University of Colorado

Boulder Campus Student Transportation Survey

Report of Results

March 2006

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Executive Summary

Survey Background

The University of Colorado conducted this survey in order to gauge the transportation habits of its students. The survey asked students questions regarding modes of transportation used for the school commute, parking and bus use not related to the school commute.

This is the first time the University of Colorado has participated in the Boulder Valley Employee Transportation survey. This is the 7th iteration of the Boulder Valley Employee Transportation Survey since the baseline study conducted in 1991.

School Commute

One of the main purposes of the CU Student Transportation Survey is to determine the "modal split" of trips made to and from the CU Boulder Campus by students; that is, the proportion of school commute trips made via each method of transportation. One question asked how many days various modes of transportation were used for the commute to school during a typical week. Following are the percent of days respondents reported using each mode of transportation:

- Walk, 27%
- Ride a bus(es), 26%
- Bike, 21%
- Drive alone, 11%
- Multi-mode, 7%
- Drive with at least one other person, 3%
- Work at home, 2%
- Other, 1%

In addition to being asked about their travel behavior during a "typical week," students were asked how they had arrived at campus on the day they completed the survey. They were allowed to indicate all modes that were used. As with the typical week, the most common modes reported were riding a bus (36%) and walking (34%):

- Rode s bus or buses, 36%
- Walked, 34%
- Biked, 26%
- Drove alone, 13%
- Other, 3%
- Drove with at least one other person, 3%
- Worked at home, 2%

In order to examine modal split where the percents add to 100%, a category was created for multi-mode for those respondents who indicated more than one category. Results were similar to those observed for the typical week:

- Rode a bus(es), 26%
- Walked, 24%

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- Biked, 18%
- Multi-mode, 15%
- Drove alone, 10%
- Carpool, 2%
- Worked at home, 2%
- Other, 2%

The primary mode of transportation used for the commute to school was examined by where students lived. As might be expected, those living outside of Boulder were more likely to drive alone (34%) than those living in Boulder (5%). Walking and biking were more often used as the primary mode of transportation by those living in Boulder (50%) than those that living outside of Boulder (6%).

Characteristics of the School Commute

Students completing the questionnaire were asked several questions about their school commute: what time they left home for school, what time they arrived at school and what time they left school. Close to three-quarters (71%) reported leaving home for school between 7-9:59am on the day they took the survey. Students reported leaving home for school during the 7am hour (27%) more than any other hour of the day.

Then students were asked what time they usually arrive at school. A sharp peak in reported arrival times occurs between 7:00 am and 9:59 am; 72% of students reported they usually reach school during these three hours. The most common arrival time is the 9:00 am hour, when 28% of students reported they typically arrive at school.

The peak for leaving school is a bit flatter, stretching from 2:00 pm to 6:59 pm, with 72% of students reporting they leave school during these four hours. The two most common hours of the day for departing the campus are 3:00 pm (18%) and 5:00 pm (18%).

Surveyed students were asked, "Did you come straight to school from home today?" The majority of respondents reported going straight to school (92%). Likewise, on the way home from campus, most students (60%) did not make any stops:

- No stops, 60%
- 1 to 2 stops, 28%
- 3 or more stops, 11%

Students that did not make any stops on their way to school were asked how many minutes it took them to get to school:

- 5 minutes or less, 16%
- 6 to 10 minutes, 28%
- 11 to 15 minutes, 24%
- 16 to 20 minutes, 12%
- 21 to 30 minutes, 9%
- 31 to 45 minutes, 7%
- 46 to 60 minutes, 2%
- More than an hour, 2%

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The average time spent making the school commute was 17 minutes; the average distance was 5.8 miles. The majority of respondents reported living less than 5 miles from campus:

- 1 mile or less, 44%
- 2 miles, 12%
- 3 to 4 miles, 13%
- 5 to 6 miles, 4%
- 7 to 8 miles, 2%
- 9 to 10 miles, 3%
- 11 to 15 miles, 14%
- 16 to 20 miles, 5%
- more than 20 miles, 5%

Parking

Students were asked questions surrounding parking when they come to school. Most survey participants (82%) reported not having a parking permit for the Boulder campus. In 2001, 31% of those surveyed reporting having a parking permit compared to only 18% in 2005.

While few students reported to driving on the day they took the survey (13%), if they had driven to school the day of the survey students were asked where they parked their car:

- CU lot or structure with a permit, 42%
- Residential street, no meter, 22%
- CU lot or structure with cash payment, 13%
- Other, 10%
- Private lot or parking space, no charge, 6%
- Street with meter, 4%
- Other lot, structure or space, with permit, 2%
- Other lot, structure or space, with cash payment, 1%

A large majority of the students surveyed (71%) reported never parking a motor vehicle on campus. A little more than one-tenth (11%) of those surveyed reported parking a motor vehicle on campus 5 days or more a week:

- 0 Days, 71%
- 1 Day, 10%
- 2 Days, 4%
- 3 Days, 3%
- 4 Days, 2%
- 5 Days, 6%
- 6 Days, 1%
- 7 Days, 4%

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Students were then asked where they usually park *when* they drive to school. When students drive to school they are most likely to park in a CU lot or structure with a permit:

- CU lot or structure with a permit, 30%
- Residential street, no meter, 22%
- CU lot or structure with cash payment, 19%
- Street with meter, 14%
- Other, 7%
- Private lot or parking space, no charge, 6%
- Other lot, structure or space, with permit, 1%
- Other lot, structure or space, with cash payment, 1%

Bus Use

Students on the CU Boulder Campus are eligible for a Buff OneCard. Through student fees, this card is a bus pass for free bus rides throughout Boulder and the Denver metropolitan area. Most students (94%) surveyed reported having a current RTD sticker on their CU Buff OneCard, 6% reported not having it. This is a slight increase from 2001 and 2000 where 86% and 91%, respectively reported they had a RTD sticker on their Buff OneCard.

When asked about their bus use, nearly 80% of those surveyed said "yes" they do sometimes ride the bus to and from campus. Those who said they never rode the bus to campus were asked why they do not:

- Other, 54%
- The bus takes too much time, 40%
- I need my vehicle for errands during the workday, 13%
- I have not picked up my RTD sticker for my Buff OneCard, 10%
- There is no bus service to my home, 10%
- I need my vehicle before and/or after the workday to transport children or do errands, 9%
- There is no bus service to campus, 4%

Approximately two-thirds (62%) of students surveyed reported riding the bus at least once during a typical week for reasons other than commuting to school.

Survey participants were asked how far their home was from the nearest bus stop that they would use to ride to campus. Nearly 6 out of 10 reported living less than 2 blocks from a bus stop they would use to ride to campus:

- Less than 2 blocks, 59%
- 2-5 blocks, 27%
- 6-10 blocks, 5%
- 11-15 blocks, 2%
- More than 15 blocks, 6%

Those surveyed were asked if they had been to the Denver International Airport (DIA) in the last year, 88% reported they had been to DIA one or more times. Of those that had been to DIA, 44% reported using the RTD skyRide for a trip to and from the airport.

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Less than half (44%) of the students that participated in the survey reported using a regional bus route during the current school year, while more than half (77%) reported using a local bus route during the current school year.

Available Transportation Options

Survey participants were asked to indicate if they had a car (or other motor vehicle) or bicycle available to them for commuting to school. Roughly two-thirds reported having a car or other motor vehicle (68%) or a bicycle (63%) available to them for the commute to school.

Those reporting having a car or other motor vehicle available to them did not show a change from 2001 or 2000. Those reporting having a bicycle increased in 2005 (63%) compared to 2001 (52%).

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Report of Results

Survey Background

The University of Colorado conducted this survey in order to gauge the transportation habits of its students. This survey was part of a larger study undertaken to understand the school and work commute of Boulder's "daytime" population; that is, those who study at the University, or are employed within Boulder. Those who study or work in Boulder may or may not actually live in Boulder, and thus their travel behavior is not captured with the resident Travel Diary study, a study that has been undertaken by the City of Boulder and implemented every few years since the baseline survey was conducted in 1990.

This is the first time the University of Colorado has participated in the Boulder Valley Employee Transportation survey. This is the 7th iteration of the Boulder Valley Employee Transportation Survey since the baseline study conducted in 1991.

All Boulder Campus CU Students are given an e-mail address through the University system. The Administration has the capability of sending "e-memos" to all students. It was determined that this would be a cost effective way to reach the student population, most of whom are quite versed in computer and Internet use. The CU Student Transportation Questionnaire was programmed as a web survey form, and hosted on the website of National Research Center, Inc., the company conducting the survey and analyzing the results. An e-memo explaining the survey purpose and containing a link to the survey site was sent by Administration, signed by Peter Roper, the student Transportation Program Manager at the University. The first invitation was sent the first week of October 2005. About two weeks later, a reminder e-memo was sent, asking those who had not yet completed the questionnaire to do so. Of the approximately 31,457 students contacted, 2,140 completed the survey, a response rate of 6.8%.

It is customary to describe the precision of estimates made from surveys by a "level of confidence" (or margin of error). The 95 percent confidence level for the survey is generally no greater than plus or minus two percentage points around any given percent reported for the entire sample.

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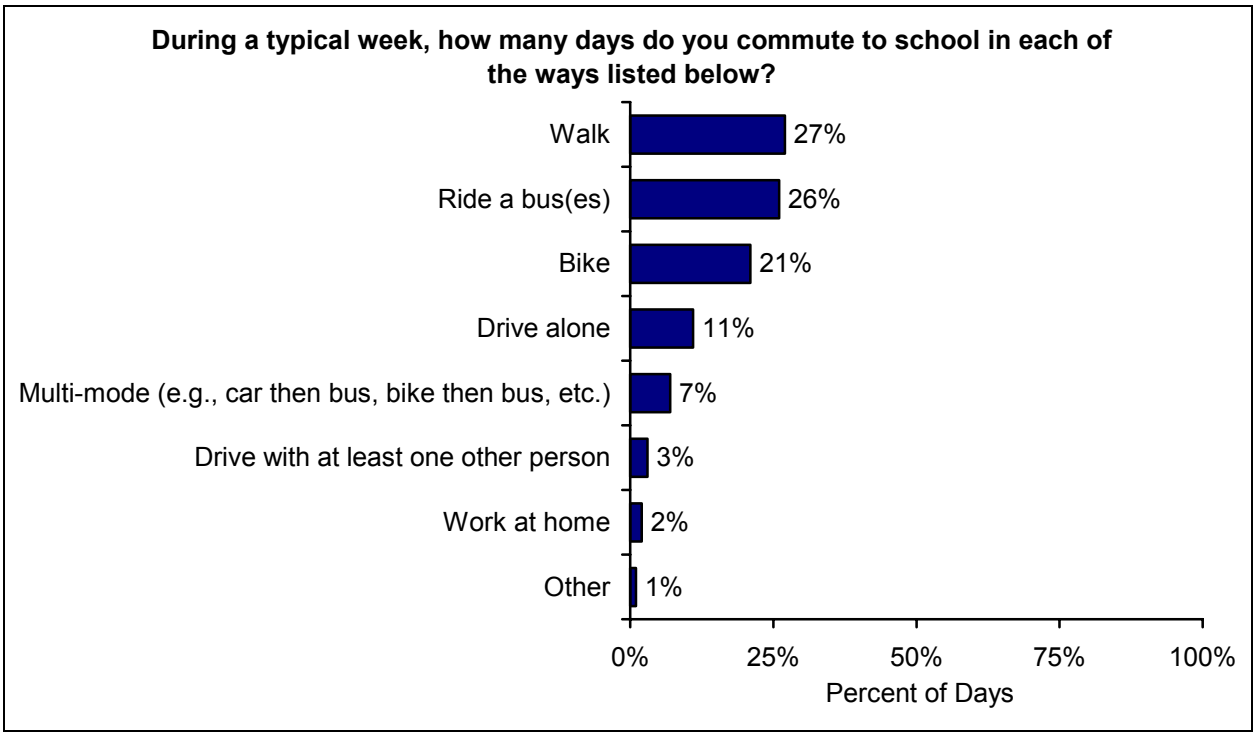
School Commute

One of the main purposes of the CU Student Transportation Survey is to determine the "modal split" of trips made to and from the CU Boulder Campus by students; that is, the proportion of school commute trips made via each method of transportation. Several questions on the survey completed by students were asked to allow estimation of the school commute modal split.

