

## SJSU Transportation Solutions Fall 2007 Student Commute Survey Report

### 1 Survey results

Transportation Solutions (TS) conducted its seventh annual survey administered at the end of fall 2007 semester. This was TS's fifth online survey using [zoomerang.com](http://zoomerang.com). The survey provided significant results that prove this department's effectiveness in reducing reliance on single occupant vehicles and meeting the modal shift targets.

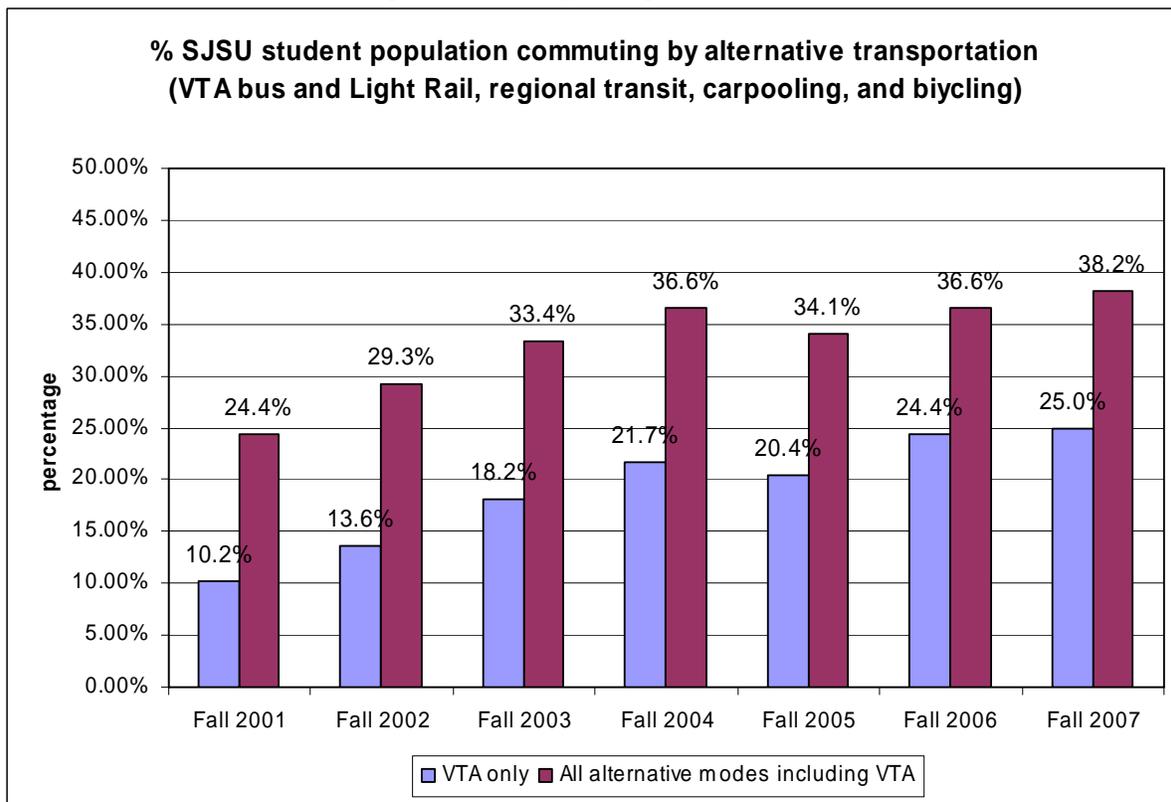
The survey instrument was the same as the one used in the Fall 2006 commute survey. The survey questionnaire was approved by the TS grant source, the Bay Area Air Quality Management District's Transportation Fund For Clean Air (TFCA Regional Funds).

The survey was carried out from November 1 through November 17, 2007. It was placed on the web and an email with the survey's link was sent to 32,041 people. The response rate was 13.4% or 4,289 participated.

