley, or "El"	8,391 30.2%	883 23.3%	1,178 23.0%	10,452 28.5%
Regional rail lines	6,631 23.9%	910 24.0%	788 15.4%	8,328 22.7%
Bike	2,530 9.1%	382 10.1%	261 5.1%	3,173 8.6%
Walk	10,076 36.3%	291 7.7%	403 7.9%	10,770 29.4%
Carpool	2,383 8.6%	177 4.7%	280 5.5%	2,840 7.7%

Table 2.3 reports the total number and overall percentage of trips taken per week by the various modes, for students, faculty and staff. The totals represent instances of commuting (one-way trips per mode) in a typical week. Table 2.3 uses the sum of all one-way trips in a typical week reported per mode as the denominators to calculate the percentages. These totals are shown in the bottom row of Table 2.3.

**Table 2.3 Number of Trips Taken Per Week by Mode**

	<b>Students</b>	<b>Faculty</b>	<b>Staff</b>	<b>Total</b>
Bus Trips per Week	21,863 7.3%	1,102 3.9%	3,575 6.7%	26,539 7.0%
Car Trips per Week	61,953 20.8%	13,273 46.7%	29,291 55.1%	104,518 27.6%
Taxi/Car Service Trips per Week	2,529 0.8%	142 0.5%	103 0.2%	2,774 0.7%
Subway Trips per Week	50,797 17.1%	4,468 15.7%	8,089 15.2%	63,353 16.7%
Regional Rail Trips per Week	41,242 13.9%	5,701 20.1%	6,494 12.2%	53,437 14.1%
Walking Trips per Week	92,378 31.0%	1,456 5.1%	2,144 4.0%	95,977 25.3%
Carpool Trips per Week	10,311 3.5%	632 2.2%	1,707 3.2%	12,650 3.3%
Bike Trips per Week	16,492 5.5%	1,656 5.8%	1,775 3.3%	19,923 5.3%
<b>Total Trips per Week</b>	<b>297,564</b> <b>100.0%</b>	<b>28,430</b> <b>100.0%</b>	<b>53,177</b> <b>100.0%</b>	<b>379,171</b> <b>100.0%</b>

A primary goal of the 2016 Transportation Survey was to determine the total percentage of students who commute who use sustainable community options as their primary mode. After accounting for all of their one-way trips made in a typical week, survey participants were asked to indicate which commuting mode they considered to be their primary means of transportation to get to and from campus (see survey Q15). Each person could choose only one single option. The results are summarized in Table 2.4 below, which shows the percentage of students that use various transportation modes as their primary means of getting to and from campus.

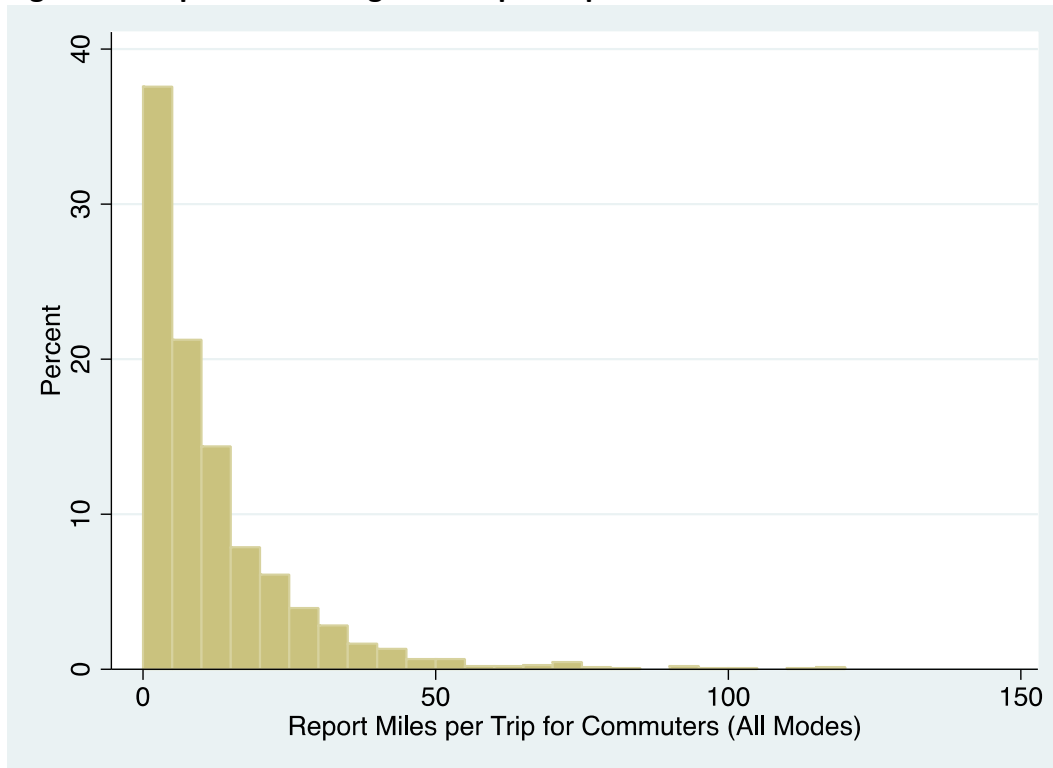
**Table 2.4 Primary Means of Transportation Used to Get to and from Campus**

<b>Mode Used for Commuting</b>	<b>Students</b>	<b>Faculty</b>	<b>Staff</b>	<b>Total</b>
Commute with only the driver in the vehicle (excluding motorcycles and scooters)	6,900 24.7%	1,955 53.0%	3,165 61.5%	12,019 32.7%
Walk, bicycle, or use other non-motorized means	9,674 34.6%	306 8.3%	270 5.2%	10,250 27.9%
Vanpool or carpool	683 2.4%	104 2.8%	158 3.1%	945 2.6%
Take campus shuttle or public transportation	10,597 37.9%	1,257 34.1%	1,523 29.6%	13,377 36.3%
Use a motorcycle, scooter, or moped	123 0.4%	64 1.8%	28 0.5%	215 0.6%
<b>Total</b>	<b>27,976</b> <b>100.0%</b>	<b>3,687</b> <b>100.0%</b>	<b>5,143</b> <b>100.0%</b>	<b>36,806</b> <b>100.0%</b>

In addition to trips and modes, survey respondents were asked to indicate the number of miles in their typical one-way commute. The question stated, “When you come to campus, about how many miles is your typical one-way commute? (If you use more than one mode of transportation, enter your best estimate of all the miles you travel in a one-way trip” (see Q5). Figure 2.1 below shows a histogram of the reported miles traveled. Nearly 40% of commuters travel fewer than 5 miles to reach campus, and 60% travel fewer than 10 miles.

Table 2.5 shows the average passenger miles per trip for commuters for primary mode of transportation. The mileage estimates by mode are based on the individual’s reported primary mode of transportation, and his/her reported miles in the typical one-way commute. Mileage for biking and walking are calculated from the answers to questions 11b and 12b which asked specifically how many miles biked and walked specifically. Amongst students, faculty and staff, the average reporting commuting distance was 10.6 miles. Overall, faculty report traveling an average of 14.4 miles, which is farther than students or staff who reported traveling an average of 9.6 and 12.6 miles respectively. As in 2013, those who commute on the regional rail travel the farthest (an average of 18.8 miles).

**Figure 2.1 Reported Passenger Miles per Trip for Commuters**



**Table 2.5 Average Passenger Miles per Trip for Commuters for Primary Mode of Transportation**

Motivations	Students	Faculty	Staff	Total
Bus	5.9	5.0	7.5	6.2
Car	15.0	17.7	13.8	15.2
Ride Service (Taxi, Uber, Lyft)	2.5			2.5
Subway, trolley, or “El”	6.8	5.4	7.0	6.7
Regional rail lines	18.6	17.3	22.0	18.8
Bike	2.3	3.0	2.5	2.4
Walk	1.1	0.9	1.9	1.2
Carpool	15.6	11.2	10.2	14.5
<b>Total</b>	<b>9.6</b>	<b>14.4</b>	<b>12.6</b>	<b>10.6</b>

## Section 3. Driving

### A. Personal Vehicles for Commuters

As described in Section 2, overall, 42% of Temple University students, faculty and staff drive a car (not as passenger) as part of their commute to or from campus.

*From Table 2.2 Percentage of Community Members that Commute Using Different Modes*

**Table 3.1 Community Members that Commute Driving**

	Students	Faculty	Staff	Total
<b>Weighted N</b>	27,781	3,794	5,111	36,687
Drive to campus/commute by car	9,335	2,421	3,571	15,327
	33.6%	63.8%	69.9%	41.8%

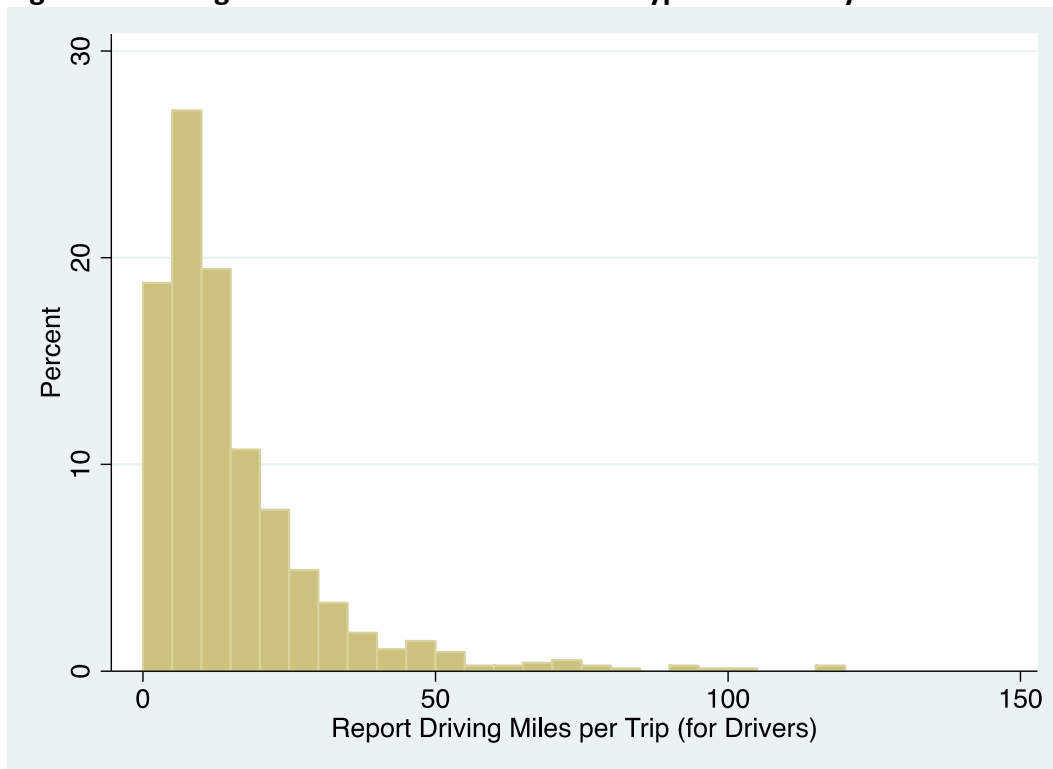
Drivers were asked to report the number of miles they drive as part of the typical one-way commute to or from campus (see Q7b). In the overall sample of drivers (Weighted N = 15,445), the average number of miles driven as part of the typical one-way commute to campus was 14.3 miles. Note that this is different from the 15.2 miles reported as the average number of passenger miles per trip for whom driving is their *primary* mode of transportation.

Table 3.2 below shows the mean number of miles driven by students, faculty and staff. Figure 3.2 shows the distribution of mileages reported. These averages are for all students, faculty and staff who commute using a car ever, whether or not it is their primary mode of transportation.

**Table 3.2 Miles Driven as Part of Typical One-Way Commute**

		Students	Faculty	Staff	Total
Total Drivers		9,383	2,421	3,640	15,445
Miles driven as part of typical one-way commute	<i>Mean</i>	14.0	17.8	12.8	14.3
	<i>Std. Dev.</i>	15.1	20.6	11.4	15.4

**Figure 3.1 Histogram of Miles Driven as Part of Typical One-Way Commute**



Drivers were also asked to report the number of people also in the vehicle with them when they are driving (see Q7c). The answer options were one, two, and three or more. Table 3.3 below shows that overall, 89.8% of people who drive to campus are alone in their car, while another 10% reported bringing one or more person along.