One question asked how many days various modes of transportation were used for the commute to school during a typical week. Walking (27%) was used for the most trips, followed by riding a bus or buses (26%) and biking (21%). Carpooling was used the least often, 3% of trips were reported as driving with at least one other person.



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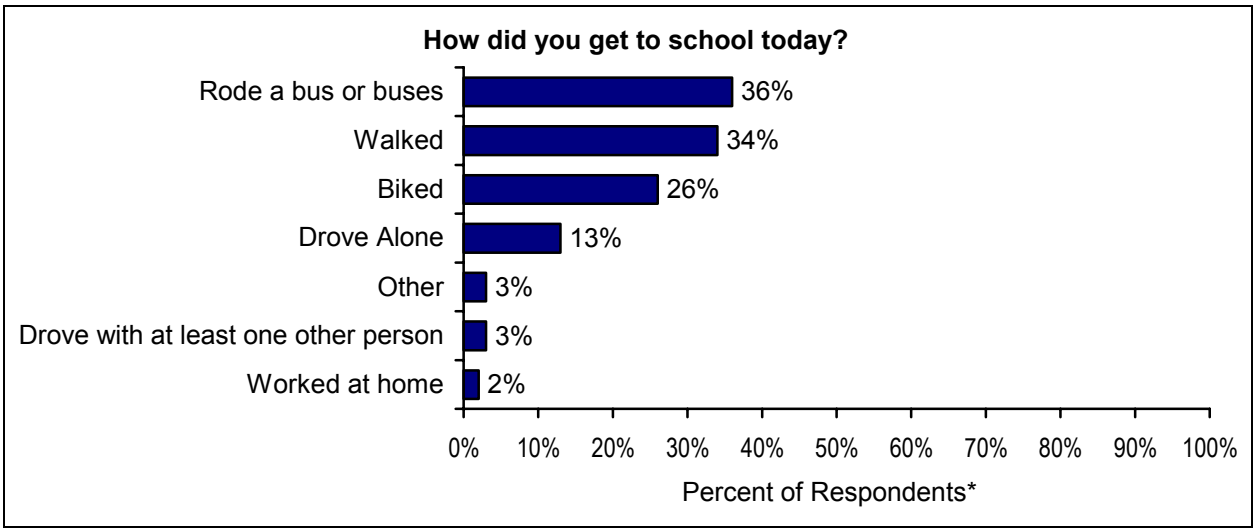
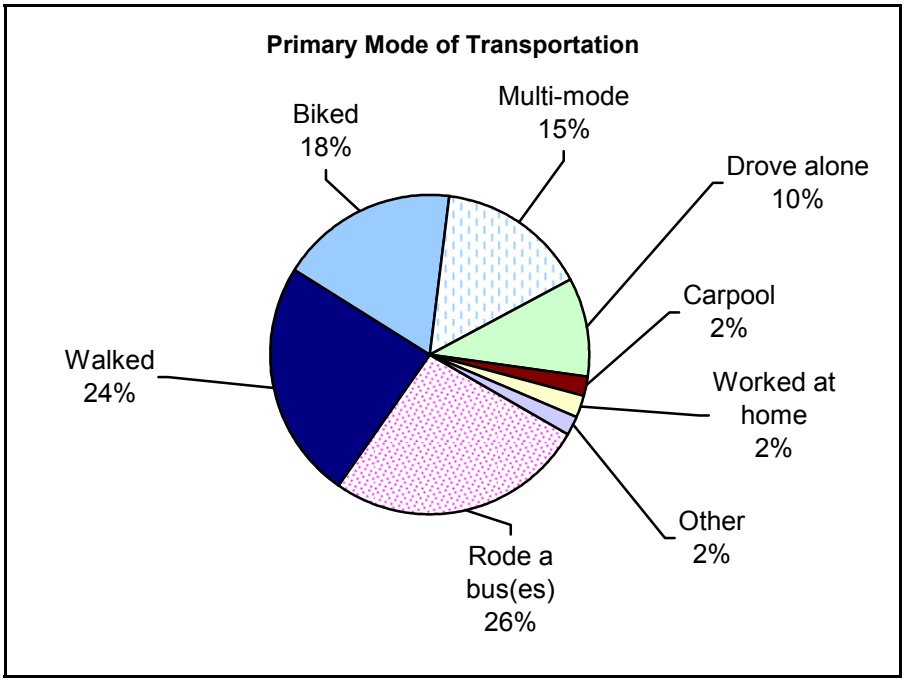
In addition to being asked about their travel behavior during a "typical week," students were asked how they had arrived at campus on the day they completed the survey. They were allowed to indicate all modes that were used. As with the typical week, the most common modes reported were riding a bus (36%) and walking (34%).



** Percents add to more than 100% as respondents could give more than one answer.*

In order to examine modal split where the percents add to 100%, a category was created for multi-mode for those respondents who indicated more than one category. Results were similar to those observed for the typical week. The most common primary mode was riding a bus (26%), followed by walking (24%), biking (18%), and using multiple modes (15%). About one in 10 of those completing the survey reported driving alone to get to school, and even fewer (3%) carpooled.



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The primary mode of transportation used for the commute to school was examined by where students lived. As might be expected, those living outside of Boulder were more likely to drive alone (34%) than those living in Boulder (5%). Walking and biking were more often used as the primary mode of transportation by those living in Boulder (50%) than those that living outside of Boulder (6%).

Respondent's Primary Mode of Transportation by Location of Residence

	Percent of Respondents	
	Boulder	Outside of Boulder
Drove alone	5%	34%
Drove with at least one other person	1%	6%
Walked	29%	4%
Biked	21%	2%
Rode a bus or buses	24%	36%
Multi-mode	15%	16%
Worked at home	2%	1%
Other	3%	2%
Total	100%	100%

Freshmen were the most likely of the student classes to walk, probably because they are more likely to live on campus. Graduate students and Seniors were more likely to say they had arrived on campus by driving alone compared to younger classes, although the proportion was still low (15%).

Respondent's Primary Mode of Transportation by Class

	Percent of Respondents				
	Freshman	Sophomore	Junior	Senior	Graduate student
Walked	36%	27%	22%	20%	12%
Rode a bus or buses	23%	26%	31%	27%	24%
Multi-mode	17%	18%	16%	13%	10%
Biked	12%	17%	13%	18%	32%
Worked at home	5%	2%	1%	0%	1%
Drove alone	4%	8%	11%	15%	15%
Drove with at least one other person	0%	1%	2%	3%	4%
Other	1%	1%	4%	4%	2%
Total	100%	100%	100%	100%	100%

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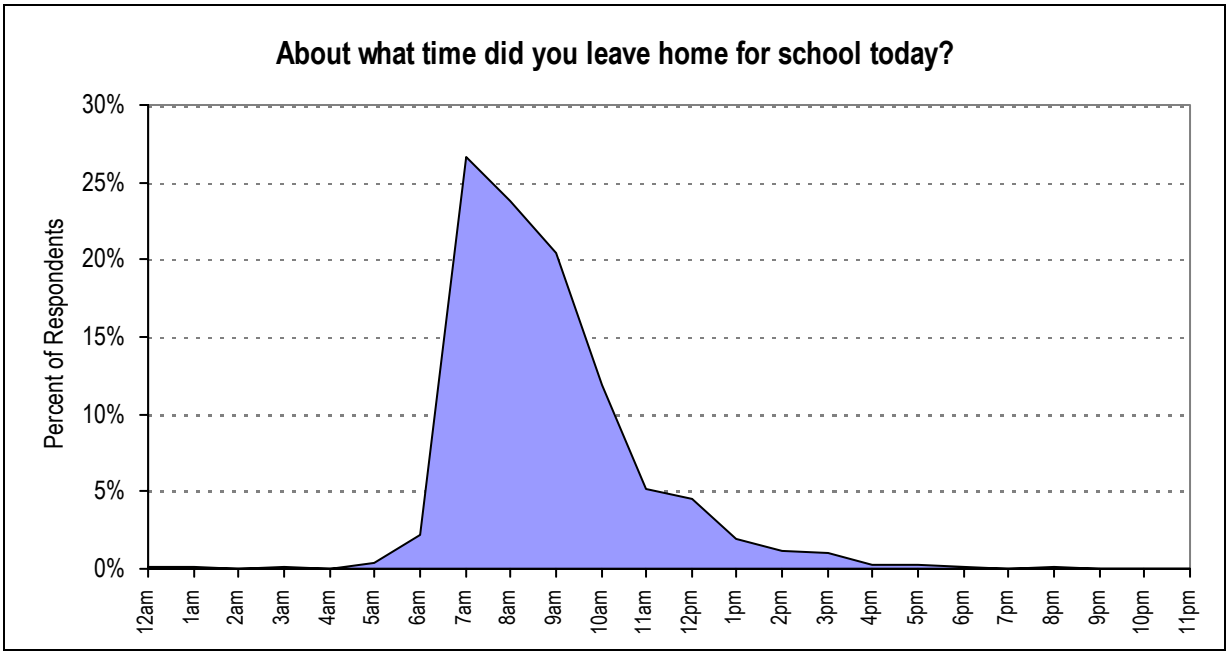
Characteristics of the School Commute

Students completing the questionnaire were asked several questions about their school commute: what time they left home for school, what time they arrived at school and what time they left school. Close to three-quarters (71%) reported leaving home for school between 7-9:59am on the day they took the survey. Students reported leaving home for school during the 7am hour (27%) more than any other hour of the day.



