

SJSU Transportation Solutions Fall 2016 Student Commute Survey Report

1 Survey

Transportation Solutions (TS) completed its sixteenth annual survey administered at the end of fall semester. This was TS's fourteenth online survey and it was administered by SurveyMonkey.

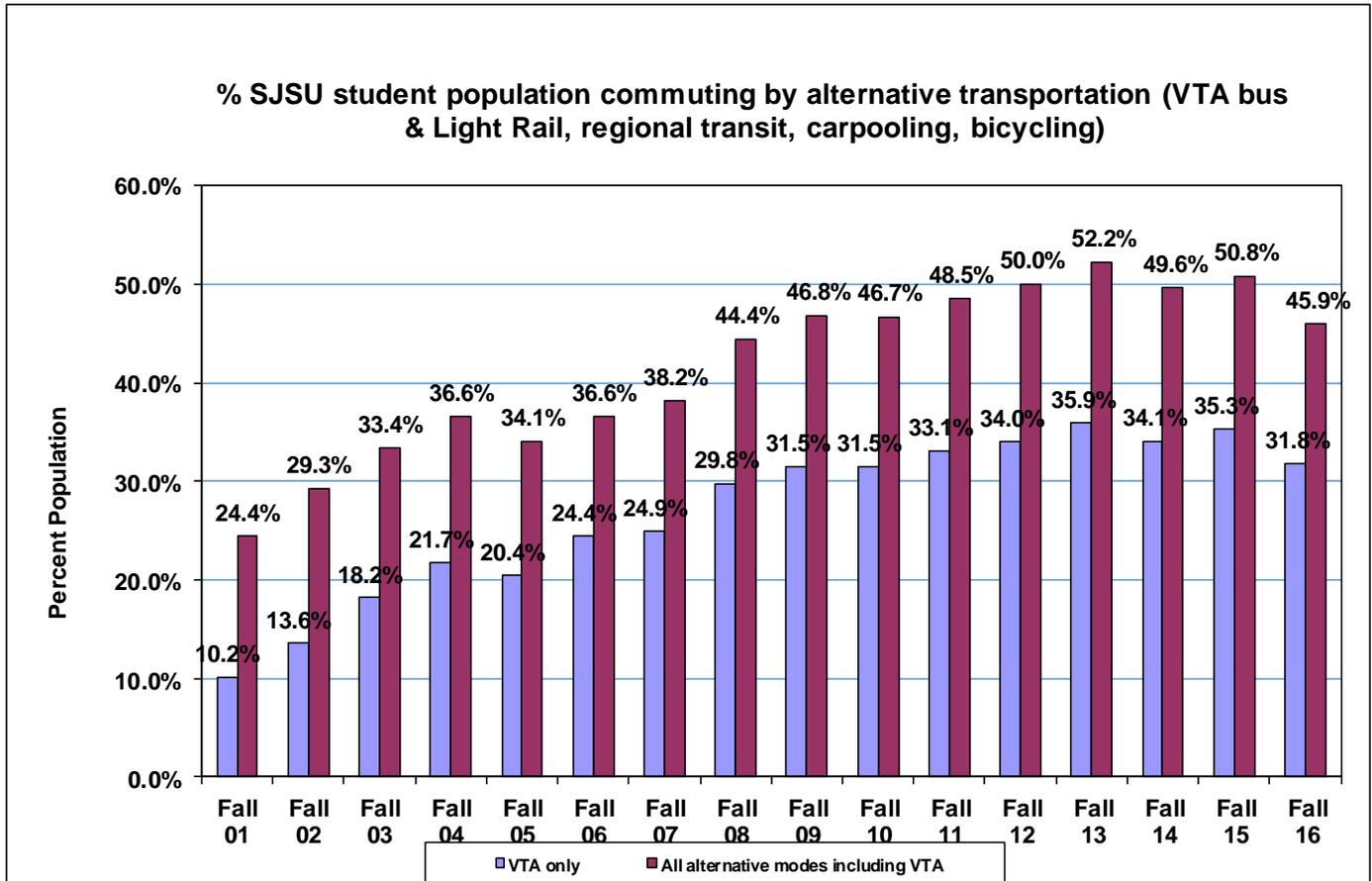
The survey was carried out from November 1st through 15th. The survey's link was sent to 33,667 students (Regular enrollment, Open University, Special Sessions, etc.); 4,974 participated at a response rate of 14.8%.

The survey instrument was the same as previous years and as before, the results has proved the TS effectiveness in reducing reliance on single occupant vehicles and meeting the modal shift targets.

1.1 Analysis

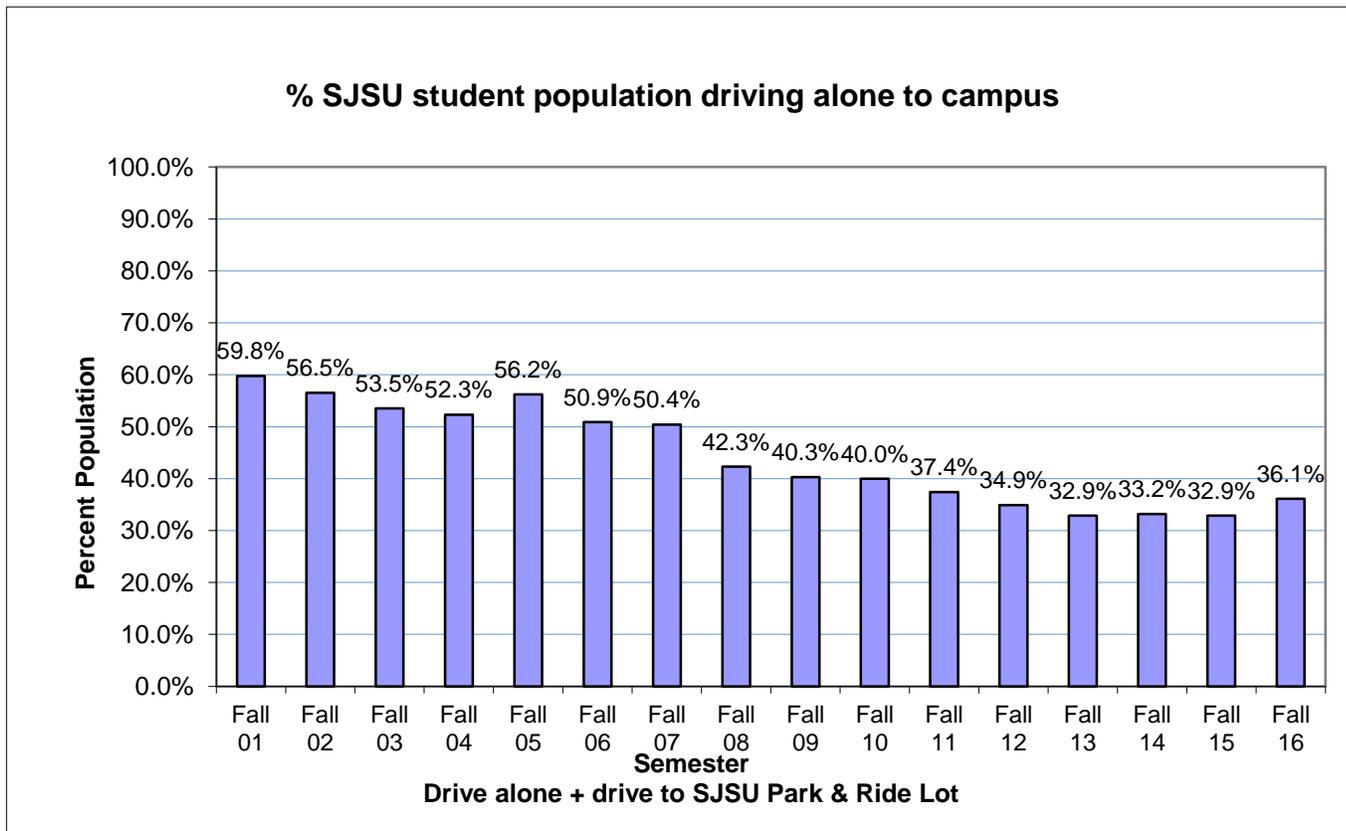
This survey produced consistencies in all response ratios compared with the previous years' results. However, due to opening of a new campus housing complex, there was a 1.9% (over 600) increase in walking rate which has generated a shift in the modal split in 2016. The overall alternative transportation usage was at 45.9%. Extrapolated over the population of 33,667, the total alternative transportation users were estimated at 15,466. The Santa Clara Valley Transportation Authority (VTA) ridership to campus was at 31.8% or 10,701 riders in 2016. The rate for walk/skateboard/scooter was at 17.3% (5,828).