**Table 3.3 Number of People Typically in Vehicle When Drivers Driving to or from Campus**

	Students	Faculty	Staff	Total
One (you are usually driving alone)	8,404 89.6%	2,157 89.1%	3,311 90.9%	13,872 89.8%
Two (you usually have one passenger)	695 7.4%	242 10.0%	310 8.5%	1,246 8.1%
Three or more (you usually have two or more passengers)	284 3.0%	23 1.0%	20 0.6%	327 2.1%
Total	9,383 100.0%	2,421 100.0%	3,641 100.0%	15,445 100.0%

Additionally, students, faculty and staff were asked if they carpooled to campus, whether or not all of the people in the car came to the campus or were dropped off at other locations (see Q7d). A weighted total of 8,222 people responded to this question – many of whom reported that they usually drove alone. This is indicative of the fact that respondents may have interpreted this question differently, and some may have considered dropping a child at school on the way to campus and then continuing alone, to be carpooling, while someone else may not have considered that to be carpooling. Table 3.4 shows the reported destinations of others in the vehicle for those who drive to campus.

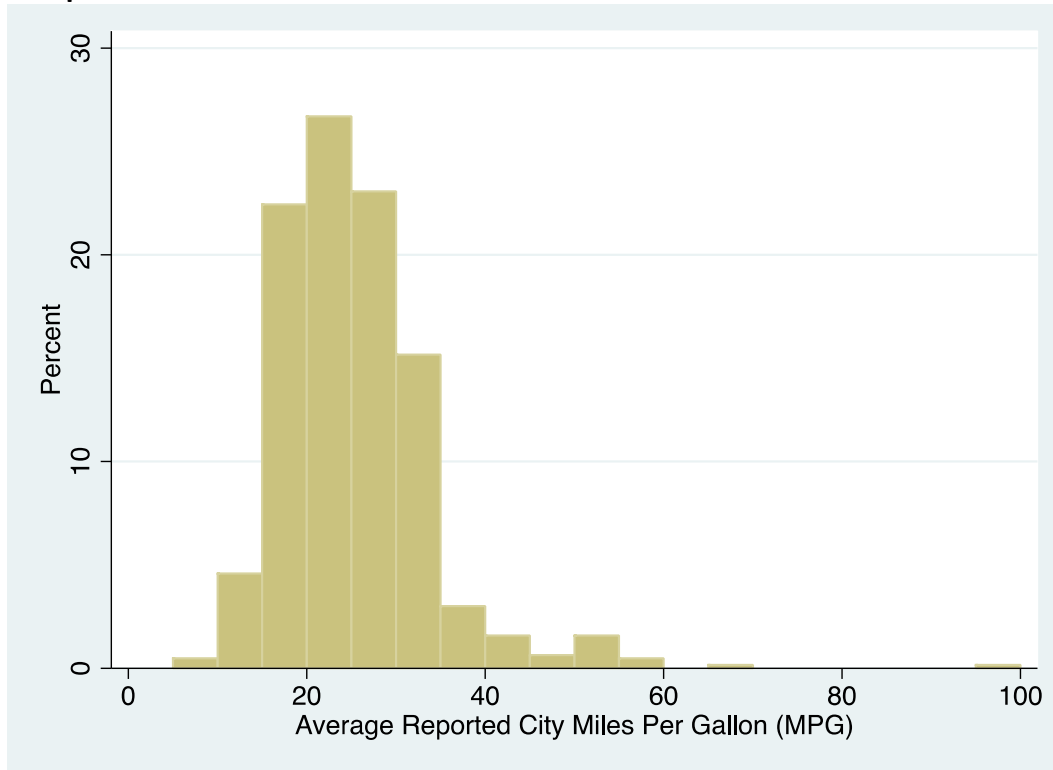
**Table 3.4 Destinations of Others in the Vehicle when Driving to or from Campus**

	Students	Faculty	Staff	Total
All come to the campus	5,278 90.6%	619 94.2%	1,554 89.2%	7,451 90.6%
Some go to other locations	545 9.4%	38 5.8%	189 10.8%	772 9.4%
Total	5,823 100.0%	657 100.0%	1,743 100.0%	8,222 100.0%

Those who commuted by car were asked to report the average “city” miles per gallon that their vehicles got (using their best estimate) (see Q7e). Overall a weighted total of 11,617 campus members reported an average of 24.0 miles per gallon (*S.D.* = 8.7) with a median of 23. Figure 3.2 shows the distribution of estimated miles per gallon of vehicles used to get to campus.

Reported fuel efficiency, using average miles per gallon (MPG), for students, faculty and staff has not improved from 2010 or 2013 to 2016. In both 2013 and 2016, the average MPG reported for the total sample was 24.0 MPG.

**Figure 3.2 Histogram of Estimated Miles per Gallon of Vehicles Used to Commute to/from Campus**



\* Two survey respondents indicated driving cars with gas mileage higher than 60 miles per gallon.

Table 3.5 shows the most common parking locations for vehicles when coming to campus (see Q7f). When driving to campus and parking, overall, 47.3% of Temple drivers reported that they parked in a Temple parking lot with paid or swipe access. These numbers varied significantly between students, faculty and staff. While 72.1% of faculty parked in Temple lots, only 41.2% of students and 46.5% of staff did. Related, 42.6% of students and 40.5% of staff reported parking on neighborhood streets near campus, while only 17.2% of faculty did. The most commonly reported “Other” location was a train station parking lot (see Appendix 3), for those who indicated not drive all the way to campus (commuted partially by car and partially by train).

**Table 3.5 Most Common Parking Location for Vehicle on Campus**

	Students	Faculty	Staff	Total
In a Temple parking lot with paid or swipe access	3,864 41.2%	1,745 72.1%	1,693 46.5%	7,302 47.3%
In another lot	560 6.0%	84 3.5%	249 6.9%	893 5.8%
On neighborhood streets near campus	3,997 42.6%	417 17.2%	1,474 40.5%	5,888 38.1%
Other (See Appendix 3)	963 10.3%	175 7.2%	224 6.2%	1,363 8.8%
Total	9,383 100.0%	2,421 100.0%	3,641 100.0%	15,445 100.0%

## B. Carpooling

Overall, only 7.7% of students, faculty and staff reported carpooling to campus. The table below (excerpted from Table 2.2) shows the proportion from each group who carpool. Students carpool more often than faculty and staff.

*From Table 2.2 Percentage of Community Members that Commute Driving*

	<b>Students</b>	<b>Faculty</b>	<b>Staff</b>	<b>Total</b>
<b>Weighted N</b>	27,781	3,794	5,111	36,687
Carpool	2,383 8.6%	177 4.7%	280 5.5%	2,840 7.7%

Overall, only 7.7% of students, faculty and staff reported carpooling to campus. Students, faculty and staff were also asked to indicate the main reasons why they did not carpool, or do not carpool more often (see Q14). Table 3.6 shows the percentage of students, faculty and staff that indicated specific reasons. The most common reason people cited for not carpooling was that they do not know anyone with whom they could carpool (29.6%).

**Table 3.6 Main Reason Why People Do Not Carpool (Or Do Not Carpool More Often)**

<b>Reason Not to Carpool</b>	<b>Students</b>	<b>Faculty</b>	<b>Staff</b>	<b>Total</b>
Not convenient locations (would have to drive out of my way for pick up)	2,774 10.1%	126 3.4%	303 6.0%	3,202 8.8%
Hard to coordinate times to come and go – need more flexibility	4,940 18.0%	946 25.5%	1,150 22.6%	7,036 19.4%
Prefer driving privately	1,691 6.2%	306 8.3%	565 11.1%	2,562 7.1%
Sharing the costs is too complicated	211 0.8%	0 0.0%	32 0.6%	244 0.7%
Don't know anyone I could carpool with	8,668 31.6%	776 20.9%	1,285 25.3%	10,728 29.6%
Have other errands to do on the way to or from campus	1,394 5.1%	205 5.5%	365 7.2%	1,964 5.4%
Wouldn't be able to leave campus if my child gets sick, or in another such emergency	395 1.4%	111 3.0%	489 9.6%	995 2.7%
Other (See Appendix 4)	7,391 26.9%	1,237 33.4%	900 17.7%	9,528 26.3%

## C. Personal Vehicle Ownership of Those Living on Campus

As indicated in section 2, in total, 6,522 students and staff indicated that they lived on campus. Those who reported living on campus were asked if they had a personal vehicle (car or motorcycle) for use on campus this semester (see Q16). Table 3.7 shows that 12.8% of students and 62.1% of staff who lived on campus reported having a car for personal use.

**Table 3.7 Personal Vehicle Ownership of Students and Staff Who Live on Campus**

Personal Vehicle on Campus	Students	Staff	Total
Yes	825 12.8%	36 62.1%	861 13.2%
No	5,639 87.2%	22 37.9%	5,661 86.8%
Total	6,464 100.0%	58 100.0%	6,522 100.0%

Table 3.8 shows the locations where students and staff living on campus parked their personal vehicles (see Q16a). Overall, 64.3% of on-campus car owners parked on neighborhood streets near campus.

**Table 3.8 Parking Location of Personal Vehicles on Campus**

Parking Location	Students	Staff	Total
In a Temple parking lot with paid or swipe access	213 27.84%	12 33.30%	225 28.09%
In another lot	23 3.01%	0 0.00%	23 2.87%
On neighborhood streets near campus/residence	529 69.15%	24 66.70%	553 69.04%
Total	765 100.00%	36 100.00%	801 100.00%

On-campus car owners also indicated the frequency with which they used their cars (see Q16b). Forty-two percent (42.0%) of students reported using their cars about one day a week. Staff reported using their cars less frequently. Table 3.9 reports the frequency of personal vehicle use.

**Table 3.9 Frequency of Using Personal Vehicle**

Frequency of Use	Students	Staff	Total
Every day or almost every day	37 4.4%	0 0.0%	37 4.3%
A few days a week	347 42.0%	0 0.0%	347 40.3%
About one day a week	169 20.5%	24 66.7%	193 22.4%
Less than once a week	273 33.0%	12 33.3%	285 33.1%
Total	825 100.0%	36 100.0%	861 100.0%

## Section 4. Bicycling

All commuters were asked whether or not they bicycled as part of their commute (see Q11). Table 4.1 below (excerpted from Table 2.2) shows that only 8.6% of Temple students, faculty and staff commute to campus on bike.

*From Table 2.2 Percentage of Community Members that Commute Using Different Modes*

**Table 4.1 Community Members that Commute By Bike**

	Students	Faculty	Staff	Total
<b>Weighted N</b>	27,781	3,794	5,111	36,687
Bike	2,530 9.1%	382 10.1%	261 5.1%	3,173 8.6%

### A. Bicycle Commuting

Table 4.2 shows that of those Temple students, faculty and staff who biked, 97% used their own bicycle, with 2% using Indego exclusively and 1% using a mixture of Indego and a personal bike (see Q11a).

**Table 4.2 Use A Personal Bicycle (Owned by Self or Friend) or Use of Indego (Philadelphia's Bike Share System)**

Type of Bike Used	Students	Faculty	Staff	Total
I use a personal bicycle (owned by me or someone I know)	2,511 99%	332 87%	229 92%	3,073 97%
I use Indego (Philadelphia's Bike Share System)	37 1%	26 7%	10 4%	73 2%
I use both a personal bike and Indego, depending on the day/my needs	0 0%	23 6%	10 4%	33 1%
<b>Total</b>	2,548 100%	382 100%	249 100%	3,179 100%

Table 4.3 indicates bike commuters' ability to find a parking space on campus at a campus bike rack (see Q11d). Only 8% indicated that they were unable to find a spot on a campus bike rack.

**Table 4.3 Ability to Find a Spot in a Campus Bicycle Rack**

Ability to Find a Spot in a Campus Bicycle Rack	Students	Faculty	Staff	Total
Yes	2,216 87%	268 70%	122 49%	2,606 82%
No	169 7%	53 14%	22 9%	244 8%
I typically do not use a campus bicycle rack	163 6%	61 16%	105 42%	329 10%
<b>Total</b>	2,548 100%	382 100%	249 100%	3,179 100%

Regardless of whether or not Temple students, faculty and staff reported biking as a mode of commuting, everyone (weighted N = 37,051) was asked to indicate whether certain scenarios would encourage them to bike as part of their commute, or to bike more often (see Q11e – check all that apply format). Table 4.4 shows the scenarios students, faculty and staff reported would encourage them to bike as part of their commute or to bike more often. Overall, 43% of students, faculty and staff indicated that there were no other scenarios that would encourage them to bike as part of their commute (e.g., live too far away, do not know how to ride a bike, etc.). Besides that, having more dedicated bike lanes (36.7%) and better road conditions/road surfaces (33.6%) would encourage the greatest number of students, faculty and staff to bike or bike more. The third most popular scenario that would encourage more biking was secure bike parking with swipe access on campus (27.9%).