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About what time did you leave home for school today?	
Hour	**Percent of respondents**
12:00am (Midnight)	0%
1:00am	0%
2:00am	0%
3:00am	0%
4:00am	0%
5:00am	0%
6:00am	2%
7:00am	27%
8:00am	24%
9:00am	20%
10:00am	12%
11:00am	5%
12:00pm (Noon)	5%
1:00pm	2%
2:00pm	1%
3:00pm	1%
4:00pm	0%
5:00pm	0%
6:00pm	0%
7:00pm	0%
8:00pm	0%
9:00pm	0%
10:00pm	0%
11:00pm	0%
Total	100%

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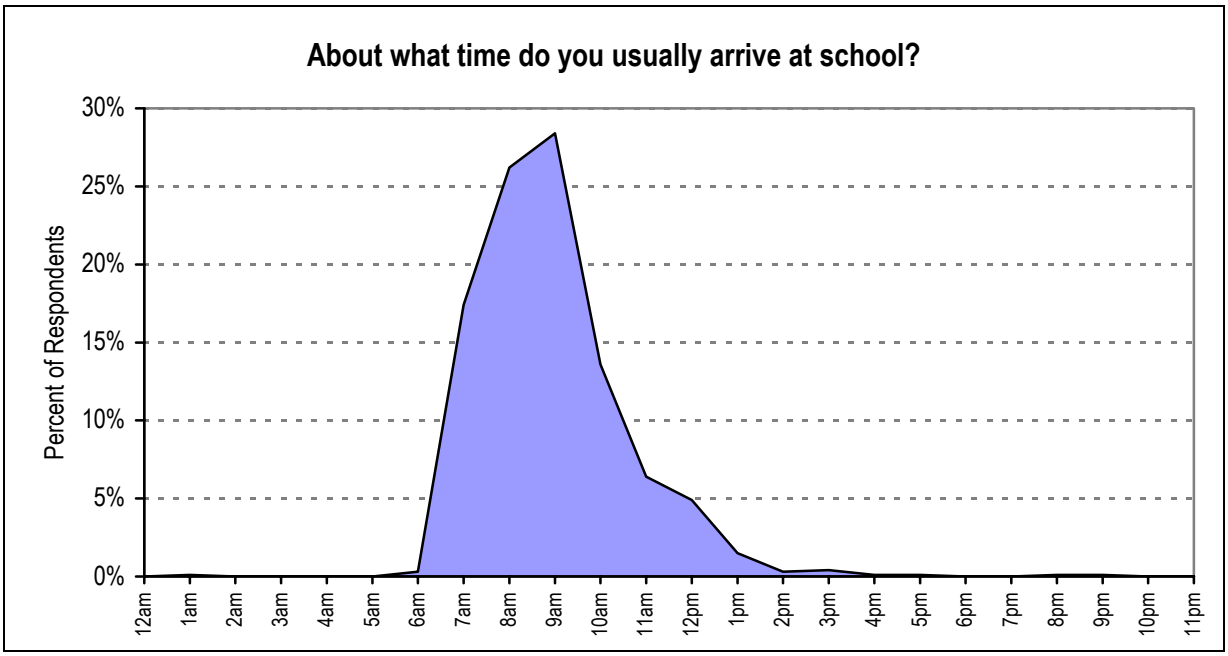
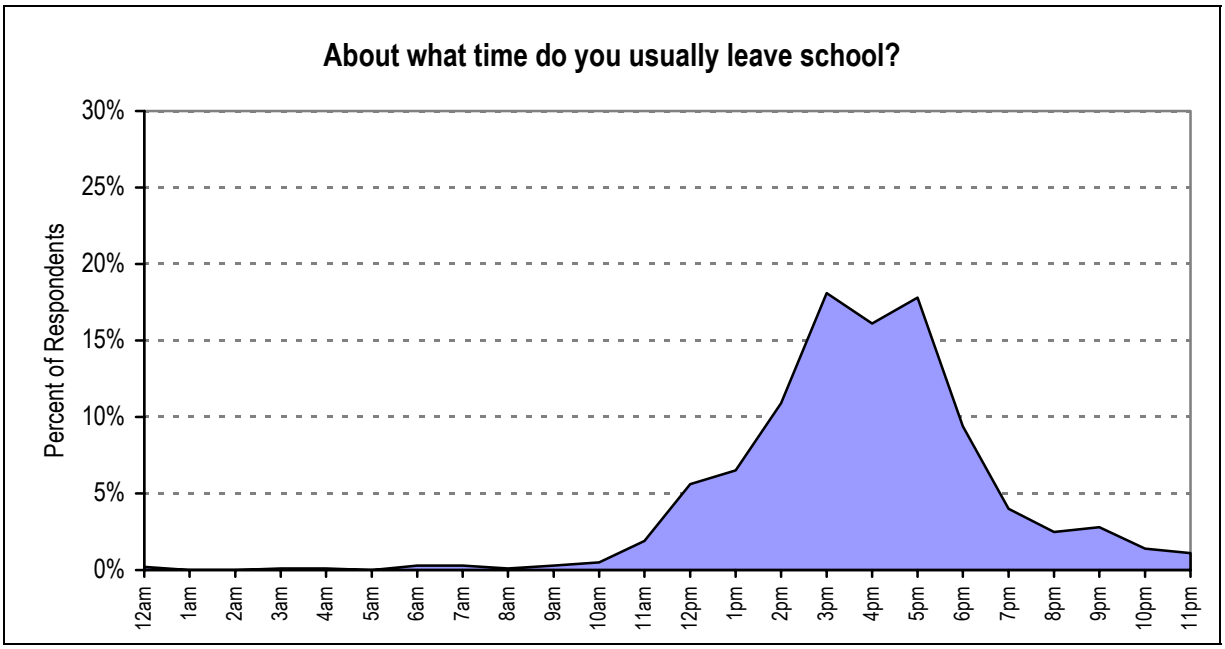
Student completing the questionnaire were asked what time they usually arrive at school. A sharp peak in reported arrival times occurs between 7:00 am and 9:59 am; 72% of students reported they usually reach school during these three hours. The most common arrival time is the 9:00 am hour, when 28% of students reported they typically arrive at school.



The peak for leaving school is a bit flatter, stretching from 2:00 pm to 6:59 pm, with 72% of students reporting they leave school during these four hours. The two most common hours of the day for departing the campus are 3:00 pm (18%) and 5:00 pm (18%).



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Hour of the Day	Percent of Respondents	
	About what time do you usually arrive at school?	About what time do you usually leave school?
12:00am (Midnight)	0.0%	0.2%
1:00am	0.1%	0.0%
2:00am	0.0%	0.0%
3:00am	0.0%	0.1%
4:00am	0.0%	0.1%
5:00am	0.0%	0.0%
6:00am	0.3%	0.3%
7:00am	17.4%	0.3%
8:00am	26.2%	0.1%
9:00am	28.4%	0.3%
10:00am	13.6%	0.5%
11:00am	6.4%	1.9%
12:00pm (Noon)	4.9%	5.6%
1:00pm	1.5%	6.5%
2:00pm	0.3%	10.9%
3:00pm	0.4%	18.1%
4:00pm	0.1%	16.1%
5:00pm	0.1%	17.8%
6:00pm	0.0%	9.4%
7:00pm	0.0%	4.0%
8:00pm	0.1%	2.5%
9:00pm	0.1%	2.8%
10:00pm	0.0%	1.4%
11:00pm	0.0%	1.1%
Total	100%	100%

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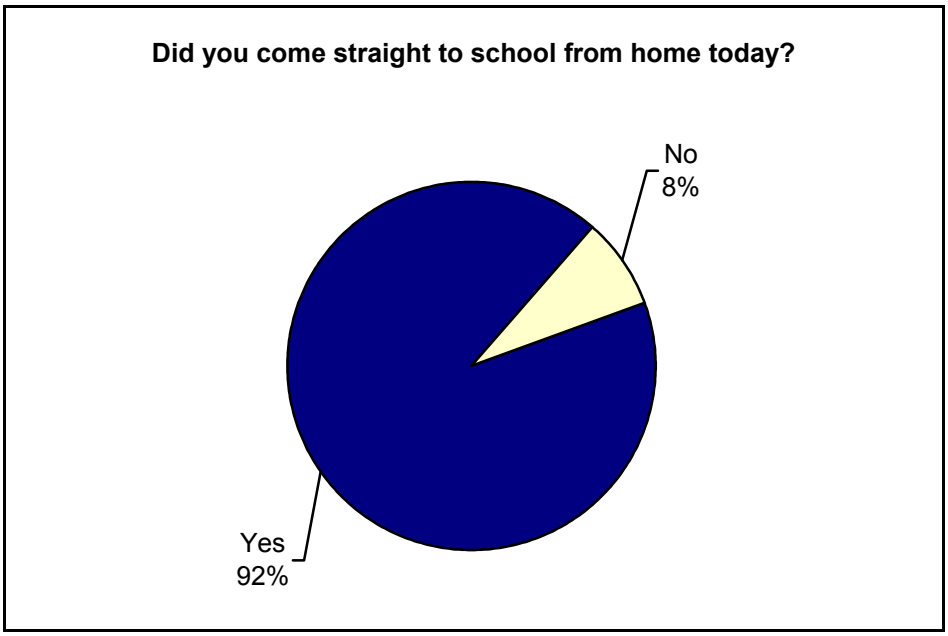
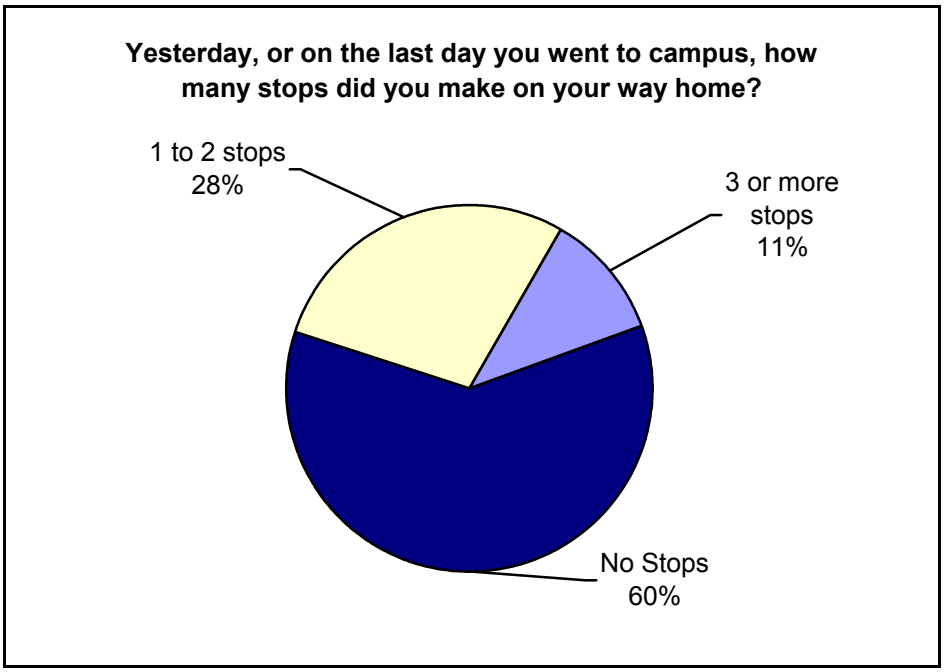
Surveyed students were asked, "Did you come straight to school from home today?" The majority of respondents reported going straight to school (92%). Likewise, on the way home from campus, most students (60%) did not make any stops, 28% made 1 or 2 stops and 11% made 3 or more stops.





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The average time spent making the school commute was 17 minutes; the average distance was 5.8 miles. Just over 15% of the school commutes took 5 minutes or less, with slightly over half (52%) taking between 6 to 15 minutes. Very few school commutes lasted more than 45 minutes (4%). More than 4 in 10 of the school commutes were 1 mile or less in length; 12% were two miles, 13% were 3 to 4 miles. Nearly 20% of school commutes are more than 10 miles in length.