SJSU alternative transportation usage trends

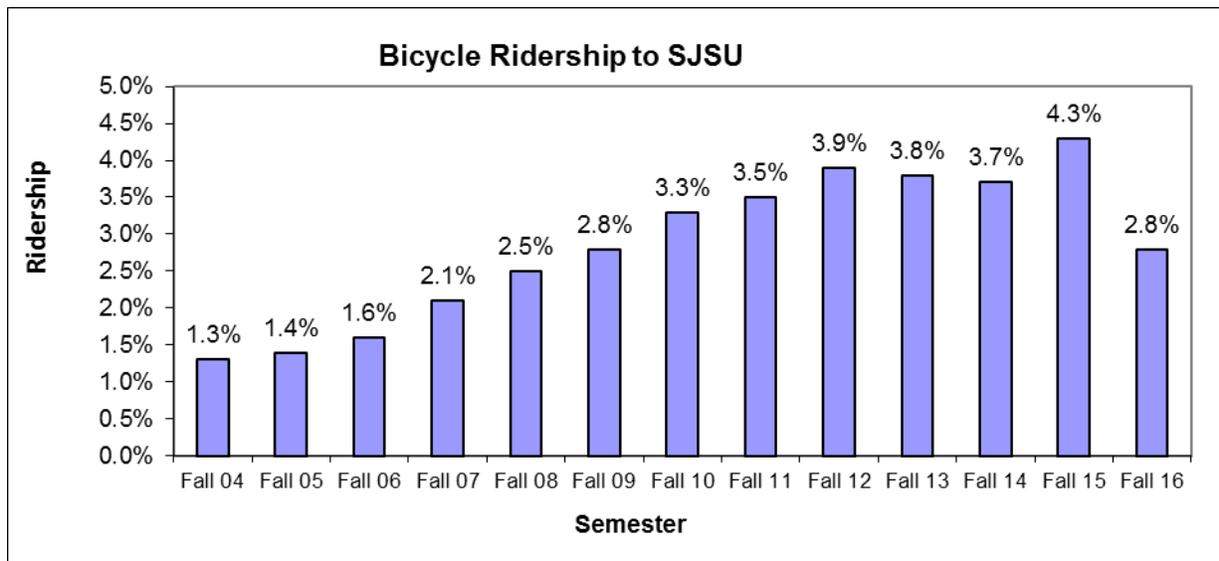


(Regional transit include: Caltrain, BART, Highway 17 Express, Altamont Commuter Express (ACE) train, Amtrak Capitol Corridor and Monterey-Salinas Transit).

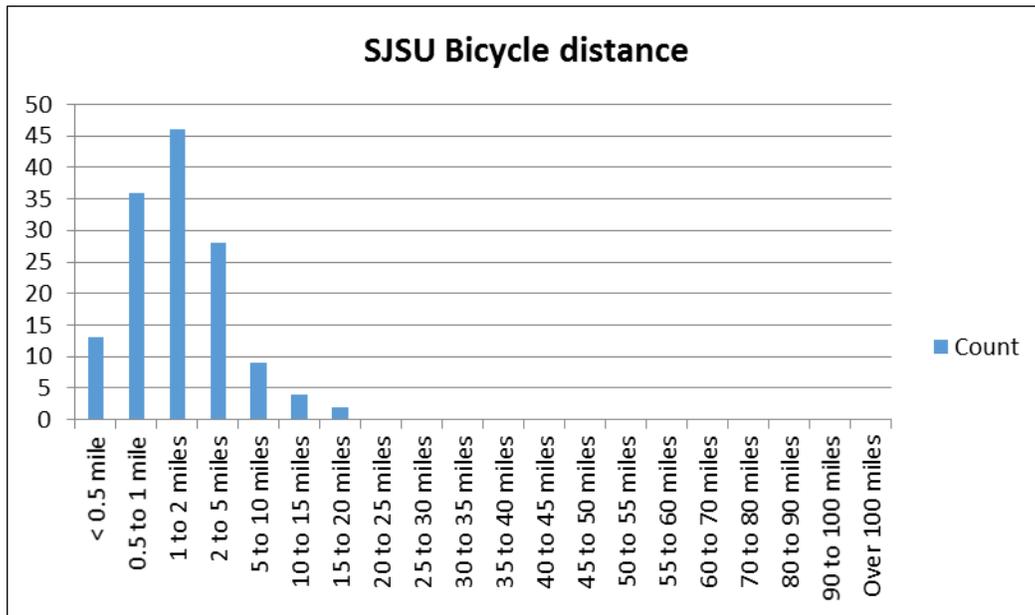
The total transit users including VTA (31.79%) and regional transit (5.21%) made up 37.00% or 12,454 riders. The solo-driving to campus increased 3.22% from 32.89% in 2015 to 36.11% in 2016. The chart below shows the history of drive-alone rate to campus among SJSU students since fall 2001.