**Table 4.4 Scenarios That Would Encourage TU Community Members to Bike as Part of Their Commute or Bike More Often**

<b>Bike-Encouraging Scenarios</b>	<b>Students</b>	<b>Faculty</b>	<b>Staff</b>	<b>Total</b>
<b>Weighted N</b>	28,044	3,806	5,201	37,051
More dedicated bike lanes	11,206 40.0%	1,102 28.9%	1,288 24.8%	13,596 36.7%
More bikeway destination/route signage	5,714 20.4%	318 8.3%	736 14.2%	6,767 18.3%
Better road conditions/road surfaces	10,084 36.0%	1,078 28.3%	1,298 25.0%	12,460 33.6%
Better street lighting	5,403 19.3%	437 11.5%	508 9.8%	6,348 17.1%
Increased education and outreach programs	1,994 7.1%	172 4.5%	292 5.6%	2,458 6.6%
Secure bike parking with swipe access on campus	8,722 31.1%	691 18.2%	935 18.0%	10,348 27.9%
More Indego stations on campus	1,511 5.4%	184 4.8%	108 2.1%	1,802 4.9%
More Indego stations closer to my home or other places I go	2,661 9.5%	169 4.4%	256 4.9%	3,086 8.3%
Other (See Appendix 5)	2,139 7.6%	425 11.2%	420 8.1%	2,984 8.1%
There are no other scenarios that would encourage me to bike as part of my commute (e.g., live too far away, do not know how to ride a bike, etc.)	10,747 38.3%	2,078 54.6%	3,105 59.7%	15,930 43.0%

## B. Using Indego

Table 4.5 shows that as of March 2016, 8.7% of Temple’s community, including both commuters and those living on campus had used Indego, Philadelphia’s bike sharing system, in the past.

**Table 4.5 Have Used Indego (Philadelphia’s Bike Share System)**

	<b>Students</b>	<b>Faculty</b>	<b>Staff</b>	<b>Total</b>
Yes	3,393 9.9%	207 5.5%	178 3.4%	3,778 8.7%
No	31,061 90.2%	3,546 94.5%	5,081 96.6%	39,688 91.3%
Total	34,455 100.0%	3,753 100.0%	5,259 100.0%	43,467 100.0%

Survey respondents who had used Indego (weighted N = 3,778) were asked to answer two questions that we borrowed from the Indego User Survey administered by Bicycle Transit Systems in 2015. First, they were asked to specify what motivated them to use Indego (see Q19a). For each purpose, the choices were: 1 = Not at all important, 2 = Slightly important, 3 = Somewhat important, 4 = Important, 5 = Very important. As shown in Table 4.6a, users rated “Like to bike, fun, way to travel” as the most important motivation for using Indego (79% of users rated this is important or very important). The second most important motivation for using Indego was “exercise, fitness” (67% said this was important or very important) and third, “getting around more easily, faster, shorter time” (58% said important or very important). Temple students, faculty, and staff also indicated that that they used Indego most frequently “to ride for fun/entertainment” and “to take a bike ride with friends”.

**Table 4.6a Motivations for Using Indego (% of People Who Found Motivation Important or Very Important)**

<b>Motivations</b>	<b>Students</b>	<b>Faculty</b>	<b>Staff</b>	<b>Total</b>
<b>Indego Users (Weighted N)</b>	<b>3,393</b>	<b>207</b>	<b>178</b>	<b>3,778</b>
Save money on transportation	32.6%	18.4%	21.1%	31.3%
Get around more easily, faster, shorter time	57.2%	70.4%	52.1%	57.8%
Like to bike, fun, way to travel	79.5%	68.8%	84.5%	79.1%
Exercise, fitness	66.6%	68.8%	67.6%	66.8%
Reduce carbon footprint, concerned about environment	49.1%	35.2%	45.0%	48.1%
Access to another bike/backup bike	33.1%	40.8%	22.5%	33.1%
Access to other form of transportation, new travel option/one-way travel option	39.9%	53.6%	35.1%	40.6%
To support the program	35.1%	46.4%	38.0%	35.9%
Spending time with family or friends	45.6%	24.0%	48.2%	44.4%
Other (See Appendix 6)	39.7%	62.2%	20.7%	39.8%

Table 4.6b below reports the average scores given by students, faculty and staff on the scale from 1 = Not at all important, 2 = Slightly important, 3 = Somewhat important, 4 = Important, 5 = Very important. In Table 4.6b, the lowest numbers represent something as being relatively unimportant, and a higher score would be more important.

**Table 4.6b Motivations for Using Indego (Mean Importance Scores)**

Motivations	Students	Faculty	Staff	Total
<b>Indego Users (Weighted N)</b>	<b>3,393</b>	<b>207</b>	<b>178</b>	<b>3,778</b>
Save money on transportation	2.62	2.31	2.25	2.58
Get around more easily, faster, shorter time	3.32	3.69	3.39	3.34
Like to bike, fun, way to travel	4.03	3.97	4.21	4.04
Exercise, fitness	3.65	3.84	3.58	3.66
Reduce carbon footprint, concerned about environment	3.22	3.11	3.41	3.22
Access to another bike/backup bike	2.62	2.69	2.34	2.61
Access to other form of transportation, new travel option/one-way travel option	2.90	3.17	2.81	2.91
To support the program	2.78	3.21	2.94	2.81
Spending time with family or friends	3.02	2.31	3.22	2.98
Other (See Appendix 6)	2.61	3.49	1.83	2.61

Survey respondents who had used Indego were also asked to specify the frequency with which they used Indego for a variety of purposes (see Q19b). For each purpose, the choices were: 1 = Never, 2 = Rarely, 3 = Sometimes, 4 = Often, 5 = Very often. Table 4.7a reports the mean frequency scores, where the lowest numbers represent infrequent usage for that purpose, and the higher numbers represent higher frequency of usage. Thirty-three percent (33%) said they used it often or very often to ride for fun/entertainment and 29% used it often or very often to take a ride with friends.

**Table 4.7a Primary Purposes for Using Indego (% of People Who Use Often or Very Often)**

Purposes for Using Indego	Students	Faculty	Staff	Total
<b>Indego Users (Weighted N)</b>	<b>3,393</b>	<b>207</b>	<b>178</b>	<b>3,778</b>
Go to/from work	6.8%	24.0%	14.0%	8.2%
Go to/from school	7.2%	5.9%	0.0%	6.8%
Go to/from meetings/appointments	5.1%	12.8%	0.0%	5.4%
Go to/from shopping	6.9%	0.0%	8.5%	6.6%
Go to/from social events	10.6%	24.0%	22.5%	11.9%
To get exercise	23.7%	16.8%	24.0%	23.3%
To ride for fun/entertainment	34.1%	22.4%	24.0%	32.9%
To take a bike ride with family	8.9%	35.2%	7.8%	10.5%
To take a bike ride with friends	29.5%	29.6%	15.6%	28.9%

Table 4.7b below reports the average scores given by students, faculty and staff on the scale from 1 = Never, 2 = Rarely, 3 = Sometimes, 4 = Often, 5 = Very often. In Table 4.7b, the lowest numbers represent a purpose that was used never or rarely, and a higher score would be something used more often.



**Table 4.7b Primary Purposes for Using Indego (Mean Frequency Score)**

<b>Purposes for Using Indego</b>	<b>Students</b>	<b>Faculty</b>	<b>Staff</b>	<b>Total</b>
<b>Indego Users (Weighted N)</b>	<b>3,393</b>	<b>207</b>	<b>178</b>	<b>3,778</b>
Go to/from work	1.53	2.55	1.65	1.60
Go to/from school	1.54	1.57	1.09	1.52
Go to/from meetings/appointments	1.48	2.16	1.52	1.52
Go to/from shopping	1.75	1.59	1.56	1.73
Go to/from social events	1.99	2.30	2.23	2.02
To get exercise	2.41	2.35	2.70	2.42
To ride for fun/entertainment	2.92	2.63	2.96	2.90
To take a bike ride with family	1.68	2.89	2.00	1.77
To take a bike ride with friends	2.70	2.52	2.53	2.68

## Section 5. Public Transportation

Overall, 12.5% of Temple’s students, faculty and staff commute by bus, 28.5% by subway, trolley or the “El” and 22.7% by the regional rail. These options are not mutually exclusive (meaning that one person might take a bus to the subway to get to campus), and thus, are not totaled here.

*From Table 2.2 Percentage of Community Members that Commute Using Different Modes*

**Table 5.1 Percentage of Community Members that Commute Using Public Transportation**

	<b>Students</b>	<b>Faculty</b>	<b>Staff</b>	<b>Total</b>
<b>Weighted N</b>	27,781	3,794	5,111	36,687
Bus	3,776 13.6%	283 7.5%	527 10.3%	4,586 12.5%
Subway, trolley, or “El”	8,391 30.2%	883 23.3%	1,178 23.0%	10,452 28.5%
Regional rail lines	6,631 23.9%	910 24.0%	788 15.4%	8,328 22.7%

Table 5.2 shows that of Temple University commuters who take the bus during at least one trip during a typical week (weighted N = 4,570), 73.5% reported taking one bus, 21.4% reported two buses, and 5.1% reported taking more than three buses.

**Table 5.2 For Bus Commuters, Number of Buses Typically Taken to Commute to and from Campus**

	<b>Students</b>	<b>Faculty</b>	<b>Staff</b>	<b>Total</b>
One	2,882 77.9%	146 51.5%	332 56.8%	3,360 73.5%
Two	677 18.3%	99 35.1%	200 34.2%	976 21.4%
Three or more	143 3.9%	38 13.5%	52 9.0%	233 5.1%
Total	3,702 100.0%	283 100.0%	585 100.0%	4,570 100.0%

Table 5.3 shows the distribution of Temple students, faculty and staff who commute using public transportation for at least one, one-way trip in a typical week. Overall 59.1% commute using public transportation. Students commute using public transportation more than faculty and staff (63.5% for students, 48.7% for faculty and 38.2% for staff).

**Table 5.3 Commuters Using Some form of Public Transportation**

	<b>Students</b>	<b>Faculty</b>	<b>Staff</b>	<b>Total</b>
Commute NOT Using Public Transportation	12,316 36.5%	1,919 51.3%	3,227 61.8%	17,462 40.9%
Commute Using Public transportation	21,451 63.5%	1,823 48.7%	1,996 38.2%	25,270 59.1%
<b>Total</b>	<b>33,767</b> 100.0%	<b>3,742</b> 100.0%	<b>5,223</b> 100.0%	<b>42,731</b> 100.0%

All of the students, faculty and staff who did NOT indicate taking any trips on public transportation (bus, subway, trolley, "El" or by regional rail) were asked to indicate reasons that would make them more likely to use public transportation (see Q20). Tables 5.4a, 5.4b and 5.4c report the reasons that would make students, faculty, and staff more likely to use public transportation. The highest proportion of students (39.7%) said that being able to buy a "University Pass" where they could use unlimited transit for \$150 per semester would make them a lot more likely to use public transportation. Also, students indicated that if fares were cheaper and the service were faster they would be a more likely to use public transportation. For faculty, the highest proportion indicated that if service were faster they would be more likely to use public transportation. For faculty, the highest proportion indicated that if service were fast and more reliable, and if there were more stops closer to home, they would be more likely to use public transportation.