#### 1.1 Analysis

This survey produced consistencies in all response ratios in comparison with the previous years' results. Despite the increase in enrollment (by 3,000 students) since 2006, the solo-driving decreased by 0.5% to 50.4% and the overall alternative transportation usage increased by 1.6% to 38.2%. Extrapolated over the population of 33,000, the number of alternative transportation users was 12,606. The local transit (VTA) ridership to campus increased to 25% or 8,250 as the following graph shows:

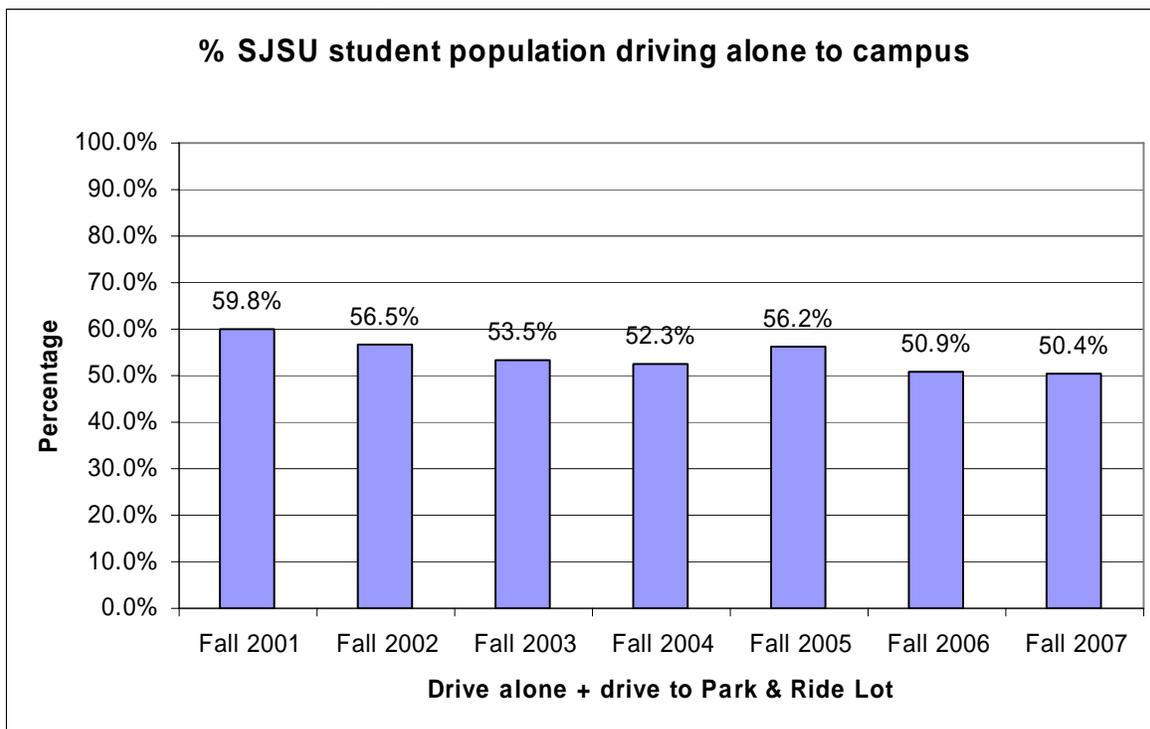
**Alternative Transportation Usage Graph**



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

The chart below shows the decrease in drive-alone rate to campus among SJSU students since fall 2001.

### Drive-alone Graph



The total transit users (local and regional) make up 29.3% or 9,669 people. Some of the other significant findings are as follows:

- Average frequency of travel to campus: 3.7 days per week, from the results of Question 4
- One-way trip distance (home to campus): 15.3 miles (average), from the results of Question 9. The TS GIS technician also calculated this average to be 14.48 miles using the student address data. This was done by running the student population address data through the GIS Network Analyst software application. It should be noted that the Network Analyst finds the shortest path between the student residence and SJSU.
- Number of days per week using transit/carpool/alternative commute mode: 3.7 days/week, from the result of q4xq5
- Mode of travel when not using transit:

The responses from Questions 5 provide the percentages for all the commute modes. Based on this, of the 33,000 students:

- 50.4% or 16,635 drive-alone,
- 6.8% or 2,231 carpool,
- 2.1% or 685 bike,

- 10.8% or 3,562 walk
- 0.6% or 208 use other modes

e) Mode of travel prior to use of SJSU-Associated Students services: The results of questions 17 and 18, mode of transportation before and after using TS services, show TS effectiveness with 9.6 % decrease in drive-alone rate.

f) Net reduction in vehicle trips to campus (based upon prior travel mode):  
 Population 33,000 x 9.6% drop in drive-alone = 3,168 cars x 2 trips/day = 6,336 trips/day

Other important results include:

- 40% of the new students use alternative transportation to campus. (q2xq5).
- 28% of the people who always have access to a car and 75% of the people who sometimes have access to a car choose to take alternative transportation to campus (q3xq5).