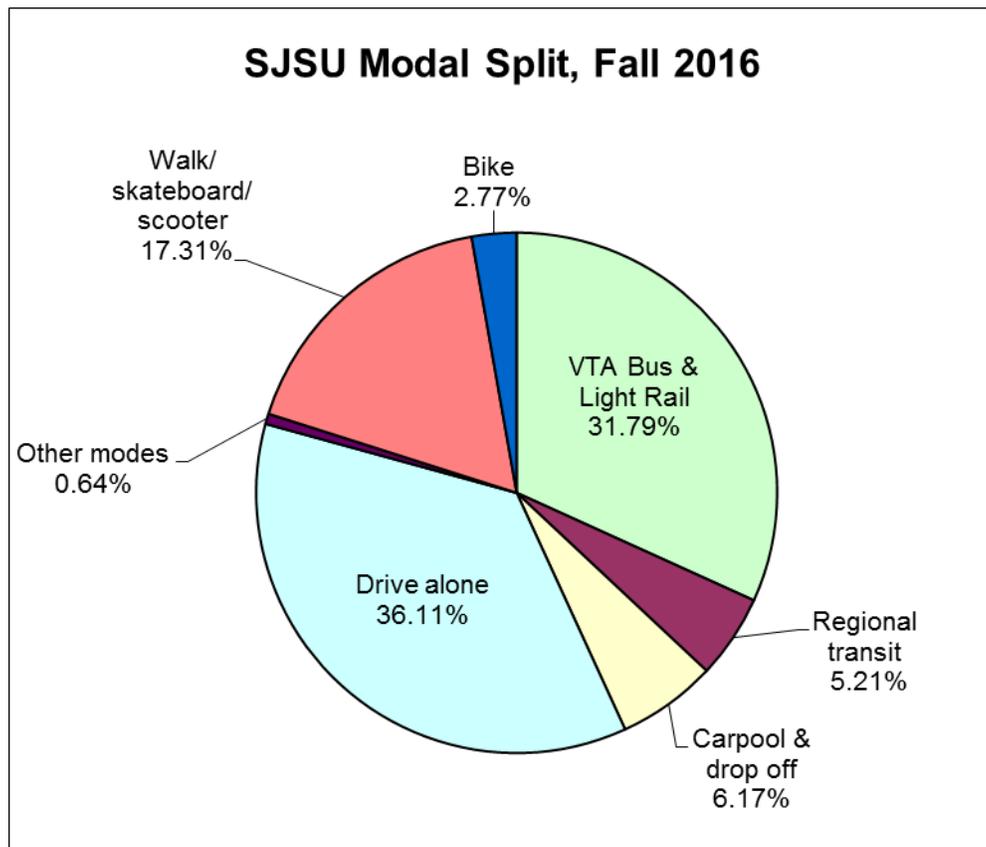
In 2016, 2.77% of the population or about 934 biked to campus. The following chart shows the history of bike ridership to campus.



The average biking distance to SJSU was 2.5 miles (Q5xQ9).



The following chart shows the latest modal split at SJSU:



Other significant findings are as follows:

- a) Average frequency of travel to/from campus was 4.05 days per week, from the results of Question 4
- b) Average one-way trip distance (home to campus) was 13.0 miles, from the results of Question 9. Average time of commute was 31.4 minutes (Question 10). The following tables list the average one-way trip distance for each type of commute mode (Q5xQ9).

Transportation Mode	Average one-way distance (mile)
ACE	45.3
Amtrak Capitol Corridor	33.4
BART	34.5
Bicycle	2.5
Bus (VTA)	9.8
Light Rail (VTA)	11.0
Caltrain	35.5
Carpool	17.0
Drop off	10.7
Hwy 17 Express	38.6
Monterey-Salinas Transit Bus 55	65.0

- c) Average Drive-alone and Drive to Park & Ride distances are as follows:

Transportation Mode	Average one-way distance (mile)
Drive-alone	17.9
Drive to Park & Ride	16.3

- d) Average walking, skateboard/scooter distance:

Transportation Mode	Average one-way distance (mile)
Walk	0.9
Skateboard/scooter	0.8

- e) Other

Transportation Mode	Average one-way distance (mile)
Motorcycle	16.5
Outreach	10.6

- f) The overall average frequency of travel using alternative transportation was 3.7 days/week or estimated 157 days/year. The following table shows the average alternative transportation days per week and per year (Estimated 42 weeks) by mode (Q5xQ4).

Transportation Mode	Average Commute Days per Week	Average Days per Year
ACE	4.2	176
Amtrak Capitol Corridor	5.0	210
BART	3.8	160
Bicycle	4.5	189
Bus (VTA)	4.2	176
Light Rail (VTA)	3.9	164
Caltrain	3.4	143
Carpool	3.6	151
Drop off	4.0	168
Hwy 17 Express	3.5	147
Monterey-Salinas Transit (Bus 55)	4.0	168
Average	4.0	168

- g) Average Drive-alone and Drive to Park & Ride days are as follows:

Drive-alone	3.6	151
Drive to Park & Ride	3.8	160
Average	3.7	155

- h) Average walking, skateboard/scooter days:

Walk	5.0	210
Skateboard/Scooter	4.9	206

- i) Other

Motorcycle	4.2	176
Outreach (VTA)	4.1	172

- j) Mode of travel when not using transit: The responses from Question 5 provide the percentages for all the commute modes. Based on the 33,667 enrollment, the numbers for non-transit commuters are extrapolated:

- Drive-alone plus Drive to Park & Ride was 36.1% or 12160,
- Carpool & drop off 6.2% or 2,074,
- Bike 2.8% or 935,
- Walk/skateboard/scooter 17.3% or 5,822
- Other modes 0.6% or 217

- k) Mode of travel prior to use of Transportation Solutions services - The results of questions 17 and 18, mode of transportation before and after using TS services show:

Q17 & Q18	Before	After	Net Change (After - Before)
A. Bicycle	3.5%	3.3%	-0.2%
B. Carpool	3.0%	2.3%	-0.7%
C. I get dropped off	15.3%	4.1%	-11.2%
D. Drive alone (including to SJSU Park & Ride and motorcycle)	20.3%	14.2%	-6.1%
E. VTA bus/light rail	30.8%	52.3%	+21.5%
F. Regional train/bus (including Caltrain, Hwy 17 Express, ACE, Amtrak)	3.5%	4.8%	1.3%
G. I live on/near campus so I walk/skateboard/scooter	23.6%	19.0%	-4.6%

- l) Net reduction in vehicle trips to campus (based upon prior travel mode):
 The TS effectiveness in reducing drive-alone rate in 2016 was 6.1%.
 Population 33,667 x 6.1% decrease in drive-alone = 2,054 cars x 2 trips/day = 4,108 trips/day
- m) 22.7% (3,303) of the alternative transportation users drove-alone to an initial transit stop or carpool pick up site (Question 11). Calculations: 22.7% x {Total transit riders (37.0%) + Total carpoolers (6.2%)} x 33,667 = 3,303
- n) The average one-way distance to initial transit stop or carpool site (Q11xQ12):

Partial trips to transit or carpool stop	Partial trip, average one-way distance (mile)
A. Walk/skateboard/roller blade/scooter	0.5
B. Bicycle	1.3
C. Bus/light rail/train/ferry	2.5
D. Carpool	1.6
E. Drop off	2.4
F. Drive alone	3.5
G. Motorcycle	0

Also other important results include:

- 48.9% of the new students use alternative transportation in their commute to campus (Q2xQ5). VTA ridership among new students was at 35.1%.
- 27.7% of the commuters who always have access to a car and 74.9% of the people who sometimes have access to a car choose to take alternative transportation to campus (Q3xQ5). VTA ridership among always have access to a car was 17.7%, and among sometimes have access to car was 49.0%.

The following table provides the detailed results and analysis of the findings for each survey question.