**Table 5.4a Likelihood That Students Would Use Public Transportation More**

<b>Reason to Use Public Transportation More (Weighted N = 12,316)</b>	<b>A lot</b>	<b>Some</b>	<b>No Effect</b>
Fares were cheaper	4,367 35.5%	3,378 27.4%	4,571 37.1%
Parking costs were higher	2,252 18.4%	2,722 22.2%	7,286 59.4%
The transit system was safer	3,174 25.9%	3,308 27.0%	5,782 47.1%
Transit stops were closer to my home	3,561 29.1%	3,047 24.9%	5,611 45.9%
I didn't have to transfer between routes	3,240 26.4%	2,399 19.6%	6,622 54.0%
The service was faster	4,554 37.1%	3,420 27.9%	4,289 35.0%
The service was more reliable	4,314 35.4%	3,505 28.8%	4,363 35.8%
Gas prices went above \$4 again	2,745 22.6%	2,809 23.1%	6,609 54.3%
I could buy a "University Pass" where I could use unlimited transit for \$150 per semester (added to my Student Activity Fee)	4,892 39.7%	2,728 22.1%	4,713 38.2%
Other reason	1,087 10.5%	688 6.6%	8,594 82.9%

**Table 5.4b Likelihood That Faculty Would Use Public Transportation More**

<b>Reason to Use Public Transportation More (Weighted N = 1,919)</b>	<b>A lot</b>	<b>Some</b>	<b>No Effect</b>
Fares were cheaper	260 13.5%	452 23.5%	1,207 62.9%
Parking costs were higher	137 7.2%	443 23.1%	1,338 69.7%
The transit system was safer	242 12.7%	387 20.3%	1,278 67.0%
Transit stops were closer to my home	471 24.9%	370 19.5%	1,054 55.6%
I didn't have to transfer between routes	453 23.8%	250 13.1%	1,204 63.1%
The service was faster	529 28.0%	428 22.6%	934 49.4%
The service was more reliable	410 21.8%	440 23.4%	1,034 54.9%
Gas prices went above \$4 again	225 12.0%	362 19.3%	1,294 68.8%
Other reason	283 17.4%	38 2.3%	1,302 80.2%

**Table 5.4c Likelihood That Staff Would Use Public Transportation More**

<b>Reason to Use Public Transportation More (Weighted N = 3,227)</b>	<b>A lot</b>	<b>Some</b>	<b>No Effect</b>
Fares were cheaper	757 23.5%	774 24.0%	1,696 52.5%
Parking costs were higher	528 16.5%	789 24.7%	1,873 58.7%
The transit system was safer	664 20.7%	995 31.1%	1,544 48.2%
Transit stops were closer to my home	901 27.6%	725 22.2%	1,634 50.1%
I didn't have to transfer between routes	960 29.7%	543 16.8%	1,734 53.6%
The service was faster	936 29.3%	811 25.4%	1,446 45.3%
The service was more reliable	906 28.2%	907 28.2%	1,401 43.6%
Gas prices went above \$4 again	606 18.8%	833 25.9%	1,778 55.3%
Other reason	347 13.3%	112 4.3%	2,159 82.5%

## Section 6. Other Forms of Transportation

Other miscellaneous questions in the survey asked about knowledge of car sharing services (see Q17) and use of mobile ride request services such as Uber or Lyft (see Q18). Table 6.1 shows that overall 33.0% percent of students, faculty and staff reported knowing about car sharing services such as Zip Car and Enterprise Car Share. Faculty were more aware than students and staff.

**Table 6.1 Know About Car Sharing Services**

	<b>Students</b>	<b>Faculty</b>	<b>Staff</b>	<b>Total</b>
Yes	10,335 30.0%	1,978 52.0%	2,044 38.9%	14,357 33.0%
No	24,173 70.1%	1,828 48.0%	3,215 61.1%	29,216 67.1%
Total	34,508 100.0%	3,806 100.0%	5,259 100.0%	43,573 100.0%

Table 6.2 shows the proportion of students, faculty and staff who had ever used a mobile ride request service such as Uber or Lyft. Overall, 58.8% of students, faculty and staff have used a mobile ride request service. A higher proportion of students had used one of these services compared to faculty and staff.

**Table 6.2 Use of Mobile Ride Request Service Such as Uber or Lyft**

	<b>Students</b>	<b>Faculty</b>	<b>Staff</b>	<b>Total</b>
Yes	17,321 65.8%	1,527 41.2%	1,836 35.8%	20,683 58.8%
No	9,023 34.3%	2,183 58.9%	3,296 64.2%	14,502 41.2%
Total	26,344 100.0%	3,710 100.0%	5,131 100.0%	35,185 100.0%

## Section 7. Selected Campus Comparisons

Table 7.1 shows selected comparisons between students, faculty and staff on the seven different Temple University Campuses. There were differences in terms of primary modes of transportation used by campus. Main campus had the highest proportion of people commuting via walking, bicycle, or non-motorized means (31.7%), and the lowest proportion of people whose primary means of transportation is commuting with only the driver in the vehicle (excluding motorcycles and scooters) (28.6%). Harrisburg had the highest proportion of driver commuters (94%), with Ambler as a second (76.6%).

**Table 7.1 Primary Means of Transportation Used to Get to and from Campus**

<b>Mode Used for Commuting</b>	Main (Broad & Montgomery)	Health Sciences Center	Ambler	Center City (TUCC)	Temple Administrative	Harrisburg	Fort Washington	Total
Commute with only the driver in the vehicle (excluding motorcycles and scooters)	8,778 28.6%	1,744 48.9%	612 76.6%	369 37.6%	242 68.8%	188 94.0%	67 59.9%	11,999 32.7%
Walk, bicycle, or use other non-motorized means	9,736 31.7%	234 6.6%	23 2.9%	231 23.5%	0 0.0%	0 0.0%	0 0.0%	10,224 27.8%
Vanpool or carpool	681 2.2%	201 5.6%	42 5.3%	0 0.0%	10 2.8%	0 0.0%	0 0.0%	934 2.5%
Take campus shuttle or public transportation	11,358 37.0%	1,387 38.9%	122 15.2%	381 38.8%	100 28.4%	12 6.0%	18 16.4%	13,377 36.4%
Use a motorcycle, scooter, or moped	189 0.6%	0 0.0%	0 0.0%	0 0.0%	0 0.0%	0 0.0%	26 23.7%	215 0.6%
<b>Total</b>	<b>30,740 100%</b>	<b>3,565 100%</b>	<b>800 100%</b>	<b>980 100%</b>	<b>352 100%</b>	<b>200 100%</b>	<b>112 100%</b>	<b>36,749 100%</b>

## Section 8. Past Years Comparisons

Table 8.1 shows a selection of comparisons in survey responses across time (2008 – 2016). Comparing the 2016 survey to years past, the percentage of TU commuters who walk and bicycle to campus has increased.

**Table 8.1 Comparison of 2008 Through 2016 Estimates Where Available**

<b>Estimate</b>	<b>2008</b>	<b>2010</b>	<b>2013</b>	<b>2016</b>
% of TU commuters driving alone only	40	27.3	24.2	25.6
% of TU faculty and staff driving alone only	54	45.6	50.9	49.4
% of commuting TU students driving alone only	34	22.2	17.7	17.8
% of TU commuters who carpool	9	10.8	5.9	7.7
% of commuting TU drivers who park in Temple lots	53	48.2	48.9	47.3
% of commuting TU drivers who park on the street	37	38.2	40.8	38.1
% of TU commuters who ride a bicycle as part of their commute	6	8.8	8.9	9.7
% of TU commuters who walk as part of their commute	< 5%	18.2	19.2	29.4

# Appendix 1

## Informed Consent for the Temple Transportation Survey

Temple Transportation Survey Information Temple University is receiving no compensation for conducting this study. This study is sponsored by the Office of Sustainability. This survey of Temple Students, Faculty and Staff is an important step in the University's effort to create a more energy sustainable community. It is part of a large energy audit that will help to determine energy and transportation habits of all Temple Students, Faculty and Staff. Everyone at the University's primary campuses are eligible to participate in the survey. However, only one in six people were selected randomly (by a computer) to participate. This is why your answers are important to obtaining valid results. This online survey is very short. The time required to complete it will vary according to your answers. Many people will be finished in under a minute. Virtually everyone will be able to complete it in less than ten minutes. Your answers will be held in strict confidence. No one will be able to associate your name with your answers in the analysis. All the data will be kept confidential. Your participation in this study is entirely voluntary. If you chose not to participate, there will be no penalty or loss of benefits to you. You may also discontinue your participation at any time without penalty or loss of any kind of benefits. There is no cost and no compensation to you for participating in this survey. However, \$1,000 worth of \$50 Visa gift cards (20 gift cards) will be raffled. If you win a raffle prize, you will be notified via e-mail no later than May 31, 2016 with information about how to collect your prize. If you have any questions about your rights as a research subject contact the Institute for Survey Research at 215.204.8355. I understand that by checking "I agree" below, I acknowledge that I have read this consent form, and I agree to participate under the terms set forth above (please check the appropriate box below).

- I agree. Please continue to the survey.
- I do not agree.



## Appendix 2

### Sustainability Audit – Temple Transportation Survey

Q1NTRO Please read and answer each question below. Please be as accurate and truthful as possible. All your answers will be confidential.

Q1 Please enter the postal ZIP code where you live this semester:

Q2 On which campus do you spend most of your time this semester?

- Main (Broad & Montgomery)
- Health Sciences Center (HSC)
- Ambler
- Center City (TUCC)
- Temple Administrative Services Building (TASB)
- Harrisburg
- Fort Washington
- Other

If Other Is Selected, Then Skip To End of Block

Q3 Do you either live on campus or are you a commuter?

You live on campus if you live in one of the following places:

- White Hall
  - Johnson Hall
  - Hardwick Hall
  - Peabody Hall
  - 1940 Residential Hall
  - Temple Towers
  - 1300 Residence Hall
  - Morgan Hall Podiatry Residence Hall
  - You are a commuter if you do not live in any of the places listed above.
- I live on campus
  - I am a commuter

If I live on campus Is Selected, Then Skip To Do you have a personal vehicle (car o...

Q4 During this academic semester, in a typical week, how many one-way trips do you take coming to and from campus? (For example: If you come to campus on 3 days per week, then you would make 6, one-way trips to campus in a typical week.) (Do not count the intercampus bus shuttle, if you take it.)

trips per week:

Q5 When you come to campus, about how many miles is your typical one-way commute? (If you use more than one mode of transportation, enter your best estimate of all the miles you travel in a one-way trip.)

- mile(s) commuting one way: \_\_\_\_\_
- Don't know

Answer If When you come to campus, about how many miles is your typical one-way commute? (If you use more t... <div style="text-align: right;"><em>mile(s) commuting one way:&nbsp;&nbsp;&nbsp;</em></div> Is Greater Than 50

Q5pop Is the number entered above the correct one-way commute mileage? If yes, click "Next" below, or correct your entry.

Q6 In a typical week, do you take a bus as part of your commute to or from campus (Do not count the intercampus bus shuttle, if you take it)?

- No
- Yes

If No Is Selected, Then Skip To In a typical week, do you drive a car...

Q6a About how many one-way trips in a typical week do you take a bus in your commute to or from campus?

trips per week:

Q6b How many buses do you typically take to commute to or from campus?

- one
- two
- three or more

Q7 In a typical week, do you drive a car (not as passenger) as part of your commute to or from campus?

- No
- Yes

If No Is Selected, Then Skip To In a typical week, do you use a ride ...

Q7a About how many one-way trips in a typical week do you make to and from campus? (Do not include times as a carpool passenger, if you carpool.)

trips per week:

Q7b About how many miles do you drive one way as part of your typical commute to campus?

- miles driven one way: \_\_\_\_\_
- Don't know

Answer If About how many miles do you drive one way as part of your typical commute to campus? <div style="text-align: right;">miles driven one way:&nbsp;</div> Is Greater Than 50

Q7bpop Is the number entered above the correct one-way driving commute mileage? If yes, click "Next" below, or correct your entry.

Q7c How many people are usually in the vehicle when you drive to or from campus?

- one (you are usually driving alone)
- two (you usually have one passenger)
- three (you usually have two or more passengers)

If two (you usually have one p... Is Selected, Then Skip To What is the average "city" miles per ...

Q7d If you carpool to campus, do all the people in the car come to the campus, or are some dropped off at other locations?

- all come to the campus
- some go to other locations

Q7e What is the average "city" miles per gallon your vehicle gets (your best estimate is fine)?

- MPG: \_\_\_\_\_
- Don't know

Q7f If you drive to campus, where do you most often park your vehicle on campus?

- in a Temple parking lot with paid or swipe access
- in another lot
- on neighborhood streets near campus
- other (please specify) \_\_\_\_\_

Q8 In a typical week, do you use a ride service such as a taxi, Uber or Lyft as part of your commute to or from campus?

- No
- Yes

If No Is Selected, Then Skip To In a typical week, do you take a subw...

Q8a About how many one-way trips in a typical week do you take with taxi, Uber or Lyft in your commute to or from campus?

trips per week:

Q9 In a typical week, do you take a subway (“orange”), subway/surface (“trolley”), or the El (“blue”) as part of your commute to or from campus?