Duration of the School Commute	
About how many minutes did it take to get to school?	**Percent of Respondents Who Made No Stops on the Way to School**
5 minutes or less	16%
6 to 10 minutes	28%
11 to 15 minutes	24%
16 to 20 minutes	12%
21 to 30 minutes	9%
31 to 45 minutes	7%
46 to 60 minutes	2%
more than an hour	2%
Total	100%

Distance of the School Commute	
About how far is your home from the campus?	**Percent of Respondents**
1 mile or less	44%
2 miles	12%
3 to 4 miles	13%
5 to 6 miles	4%
7 to 8 miles	2%
9 to 10 miles	3%
11 to 15 miles	14%
16 to 20 miles	5%
more than 20 miles	5%
Total	100%

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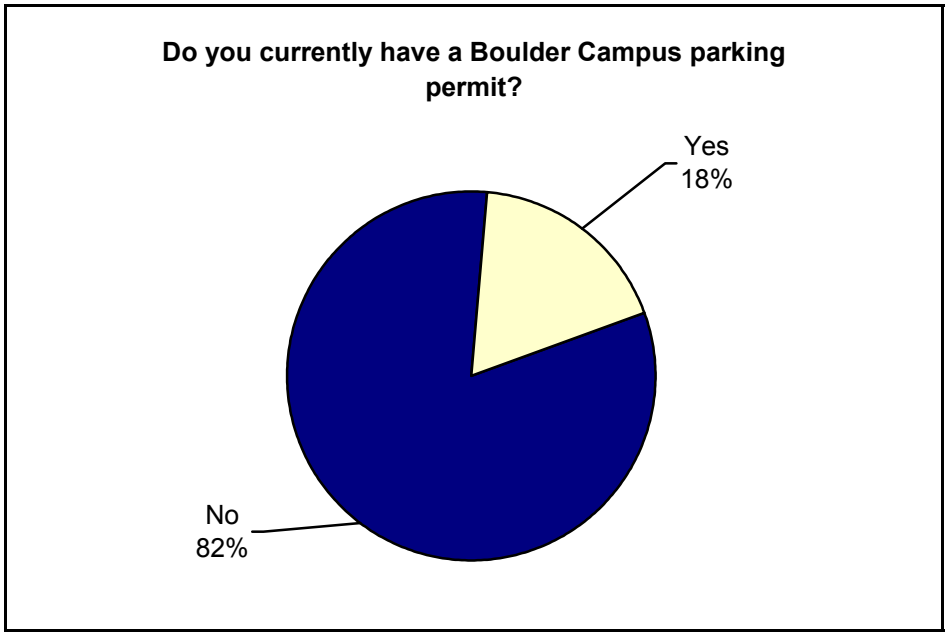
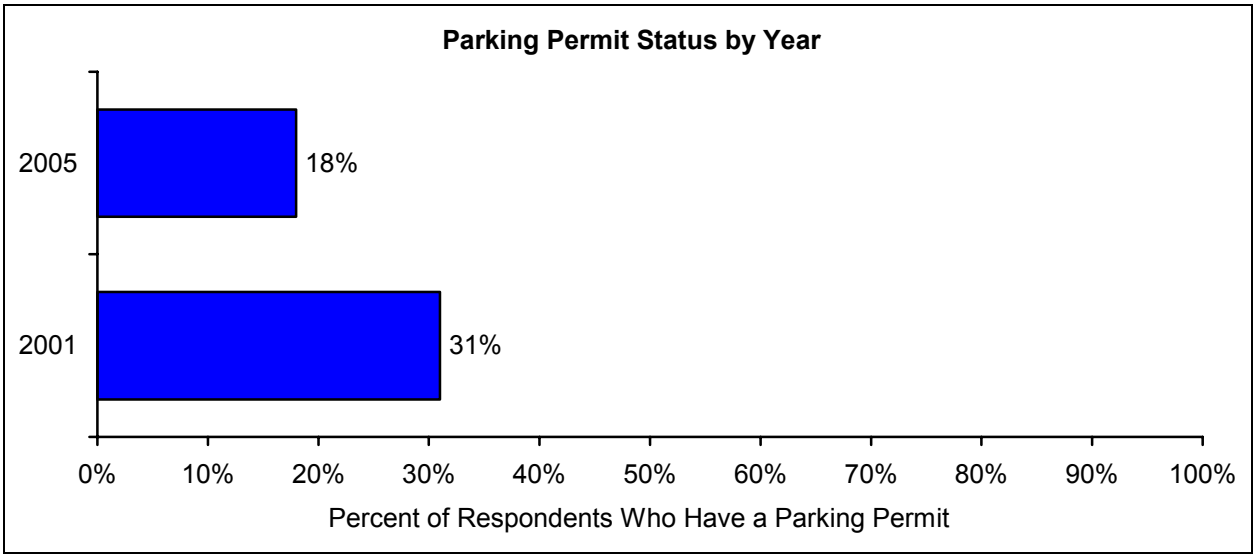
Parking

Students were asked questions surrounding parking when they come to school. Most survey participants (82%) reported not having a parking permit for the Boulder campus. In 2001, 31% of those surveyed reporting having a parking permit compared to only 18% in 2005.





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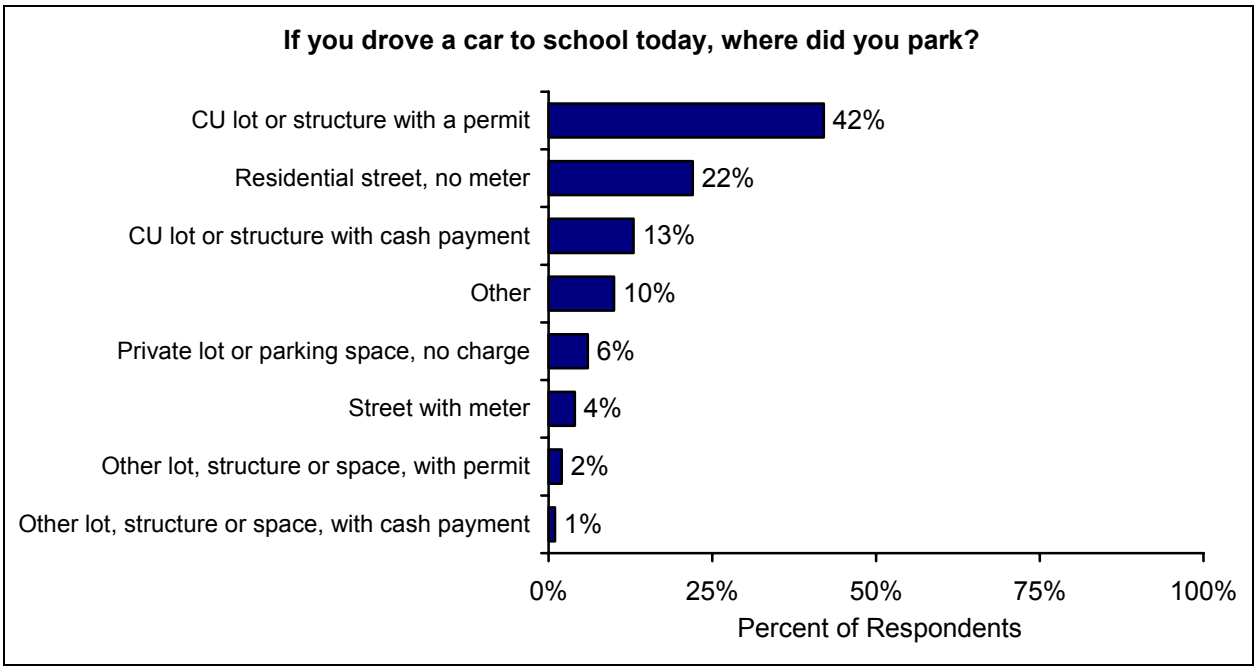
Students were asked where they parked their car if they had driven to school on the day they took the survey. Of those that drove, 42% reported parking on a CU lot or structure with a permit and 13% with cash payment. Twenty-two percent of students who drove to school the day they took the survey reported using a residential street with no meter.



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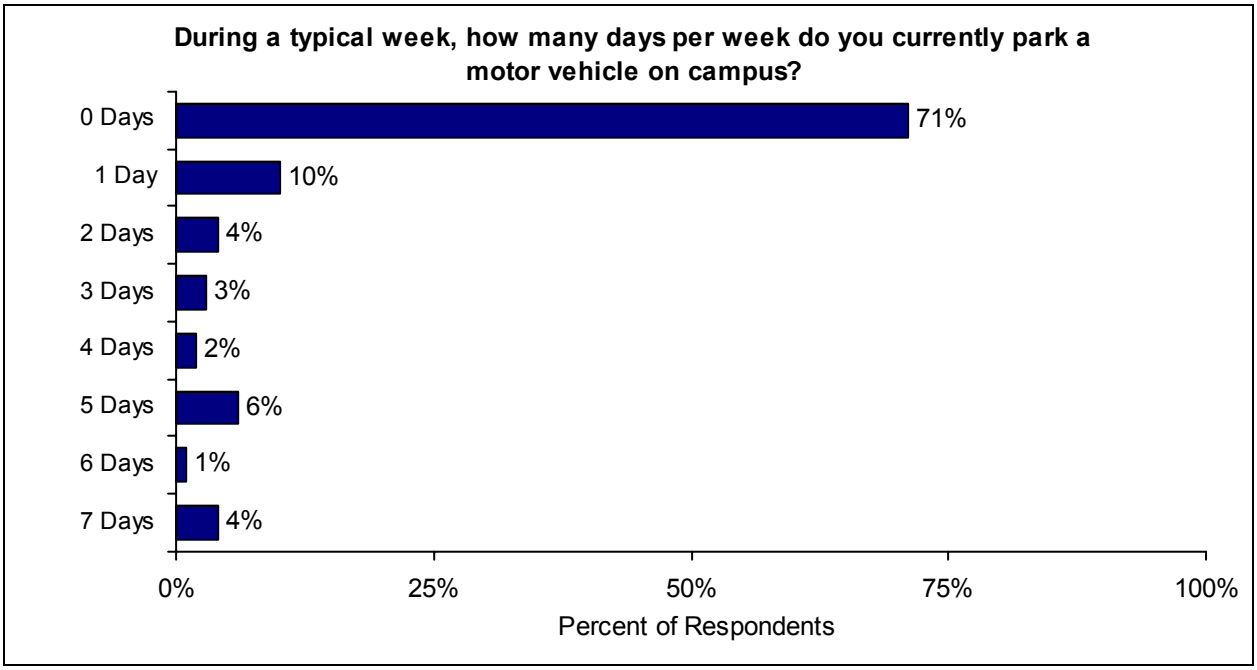

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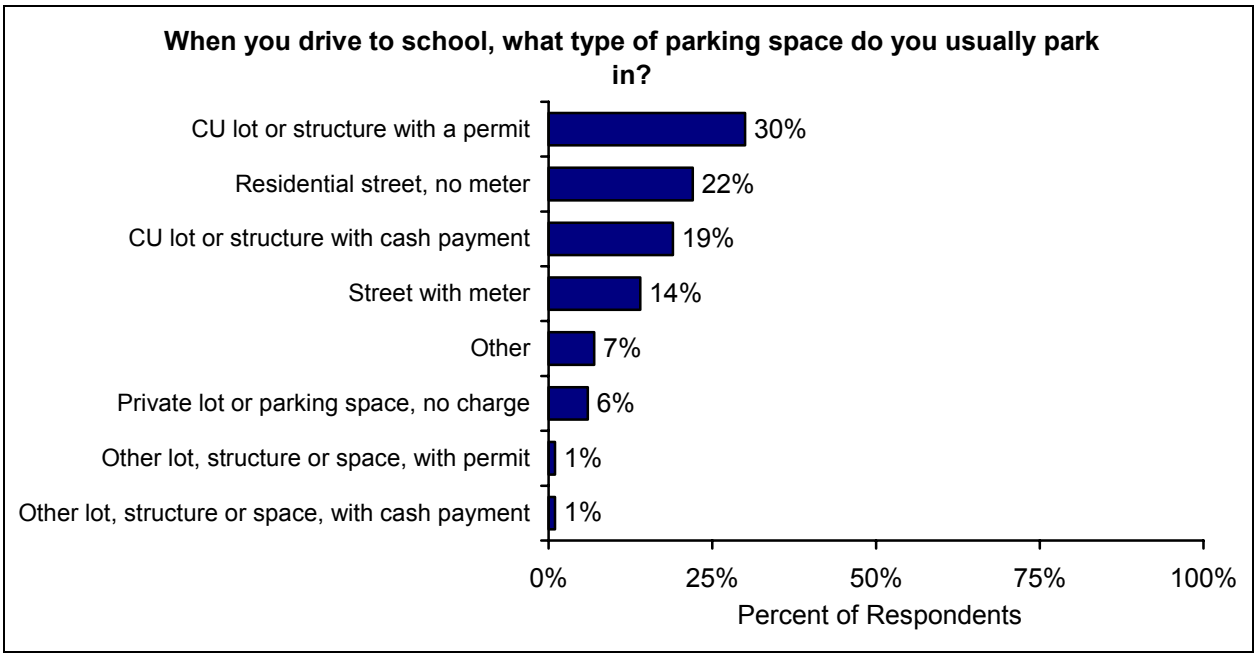
Students were then asked where they usually park when they drive to school. Thirty percent of students reported parking in a CU lot or structure with a permit, 22% reported parking on a residential street with no meter and 19% reported parking in a CU lot or structure with cash payment. Other lots, structures or space with a permit or cash payment were used the least (2%).