1.2 SurveyMonkey Results

San Jose State University Transportation Survey, Fall 2016

Response Status: 4,974 Completes

Filter: No filter applied

November 1 - 15, 2016

Total population 33,667

1. Enter contact information for prize notification:	Count	Fall 16	Fall 15	Fall 14	Fall 13	Fall 12
First & last name	4,895	99.9%	99.9%	99.9%	99.9%	99.9%
Email address	4,882	99.7%	99.6%	99.6%	99.8%	99.9%
Answered question	4,899					
Skipped question	68					

2. Is this your first semester at SJSU?	Count	Fall 16	Fall 15	Fall 14	Fall 13	Fall 12	Fall 11	Fall 10	Fall 09	Fall 08	Fall 07	Fall 06	Fall 05
Yes	1,729	34.8%	33.2%	36.2%	42.2%	40.3%	40.0%	35.4%	30.1%	31.7%	37.6%	33.8%	36.4%
No	3,238	65.2%	66.8%	63.8%	57.8%	59.7%	60.0%	64.6%	69.9%	68.3%	62.4%	66.2%	63.6%
Total	4,967	100.0%											
Skipped question	0												

3. Do you have a car available for getting to San Jose State University (SJSU)?	Count	Fall 16	Fall 15	Fall 14	Fall 13	Fall 12	Fall 11	Fall 10	Fall 09	Fall 08	Fall 07	Fall 06	Fall 05
A. Always	2,753	55.4%	54.4%	56.4%	56.4%	59.6%	61.7%	64.8%	67.0%	71.9%	74.9%	76.3%	79.7%
B. Sometimes	886	17.8%	19.5%	18.3%	18.0%	18.7%	17.0%	16.2%	16.0%	12.9%	12.4%	11.7%	10.9%
C. Never	1,328	26.7%	26.1%	25.3%	25.6%	21.7%	21.2%	18.9%	17.0%	15.2%	12.7%	11.9%	9.4%
Total	4,967	100.0%											
Skipped question	0												

4. In a typical week, how many days do you come to SJSU?	Count	Fall 16	Fall 15	Fall 14	Fall 13	Fall 12	Fall 11	Fall 10	Fall 09	Fall 08	Fall 07	Fall 06	Fall 05
A. One day a week	164	3.3%	3.7%	4.5%	3.0%	3.4%	4.7%	4.9%	4.8%	5.3%	5.8%	7.3%	6.5%
B. Two days a week	671	13.5%	13.6%	14.2%	14.1%	15.5%	15.5%	17.9%	17.4%	19.4%	18.3%	18.8%	19.2%
C. Three days a week	637	12.8%	12.1%	11.5%	12.6%	12.0%	11.3%	13.4%	14.3%	14.0%	14.1%	14.2%	13.7%
D. Four days a week	1,703	34.3%	38.1%	37.7%	37.9%	39.3%	37.7%	39.0%	36.9%	33.7%	35.3%	33.4%	33.6%
E. Five days a week	1,213	24.4%	22.2%	20.6%	22.9%	20.0%	21.1%	18.4%	18.8%	19.4%	19.1%	18.6%	20.3%
F. Six days a week	230	4.6%	4.2%	4.3%	3.6%	2.8%	3.3%	2.3%	2.6%	2.8%	2.7%	2.8%	2.2%
G. Seven days a week	349	7.0%	6.2%	7.3%	5.9%	7.0%	6.5%	4.0%	5.2%	5.4%	4.7%	4.8%	4.5%
Total	4,967	100.0%											
Skipped question	0												

Average frequency of travel to campus	Days/week	Fall 15	Fall 14	Fall 13	Fall 12	Fall 11	Fall 10	Fall 09	Fall 08	Fall 07	Fall 06	Fall 05
	4.05	3.99	3.98	3.98	3.94	3.91	3.71	3.76	3.72	3.71	3.65	3.66

5. In a typical week, which transportation mode do you mostly use to come to SJSU? (Mark only one mode you use in the longest part of your trip to campus)	Count	Fall 16	Fall 15	Fall 14	Fall 13	Fall 12	Fall 11	Fall 10	Fall 09	Fall 08	Fall 07	Fall 06	Fall 05
A. ACE train	42	0.8%	0.9%	1.0%	0.7%	0.5%	0.6%	0.5%	0.5%	0.4%	0.1%	0.2%	0.2%
B. Amtrak Capitol Corridor/Thruway Bus	6	0.1%	0.1%	0.3%	0.2%	0.0%	0.1%	0.1%	0.2%	0.2%	0.1%	0.1%	0.1%
C. BART + connecting mode (e.g. VTA Bus 181)	91	1.8%	1.6%	1.7%	1.8%	1.6%	1.4%	1.2%	1.1%	1.1%	0.7%	0.8%	0.7%
D. Bicycle	138	2.8%	4.3%	3.7%	3.8%	3.9%	3.5%	3.3%	2.8%	2.5%	2.1%	1.6%	1.4%
E. Bus (VTA)	982	19.8%	21.2%	19.6%	20.0%	18.5%	17.1%	16.5%	16.8%	13.8%	11.1%	10.2%	9.2%
F. Light Rail (VTA)	597	12.0%	14.1%	14.5%	15.9%	15.5%	16.0%	15.0%	14.7%	16.0%	13.8%	13.4%	10.5%
G. Caltrain	74	1.5%	2.0%	1.5%	1.8%	2.0%	1.6%	1.5%	2.2%	2.4%	2.2%	2.5%	1.9%
H. Carpool	143	2.9%	3.0%	3.5%	3.6%	3.1%	3.4%	3.7%	4.1%	4.0%	4.4%	4.0%	5.1%
I. I get dropped off	163	3.3%	2.7%	2.6%	3.0%	3.7%	3.7%	3.7%	3.2%	2.5%	2.4%	2.5%	2.7%
J. Drive alone	1,636	32.9%	30.2%	31.2%	29.7%	32.0%	34.7%	37.7%	36.6%	38.4%	46.2%	47.3%	52.0%
K. Drive to Park & Ride Lot and take SJSU Shuttle	158	3.2%	2.7%	2.0%	3.2%	2.9%	2.8%	2.3%	3.6%	3.9%	4.2%	3.6%	4.2%
L. Highway 17 Express bus	45	0.9%	0.8%	1.1%	1.3%	1.2%	1.0%	1.0%	1.1%	1.6%	1.3%	1.3%	1.5%
M. Monterey-Salinas Transit bus line 55	1	0.0%	0.0%	0.1%	0.0%	0.0%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	
N. Motorcycle	23	0.5%	0.7%	0.6%	0.4%	0.5%	0.5%	0.6%	0.6%	0.7%	0.6%	0.7%	0.6%
O. Outreach (VTA)	9	0.2%	0.3%	0.4%	0.4%	0.2%	0.3%	0.2%	0.2%	0.2%	0.0%	0.2%	0.2%
P. Skateboard/scooter	69	1.4%	1.4%	1.2%	1.1%	1.1%	0.6%	0.5%	0.5%	0.5%	0.4%	0.2%	0.0%
Q. Walk, (live on/near campus)	790	15.9%	14.0%	14.9%	13.2%	13.3%	12.6%	12.0%	11.6%	12.0%	10.4%	11.3%	9.6%
Total	4,967	100.0%											
Skipped question	0												