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

## 1.2 Zoomerang Survey Results

San Jose State University Transportation Survey Fall 2007

Response Status: 4,289 Completes & Partial

Filter: No filter applied

Jan 04, 2008 10:06 AM PST

1. Enter contact information for prize notification:			Fall 2007	Fall 2006	Fall 2005
4108 Responses			To 1 decimal point		

2. Is this your first semester at SJSU?			Fall 2007	Fall 2006	Fall 2005
Yes	1614	38%	37.6%	33.8%	36.4%
No	2675	62%	62.4%	66.2%	63.6%
<b>Total</b>	<b>4289</b>	<b>100%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>

3. Do you have a car available for getting to San Jose State University (SJSU)?			Fall 2007	Fall 2006	Fall 2005
A. Always	3213	75%	74.9%	76.3%	79.7%
B. Sometimes	531	12%	12.4%	11.7%	10.9%
C. Never	545	13%	12.7%	11.9%	9.4%
<b>Total</b>	<b>4289</b>	<b>100%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>

<b>4. In a typical week, how many days do you come to SJSU?</b>			Fall 2007	Fall 2006	Fall 2005
A. One day a week	249	6%	5.8%	7.3%	6.5%
B. Two days a week	783	18%	18.3%	18.8%	19.2%
C. Three days a week	605	14%	14.1%	14.2%	13.7%
D. Four days a week	1513	35%	35.3%	33.4%	33.6%
E. Five days a week	820	19%	19.1%	18.6%	20.3%
F. Six days a week	117	3%	2.7%	2.8%	2.2%
G. Seven days a week	202	5%	4.7%	4.8%	4.5%
<b>Total</b>	<b>4289</b>	<b>100%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>
Average frequency of travel to campus	<b>3.71 days/week</b>				
Average frequency of alternative commute mode to campus (q4xq5)	<b>3.73 days/week</b>				

<b>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)</b>			Fall 2007	Fall 2006	Fall 2005
A. ACE train	3	0%	0.1%	0.2%	0.2%
B. Amtrak/Capitol Corridor/Thruway Bus	4	0%	0.1%	0.1%	0.1%
C. BART + connecting mode (e.g. VTA Bus 180)	30	1%	0.7%	0.8%	0.7%
D. Bicycle	89	2%	2.1%	1.6%	1.4%
E. Bus (VTA)	478	11%	11.1%	10.2%	9.2%
F. Light Rail (VTA)	592	14%	13.8%	13.4%	10.5%
G. Caltrain	93	2%	2.2%	2.5%	1.9%
H. Carpool with other SJSU students or employees	188	4%	4.4%	4.0%	5.1%
I. I get dropped off	102	2%	2.4%	2.5%	2.7%
J. Drive alone	1980	46%	46.2%	47.3%	52.0%
K. Drive to Park & Ride Lot and take SJSU Shuttle	182	4%	4.2%	3.6%	4.2%
L. Highway 17 Express bus	55	1%	1.3%	1.3%	1.5%
M. Monterey Salinas Transit bus line 55	3	0%	0.1%	0.1%	
N. Motorcycle	25	1%	0.6%	0.7%	0.6%
O. Outreach (VTA)	2	0%	0.0%	0.2%	0.2%
P. Skateboard/roller blade/scooter	16	0%	0.4%	0.2%	0.0%
Q. Walk, (live on/near campus)	447	10%	10.4%	11.3%	9.6%
<b>Total</b>	<b>4289</b>	<b>100%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>

<b>6. If you selected VTA Bus in Question 5, please pick the Bus route you mostly use. If not, go to the next Question.</b>			Fall 2007	Fall 2006	Fall 2005	
	22	78	13%	13.4%	14.1%	12.7%
	23	55	9%	9.4%	9.2%	9.5%
	63	19	3%	3.3%	2.5%	2.6%
	64	11	2%	1.9%	1.9%	3.4%
	65	18	3%	3.1%	3.4%	4.4%
	66	17	3%	2.9%	3.8%	4.4%
	68	15	3%	2.6%	1.9%	3.0%

	72	34	6%	5.8%	4.8%	5.6%
	73	47	8%	8.0%	5.3%	4.8%
	81	49	8%	8.4%	9.4%	10.1%
	82	6	1%	1.0%	1.7%	2.2%
	85	9	2%	1.5%	2.9%	1.8%
	180	108	18%	18.5%	19.1%	17.5%
	304	1	0%	0.2%	0.2%	0.2%
	305	0	0%	0.0%	0.2%	0.0%
	522	101	17%	17.3%	17.9%	16.1%
	DASH	16	3%	2.7%	1.7%	2.0%
<b>Total</b>		584	100%	100.0%	100.0%	100.0%