- No
- Yes

If No Is Selected, Then Skip To In a typical week, do you take any re...

Q9a About how many one-way trips in a typical week do you take a subway, trolley, or “El” in your commute to or from campus?

trips per week:

Q10 In a typical week, do you take any of the regional rail lines (see list below) as part of your commute to or from campus?

- No
- Yes

If No Is Selected, Then Skip To In a typical week, do you bicycle as ...

Q10a About how many one-way trips in a typical week do you take by regional rail in your commute to or from campus?

trips per week:

Q11 In a typical week, do you bicycle as part of your commute to or from campus?

- No
- Yes

If No Is Selected, Then Skip To Please check any of the following sce...

Q11a Do you use a personal bicycle (owned by you or someone you know), or do you use Indego (Philadelphia’s Bike Share System)?

- I use a personal bicycle (owned by me or someone I know)
- I use Indego (Philadelphia’s Bike Share System)
- I use both a personal bike and Indego, depending on the day/my needs

Q11b About how many one-way trips in a typical week do you bike in your commute to campus?

trips per week:

Answer If If you bike to campus, about how many one-way trips in a typical week do you bike in your commute... <div style="text-align: right;">trips per week:&nbsp;&nbsp;&nbsp;</div> Is Greater Than 20

Q11pop Is the number entered above the correct one-way bike commute mileage? If yes, click "Next" below, or correct your entry.

Q11c About how many miles do you bike one way as part of your typical commute to campus?

- miles biking one way: \_\_\_\_\_
- Don't know

Q11d If you use (or want to use) a campus bicycle rack, can you typically find a spot?

- No
- Yes
- I typically do not use a campus bicycle rack

Q11e Please check any of the following scenarios that would encourage you to bike as part of your commute or bike more often.

- More dedicated bike lanes
- More bikeway destination/route signage
- Better road conditions/road surfaces
- Better street lighting
- Increased education and outreach programs
- Secure bike parking with swipe access on campus
- More Indego stations on campus
- More Indego stations closer to my home or other places I go
- Other (please specify) \_\_\_\_\_
- There are no other scenarios that would encourage me to bike as part of my commute (e.g., live too far away, do not know how to ride a bike, etc.) - (please explain)

\_\_\_\_\_

Q12 In a typical week, do you walk as the main part of your commute to or from campus? That is, if you walk more than half of the distance to campus (but perhaps take another form of transportation the rest of the way), you would answer "yes."

- No
- Yes

If No Is Selected, Then Skip To In a typical week, are you a passenge...

Q12a About how many one-way trips in a typical week do you walk as the main part of your commute to or from campus?

trips per week:

Q12b About how far do you walk one way as part of your typical commute to campus?

- mile(s) walking one way: \_\_\_\_\_
- I walk less than one mile one way
- Don't know

Answer If About how far do you walk one way as part of your typical commute to campus? <div style="text-align: right;">mile(s) walking one way:&nbsp;</div> Is Greater Than 5

Q12pop If  $\{q://QID34/ChoiceGroup/AllChoicesTextEntry\}$  miles is the correct one-way walking commute, click "Next" below, or click "Back" to correct your entry.

Q13 In a typical week, are you a passenger in a carpool (not driver) as part of your commute to campus? (Carpooling may include family members or others.)

- No
- Yes

If No Is Selected, Then Skip To Below are common reasons why people d...

Q13a About how many one-way trips in a typical week do you carpool in your commute to or from campus?

trips per week:

Q13b How many people are usually in the vehicle when you carpool to campus?

- two (one driver and one passenger)
- three or more (one driver and two or more passengers)

Q14 Below are common reasons why people do not carpool (or do not carpool more often). Please check what you consider the main reason why you do not carpool or carpool more often.

- Not convenient locations (would have to drive out of my way for pick up)
- Hard to coordinate times to come and go – need more flexibility
- Prefer driving privately
- Sharing the costs is too complicated
- Don't know anyone I could carpool with
- Have other errands to do on the way to or from campus
- Wouldn't be able to leave campus if my child gets sick, or in another such emergency
- Other (please specify) \_\_\_\_\_

Q15 Based on your answers to the previous questions, what would you consider to be your primary means of transportation to get to and from campus?

- Commute with only the driver in the vehicle (excluding motorcycles or scooters)
- Walk, bicycle, or use other non-motorized means
- Vanpool or carpool
- Take campus shuttle or public transportation
- Use motorcycle, scooter, or moped

Answer If Do you either live on campus or are you a commuter? You live on campus if you live in one of the... I live on campus Is Selected

Q16 Do you have a personal vehicle (car or motorcycle) for your own use on campus this semester?

- No
- Yes

If No Is Selected, Then Skip To Carsharing services (Zipcar and Enter...

Answer If Do you either live on campus or are you a commuter? You live on campus if you live in one of the... I live on campus Is Selected

Q16a Where do you most often park on campus?

- In a Temple parking lot with paid or swipe access
- In another lot
- On neighborhood streets near campus/residence
- Other (specify) \_\_\_\_\_

Answer If Do you either live on campus or are you a commuter? You live on campus if you live in one of the... I live on campus Is Selected

Q16b About how often do you use your vehicle for any purpose this semester?

- Every day or almost every day
- A few days a week
- About one day a week
- Less than once a week

Q17 Carsharing services (Zipcar and Enterprise CarShare) have Temple campuses as “stations” for their cars. Do you know anything about how such carsharing services work?

- No
- Yes

Answer If No Is Selected

Q17pop Carsharing is a subscription to use a car by reserving one only for the hours you need it. You can find out more at either [www.zipcar.com](http://www.zipcar.com) or [www.entreprisecarshare.com](http://www.entreprisecarshare.com)

Answer If In a typical week, do you use a ride service such as a taxi, Uber or Lyft as part of your commute... No Is Selected

Q18 Have you ever used a mobile ride request service such as Uber or Lyft?

- No
- Yes

Q19 Have you ever used Indego, Philadelphia’s new bike share system?

- No
- Yes

Q19a What motivated you to use Indego?

	Not at all important	Slightly important	Somewhat important	Important	Very important
Save money on transportation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Get around more easily, faster, shorter time	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Like to bike, fun, way to travel	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Exercise, fitness	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Reduce carbon footprint, concerned about environment	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Access to another bike/backup bike	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Access to other form of transportation, new travel option/one-way travel option	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
To support the program	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Spending time with family or friends	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other (please specify)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>



Answer If Have you ever used Indego, Philadelphia's new bike share system? Yes Is Selected

Q19b What were the primary purposes for which you used Indego? (Please rate each individually)

	Never	Rarely	Sometimes	Often	Very often
Go to/from work	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Go to/from school	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Go to/from meetings/appointments	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Go to/from shopping	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Go to/from social events	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
To get exercise	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
To ride for fun/entertainment	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
To take a bike ride with family	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
To take a bike ride with friends	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Answer If In a typical week, do you take a bus as part of your commute to or from campus (Do not count the intercampus bus shuttle, if you take it)? [check No or Yes] No Is Selected And In a typical week, do you take a subway ("orange"), subway/surface ("trolley"), or the EI ("blue") as part of your commute to or from campus? No Is Selected And In a typical week, do you take any regional rail line (see list below) as part of your commute to or from campus? No Is Selected

Q20 There are many reasons people decide not to use public transit to commute. According to the answers you've provided in this survey, you typically do not use public transit in your daily commute. Please indicate below how much more likely you would use public transit for your commute if each of the factors shown were true. How much more likely to use public transit?

	A lot	Some	No effect on my decision
Fares were cheaper	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Parking costs were higher	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The transit system was safer	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Transit stops were closer to my home	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I didn't have to transfer between routes	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The service was faster	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The service was more reliable	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Gas prices went above \$4 again	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
If pnlStudent Is Equal to 1			
I could buy a "University Pass" where I could use unlimited transit for \$150 per semester (added to my Student Activity Fee)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other reason (PLEASE SPECIFY)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

END Thank you for taking the time to participate in Temple's Transportation Survey! If you want to be eligible for the raffle prizes, please check "yes" below. If not, check "no." If you enter and win the raffle, you will be notified in the next few weeks via your preferred method of contact with information to claim your prize.

- Yes, please enter my name in the raffle.
- No thank you, I do not want to be entered in the raffle

If No thank you, I do not want... Is Selected, Then Skip To Thank you again for contributing to T...

CONMODE Please indicate your preferred mode of contact and provide the contact detail:

- Email
- Phone call
- Text message
- Mail

Answer If Please indicate your preferred mode of contact and provide the contact detail: Email Is Selected  
Or Please indicate your preferred mode of contact and provide the contact detail: Phone call Is Selected  
Or Please indicate your preferred mode of contact and provide the contact detail: Text message Is Selected  
Or Please indicate your preferred mode of contact and provide the contact detail: Mail Is Selected

CONTACT

Email  
Phone  
Text  
Street Address 1  
Street Address 2  
City  
State  
ZIP Code

ENDTU2016 Thank you again for contributing to Temple's Sustainability Audit!

## Appendix 3. Other Most Common Parking Locations for Vehicles Commuting to Campus (Q7f)

- Ambler student lot
- at a train station
- Broad and Pattison subway lot
- Ceil B Moore \$7 on the right parking by temple towers or Norris st
- City parking garage
- combination of garage and streets
- Computer Services reserved lot
- do not drive to campus
- Do not drive to campus
- do not drive to campus
- Do not drive to campus
- do not drive to campus--poor survey design here. should include response "do not drive to campus"
- don't drive to campus
- don't drive to campus
- Don't drive to Campus
- don't drive TO campus
- drive to Septa Train West Trenton Line
- drive to the train station
- drive to train station
- drive to train station
- drive to train station not to campus
- Fern Rock Transportation Center
- Free Temple Lot
- Friends Parking Garage
- Ft Washington lot
- Get dropped off
- Harrisburg parking garage
- hospital parking
- I do not drive to campus, I drive to a regional rail SEPTA station where I continue the bulk of my trip by train
- I do not drive to campus, I drive to lansdale train station and take the regional rail the rest of the way
- I do not drive to temple
- I do not drive to the campus.
- I do not park on campus
- I don't
- I don't drive all the way to campus
- I don't drive to campus
- I don't drive to campus
- I don't drive to campus
- I don't drive to campus; i drive to Malvern Station. This survey hasn't been properly tested and is wasting my time.
- I don't park - I ma dropped off here via carpool
- I drive to a suburban train station, not to campus.
- If I didn't find streets parking near campus. I use temple paid Parkings.
- In Delaware at train station
- in front of the building, in the parking lot
- Lansdale Train Station Parking Lot
- LAZ Parking Garage in CC
- meter
- n/a
- next to train station parking
- on the sidewalk, perpendicular if possible
- Park at train station
- Park at train station
- parking garage
- Partnership lot in Center City
- SEPTA regional rail parking lot
- Street on campus
- TASB
- Temple university hospital lot
- train
- train parking lot
- train parking lot
- Train station
- Train Station
- Train Station
- Train station
- Train Station
- train station

- Train station
- Train Station parking lot
- very frightening neighborhood streets
- Wells Fargo Center

## Appendix 4. Main Reasons Why Students, Faculty and Staff Do Not Carpool, or Do Not Carpool More Often (Q14)

- afraid of others i dont know
- Already live on campus
- bad traffic, would rather take trolley and subway
- Because the train is very convenient
- bicycling and public transit are more convenient
- Biking from my apartment is just as fast and cheaper
- But there's no need to; I use public transit. Plus, it would take longer to drive in traffic & then find parking.
- Campus is too close
- Class times are too early and too late for others
- close enough that using a car is unnecessary
- close enough to walk
- Close enough to walk
- come from home to school. After school I go to work in a different direction
- Coming directly from work and need to pick my children up after school.
- distance is not that far away.
- do not car pool
- do not carpool
- Do not drive
- do not drive and it would not be an attractive alternative, if I did drive.
- Do not drive to campus, so OF COURSE do not carpool
- do not drive to school
- Do not drive.
- Do not need a car
- Do not need to drive.
- Doesn't make sense for me to carpool
- doesn't make sense with Broad St Line
- Don't carpool because I walk to campus
- Don't carpool more often because I use public transportation from work to get here. My family member picks me up after class. No need to carpool more.
- Dont drive
- dont drive
- Don't drive
- don't drive at all
- don't drive in
- Don't drive.
- don't feel need to take car
- Don't have a car
- don't have car
- Don't live far enough away to drive
- Don't live far enough to drive
- Don't need
- don't need a ride
- Don't need one
- Don't need to
- Don't need to carpool
- Don't need to carpool when I can walk
- Don't need to drive
- Don't need to go that far
- Don't need to since I bike, but I also don't know anyone to carpool with and public transit is accessible from where I live.
- Don't need to, can walk
- dont need to, I bike to campus
- Don't need to, I can walk or Bike
- don't take cars to campus
- Drive to SEPTA station only
- Driving does not make sense, I am too close to campus.
- Driving is not necessary because I live close enough
- faster to take subway
- Frequently have to go to another job from campus
- Given my location, it's easier for me to commute by bicycle than car.