6. If you selected VTA Bus in Question 5, please pick the Bus route you mostly use. If not, go to the next Question.	Count	Fall 16	Fall 15	Fall 14	Fall 13	Fall 12	Fall 11	Fall 10	Fall 09	Fall 08	Fall 07	Fall 06	Fall 05
11	0	0.0%	0.0%	0.0%	0.5%	0.8%	0.3%	0.4%	0.1%				
22	161	13.2%	12.1%	13.2%	13.0%	12.8%	11.5%	11.1%	9.5%	10.0%	13.4%	14.1%	12.7%
23	91	7.5%	7.6%	10.2%	9.1%	8.4%	10.5%	12.8%	10.4%	11.5%	9.4%	9.2%	9.5%
63	38	3.1%	2.3%	2.5%	2.3%	2.4%	2.8%	2.7%	2.1%	3.7%	3.3%	2.5%	2.6%
64	77	6.3%	7.7%	7.1%	8.9%	7.8%	8.0%	8.7%	6.8%	9.4%	1.9%	1.9%	3.4%
65	26	2.1%	2.5%	2.2%	1.9%	1.2%	0.7%	0.9%	0.7%	0.6%	3.1%	3.4%	4.4%
66	77	6.3%	7.1%	6.5%	5.4%	7.4%	5.9%	8.4%	7.9%	7.2%	2.9%	3.8%	4.4%
68	29	2.4%	3.4%	1.4%	3.4%	2.8%	2.7%	3.1%	1.5%	1.5%	2.6%	1.9%	3.0%
72	160	13.1%	11.3%	10.8%	9.4%	7.8%	9.7%	7.0%	7.0%	6.0%	5.8%	4.8%	5.6%
73	75	6.2%	8.1%	6.6%	6.8%	6.1%	8.6%	7.8%	9.9%	8.5%	8.0%	5.3%	4.8%
81	27	2.2%	3.0%	3.1%	2.4%	2.4%	3.7%	3.8%	4.8%	4.2%	8.4%	9.4%	10.1%
82	15	1.2%	1.0%	1.4%	0.8%	1.8%	0.9%	1.0%	1.0%	0.6%	1.0%	1.7%	2.2%
168	13	1.1%	1.7%	2.4%	2.6%	1.8%	2.4%	1.3%	3.1%	2.8%			
180	0	0.0%	0.0%	0.0%	0.1%	0.1%	0.8%	0.7%	8.2%	18.5%	19.1%	17.5%	
181	232	19.0%	17.1%	17.7%	19.0%	17.2%	17.3%	13.4%	13.1%	6.4%			
304	1	0.1%	0.0%	0.0%	0.2%	0.1%	0.1%	0.0%	0.4%	0.1%	0.2%	0.2%	0.2%
323	32	2.6%	3.8%	3.6%	1.6%	2.8%	0.0%						
522	122	10.0%	9.5%	8.3%	11.5%	14.2%	11.8%	14.7%	17.6%	15.6%	17.3%	17.9%	16.1%
DASH	42	3.4%	1.9%	2.9%	1.7%	2.4%	2.5%	2.3%	3.2%	3.3%	2.7%	1.7%	2.0%
Total	1,218	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Skipped question	3,749												

7. Your trip to SJSU normally starts from:	Count	Fall 16	Fall 15	Fall 14	Fall 13	Fall 12	Fall 11	Fall 10	Fall 09	Fall 08	Fall 07	Fall 06	Fall 05
A. Home/dorm/current residence/friend or relative's house	4,539	91.4%	91.5%	91.4%	91.8%	90.5%	90.2%	88.7%	88.5%	87.0%	86.9%	86.3%	85.4%
B. Work	331	6.7%	6.5%	6.6%	6.2%	7.0%	7.8%	8.9%	9.2%	11.0%	11.2%	12.3%	13.0%
C. Other location	97	2.0%	2.0%	2.1%	2.0%	2.5%	2.0%	2.4%	2.3%	2.0%	1.9%	1.5%	1.7%
Total	4,967	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Skipped question	0												

8. Where do you go after leaving the University?	Count	Fall 16	Fall 15	Fall 14	Fall 13	Fall 12	Fall 11	Fall 10	Fall 09	Fall 08	Fall 07	Fall 06	Fall 05
A. Home/dorm/current residence/friend or relative's house	4,240	85.4%	85.9%	86.6%	87.5%	86.1%	86.8%	87.0%	87.6%	85.9%	83.1%	83.6%	82.7%
B. Work	594	12.0%	10.9%	11.1%	9.4%	10.2%	10.1%	9.9%	9.1%	11.3%	13.9%	13.2%	14.2%
C. Other location	133	2.7%	3.2%	2.3%	3.1%	3.7%	3.1%	3.1%	3.3%	2.9%	2.9%	3.1%	3.2%
Total	4,967	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Skipped question	0												

9. How far is your daily one-way trip to SJSU?	Count	Fall 16	Fall 15	Fall 14	Fall 13	Fall 12	Fall 11	Fall 10	Fall 09	Fall 08	Fall 07	Fall 06	Fall 05
less than 0.5 mile	633	12.7%	10.8%	12.7%	11.7%	12.1%	11.0%	9.4%	9.4%	9.5%	8.7%	9.6%	7.4%
0.5 to 1 mile	342	6.9%	7.1%	6.1%	6.0%	4.6%	4.9%	5.2%	4.3%	4.5%	3.6%	4.1%	2.7%
1 to 2 miles	355	7.1%	7.8%	6.9%	4.5%	4.4%	4.4%	4.3%	4.6%	4.4%	3.5%	2.5%	2.7%
2 to 5 miles	616	12.4%	11.9%	11.9%	11.9%	10.9%	10.9%	10.8%	10.0%	9.8%	8.7%	9.0%	8.5%
5 to 10 miles	1062	21.4%	22.2%	21.6%	22.6%	21.8%	24.1%	21.7%	23.0%	22.8%	24.2%	21.6%	22.8%
10 to 15 miles	570	11.5%	13.4%	14.2%	14.9%	16.7%	15.6%	17.7%	16.5%	16.8%	17.0%	18.1%	18.4%
15 to 20 miles	322	6.5%	6.4%	5.7%	7.1%	6.7%	7.8%	8.3%	7.7%	8.1%	9.0%	8.8%	9.3%
20 to 25 miles	252	5.1%	5.0%	4.3%	4.5%	4.5%	4.7%	4.7%	5.4%	5.4%	5.9%	6.2%	6.0%
25 to 30 miles	183	3.7%	3.5%	3.8%	3.8%	4.2%	3.7%	4.0%	4.8%	4.1%	4.5%	4.5%	4.9%
30 to 35 miles	152	3.1%	2.9%	3.4%	3.4%	3.4%	3.4%	3.6%	3.7%	3.8%	3.9%	4.0%	4.4%
35 to 40 miles	122	2.5%	2.1%	2.1%	2.5%	3.0%	2.3%	2.4%	2.8%	3.5%	3.1%	2.8%	3.2%
40 to 45 miles	72	1.4%	1.4%	1.4%	1.4%	1.7%	1.4%	1.9%	2.2%	1.6%	1.7%	2.0%	2.1%
45 to 50 miles	80	1.6%	1.4%	1.5%	1.5%	1.7%	1.4%	1.8%	1.5%	1.7%	1.7%	1.8%	2.1%
50 to 55 miles	71	1.4%	1.1%	1.4%	1.2%	1.5%	1.4%	1.2%	1.1%	1.4%	1.4%	1.6%	1.6%
55 to 60 miles	42	0.8%	1.0%	0.9%	0.9%	1.0%	1.1%	1.1%	0.9%	0.8%	0.9%	1.4%	1.3%
60 to 70 miles	33	0.7%	0.7%	0.7%	0.8%	1.0%	1.2%	0.6%	1.0%	0.9%	1.1%	0.9%	1.0%
70 to 80 miles	23	0.5%	0.3%	0.6%	0.6%	0.3%	0.4%	0.6%	0.5%	0.2%	0.5%	0.4%	0.6%
80 to 90 miles	15	0.3%	0.3%	0.3%	0.1%	0.2%	0.1%	0.1%	0.1%	0.2%	0.2%	0.2%	0.3%
90 to 100 miles	10	0.2%	0.2%	0.6%	0.4%	0.3%	0.3%	0.4%	0.4%	0.4%	0.2%	0.5%	0.8%
Over 100 miles	12	0.2%	0.4%										
Total	4,967	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Skipped question	0												
Average one-way trip distance	13.0 Miles		13.2	13.4	14.0	13.7	14.4	14.7	14.6	15.3	15.7	16.8	