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Bus Use

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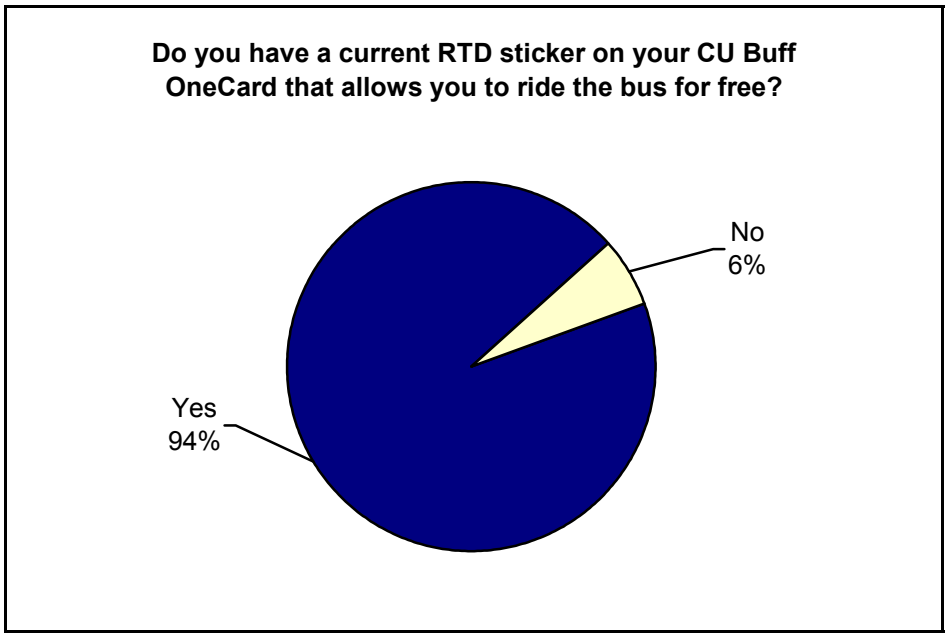

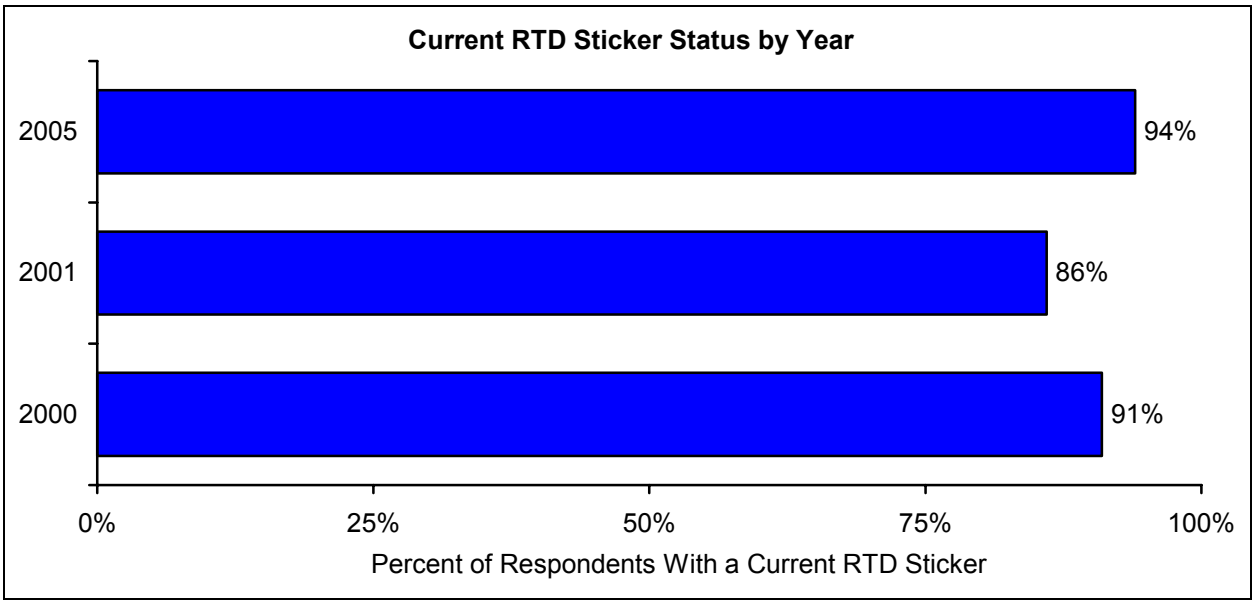

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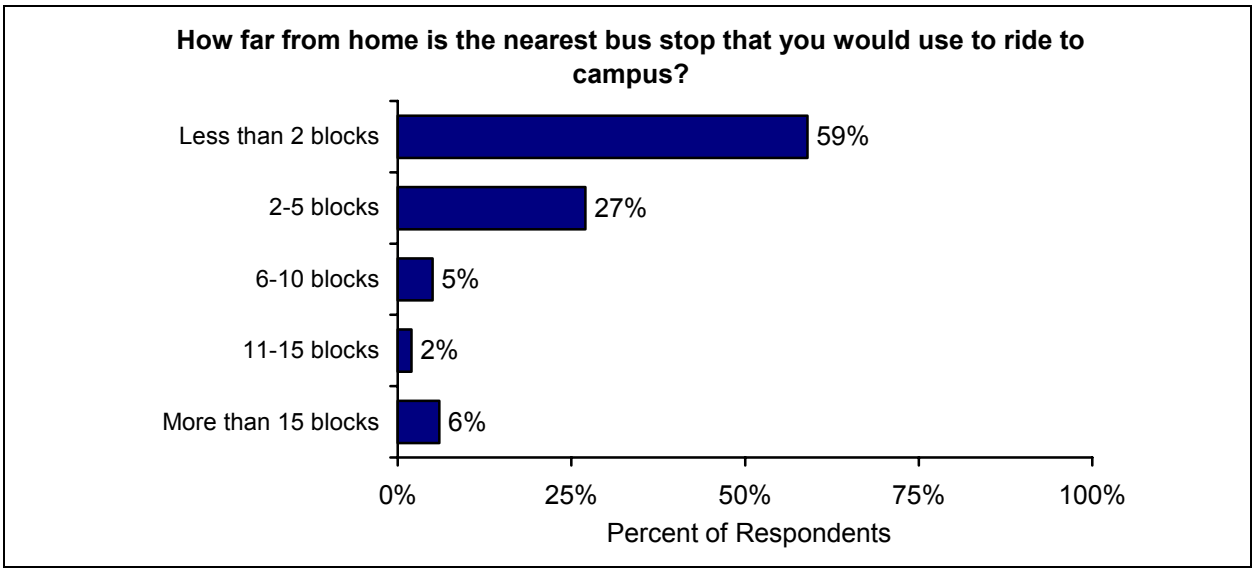
Survey participants were asked how far their home was from the nearest bus stop that they would use to ride to campus. Nearly 6 out of 10 reported living less than 2 blocks from a bus stop they would use to ride to campus, and 27% reported living 2-5 blocks away.



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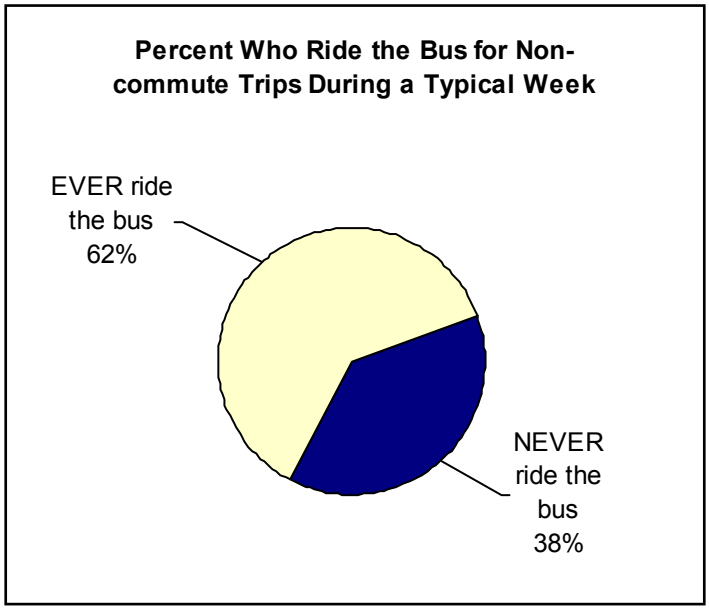
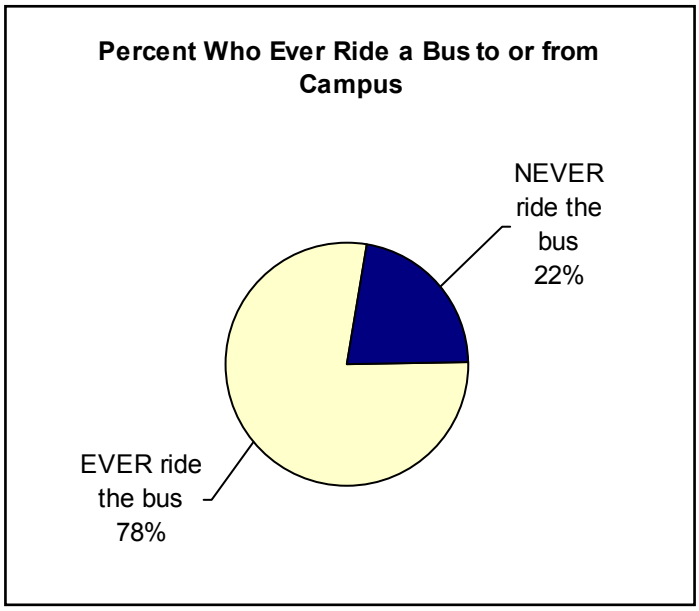
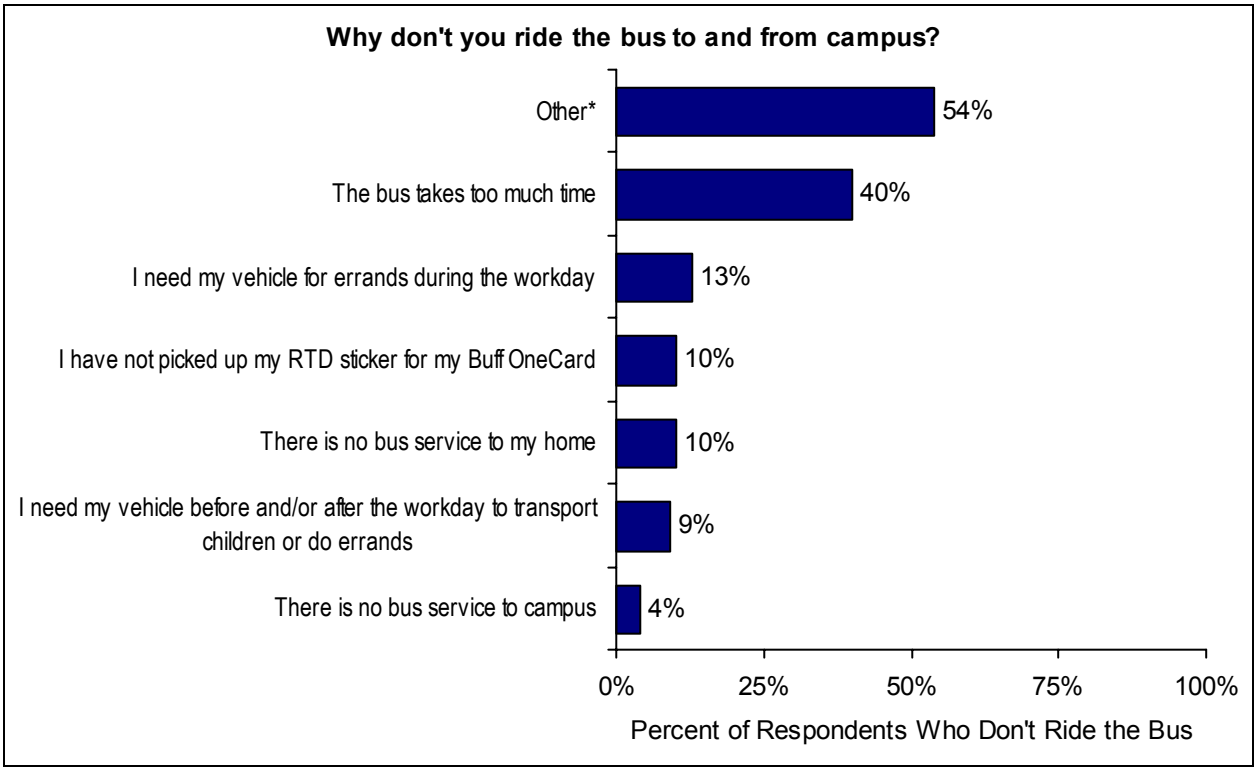
Approximately two-thirds (62%) of students surveyed reported riding the bus at least once during a typical week for reasons other than commuting to school, while just over a third (38%) said they typically do not ride the bus for non-commute trips. When asked about their bus use, nearly 80% of those surveyed said "yes" they do sometimes ride the bus to and from campus. Those who said they never rode the bus to campus were asked why they do not. "The bus takes too much time" (40%) was the most cited reason for not taking the bus.