- go to many meetings on way in, and returning home
- Going to class from work
- have no need to carpool, I walk to the train station from home and from train station to campus office
- I always carpool
- I am adjunct faculty - Have other jobs (not errands) on way to or from campus (and have kids to pick up after their school)
- I am close
- I am disabled and take paratransit to and from Temple.
- I am driving from another job in another state.
- I am in walking distance of the campus....
- I am not interested in driving since my commute is pretty short.
- I am not lazy and I can walk the mile or so to campus everyday
- I am so close to campus that carpooling makes no sense
- I am the driver in my carpool with my brother to the train, it is my car
- I am the driver of a carpool
- I arrange my schedule to go in with my husband most of the time
- I bike
- I bike
- I bike
- I bike to work
- I bike.
- I can take a bus home most days
- I carpool
- I carpool
- I carpool everyday
- I carpool everyday.
- I carpool frequently with a roommate
- I carpool to public transit every day
- I carpool with my wife, I'm the driver.
- I come directly from work
- I come straight from work in NJ but do give rides home to friends
- I come straight from work to TUC
- I commute to another campus mid day. have no other reasonable transportation to other campus
- I do carpool
- I do carpool most every day either as the driver or passenger
- i do carpool!
- I do carpool, I am the driver, my sister is the passenger.
- I do carpool. I am the driver
- I do carpool; I'm always the driver
- I do not come to campus by car
- I do not drive
- i do not drive
- I do not drive nor carpool to work.
- I do not drive or want to be in a car.
- I do not have a car and I live fairly close to campus
- I do not have anyone to carpool with
- I do not need a car to commute to campus
- I do not need to drive
- I do not need to drive most places
- I do not need to drive to campus and I also don't drive
- I do not use a car in any capacity to get to or from campus.
- i dont
- I don't always leave campus the same time each day
- I don't carpool
- I don't carpool
- I dont carpool because I walk to campus
- I don't commute by car
- I don't drive , i take PATCO and sybway
- I don't drive to campus
- I don't drive to campus
- I don't drive to campus
- I don't drive to work, and being in a carpool wouldn't change this
- I don't drive work at all

- I don't drive. Sometimes if my friend drives up to campus before class she will pick me up but that is like once a month.
- I don't drive; bike (and subway when necessary) is fine
- I don't have my license-I get my aunt to drive me under special circumstances
- I don't have regular access to a car.
- I don't leave that far from campus
- I don't like the people who live near me.
- I don't live far enough away for driving to campus
- I don't live far enough away to have to drive
- I don't live far enough from campus to necessitate carpooling.
- I don't live that far no need
- I don't need
- I don't need a car ride to get to my destination
- I don't need to
- I don't need to carpool
- I don't need to carpool
- I don't need to carpool I live close
- I don't need to carpool I live within walking distance
- I don't need to carpool, I live w/in walking distance
- I don't need to carpool. The subway is perfect for me.
- I don't need to, I have legs
- I don't use or ride in motor vehicles in my work commute
- I drive my roommate daily
- I drive one, sometimes two people to campus.
- I drive with another person who is the passenger.
- I drive with my husband when our schedules permit. Otherwise, I prefer to drive alone
- I drop off my kids at school in the morning before coming to work.
- I frequently travel for work and do not start and/or end my day at the office
- I get a ride everyday.
- I get to campus faster by taking the subway and walking to and from the subway. There is too much traffic during commuting times that it would likely take me longer to drive or carpool than it does to take the subway.
- I go directly to work after teaching class
- I go to TU from Norristown then leave TU for Ambler--impossible to coordinate
- I have a convenient set up with the Intercampus Shuttle. So convenient that I do not consider other options
- I have a fifteen minute drive to the train station and then I spend most of my commute on the train so carpooling wouldn't really make sense as far as saving money or gas.
- I have a job
- I have a schedule that changes daily.
- I have accessible public transportation
- I have no need. I can walk to campus
- I have to take a night class at main campus, and sometimes my family cannot get to main campus at night. I would take the intercampus shuttle, like I do to get down there, but it stops running by the end of my night class.
- I just don't
- I leave too early
- I like commuting privately
- I like the bus
- I like to bike and walk
- I live 2 blocks from campus
- I live 3 blocks away
- I live 4 blocks away and prefer to walk
- I live 4 blocks off campus
- I live at Kardon Apartment, I'm off campus but live less than a mile away



- I live close and don't need to drive
- I live close enough that it is not necessary
- I live close enough to campus to walk without needing to use a car or carpool.
- I live close enough to campus to walk.
- I live close enough to walk
- I live close enough where I don't need a car
- I live close to a broad street line stop and can get myself to campus easily without taking anyone out of their way in a car. Graduate students are very busy and our hectic schedules do not lend themselves to coordinating unnecessary carpools.
- I live close to campus and don't drive.
- I live close to campus so I don't need to carpool
- I live closeby so I walk
- I live far from my classmates, I often have a tight schedule when leaving Temple in the evening to get ready for work overnight.
- i live far way and all of my friends live at temple and have different school schedules than me
- I live in Kardon Atlantic, I don't need transportation, I usually just walk everywhere
- I live literally 5 minutes from campus.
- I live off-campus, near Main Campus, so carpooling is not really an option
- I live one block off of campus
- I live too close to require a ride
- I live too close
- i live too close for that
- I live too close to campus
- I live too close to campus to drive.
- I live too close to campus to require a carpool
- I live too close to carpool, I can just walk
- I live too close to drive because parking on campus is almost impossible
- I live too close to go in a cae
- I live two blocks behind White Hall.
- I live very close to campus so i do not need to drive
- I live very close to Campus, thus it does not make sense to drive/carpool to campus.
- I live walking distance away from campus
- I live within walking distance
- I live within walking distance of campus.
- I live within walking distance of campus. To drive would be idiotic.
- I only come for staff meetings as most of my work is field work and done off campus
- I only walk to campus
- I paid for a semester long Regional Rail Pass so I have no reason to
- I prefer not to ride in a car to campus
- I prefer public transit.
- I prefer public transportation
- I prefer SEPTA
- I prefer taking SEPTA Regional Rail
- I prefer the exercise of walking to the subway
- I prefer the train
- I prefer the train
- I prefer to bike
- I prefer to walk to take public transit
- I prefer to walk.
- I prefere walking and using public transportation
- I primarily ride a bicycle
- I rarely drive, usually take the train
- I ride my bike.
- I ride my bike.
- I ride the train
- i skate to school
- I take Patco and Septa. Also, I live too far away and my schedule varies.

- I take public transit
- I take public transportation with fellow students
- I take public transportation.
- I take regional rail
- I take regional rail.
- I take subway no need to drive
- I take the Broad Street Line. No need for a car ride.
- I take the regional rail
- I take the regional rail and subway to the medical campus
- I take the regional rail to work. The train is easier, less stress, more convenient and better for the environment.
- I take the regional rail.
- I take the subway
- I take the subway
- I take the subway
- I take the subway
- I take the subway almost everyday. No need to carpool
- I take the subway- no need to carpool
- I take the subway or bus
- I take the subway to school
- I take the subway; no need to carpool. Subway is much faster than driving and much less hectic/stressful.
- I take the train
- I take the Train
- I take the train
- I take the train
- I take the train
- I take the train
- I take the train -- a huge carpool!
- I take the train and live right by a station.
- I take the train at the moment, it's more convenient to drive myself.
- I take the train every day (or subway if there are train issues)
- i take the train i live to far
- I take the train so I don't need to car pool
- I take the train.
- I take the train.
- I take the train.
- I take the train.
- I use my bike
- I use public transportation
- I use public transportation and don't own a car
- I use regional rail daily.
- I use regional rail.
- I use SEPTA.
- i use the subway
- I usually leave campus very late at night.
- i walk
- I walk
- I walk
- I walk
- I walk
- I walk
- I walk
- i walk
- i walk every day
- i walk or take the sunway
- i walk to campus
- I walk to campus
- I walk to campus
- I walk to campus
- I walk to campus
- I walk to campus
- I walk to campus
- I walk to class
- I walk to Temple, no need to carpool
- I walk to train
- I walk!
- I walk, no need to carpool
- I work a second job, I need to be in on time for scheduled appointments and my schedule varies during the week due to working one evening.
- I work crazy doctor hours most people are not awake when I leave home and are home long before I leave work

- I work during the day and am a part-time student
- I do not need to car pool
- I'm a driver in a carpool.
- I'm a grad student taking night class and have obligations after class that others don't have causing me to commute solo
- I'm close enough to walk
- I'm close to campus so I'd rather walk
- I'm not far enough to need a ride
- I'm not that far from the campus which would not need a carpool
- I'm too close to campus to need a ride
- I'm too close to drive. It would be a waste of resources
- I'm too close, don't need to drive
- I'm walking distance to campus
- Inflexibility of my work hours and childcare issues are my main reasons for not pursuing any carpool options
- it does not apply to me
- It is a pain to drive and sit in traffic. Train is quicker
- It is easier for me to just take the subway
- It is easier for me to walk than to drive.
- It is easier to take the train
- It's far more convenient and faster to take the train
- It's hard to carpool on a bike
- Job requires me to have a car
- Just take the train
- Like regional rail
- live close
- live close enough to campus, would be pointless to drive
- live close enough to walk
- Live close enough to walk
- live close to campus
- Live far away
- live in the city, it is more convenient to take the subway
- live near campus
- Live right off campus so I just walk
- Live too close to campus
- Live too close to campus
- Live too close to carpool-
- Live too close to drive
- live too close to need a carpool
- live walking distance from campus
- lives too close to campus for carpool
- Money
- most people are at work in the city already when I need to leave for class
- My arrival and departure times differ.
- My commuting partner only comes to campus 2 days/week
- my complex provides van service once I get off subway going home.
- My hours are longer than anyone else I know (and unpredictable)
- My primary form of transportation throughout the entire city is a bicycle. It pays for itself (no gas, very inexpensive upkeep)
- My research related schedule does not allow a predictable departure time.
- My schedule does not line up with classmates who live near me. This may change next year.
- My schedule is not always predictable due to my role.
- My schedule is too complicated to be able to arrange a car pool situation.
- My wife and I only have one car. Plus, the regional rail is 3 blocks from my house.
- My wife drops me off in the mornings.
- N/A
- N/A
- Na
- Need availability for meetings and pick up of grandchildren
- No
- No car
- No car
- No car/live close to campus

- no free parking
- no need
- No need
- No need - live off campus so I walk
- No need for vehicle transportation from where I live
- no need to
- no need to carpool - public transportation is enough
- no need to carpool as take subway easily
- No need to carpool, the train is extremely convenient.
- No need to carpool
- No need to drive
- No need to since I'm within walking/biking distance
- No need to. I walk everywhere or use the subway
- No need, I live close enough to always walk to campus
- No need. Subway works fine.
- No one drives because there are no free parking options
- No one else lives near me
- No one else works downtown it would be a waste for them
- No one is carpooling around me
- No one live near me to carpool with and I need to leave for my child if need be
- No one lives near me
- No one to commute with and the bus is very convenient
- Nobody lives in the same town as I do
- Nobody to carpool with
- none
- None
- Not applicable, take the campus shuttle (free)
- Not far enough
- not far enough for carpool
- not farr away enough to do so
- not necessary
- Not needed
- not needed
- Odd hours
- often only person teaching that night
- On days I do not carpool I take the orange line
- Only gong a half mile, I sometimes just catch a ride from a family member.
- Parking at my residence can be inconvenient and time consuming looking for a parking spot upon returning home from school
- Parking is tough
- People don't live near me or on my way to campus
- practically live on campus
- Prefer commuting privately
- Prefer my bike
- Prefer Public Trans.
- Prefer regional rail
- Prefer Regional Rail, more relaxing, less expensive and don't have to rely on anyone.
- Prefer subway. More convenient.
- Public transit and bicycling are far more convenient.
- Public transit more convenient
- rarely drive to campus
- regional rail
- Regional rail is easier for me
- Regional Rail is most convenient for me.
- Ride a motorcycle most days to campus
- ride buses
- Safety issues of riding with complete stranger
- schedule, between work, school, and children
- schedules
- SEPTA is easier and faster
- Short commute to teain
- Since I live so close, it's faster and cheaper to walk
- Subway is easier