10. How long is your daily one-way trip to campus?	Count	Fall 16	Fall 15	Fall 14	Fall 13	Fall 12	Fall 11	Fall 10	Fall 09	Fall 08	Fall 07	Fall 06	Fall 05
less than 5 minutes	480	9.7%	8.1%	10.0%	8.4%	9.5%	9.1%	7.9%	7.8%	7.3%	7.2%	8.1%	7.2%
5 to 10 minutes	480	9.7%	9.6%	9.6%	9.1%	9.3%	9.3%	9.2%	9.3%	8.9%	7.8%	8.1%	7.8%
10 to 15 minutes	644	13.0%	13.4%	12.7%	13.2%	12.2%	13.1%	14.6%	13.9%	14.4%	13.0%	13.1%	13.8%
15 to 20 minutes	746	15.0%	15.2%	15.2%	14.7%	14.5%	15.8%	16.9%	16.2%	16.1%	17.3%	15.8%	18.5%
20 to 30 minutes	751	15.1%	16.7%	15.8%	17.0%	17.2%	17.1%	15.8%	17.2%	17.0%	18.5%	18.2%	17.7%
30 to 40 minutes	599	12.1%	10.8%	10.8%	11.5%	11.3%	11.7%	11.7%	11.2%	11.5%	12.2%	11.8%	11.8%
40 to 50 minutes	349	7.0%	9.0%	8.0%	8.6%	8.8%	8.1%	8.5%	9.1%	8.8%	7.9%	8.4%	9.0%
50 to 60 minutes	264	5.3%	4.9%	5.6%	5.5%	6.0%	5.8%	5.3%	5.8%	5.8%	6.0%	5.9%	5.1%
1 hr. to 1 hr. 15 mins.	232	4.7%	4.9%	5.1%	5.4%	4.8%	4.4%	4.5%	4.0%	5.1%	4.3%	4.9%	4.3%
1 hr. 15 mins. to 1 hr. 30 mins.	196	3.9%	3.0%	3.0%	2.7%	2.6%	2.5%	2.4%	2.4%	2.2%	2.4%	2.3%	2.0%
1 hr. 30 mins. to 1 hr. 45 mins.	94	1.9%	1.5%	1.5%	1.2%	1.5%	1.0%	1.1%	1.1%	1.1%	1.4%	1.2%	1.2%
1 hr. 45 mins. to 2 hrs.	59	1.2%	1.2%	1.1%	1.3%	0.9%	1.0%	0.8%	0.7%	0.6%	0.8%	0.9%	0.6%
2 hrs. to 2 hr. 30 mins.	37	0.7%	0.9%	0.8%	0.8%	0.8%	0.6%	0.6%	0.5%	0.5%	0.5%	0.5%	0.5%
2 hrs. 30 mins. to 3 hrs.	18	0.4%	0.4%	0.4%	0.3%	0.3%	0.1%	0.3%	0.4%	0.3%	0.3%	0.2%	0.3%
over 3 hrs.	18	0.4%	0.5%	0.4%	0.5%	0.3%	0.3%	0.4%	0.3%	0.4%	0.4%	0.5%	0.3%
Total	4,967	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Skipped question	0												
Average trip time	31.4 Minutes			31	31	31	29	30	30	30	30	29	29

11. If you come to the University by carpooling, bus or train (in Question 5), how do you get to your bus stop, train station or carpool location? If not, skip to Question 13.	Count	Fall 16	Fall 15	Fall 14	Fall 13	Fall 12	Fall 11	Fall 10	Fall 09	Fall 08	Fall 07	Fall 06	Fall 05
A. Walk/skateboard/roller blade/scooter	1094	55.3%	57.7%	50.4%	52.2%	44.3%	47.2%	44.1%	43.9%	43.1%	39.1%	39.8%	36.9%
B. Bicycle	69	3.5%	3.3%	5.1%	3.8%	5.4%	4.6%	4.7%	5.0%	4.7%	4.5%	3.4%	3.4%
C. Bus/light rail/train/ferry	116	5.9%	5.6%	5.3%	5.2%	5.6%	5.9%	5.7%	6.3%	5.3%	6.7%	6.3%	6.2%
D. Carpool	67	3.4%	3.5%	5.5%	4.9%	4.9%	4.3%	5.6%	5.3%	5.9%	8.5%	5.8%	6.6%
E. I get dropped off	184	9.3%	8.6%	8.6%	9.9%	10.8%	9.9%	9.5%	9.0%	6.8%	7.1%	7.0%	9.1%
F. Drive alone	450	22.7%	21.2%	25.0%	23.9%	28.8%	27.9%	30.5%	30.2%	34.1%	34.0%	37.5%	37.6%
G. Motorcycle	0	0.0%	0.0%	0.2%	0.1%	0.1%	0.2%	0.0%	0.3%	0.1%	0.1%	0.2%	0.3%
Total	1,980	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Skipped question	2,987												

12. How far do you travel to this bus stop, train station or carpool pick-up location (miles)?	Count	Fall 16	Fall 15	Fall 14	Fall 13	Fall 12	Fall 11	Fall 10	Fall 09	Fall 08	Fall 07	Fall 06	Fall 05
0 to 0.25 mile	647	31.7%	30.9%	30.8%	31.5%	30.0%	32.3%	33.1%	32.8%	31.0%	29.6%	30.6%	32.0%
0.25 to 0.5 mile	355	17.4%	18.8%	18.0%	17.5%	15.3%	17.2%	15.2%	14.9%	14.0%	15.3%	14.0%	14.9%
0.5 to 0.75 mile	180	8.8%	8.5%	9.0%	8.5%	9.6%	7.7%	7.6%	7.2%	6.5%	7.0%	6.5%	6.0%
0.75 to 1 mile	209	10.3%	10.6%	9.7%	10.2%	9.5%	9.1%	8.4%	9.2%	9.1%	9.5%	10.2%	9.4%
1 mile to 1.5 miles	152	7.5%	7.3%	8.1%	7.8%	9.4%	8.9%	9.5%	8.9%	8.7%	7.4%	8.5%	6.6%
1.5 miles to 2 miles	100	4.9%	4.6%	4.3%	3.4%	5.0%	4.1%	5.1%	5.8%	6.2%	5.9%	6.2%	5.2%
2 miles to 2.5 miles	55	2.7%	3.1%	3.2%	3.8%	3.1%	3.1%	3.7%	3.2%	4.0%	3.7%	3.6%	3.8%
2.5 miles to 3 miles	57	2.8%	2.6%	3.1%	1.9%	2.9%	2.9%	2.8%	2.8%	3.9%	3.3%	2.1%	3.5%
3 to 4 miles	71	3.5%	3.2%	2.9%	3.4%	2.9%	2.8%	3.7%	3.1%	2.8%	3.6%	3.5%	3.2%
4 to 5 miles	55	2.7%	2.4%	2.4%	2.3%	3.1%	3.4%	2.5%	2.7%	3.0%	3.6%	3.4%	4.1%
5 to 6 miles	26	1.3%	1.9%	2.2%	2.4%	2.2%	1.6%	1.8%	1.8%	2.4%	1.8%	2.3%	1.5%
6 to 8 miles	25	1.2%	1.1%	1.6%	1.8%	2.0%	1.6%	1.4%	2.0%	1.7%	1.5%	2.0%	2.5%
8 to 10 miles	47	2.3%	1.7%	1.5%	1.5%	2.2%	1.9%	2.1%	1.8%	2.3%	2.5%	2.7%	2.1%
Over 10 miles	60	2.9%	3.3%	3.2%	4.0%	3.0%	3.5%	3.3%	3.8%	4.3%	5.3%	4.4%	5.1%
Total	2,039	100.0%											
Skipped question	2,928												
Average distance	1.5 Miles		1.5	160.0%	1.7	1.6	1.6	1.7	1.8	2.0	1.8	1.8	