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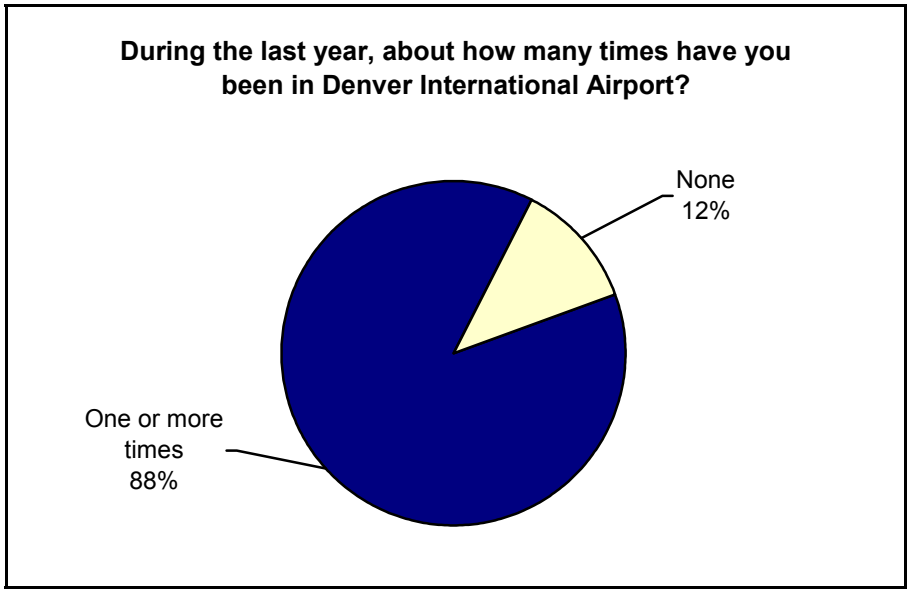
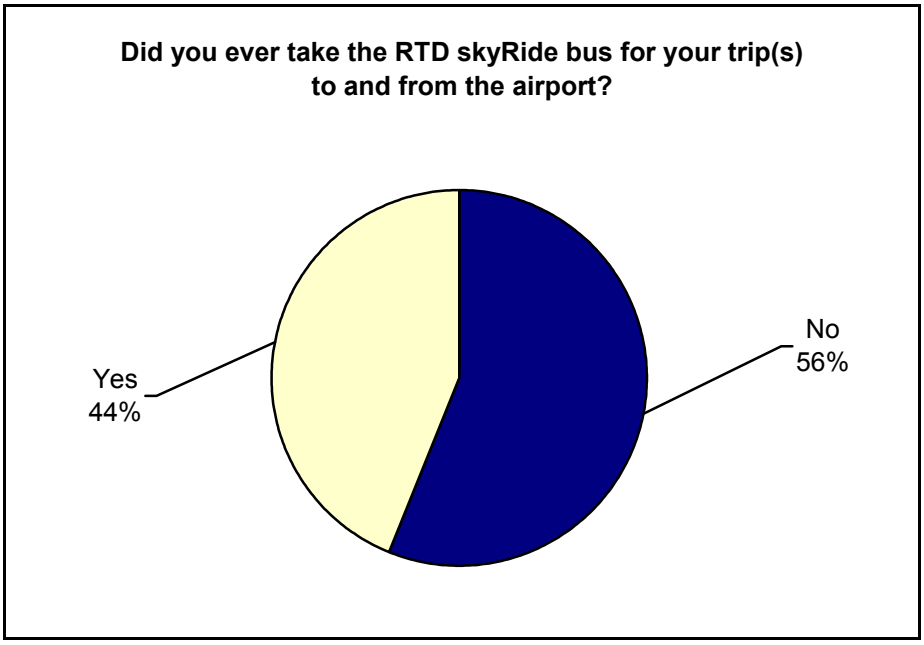
Those surveyed were asked if they had been to the Denver International Airport (DIA) in the last year, 88% reported they had been to DIA one or more times. Of those that had been to DIA, 44% reported using the RTD skyRide for a trip to and from the airport.





Percent of Respondents Going to DIA at Least Once in Past Year	88%
Average Number of Trips to DIA for ALL Respondents	4.84
Average Number of Trips to DIA for Respondents Who Went at Least Once	5.58
Average Number of Trips to DIA made via skyRide for Respondents Who Went at Least Once	4.28
Average Number of Trips to DIA made via skyRide for ALL Respondents	1.62

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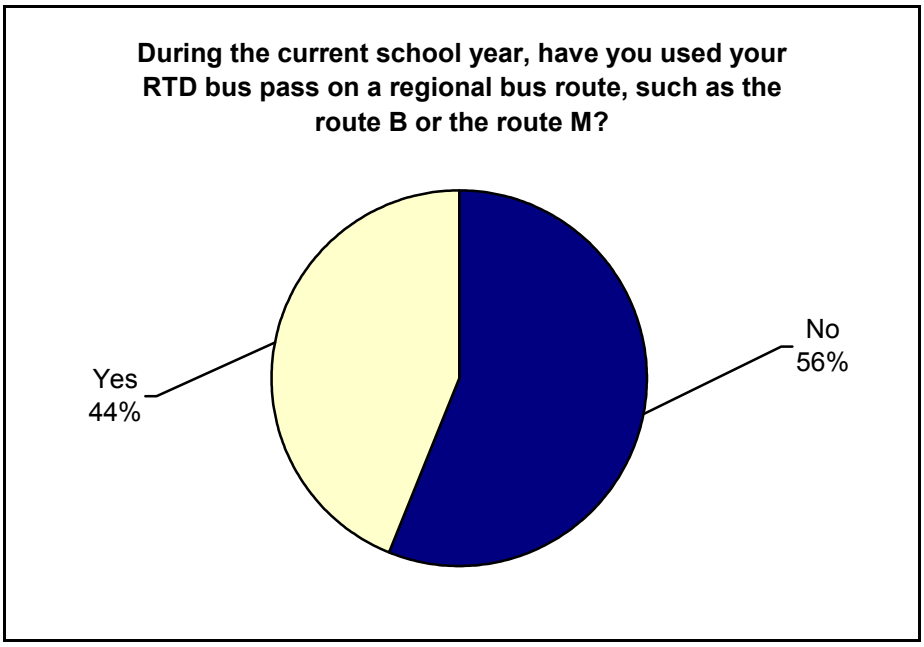
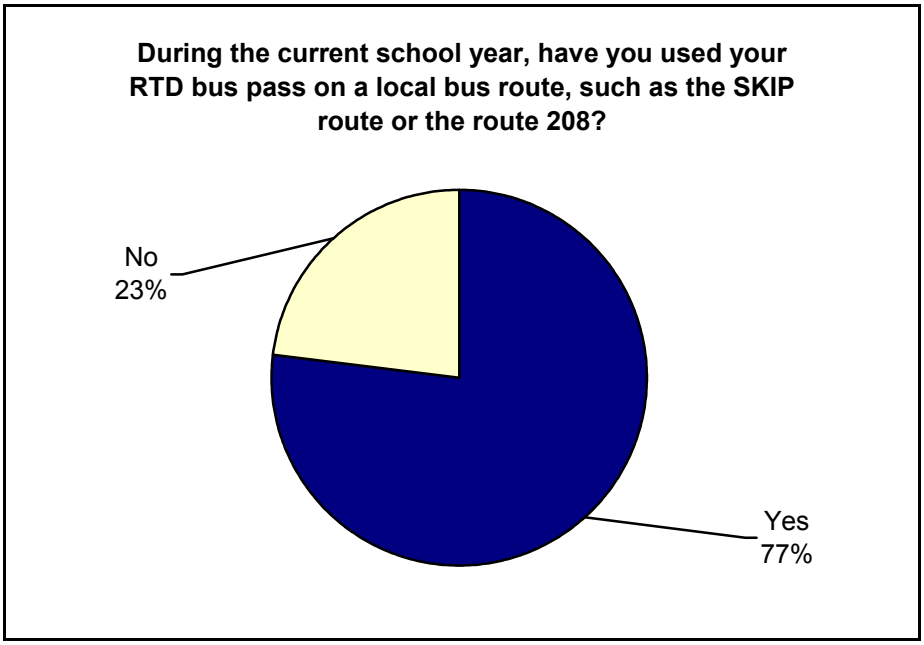
Less than half (44%) of the students that participated in the survey reported using a regional bus route during the current school year, while more than half (77%) reported using a local bus route during the current school year.