7. Your trip to SJSU normally starts from:			Fall 2007	Fall 2006	Fall 2005
A. Home/dorm/current residence/friend or relative's house	3725	87%	86.9%	86.3%	85.4%
B. Work	482	11%	11.2%	12.3%	13.0%
C. Other location	82	2%	1.9%	1.5%	1.7%
<b>Total</b>	4289	100%	100.0%	100.0%	100.0%

8. Where do you go after leaving the University?			Fall 2007	Fall 2006	Fall 2005
A. Home/dorm/current residence/friend or relative's house	3565	83%	83.1%	83.6%	82.7%
B. Work	598	14%	13.9%	13.2%	14.2%
C. Other location	126	3%	2.9%	3.1%	3.2%
<b>Total</b>	4289	100%	100.0%	100.0%	100.0%

9. How far is your daily one-way trip to SJSU?			Fall 2007	Fall 2006	Fall 2005
less than 0.5 mile	375	9%	8.7%	9.6%	7.4%
0.5 to 1 mile	154	4%	3.6%	4.1%	2.7%
1 to 2 miles	150	3%	3.5%	2.5%	2.7%
2 to 5 miles	371	9%	8.7%	9.0%	8.5%
5 to 10 miles	1039	24%	24.2%	21.6%	22.8%
10 to 15 miles	731	17%	17.0%	18.1%	18.4%
15 to 20 miles	387	9%	9.0%	8.8%	9.3%
20 to 25 miles	253	6%	5.9%	6.2%	6.0%
25 to 30 miles	191	4%	4.5%	4.5%	4.9%
30 to 35 miles	168	4%	3.9%	4.0%	4.4%
35 to 40 miles	133	3%	3.1%	2.8%	3.2%
40 to 45 miles	74	2%	1.7%	2.0%	2.1%
45 to 50 miles	72	2%	1.7%	1.8%	2.1%
50 to 55 miles	60	1%	1.4%	1.6%	1.6%
55 to 60 miles	40	1%	0.9%	1.4%	1.3%
60 to 70 miles	49	1%	1.1%	0.9%	1.0%
70 to 80 miles	23	1%	0.5%	0.4%	0.6%

80 to 90 miles	9	0%	0.2%	0.2%	0.3%
over 90 miles	10	0%	0.2%	0.5%	0.8%
<b>Total</b>	<b>4289</b>	<b>100%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>
Average one-way trip distance	<b>15.3 Miles</b>				

<b>10. How long is your daily one-way trip to campus?</b>			Fall 2007	Fall 2006	Fall 2005
less than 5 minutes	310	7%	7.2%	8.1%	7.2%
5 to 10 minutes	336	8%	7.8%	8.1%	7.8%
10 to 15 minutes	558	13%	13.0%	13.1%	13.8%
15 to 20 minutes	741	17%	17.3%	15.8%	18.5%
20 to 30 minutes	794	19%	18.5%	18.2%	17.7%
30 to 40 minutes	524	12%	12.2%	11.8%	11.8%
40 to 50 minutes	338	8%	7.9%	8.4%	9.0%
50 to 60 minutes	257	6%	6.0%	5.9%	5.1%
1 hr. to 1 hr. 15 mins.	186	4%	4.3%	4.9%	4.3%
1 hr. 15 mins. to 1 hr. 30 mins.	102	2%	2.4%	2.3%	2.0%
1 hr. 30 mins. to 1 hr. 45 mins.	60	1%	1.4%	1.2%	1.2%
1 hr. 45 mins. to 2 hrs.	33	1%	0.8%	0.9%	0.6%
2 hrs. to 2 hr. 30 mins.	23	1%	0.5%	0.5%	0.5%
2 hrs. 30 mins. to 3 hrs.	11	0%	0.3%	0.2%	0.3%
over 3 hrs.	16	0%	0.4%	0.5%	0.3%
<b>Total</b>	<b>4289</b>	<b>100%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>
Average	<b>30 Minutes</b>				