13. Do you know about "Spare the Air Days"?	Count	Fall 16	Fall 15	Fall 14	Fall 13	Fall 12	Fall 11	Fall 10	Fall 09	Fall 08	Fall 07	Fall 06	Fall 05
Yes	2,534	51.0%	55.2%	54.8%	52.6%	60.7%	63.1%	67.5%	66.7%	69.0%	69.6%	70.8%	59.9%
No	2,433	49.0%	44.8%	45.2%	47.4%	39.3%	36.9%	32.5%	33.3%	31.0%	30.4%	29.2%	40.1%
Total	4,967	100.0%											
Skipped question	0												

14. If yes, do you use bus, rail, bicycle or carpool to campus because of an announced "Spare the Air Day"?	Count	Fall 16	Fall 15	Fall 14	Fall 13	Fall 12	Fall 11	Fall 10	Fall 09	Fall 08	Fall 07	Fall 06	Fall 05
Yes	1037	34.1%	29.0%	37.3%	35.1%	33.4%	33.3%	35.1%	35.3%	31.2%	31.6%	28.4%	23.9%
No	2004	65.9%	71.0%	62.7%	64.9%	66.6%	66.7%	64.9%	64.7%	68.8%	68.4%	71.6%	76.1%
Total	3,041	100.0%											
Skipped question	1,926												

15. How did you first learn about the Transportation Solutions (TS) or any of the TS services? TS provides Eco Pass Clipper (VTA bus/light rail pass), trip planning, carpool matching, Bicycle Enclosure and TS website.	Count	Fall 16	Fall 15	Fall 14	Fall 13	Fall 12	Fall 11	Fall 10	Fall 09	Fall 08	Fall 07	Fall 06	Fall 05
A. Website	583	11.7%	10.0%	8.7%	8.9%	8.5%	7.5%	7.3%	7.2%	8.2%	6.5%	6.6%	6.1%
B. Student Orientation	2013	40.5%	34.8%	36.1%	31.7%	31.1%	30.1%	26.9%	26.5%	23.1%	20.8%	21.6%	19.9%
C. Campus fair or tabling event	158	3.2%	2.4%	2.8%	2.8%	2.7%	2.7%	2.4%	2.0%	1.7%	1.6%	1.9%	1.5%
D. Email	841	16.9%	22.6%	16.1%	15.3%	14.9%	11.2%	10.1%	9.4%	8.1%	7.4%	9.7%	12.3%
E. Friend, classmate, colleague	824	16.6%	14.1%	14.6%	15.7%	15.6%	14.1%	14.7%	16.7%	14.9%	14.3%	13.3%	11.9%
F. Social Media (Facebook, Twitter, Instagram)	23	0.5%	8.4%	14.8%	17.4%	19.4%	24.6%	30.1%	29.8%	32.1%	37.0%	34.6%	32.9%
G. Poster/sign/brochure	110	2.2%	1.6%	1.1%	1.2%	1.3%	1.7%	1.3%	1.2%	1.4%	1.6%	1.1%	1.6%
H. Spartan Daily	22	0.4%	0.4%	0.2%	0.3%	0.4%	0.5%	0.4%	0.4%	0.7%	0.6%	0.5%	0.5%
I. I don't know of Eco Pass Sticker or TS	393	7.9%	5.7%	5.7%	6.6%	6.1%	7.6%	6.9%	6.9%	9.9%	10.2%	10.6%	13.5%
Total	4,967	100.0%											
Skipped question	0												

16. Have you ever used any of the Transportation Solutions (TS) services, including the AS Eco Pass Sticker?	Count	Fall 16	Fall 15	Fall 14	Fall 13	Fall 12	Fall 11	Fall 10	Fall 09	Fall 08	Fall 07	Fall 06	Fall 05
Yes	3,277	66.0%	69.9%	71.7%	69.3%	67.5%	65.4%	67.4%	65.5%	62.5%	55.8%	53.6%	47.6%
No	1,690	34.0%	30.1%	28.3%	30.7%	32.5%	34.6%	32.6%	34.5%	37.5%	44.2%	46.4%	52.4%
Total	4,967	100.0%											
Skipped question	0												

17. If yes to Question 16, how did you get to the University before using TS services or AS Eco Pass? If not, skip to Question 20.	Count	Fall 16	Fall 15	Fall 14	Fall 13	Fall 12	Fall 11	Fall 10	Fall 09	Fall 08	Fall 07	Fall 06	Fall 05
A. Bicycle	115	3.5%	4.9%	4.5%	4.5%	4.4%	4.7%	3.0%	3.1%	2.8%	2.3%	1.7%	2.5%
B. Carpool	96	3.0%	4.0%	3.7%	4.0%	3.7%	3.2%	3.9%	4.2%	3.3%	3.9%	3.6%	4.1%
C. I got dropped off	497	15.3%	13.7%	13.4%	13.5%	14.0%	14.6%	12.3%	11.2%	9.2%	10.7%	9.7%	10.4%
D. I drove alone (including to SJSU Park & Ride and motorcycle)	659	20.3%	21.7%	23.4%	24.9%	27.4%	29.2%	25.7%	27.7%	32.0%	32.5%	33.7%	34.2%
E. I was taking VTA bus/light rail before attending SJSU	998	30.8%	30.2%	29.6%	29.1%	27.6%	27.0%	14.2%	13.9%	14.0%	12.8%	13.4%	12.9%
F. Regional train/bus (including Caltrain, Hwy 17 Exp, ACE, Amtrak, MST)	113	3.5%	4.4%	3.5%	4.6%	2.9%	3.1%	2.4%	2.6%	2.8%	3.2%	3.2%	3.2%
G. I lived on/near campus so I walked/ skateboard/ scooter	764	23.6%	21.1%	21.8%	19.4%	20.0%	18.2%	17.2%	17.2%	16.3%	14.9%	15.5%	13.3%
H. This was a new commute for me								21.1%	20.0%	19.8%	19.8%	19.3%	19.5%
Total	3,242	100.0%											
Skipped question	1,725												

18. If yes to Question 16, how do/did you commute to the University after using TS services or AS Eco Pass?	Count	Fall 16	Fall 15	Fall 14	Fall 13	Fall 12	Fall 11	Fall 10	Fall 09	Fall 08	Fall 07	Fall 06	Fall 05
A. Bicycle	106	3.3%	4.6%	3.9%	4.3%	4.6%	4.8%	3.8%	3.6%	3.3%	3.3%	2.3%	2.8%
B. Carpool	75	2.3%	3.5%	2.8%	2.4%	2.3%	2.7%	2.5%	3.0%	2.7%	3.2%	2.2%	3.5%
C. I get dropped off	132	4.1%	3.7%	3.0%	3.3%	3.9%	3.9%	4.3%	3.8%	3.3%	3.4%	3.2%	3.9%
D. Drive alone (including to SJSU Park & Ride and motorcycle)	461	14.2%	14.1%	14.5%	15.4%	16.0%	18.5%	19.2%	18.1%	18.8%	22.9%	22.7%	25.7%
E. VTA bus/light rail	1,692	52.3%	53.1%	53.1%	54.2%	52.0%	51.8%	51.8%	52.7%	53.2%	49.3%	49.8%	47.5%
F. Regional train/bus (including Caltrain, Hwy 17 Express, ACE, Amtrak)	157	4.8%	4.7%	5.2%	5.3%	3.6%	3.6%	3.5%	3.9%	4.4%	4.4%	4.7%	4.6%
G. I live on or near campus so I walk/skateboard/scooter	615	19.0%	16.4%	17.6%	15.1%	17.6%	14.8%	15.0%	14.8%	14.2%	13.5%	15.0%	12.0%
Total	3,238	100.0%											
Skipped question	1,729												