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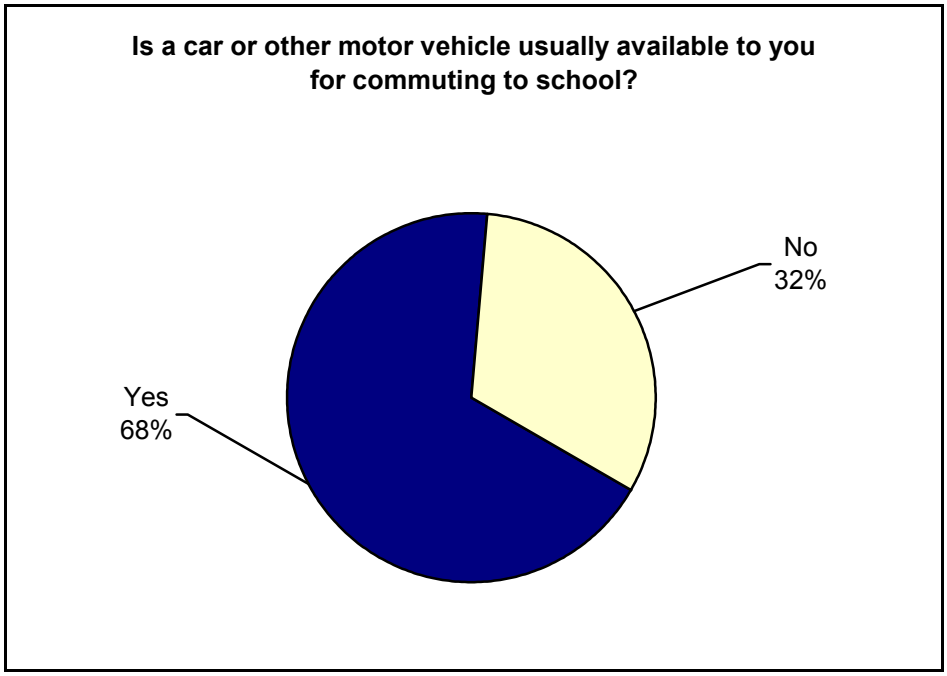
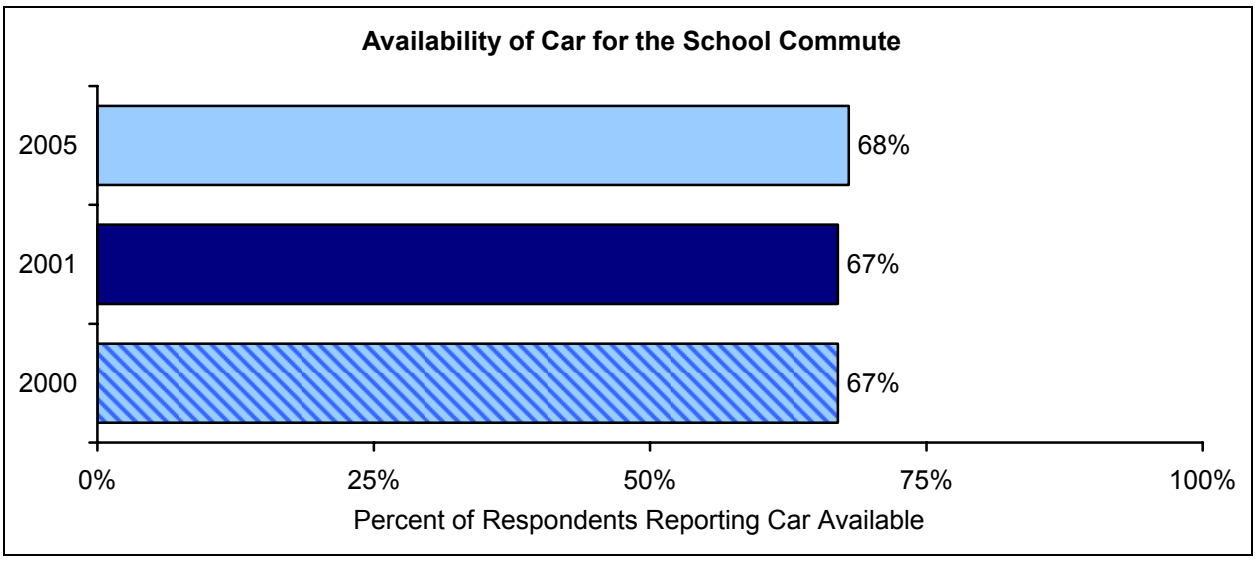
Available Transportation Options

Survey participants were asked to indicate if they had a car (or other motor vehicle) or bicycle available to them for commuting to school. Roughly two-thirds reported having a car or other motor vehicle (68%) or a bicycle (63%, see next page) available to them for the commute to school. Those reporting having a car or other motor vehicle available to them did not show a change from 2001 or 2000. Those reporting having a bicycle increased in 2005 (63%) compared to 2001 (52%, see the next page).





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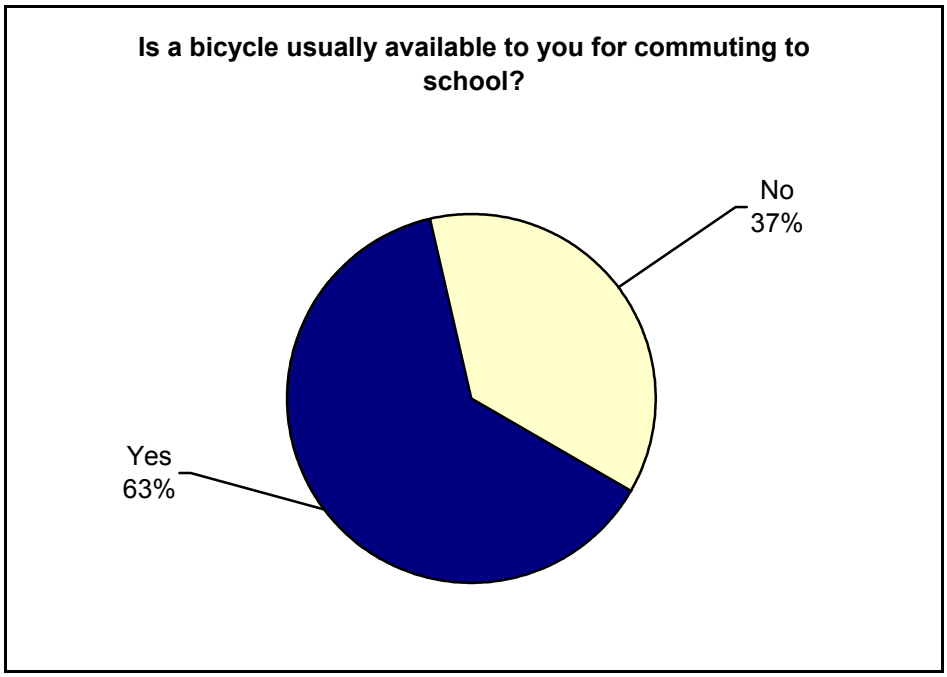

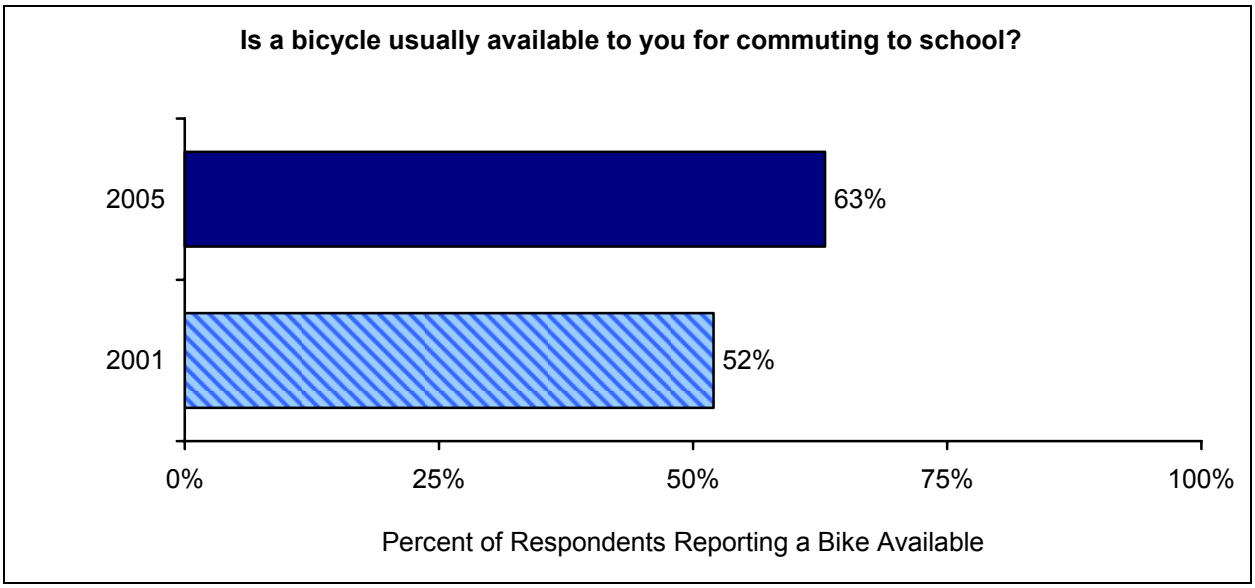

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Appendix A: Respondent Demographics

Characteristics of the survey respondents are displayed in the tables and charts on the following pages of this appendix.

Respondent's Class	
What class level are you?	**Percent of Respondents**
Freshman	24%
Sophomore	18%
Junior	20%
Senior	22%
Graduate student	16%
Total	100%

Respondent's Area of Residence	
Where do you live during the school year?	**Percent of Respondents**
Boulder (within the city limits)	82%
Unincorporated Boulder County	2%
Ward/Nederland/Jamestown	0%
Lyons	0%
Lafayette	1%
Louisville	2%
Longmont	2%
Erie	0%
Broomfield	2%
Westminster	2%
Arvada	1%
Denver or other metro-area suburb	2%
Berthoud/Loveland/Fort Collins	0%
Weld County	0%
Other	3%
Total	100%

Respondent's Tenure	
Do you rent or own your housing unit?	**Percent of Respondents**
Rent	63%
Own	12%
Live in a dormitory or fraternity or sorority	25%
Total	100%

Respondent's Gender	
What is your gender?	**Percent of Respondents**
Female	47%
Male	53%
Total	100%

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Appendix B: Complete Survey Responses

The following pages contain a complete set of responses to each question on the survey.