- subway is easier
- subway is easier
- Subway is easier.
- Subway is more convenient.
- Subway is most convenient
- subway seems more convenient than carpool
- take public transport
- take public transportation
- Take Public transportation
- take public transportation
- Take SEPTA
- Take the train
- Take the train
- Take the train
- Take the train
- take the train, don't drive
- take the train. Carpool two miles to train with son three times a week.
- take train for the majority of commute
- Takes longer to drive than to take subway - not counting coordinating with another person
- The distance is too short to carpool
- The main part of my commute is on Regional Rail and I only drive to the train station about 2 miles. I have different times that I go to campus each day and carpooling would be nearly impossible to coordinate
- The person does not go to Temple
- The subway is easier. I don't have to worry about parking.
- The subway is easy.
- The subway is faster and more carbon friendly.
- The subway is faster than driving
- the subway is the easiest form of transportation
- The subway is the easiest way to commute to campus.
- The train and my bike are fine. I don't need another mode of transportation.
- The train is better than driving
- There is no need for me to carpool, I have convenient access to the subway.
- There is no one in the area where I live to carpool with.
- There is no reason not to ride my bike or walk.
- There's no reason for me to drive to campus when I live close enough to walk
- these questions are posed non-intuitively. I do carpool, as the driver with other people.
- Too costly when I can just walk a mile.
- too long to find parking
- Traffic on 76
- Train
- train
- Train is easier
- Train is easier
- Train is faster and more environmentally friendly
- Train is faster than driving.
- Train is more convenient
- Train is more convenient and takes same amount of time
- train rider
- Trains are more sustainable.
- travel to different Counties in PA
- unnecessary
- Unlikely anyone is doing my route -- evenings from Villanova to Temple then to Chestnut Hill
- Use regional rail
- use the subways
- varied schedule, need to go elsewhere, rather than directly home, time critical
- walk to campus
- Walk to campus
- Walking is easier
- Walking is easier and faster
- Walking to campus is the easiest way to get there.
- walking/train work fine for me

- When I don't carpool it's because the driver has to stay on campus several hours later than I
- Within Walking Distance
- Work
- work hours vary daily
- Would rather take the train

## Appendix5. Scenarios that Would Encourage Commuters to Bike or Bike More Often (Q11)

- 2 young children with carseats that need transport before and after work.
- 3 miles
- adjunct professor, 70 years of age
- Afraid of city drivers and getting hit.
- afraid of traffic
- Age
- All of my classes end at 8pm and I do not feel comfortable biking at night. Also, I live too far away
- bad knees
- Bike safety through north philadelphia neighborhoods
- Biking from Manayunk to Temple would be nice but unfortunately it would require me to bike through areas of North Philadelphia that can be quite dangerous to travel through alone, especially at night so I would not consider biking a realistic o
- Biking from NE Philadelphia is too dangerous
- Biking in philadelphia is far too dangerous due to the drivers in philadelphia
- Bringing bike onto train would be difficult
- Can't afford bike
- cant ride a bike
- car is faster and safer than taking train and subway/bus
- carry bags, etc. car easier to train
- Children drop off and pick up from other city locations
- Close walk
- Commute from home is too far
- Commute is 66 miles one way
- commute is too far
- Commute is too far and goes through rough neighborhoods
- Difficult to bike--estimated 1 1/2 hours each Way
- Distance is an Issue.
- Distance to great
- do not bike
- Do not bike.
- Do not feel comfortable riding in the city, too much stuff to carry with me each day
- Do not have a bike
- do not know
- Do not know how to ride a bike
- do not know how to ride a bike
- Do not know how to ride a bike
- Do not know how to ride a bike
- do not know how to ride a bike
- do not know how to ride a bike
- do not know how to ride a bike - even if I did know how to ride a bike - I would not ride a bike to Temple or anywhere else
- Do not know how to ride a bike.
- Do Not Know How To Ride Bike
- do not know how to ride bike
- Do not own a bike
- do not own a bike or helmet
- Do not own a bike, close enough to walk
- Do not wish to ride a bike
- Don't have a bike on campus
- Dont have a bike. I would rather walk.
- Don't have one, honestly never thought to get one. As a foreigner i always think that it gonna be cold to ride a bike
- Don't know how to ride
- dont know how to ride a bike
- don't know how to ride a bike
- Don't know how to ride a bike
- Don't know how to ride a bike
- don't know how to ride a bike
- Don't know how to ride a bike
- don't know how to ride a bike and I live too far
- Don't know how to ride, and absolutely too far
- Don't own a bike
- Don't own a bike
- Don't own one, won't buy one
- Don't ride or own bike

06/14/2016

- Don't want to
- energy expensed does not contribute effectively to weekly study-time requirements
- Family responsibilities require me to have a car
- Hate riding bikes, and I live really close to campus
- Have a disability that affects mobility.
- Have children I need to pick up at school and from their other activities
- have to cross major roadways and bad neighborhoods if i bike in
- Have to drive to work already. Plus don't have a bike
- Haven't rode a bike in many many years
- Healp conditions prohibit me from biking and I am 15 miles away
- health issues
- I am 77 years old. Not bicycling on city streets.
- I am an employee
- I am disabled, so cannot ride a bike. I take Paratransit to school.
- I am living off campus nearby the campus, so I just walk to school everyday
- I am nearly 70 years old and arrive on campus about 5am
- I am not a bicycle person period.
- I am not comfortable with riding a bike to school, especially in the busy streets of philadelphia.
- I am not good at riding a bike and uncomfortable with riding. I walk to campus
- I am too close to bike.
- I can read on the bus but not on a bike
- I cannot bike from New Jersey.
- I can't ride a bike. :/
- I come from NJ
- I commute 37 miles to campus.
- I commute from home which is too fat away
- I commute from Norristown to TU main campus, then home to Ambler. Too far to bike.
- I consider it too dangerous
- I depend on my car because I do other things like food shopping
- I do not know how to ride a bike
- I do not know how to ride a bike (and live to far to bike anyway)
- I do not know how to ride a bike.
- I do not know how to ride a bike.
- I do not like to ride bikes.
- I do not own a bicycle
- i do not own a bike and do not plan to
- I do not own a bike and I am not comfortable with riding it in Philadelphia streets.
- I do not own a bike.
- I do not own a bike. I live too far and out of state which would require me to travel across the bridge.
- I do not ride a bike
- I do not ride a bike. I do not have a bike.
- I do not ride bikes often.
- I don't bike
- I don't bike when it's dark early because my classes often end at 7 pm
- I don't bike.
- I don't feel safe riding a bike around Philadelphia
- i dont have a bike
- I don't have a bike
- I don't have a bike, if I did I would ride it to campus
- I don't know how to ride a bike
- I don't know how to ride a bike
- I don't know how to ride a bike.
- I don't like bike riding
- I don't like biking
- I don't like biking on roads with cars.
- I don't live in location that it makes sense for me to bike directly to campus.
- I don't live that far away and I prefer walking for exercise.
- I don't need a bike



- I don't need to bike. The Montgomery parking lot is next to the center of campus and all of my classes are at main.
- I don't own a bike
- I don't own a bike
- I don't own a bike, and I live way too far away to commute by bike.
- I don't own a bike. I have used Indego a few times, weather permitting. I do not think I could be encouraged to bike more.
- I don't ride a bike and I live too far away.
- I don't want to
- I don't want to ride 17 miles up and down hills through West and North Philadelphia when there is a transit system that I can take half a block away from my home.
- I drive
- I drive a Prius, so I am being as green as possible right now.
- I drive in to work daily and take classes on campus at night. I might consider biking from the office to campus if the Indego stations were more convenient for me to do so. However the cost is a deterrent when I already have access to my vehicle
- I enjoy driving my car.
- I enjoy my walks
- I enjoy walking
- I feel like it's unsafe to ride a bike on broad st
- I feel the roads and neighborhoods are too unsafe to bike thru. Also I often work late and would not want to bike in the dark.
- I get too sweaty when I bike, and I carry my laptop to/from campus every day and worry about possible damage.
- I go directly to school after work each day and I need my car for work.
- I grew up in a city where bicycles were discouraged and never learned to ride proficiently enough to make the journey to campus.
- I handle the daycare drop off/pickup run so need a car for my daughter.
- I hate bikes.
- I hate cycling
- I have a disability and I can't ride a bike, thanks
- I have a vehicle and I live too far and I'm graduating
- I have other responsibilities before going to work.
- I have to bring too many books to campus to bike
- I have too much pain and immobility from old injuries to safely ride any more. Even if I could do so physically, is too dangerous on the roads to and from my home to make biking to work a viable option.
- I honestly prefer walking.
- I just like walking or riding a long board every so often
- I just prefer to walk
- I just would prefer not to ride a bike.
- I like to bike, but I'm too old to rely on biking for the commute
- I live .5 miles from campus and it's mostly up hill there. Walking is fine.
- I live 16 miles away. This is simply too far for me to bike everyday to and from school.
- I live 30 miles away. Biking would be impossible
- I live 35 miles away
- I live 40 miles from campus and i don't own a bicycle nor like riding
- I live 40 minutes away from campus. I drive to the train station and take the hour train ride to campus.
- I live 45 miles away cannot bike that far
- I live 50 miles away so it would be a long commute.
- I live a five minute walk from campus. It would be more annoying to bike.
- I live about 30 miles from campus
- I live about two blocks behind White Hall.
- I live an hour away from campus - biking would be ineffective
- I live at campus borders.
- I live close enough to walk

06/14/2016

- I live far and would need to bike through an unsafe area
- I live far away, but might bike to the train near my house.
- I live far enough away and my commute takes me through less savory parts of town.
- I live in 35 miles away from main campus- which is too far to commute by bike.
- I live in Delaware
- I live in Manayunk and would have to ride a pretty good distance through some of the worst areas in Philly
- I live in New Jersey
- I live in New Jersey
- I live in New Jersey
- I live in New Jersey - would not bike from that location. Would probably never bike regardless of location because Philly drivers are too aggressive and streets too narrow.
- I live in New Jersey. It's not practical for my particular commute.
- I live in NJ
- I live in NJ so riding my bike is not an option
- I live in NJ, so a bike ride would not be feasible.
- I live in SW Phila which is too far to ride a bike and North Phila is not that safe to ride a bike.
- I live in the suburbs and I take the train into the city. A bicycle is unnecessary for me.
- I live in the suburbs.
- I live In Wilkes-Barre or commute from Media
- I live in Willow Grove, so I take the train everyday to and from school. It is too far of a commute for me to bike to and from campus.
- I live MUCH too far away to bike to campus. It is simply not safe to ride a bicycle in the suburbs that far.
- I live only 1 1/2 blocks from campus so I walk
- I live outside of the city so the distance is a problem but I also carry large and fragile projects and art materials. Biking in the harsh weather would terrify me.
- I live over 35 miles away, a bike is not an option.
- I live roughly 29 miles away, if you would like me to bike to campus I would need to leave my home at 4 am in the morning in order to make it to an 8 am class....
- I live to far
- I live to far away
- I live to far away
- I live to far away and also have a child to pick up from school
- I live to far away but even if I lived closer safety would be a very big concern.
- I live to far away from campus to bike.
- i live to far away to commute by bike
- I live to far away.
- I live to far away. However, even if I lived in the city, I would not bicycle. It is too dangerous, and the air is too polluted.
- I live to far to bike and I would like a faster mode of transportation.
- I live too far
- I live too far
- I live too far - and I walk to the regional train
- I live too far and have a physical problem that prevents me from riding a bike.
- I live too far and I don't know how to ride a bike
- I live too far and there is no safe route to bike to work.
- I live too far away
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- I live too far away
- I live too far away
- I live too far away - it would take too long to bike to campus.
- I live too far away & don't want to have to re-shower and do my hair when I get into work.
- I live too far away and already get up early enough to get to campus on time
- I live too far away and believe biking is too dangerous in Philadelphia.
- I live too far away and dont have time for the longer commute
- I live too far away and have children to pick up after work.
- I live too far away and my bike commute, unlike the train, would take me through dangerous areas of the city.
- I live too far away and take a bus and a train.
- I live too far away and they're a pain in the butt to take with you on a train
- I live too far away and typically come from work
- I live too far away and would not feel safe riding a bike along the routes I would need to use to make the commute.
- I live too far away for a bicycle to be a viable transportation option.
- I live too far away for biking
- I live too far away for biking to work
- I live too far away from campus
- I live too far away from campus to bike and it would take too long as well as be dangerous.
- I live too far away from campus to bike.
- I live too far away from campus, and from my regional train station to bike it.
- I live too far away from school and my backpack is heavy sometimes
- i live too far away to be able to bike, would have to bike on highways
- I live too far away to bike
- I live too far away to bike to campus.
- I live too far away to bike to school.
- I live too far away to bike to work.
- I live too far away to bike. Plus its dangerous to bike and difficult to biek to and from Temple with a backpack and other supplies on my person.
- I live too far away to ride a bike to campus
- I live too far away to ride the bike here
- I live too far away, work late, and am too old for biking to work (56)
- I live too far away.
- I live too far away.
- I live too far away.
- I live too far away.
- I live too far away.
- I live too far away.
- I live too far away.
- I live too far away; I have to drop my child off in the morning before I go to work
- I live too far away-biking would triple my commuting time, and there are not safe routes.
- I live too far from campus
- I live too far from campus for a bike to be feasible.
- I live too far from campus.
- I live too far to bike
- I live too far to bike to work.