19. If you take bus, light rail, train, or carpool to campus, select the THE MOST IMPORTANT reason for doing so. If not, skip to Question 20.	Count	Fall 16	Fall 15	Fall 14	Fall 13	Fall 12	Fall 11
A. Have no other way	590	21.6%	21.7%	19.7%	22.0%	16.9%	21.0%
B. Ability to use Tower Card + Eco Pass	655	24.0%	25.5%	23.9%	23.6%	23.0%	17.5%
C. Ability to buy discounted transit passes at TS	37	1.4%	0.8%	1.1%	0.6%	0.5%	
D. Because of "Spare the Air" Announcements	19	0.7%	0.6%	0.5%	0.3%	0.6%	0.4%
E. Allows someone else to use the car	48	1.8%	2.1%	2.1%	2.4%	2.3%	2.5%
F. Avoid traffic and parking hassles	578	21.1%	18.6%	18.9%	17.9%	16.9%	16.5%
G. Avoid paying for parking	341	12.5%	11.9%	14.1%	13.6%	14.1%	17.2%
H. Avoid paying for gas	100	3.7%	5.7%	8.0%	9.2%	13.3%	10.6%
I. Good for the environment	111	4.1%	4.1%	3.9%	3.8%	4.6%	5.0%
J. Saves time	84	3.1%	3.2%	2.3%	1.2%	2.6%	2.4%
K. I can read or study	69	2.5%	2.0%	1.9%	1.9%	1.7%	2.0%
L. I don't like to drive	66	2.4%	2.1%	2.5%	2.0%		
M. I like taking transit or carpooling with others	35	1.3%	1.5%	1.2%	1.3%		
Other, please specify						3.5%	5.0%
Total	2,733	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Skipped question	2,234						

20. What is your employment status?	Count	Fall 16	Fall 15	Fall 14	Fall 13	Fall 12	Fall 11	Fall 10	Fall 09	Fall 08	Fall 07	Fall 06	Fall 05
A. Employed full-time	544	11.0%	10.0%	11.1%	9.5%	10.3%	12.4%	13.2%	14.0%	18.8%	18.9%	20.6%	21.2%
B. Employed part-time	2463	49.6%	47.4%	46.6%	43.4%	45.8%	43.7%	43.6%	42.9%	45.1%	46.7%	46.7%	46.8%
C. Not employed	1960	39.5%	42.5%	42.3%	47.0%	43.9%	44.0%	43.2%	43.2%	36.2%	34.4%	32.6%	32.0%
Total	4,967	100.0%											
Skipped question	0												

21. If you're employed, where do you work?	Count	Fall 16	Fall 15	Fall 14	Fall 13	Fall 12	Fall 11	Fall 10	Fall 09	Fall 08	Fall 07	Fall 06	Fall 05
A. On campus	577	19.0%	17.4%	18.0%	17.1%	16.5%	16.6%	15.0%	13.7%	11.8%	10.7%	11.8%	8.8%
B. Within walking distance of campus (e.g. Downtown San Jose)	159	5.2%	5.2%	5.1%	5.3%	4.9%	4.2%	4.6%	4.3%	5.1%	4.1%	4.1%	3.8%
C. Off campus (e.g. outside of Downtown San Jose)	2300	75.8%	77.4%	76.9%	77.6%	78.6%	79.1%	80.4%	82.0%	83.1%	85.1%	84.1%	87.4%
Total	3,036	100.0%											
Skipped question	1,931												

22. What is your class level:	Count	Fall 16	Fall 15	Fall 14	Fall 13	Fall 12	Fall 11	Fall 10	Fall 09	Fall 08	Fall 07	Fall 06	Fall 05
A. Freshman (1 - 29.5 units)	596	12.1%	12.3%	13.3%	15.9%	14.7%	16.8%	12.7%	11.6%	12.5%	13.3%	11.5%	11.8%
B. Sophomore (30 - 59.5 units)	515	10.4%	9.9%	9.8%	8.7%	9.5%	8.2%	7.4%	8.6%	6.9%	7.3%	7.7%	8.7%
C. Junior (60 - 89.5 units)	1344	27.2%	26.6%	25.4%	27.3%	29.1%	27.8%	25.6%	27.1%	26.7%	27.0%	25.7%	30.1%
D. Senior (90+ units)	1394	28.2%	27.5%	26.3%	24.2%	25.2%	24.8%	27.6%	26.1%	26.1%	22.2%	25.1%	22.3%
E. Second Baccalaureate	12	0.2%	0.2%	0.2%	0.3%	0.3%	0.6%	0.7%	0.9%	2.0%	2.5%	2.2%	2.3%
F. Credential	68	1.4%	1.5%	1.2%	1.4%	1.8%	2.4%	2.6%	2.8%	2.9%	3.7%	3.1%	3.6%
G. Master's or higher	956	19.3%	20.5%	21.7%	21.0%	18.2%	18.0%	21.8%	21.2%	21.8%	22.4%	22.9%	20.1%
H. Open University, Continuing Education, Extended Studies, International Gateway	74	1.5%	1.4%	1.7%	1.0%	1.1%	1.2%	1.4%	1.5%	1.1%	1.3%	1.6%	1.0%
I. Non student - employee	8	0.2%	0.1%	0.3%	0.0%	0.1%	0.2%	0.1%	0.1%	0.1%	0.2%	0.2%	0.1%
Total	4,967	100.4%	100.0%										
Skipped question	0												

23. If you don't take transit (bus, Light Rail, train), what is THE PRIMARY reason?	Count	Fall 16	Fall 15	Fall 14	Fall 13	Fall 12	Fall 11
A. Service is slow / it takes too long	997	37.5%	40.8%	38.7%	39.9%	32.5%	30.3%
B. Require transfers	91	3.4%	3.5%	3.6%	2.1%	4.2%	3.8%
C. There is no service near me or no service at the times I commute to/from campus	303	11.4%	11.8%	12.1%	12.0%	15.4%	15.8%
D. Concerns about personal safety	377	14.2%	10.9%	11.1%	13.3%	10.4%	12.1%
E. Concerns about cleanliness, or general comfort	114	4.3%	5.1%	4.8%	3.4%	2.9%	3.1%
F. Service is not reliable (transit not running on time)	131	4.9%	4.9%	5.6%	5.1%	3.8%	3.4%
G. Transit is too expensive	64	2.4%	2.5%	1.7%	2.2%	1.7%	1.3%
H. Transit is not an option for me / I have complicated commute	395	14.9%	14.1%	15.6%	15.3%	5.2%	5.9%
I. I don't know about the transit options or how to use public transportation	184	6.9%	6.4%	6.8%	6.5%		
Other, please specify						24.0%	24.2%
Total	2,656	100.0%	100.0%	100.0%	100.0%	100.1%	100.0%
Skipped question	2,311						