<b>11. If you come to the University by carpooling, bus or train (in Question 3), how do you get to your bus stop, train station or carpool location? If not, skip to Question 13.</b>			Fall 2007	Fall 2006	Fall 2005
A. Walk/skateboard/roller blade/scooter	532	39%	39.1%	39.8%	36.9%
B. Bicycle	61	4%	4.5%	3.4%	3.4%
C. Bus/light rail/train/ferry	91	7%	6.7%	6.3%	6.2%
D. Carpool	115	8%	8.5%	5.8%	6.6%
E. I get dropped off	96	7%	7.1%	7.0%	9.1%
F. Drive alone	463	34%	34.0%	37.5%	37.6%
G. Motorcycle	2	0%	0.1%	0.2%	0.3%
<b>Total</b>	<b>1360</b>	<b>100%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>

<b>12. How far do you travel to this bus stop, train station or carpool pick-up location (miles)?</b>			Fall 2007	Fall 2006	Fall 2005
0 to 0.25 mile	438	30%	29.6%	30.6%	32.0%
0.25 to 0.5 mile	226	15%	15.3%	14.0%	14.9%
0.5 to 0.75 mile	104	7%	7.0%	6.5%	6.0%
0.75 to 1 mile	140	9%	9.5%	10.2%	9.4%
1 mile to 1.5 miles	110	7%	7.4%	8.5%	6.6%
1.5 miles to 2 miles	88	6%	5.9%	6.2%	5.2%
2 miles to 2.5 miles	55	4%	3.7%	3.6%	3.8%
2.5 miles to 3 miles	49	3%	3.3%	2.1%	3.5%

3 to 4 miles	53	4%	3.6%	3.5%	3.2%
4 to 5 miles	54	4%	3.6%	3.4%	4.1%
5 to 6 miles	26	2%	1.8%	2.3%	1.5%
6 to 8 miles	22	1%	1.5%	2.0%	2.5%
8 to 10 miles	37	2%	2.5%	2.7%	2.1%
Over 10 miles	79	5%	5.3%	4.4%	5.1%
<b>Total</b>	1481	100%	100.0%	100.0%	100.0%
Average distance	<b>1.95 Miles</b>				

13. Do you know about "Spare the Air Days"?			Fall 2007	Fall 2006	Fall 2005
Yes	2986	70%	69.6%	70.8%	59.9%
No	1303	30%	30.4%	29.2%	40.1%
<b>Total</b>	4289	100%	100.0%	100.0%	100.0%

14. If yes, do you use bus, rail, bicycle or carpool to campus because of an announced "Spare the Air Day"?			Fall 2007	Fall 2006	Fall 2005
Yes	1023	32%	31.6%	28.4%	23.9%
No	2212	68%	68.4%	71.6%	76.1%
<b>Total</b>	3235	100%	100.0%	100.0%	100.0%

15. How did you first learn about the Transportation Solutions (TS) or any of the TS services? TS provides AS Eco Pass Sticker (VTA bus/light rail pass), trip planning, carpool matching, Bicycle Enclosure and TS website.			Fall 2007	Fall 2006	Fall 2005
A. Website	280	7%	6.5%	6.6%	6.1%
B. Student Orientation	893	21%	20.8%	21.6%	19.9%
C. Campus fair or tabling event	68	2%	1.6%	1.9%	1.5%
D. Email	317	7%	7.4%	9.7%	12.3%
E. Friend/classmate/colleague	613	14%	14.3%	13.3%	11.9%
F. I was mailed a letter + brochure	1585	37%	37.0%	34.6%	32.9%
G. Poster/sign/brochure	70	2%	1.6%	1.1%	1.6%
H. Spartan Daily	25	1%	0.6%	0.5%	0.5%
I. I don't know of Eco Pass Sticker or TS	438	10%	10.2%	10.6%	13.5%
<b>Total</b>	4289	100%	100.0%	100.0%	100.0%

16. Have you ever used any of the Transportation Solutions (TS) services, including the AS Eco Pass Sticker?			Fall 2007	Fall 2006	Fall 2005
Yes	2393	56%	55.8%	53.6%	47.6%
No	1896	44%	44.2%	46.4%	52.4%
<b>Total</b>	4289	100%	100.0%	100.0%	100.0%