- I live too far, riding in the street is dangerous, and SEPTA is very convenient (schedule, weather, etc)
- I live too far....
- I live very close to campus, so biking would be unnecessary
- I live way too far away
- I live way too far away to try to bike as a part of my commute to campus. It would not work out
- I live within walking distance of campus.
- I live too far away.
- I may not know how to ride a bike on the streets with traffic
- I ride in everyday with my wife. We do own bikes. If we did, it would be too far to travel through bad areas in Camden.
- I seldom come directly to work, or go directly home, seldom go directly home, carry books and items etc.
- I stay really far away and it is not possible to bike
- I support all bicycle initiatives, I live too far away to ever consider this option
- I take train which, if I'll ride here on bike then I will ride about 2 hours
- I use the subway
- I walk to school, pretty near, so I don't have much feeling about transportation
- I want to support others who cycle, but I'm too far from campus.
- I work shift work and commute to and from work between 10p and 1am. I do not feel it would be safe to take public or bike transportation along the extent of North Broad Street during those times.
- I would be biking through horrible neighborhoods at night to get home from Temple.
- I would bicycle, but I think the neighborhoods are still too dangerous north of Spring Garden; this is beyond the control of Temple University.
- I would have to commute from Germantown and ride through North Philadelphia. This is too much of a safety risk for me.
- I would like to bike, but it is impractical as I live far and my classes are in the evening usually 4-7 or 7-10pm. Its just not safe.
- I would like to keep my energy to work on my schoolwork when I get back home instead of biking for 40 min.
- I would not bike from my neighborhood to Temple under any circumstance
- I would not bike to campus
- I would not bike to work. I live too far, do not own a bike, have too many bags to carry, need access to a vehicle.
- I would not want to ride on the train with my bike, too much of a hassle.
- I would rather use public transportation
- I wouldn't feel safe biking the surrounding neighborhoods around Temple.
- I'd prefer to walk
- If I biked, I'd ride the PATCO line into Philly with it, then bike up to campus instead of taking the BSL, but I don't want to carry it on the PATCO or ride it to and from Temple at night.
- I'm 63 and no longer own a bike.
- I'm concerned with the neighborhood
- I'm legally blind. Not too safe.
- I'm not comfortable riding a bike in traffic with the heavy bookbag I usually carry, which includes my laptop
- I'm too far
- interstate travel
- It doesn't feel 100% safe yet for bicyclists and/or drivers, who have to share the road. Plus I would want to purchase inexpensive but good bike, and don't know where to look for them.
- It is actually cheaper and more reliable for me to drive
- It'll get stolen
- It's a question of traffic safety and of my age

- It's too dangerous to bike I would have to travel through a bad neighborhood from where I currently live to get to campus
- It's too dangerous and dirty to bike to Temple's main campus. I'd get shot or my suit covered in muck.
- I've heard too many stories about people getting their bikes/parts of their bikes stolen to be willing to bring my bike to campus.
- I've seen too many kids get hit by cars on bikes - so my fears are safety related.
- keeping a bike in the city means one more thing to worry about
- Kind of far. I don't like septa
- Laziness and sweat. Getting up earlier and not having a place to shower.
- live 35 miles away
- Live 53 miles from the HSC
- Live and work too far away
- live close enough that biking isn't necessary
- live far away
- live in NJ
- Live in NJ, too dangerous to bike and time is a concern due to being a working mom
- Live in northeast Philadelphia
- Live off-campus so I walk
- Live one block away
- Live pretty close
- Live to far
- Live to far
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- live to far away to ride a bike
- Live to far away.
- Live to far away.
- Live to far to ride a bike
- Live to far.
- live too close to invest in a bike
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- Live too far
- Live too far
- live too far and do not want to bike over a major bridge
- live too far and don't feel comfortable riding in the city
- live too far and family circumstances
- Live too far and have child
- Live too far and no bike path to Manayunk, Philadelphia or I would bike
- Live too far and ride to Temple would be unsafe
- Live too far away
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- Live too far away.
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- Live too far away.
- Live too far away.
- Live too far away. Not a safe commute for me via bicycle due to hours of commute and bridges/highways
- Live too far away. Regional rail convenient and gets me almost door-to-door.
- Live too far away/ have to cross Ben Franklin Bridge
- live too far away; but I would take regional rail or other public transport options if they reached my commute.
- Live too far to bike
- LIVE TOO FAR TO RIDE A BIKE TO CAMPUS
- Live too far, would have to bike on busy roads
- Live too far.
- Live too far.
- Live too far; don't own a bike; riding a bike with my book bag seems tiring; I often study on my commute and I wouldn't be able to do so on a bike
- live too far; requires me to go through a very unsafe area.
- Live way too far. It's take me over an hour by bus to get to campus
- Live yoo far, would have to go through dangerous neighborhoods
- More street safety or campus safety
- My bike route goes through areas of the city that I do not feel safe being alone in at night.
- My commute is definitely too far away, I live out in the county.
- My commute is too far and security/storage is a big question to make biking viable.
- My neighborhood isn't safe enough to ride a bike through
- my place is near with our main campus, also I don't have a bike, so...
- My residence is located on the other side of an area I would not feel safe biking through
- No bike
- no bike
- no interest in riding a bike anywhere but at the gym (where I don't worry about traffic or pedestrians)
- None -- altogether too unsafe.
- Not an option. I drive to class from work
- Not comfortable biking in the city.
- Not comfortable biking through the neighborhoods that surround the University.
- Not comfortable riding a bike in the city. Prefer public transit or walking.
- Not easy to use a bike in professional business attire, safety issues.
- Not fit enough; too old; too far
- Not good on a bike
- not in to biking
- Not prone to biking to work. Also transporting children to/from school as part of commute.
- Not taking risk of riding a bike. I'm not poor either.
- Off campus is close enough to walk
- often need to be on campus into the evening and do not feel route home is safe
- Only 8 miles but a straight shot down broad and I won't be riding bike on broad street
- Only if I lived closer. Too far to bike
- Public transportation and biking in the US is abysmal compared with Europe, where I grew up. You really need to change the entire city infrastructure, get rid of urban poverty and gun crime and engage in radical road engineering programs to hav
- Safety
- Safety
- Safety along route is an issue - would be coming from Fairmount
- safety issue around TASB location
- Safety issues

06/14/2016



- Safety of health sciences campus and surrounding neighborhood
- Safety. I do not feel safe biking in North Philly.
- skateboard
- The area that I live in is not very bike friendly
- The city is not safe for bikers at the hours I commute - worried about personal violence
- The regional rail takes me from home directly to campus, no need for a bike
- The SEPTA stops I use are very close to my destinations that biking would be redundant
- The subway is more convenient and safer for me
- there are A LOT of hills on the way from south philly to temple. If there was a route as beautiful as the Schuylkill river trail that I could use to get to campus that didn't have a lot of hills I would. I biked to campus once and never will again
- There are too many busy streets with reckless drivers in the city for me to bike this far. I would not feel safe riding a bike from South Philadelphia. It is also just a little too far away for me to want to ride a bike.
- there is no way I can bike from NJ to the campus, would take one hour
- Three young kids at home/need to get home ASAP in evenings
- To far away
- To old I want comfort
- Too close, walking is easier.
- too dangerous and sweaty
- too far
- too far
- Too far
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- Too far, bro
- too far
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- Too far
- too far a distance to travel
- Too far a drive
- Too far away
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- Too far away
- too far away and I recently had back surgery and I have some nerve damage.
- Too far away and roads are too dangerous to bike.
- Too far away for biking
- Too far away to bike
- too far away to bike to campus
- Too far away to bike, and difficult to bring a bike on public transportation. Neighborhood does not seem safe enough to lock up a bike.
- too far away, bring too many items, weather would discourage me
- Too far from campus
- Too far from my campus
- too far to bike, too old to bike
- Too far to ride a bike.
- Too far to safely commute by bike.
- too far unsafe roadway from my home to get to temple
- Too far, bro

06/14/2016

- too far, don't feel comfortable riding in the city
- Too far, don't have a bike
- Too far, not possible.
- too far, weather often doesn't permit, professional clothing does not permit
- Too far.
- too far; not a safe way to travel to and from campus
- Too long a distance
- Too much time required, too much to carry, would need a shower (too much time), unsafe neighborhoods
- too much to carry
- Too old at this point in life.
- Too old to bike
- Too old! Not safe.
- Too time consuming -- I travel to campus evenings from work, and then from campus home
- Travel through North Philadelphia is challenging; often carrying too much extra so regional rail best for me.
- traveling on bike from Northwest Philly (Chestnut Hill) to North Philly (Temple) is not safe nor likely in any situation for me
- Unable to ride bike.
- Unfortunately, I live too far away to bike.
- When I leave campus, I go to another job. Biking really isn't an option.
- Will not ride bike
- Wind, uncomfortable seat, inconvenient
- Would have to travel on too busy of streets and don't own a bike.
- wouldn't ride bike in a city

## Appendix 6. Other Motivations for Using Indego (Q19)

- |  |   |
|--|---|
| • A way for my friends to bike with me   | • N/A   |
| • All the above  | • N/A   |
| • Allowed to be a tourist in a city  | • n/a   |
| • Available to drop off bike   | • n/a   |
| • Bike Stolen  | • N/A   |
| • convenience  | • n/a   |
| • convenient   | • n/a   |
| • Convienant   | • N/A   |
| • Convinient   | • N/A   |
| • Cool   | • N/A   |
| • couldnt unclick  | • N/A   |
| • did not mean to click this   | • na  |
| • easier to get to our event   | • Na  |
| • Easily accessible  | • NA  |
| • Enjoyable Weather  | • Need place for backpack                           |
| • Free Trial   | • New experience                                    |
| • Friends invited me   | • no  |
| • Fun  | • None  |
| • fun  | • none  |
| • fun  | • none  |
| • Fun  | • none  |
| • I used it once to try it out and was dissatisfied because of the lack of improvements with bike lanes and lack of safety concern, such as providing access to helmets. | • none  |
| • it's fun   | • None  |
| • Just for fun   | • none  |
| • Just for fun   | • None  |
| • Just to try it once.   | • nothing   |
| • just to try it out   | • nothing   |
| • Just wanted to try it out  | • nothing   |
| • lack of helmets  | • Other   |
| • Looking cool   | • parking   |
| • My bike was stolen   | • public trans wasn't operating                     |
| • My friend wanted to use it   | • Recreation  |
| • n/a  | • recreation  |
| • n/a  | • safety, if the timing is late I use Uber or Lyft. |
| • n/a  | • Showing friends around                            |
| • n/a  | • there was a \$1 promotional offer                 |
| • n/a  | • To far  |
| • N/A  | • to try it   |
| • n/a  | • To try it for the first time                      |

- Wanted to try it
- Was in a rush
- when others do not have a bike, and I do. we can ride together
- You can lock up a bike and forget about it meaning I don't have to go back and get it if my plans change.
-