<b>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.</b>			Fall 2007	Fall 2006	Fall 2005
A. Bicycle	56	2%	2.3%	1.7%	2.5%
B. Carpooled with students/employees	94	4%	3.9%	3.6%	4.1%
C. I got dropped off	259	11%	10.7%	9.7%	10.4%
D. I drove alone (including to SJSU Park & Ride and motorcycle)	790	32%	32.5%	33.7%	34.2%
E. I was taking VTA bus/light rail before attending SJSU	311	13%	12.8%	13.4%	12.9%
F. Regional train/bus (including Caltrain, Hwy 17 Express, ACE, Amtrak)	77	3%	3.2%	3.2%	3.2%
G. I lived on/near campus so I walked	362	15%	14.9%	15.5%	13.3%
H. This was a new commute for me	482	20%	19.8%	19.3%	19.5%
<b>Total</b>	<b>2431</b>	<b>100%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>

<b>18. If yes to Question 16, how do/did you commute to the University after using TS services or AS Eco Pass?</b>			Fall 2007	Fall 2006	Fall 2005
A. Bicycle	78	3%	3.3%	2.3%	2.8%
B. Carpool	77	3%	3.2%	2.2%	3.5%
C. I get dropped off	80	3%	3.4%	3.2%	3.9%
D. Drive alone (including to SJSU Park & Ride and motorcycle)	545	23%	22.9%	22.7%	25.7%
E. VTA bus/light rail	1176	49%	49.3%	49.8%	47.5%
F. Regional train/bus (including Caltrain, Hwy 17 Express, ACE, Amtrak)	106	4%	4.4%	4.7%	4.6%
G. I live on/near campus so I walk	323	14%	13.5%	15.0%	12.0%
<b>Total</b>	<b>2385</b>	<b>100%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>

<b>19. If you use bus or light rail, or carpool to campus, select the THE THREE MOST IMPORTANT reasons for doing so (Mark no more than 3).</b>		
A. Have no other way	509	24%
B. Ability to use Tower Card + AS Eco Pass Sticker	1076	51%
C. Because of "Spare the Air" Announcements	90	4%
D. Allows someone else to use the car	154	7%
E. Avoid traffic and parking hassles	1294	61%
F. Avoid paying for parking	1114	52%
G. Avoid paying for gas	858	40%
H. Good for the environment	549	26%
I. Saves time	192	9%
J. I can read or study	319	15%
Other, Please Specify	105	5%

<b>20. What is your employment status?</b>			Fall 2007	Fall 2006	Fall 2005
A. Employed full-time	810	19%	18.9%	20.6%	21.2%
B. Employed part-time	2004	47%	46.7%	46.7%	46.8%
C. Not employed	1475	34%	34.4%	32.6%	32.0%
<b>Total</b>	<b>4289</b>	<b>100%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>

<b>21. If you're employed, where do you work?</b>			Fall 2007	Fall 2006	Fall 2005
A. On campus	304	11%	10.7%	11.8%	8.8%
B. Within walking distance of campus (e.g. Downtown San Jose)	117	4%	4.1%	4.1%	3.8%
C. Off campus (e.g. outside of Downtown San Jose)	2409	85%	85.1%	84.1%	87.4%
<b>Total</b>	<b>2830</b>	<b>100%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>

<b>22. What is your class level:</b>			Fall 2007	Fall 2006	Fall 2005
A. Freshman (Generally 1st year)	571	13%	13.3%	11.5%	11.8%
B. Sophomore (Generally 2nd year)	315	7%	7.3%	7.7%	8.7%
C. Junior (Generally 3rd year or newly transferred student)	1159	27%	27.0%	25.7%	30.1%
D. Senior (4 or more years)	953	22%	22.2%	25.1%	22.3%
E. Second Baccalaureate	106	2%	2.5%	2.2%	2.3%
F. Credential	159	4%	3.7%	3.1%	3.6%
G. Master's or higher	962	22%	22.4%	22.9%	20.1%
H. Open University, continuing education, extended studies, SAL	55	1%	1.3%	1.6%	1.0%
I. Non student - employee	9	0%	0.2%	0.2%	0.1%
<b>Total</b>	<b>4289</b>	<b>100%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>

<b>23. If you don't take transit (bus, Light Rail, train), what are the reasons? select THE THREE PRIMARY reasons.</b>		
A. Service too slow/not fast enough	1830	68%
B. Require transfers	867	32%
C. There is no service near me or no service at the times I commute to campus	1204	45%
D. Concerns about personal safety	763	28%
E. Concerns about cleanliness, or general comfort	652	24%
F. Service is not reliable (transit not running on time)	687	25%
G. Transit is too expensive	172	6%
H. I don't know about the transit options or how to use transit	578	21%