Question 1	
How did you get to work today?	Percent of Respondents*
Drove alone	13%
Drove with at least one other person	3%
Walked	34%
Biked	26%
Rode a bus or buses	36%
Worked at home	2%
Other	3%

Respondents may total more than 100% as respondents were allowed more than one response

Question 1	
How did you get to school today?	Percent of Respondents
Drove alone	10%
Drove with at least one other person	2%
Walked	24%
Biked	18%
Rode a bus or buses	26%
Multi-mode	15%
Worked at home	2%
Other	2%
Total	100%

Question 1e1	
Routes used for today's school commute	Percent of Respondents Reporting a Bus Route
BUFF BUS	18%
SKIP	15%
DASH	10%
HOP	10%
B	8%
STAMPEDE	8%
209	6%
204	4%
203	2%
205	2%
225	2%
AB	2%
BOUND	2%

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Question 1e1	
Routes used for today's school commute	Percent of Respondents Reporting a Bus Route
BX	2%
208	1%
BOLT	1%
DD	1%
G	1%
J	1%
JUMP	1%
10	0%
100X	0%
11	0%
120	0%
128	0%
15	0%
228	0%
32	0%
48	0%
6	0%
72X	0%
76	0%
83L	0%
B LOCAL	0%
BEAR CREEK	0%
BOULDER EXPRESS	0%
BOULDER LOCAL	0%
C	0%
DENVER LOCAL	0%
LIGHT RAIL	0%
LONG JUMP	0%
MALLRIDE	0%
N	0%
NEDERLAND	0%
O	0%
WILL VILL	0%
Total	100%

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Question 3	
About what time did you leave home for school today?*	Percent of respondents
0	0%
1	0%
3	0%
4	0%
5	0%
6	2%
7	27%
8	24%
9	20%
10	12%
11	5%
12	5%
13	2%
14	1%
15	1%
16	0%
17	0%
18	0%
20	0%
Total	100%

**Times are reported in military time at hour increments*

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Question 4	
Did you come straight to school from home today?	**Percent of respondents**
Yes	92%
No	8%
Total	100%

Question 4a	
	Average Number of Minutes*
About how many minutes did it take?	17

**Respondents only from those who reported yes to Question 4*

Question 4b	
	Average Number of Stops*
How many stops did you make on your way to school?	1

**Respondents only from those who reported no to Question 4*

Question 5	
Yesterday, or on the last day you went to campus, how many stops did you make on your way home?	**Percent of Respondents**
0	60%
1	19%
2	9%
3	5%
4	2%
5	2%
6	1%
7	0%
8	0%
9	0%
10	0%
11	0%
12	0%
15	0%
Total	100%

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Question 6	
About what time do you usually arrive at school?	Percent of Respondents*
1	0%
5	0%
6	0%
7	17%
8	26%
9	28%
10	14%
11	6%
12	5%
13	1%
14	0%
15	0%
16	0%
17	0%
18	0%
20	0%
21	0%
Total	100%

**Times are reported in military time at hour increments*

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Question 7	
About what time do you usually leave school?	Percent of Respondents*
0	0%
1	0%
3	0%
4	0%
6	0%
7	0%
8	0%
9	0%
10	1%
11	2%
12	6%
13	7%
14	11%
15	18%
16	16%
17	18%
18	9%
19	4%
20	2%
21	3%
22	1%
23	1%
Total	100%

**Times are reported in military time at hour increments*

Question 8	
During a typical week, how many days do you commute to school in each of the ways listed below?	Percent of Trips
Walk	27%
Ride a bus(es)	26%
Bike	21%
Drive alone	11%
Multi-mode (e.g., car then bus, bike then bus, etc.)	7%
Drive with at least one other person	3%
Work at home	2%
Other	1%

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Question 9	
If you ride a bus to get to and form school in a typical week, which routes do you use?	**Percent of Respondents Reporting a Bus Route**
SKIP	17%
HOP	13%
BUFF BUS	12%
DASH	10%
209	7%
STAMPEDE	7%
204	6%
B	6%
203	3%
AB	3%
BOUND	3%
205	2%
225	2%
BX	2%
BOLT	1%
DD	1%
G	1%
J	1%
JUMP	1%
1	0%
10	0%
100X	0%
11	0%
120	0%
128	0%
15	0%
2	0%
20-BX	0%
20	0%
206	0%
208	0%
210	0%
228	0%
32	0%
51	0%
6	0%
72X	0%
75	0%

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Question 9	
If you ride a bus to get to and form school in a typical week, which routes do you use?	**Percent of Respondents Reporting a Bus Route**
76	0%
83L	0%
A	0%
B EXPRESS	0%
B LOCAL	0%
BOULDER EXPRESS	0%
BOULDER LOCAL	0%
BOUND, HOP, STAMPEDE	0%
BX-20	0%
C	0%
CALL-AND-RIDE	0%
D	0%
DAG	0%
DAH	0%
DENVER LOCAL	0%
JOLT	0%
LIGHT RAIL	0%
LIGHT RAIL C LINE	0%
LONG JUMP	0%
N	0%
NEDERLAND BUS	0%
RIDE	0%
STAMPEDE, BOUND, SKIP	0%
WILL VILL	0%
Total	100%

Question 10	
Do you currently have a Boulder Campus parking permit?	**Percent of Respondents**
No	82%
Yes	18%
Total	100%

Question 10b	
How much do you pay per month for your permit?	
Average Amount of Money Spent per Month by Those Who Pay for a Permit	$43

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Question 11	
If you drove a car to school today, where did you park?	**Percent of Respondents**
CU lot or structure with a permit	10%
CU lot or structure with cash payment	3%
Other lot, structure or space, with permit	1%
Other lot, structure or space, with cash payment	0%
Private lot or parking space, no charge	1%
Street with meter	1%
Residential street, no meter	5%
Other	2%
I did not drive to school today	76%
Total	100%

Question 12	
During a typical week, how many days per week do you currently park a motor vehicle on campus?	**Percent of Respondents**
0 days	71%
1 day	10%
2 days	4%
3 days	3%
4 days	2%
5 days	6%
6 days	1%
7 days	4%
Total	100%

Question 13	
When you drive to school, what type of parking space do you usually park in?	**Percent of Respondents**
CU lot or structure with a permit	13%
CU lot or structure with cash payment	9%
Other lot, structure or space, with permit	1%
Other lot, structure or space, with cash payment	0%
Private lot or parking space, no charge	2%
Street with meter	6%
Residential street, no meter	10%
Other	3%
I do not usually drive to school	55%
Total	100%

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Question 14	
How far from your home is the nearest bus stop that you would use to ride to campus?	Percent of Respondents
Less than 2 blocks	55%
2 - 5 blocks	25%
6 - 10 blocks	5%
11 - 15 blocks	2%
More than 15 blocks	6%
Don't know	6%
Total	100%

Question 15	
Do you have a current RTD sticker on your CU Buff OneCard that allows you to ride the bus for free?	Percent of Respondents
Yes	94%
No	6%
Total	100%

Question 16	
Do you ever ride a bus to or from campus?	Percent of Respondents
Yes	78%
No	22%
Total	100%

Question 16a	
Why don't you ride the bus to and from campus?	Percent of respondents*
I have not picked up my RTD sticker for my Buff OneCard	10%
There is no bus service to campus	4%
There is no bus service to my home	10%
The bus takes too much time	40%
I need my vehicle for errands during the workday	13%
I need my vehicle before and/or after the workday to transport children or do errands	9%
Other	54%

**Respondents may total more than 100% as respondents were allowed more than one response.*

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Question 17	
During a typical week, how many one-way trips do you make on an RTD bus or Light Rail that are not for commuting to school but are for pleasure or personal business?	Average Number of One-Way Stops
	1

Question 18	
During the last year, about how many times have you been to Denver International Airport?	Percent of Respondents
None	12%
One or more times	88%
Total	100%

Question 18a	
About how many times did you go to and from the airport (one-way trips)?	Average Number of Trips by Those Who Had Been to the Airport in the Last Year
	6

Question 19	
Did you ever take the RTD skyRide bus for your trip(s) to and from the airport?	Percent of Respondents Who Had Been to the Airport in the Last Year
Yes	44%
No	56%
Total	100%

Question 19a	
For about how many one-way trips did you use this service?	Average Number of Trips to the Airport Using skyRide of Respondents Who Had Been to the Airport in the Last Year
	4

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Question 20	
During the current school year, have you used your RTD bus pass on a regional bus route, such as the route B or the route M?	**Percent of Respondents**
Yes	44%
No	56%
Total	100%

Question 21	
During the current school year, have you used your RTD bus pass on a local bus route, such as the SKIP route or the route 208?	**Percent of Respondents**
Yes	77%
No	23%
Total	100%

Question 22	
What one or two local RTD bus routes do you use most often?	**Percent of Respondents**
10	0%
11	0%
12	0%
120	0%
128	0%
15	0%
16	0%
1A	0%
2	0%
20, 32	0%
203	1%
203, 225	0%
203/215	0%
203/225	0%
204	4%
204, HOP	0%
205	1%
205/225	0%
206	0%
206,207 OR LEAP< SKIP< BOUND	0%
208	1%
208 TO SKIP	0%
209	4%
209, SKIP	0%

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Question 22	
What one or two local RTD bus routes do you use most often?	Percent of Respondents
21	0%
210	0%
211	0%
2225	0%
225	1%
225/203	0%
228	0%
28TH STREET	0%
32	0%
40	0%
40X	0%
51	0%
52	0%
6	0%
72X	0%
75	0%
76	0%
77	0%
79/83L	0%
83L	0%
A	0%
AB	2%
AB BUS TO DIA	0%
AB DIA	0%
AB I USE OFTEN	0%
AB/AB SKYRIDE STAPLETON	0%
ABX	0%
AIRPORT	0%
B-DENVER	0%
B	6%
B BOULDER/DENVER LOCAL	0%
B BUS	0%
B DENVER EXPRESS	0%
B DENVER LOCAL	0%
B EXPRESS	0%
B LINE	0%
B LINE TO DENVER	0%
B LOCAL	0%
B LOCAL EXPRESS	0%
B OR N	0%
B TO DENVER	0%

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Question 22	
What one or two local RTD bus routes do you use most often?	**Percent of Respondents**
B TO ROCKIES GAME	0%
B, DD	0%
B, SKIP	0%
B/B BOULDER/ DENVER	0%
B/BX	0%
B/BX/H	0%
BF	0%
BOLT	1%
BOLT WITH THE HOP	0%
BOULDER-DENVER	0%
BOULDER EXPRESS	0%
BOULDER LOCAL	0%
BOULDER STATION	0%
BOUNCE	0%
BOUND	5%
BROADWAY	0%
BROADWAY AND EUCLID TO PEARL ST.	0%
BUFF BUS	0%
BX	1%
BX TO/FROM BOULDER TO DENVER	0%
BX, B	0%
C, LIGHT RAIL	0%
C, SKIP, HOP	0%
CANYON BUS	0%
CU	0%
D	0%
DART (LONGMONT-BOULDER)	0%
DASH	8%
DASH OR 206	0%
DASH SKIP	0%
DASH/204	0%
DD	0%
DENVER- BOULDER	0%
DENVER	0%
DENVER LOCAL	0%
DENVER/BOULDER LOCAL	0%
DIA AB BUS	0%
DON'T KNOW NAMES	0%
DX	0%
ELDORA	0%
G	0%

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Question 22	
What one or two local RTD bus routes do you use most often?	**Percent of Respondents**
G IF AVAILABLE SBOUND 1030AM (NEED TO ADD ROUTE)	0%
HOP	22%
HOP OR SKIP	0%
HOP PEARL TO THE HILL	0%
HOP, SKIP & AB	0%
HOPE	0%
J	0%
J REGIONAL BUS FROM LONGMONT TO BOULDER	0%
JUMP	2%
JUMP/LONG JUMP	0%
JUST MOVED: NEDERLAND PARK-N-RIDE	0%
K	0%
LATE NIGHT HOP	0%
LIGHT RAIL	0%
LIGHT RAIL DOWN TOWN	0%
LIGHT RAIL DOWNTOWN	0%
LOCAL	0%
LONG JUMP	0%
M	0%
MALLRIDE IN DENVER ON 16TH STREET	0%
N	0%
N? ELDORA BUS	0%
N`	0%
NEDERLAND	0%
NIGHT HOP	0%
REGIONAL	0%
RIDE	0%
RTD	0%
SHIP	0%
SKIP-BROADWAY	0%
SKIP	28%
SKIP,DASH	0%
SKYRIDE	0%
SKYRIDE AB	0%
SPECIAL (FOR RACE FOR THE CURE)	0%
STAMP	0%
STAMPEDE	4%
STAMPEDE, SKIP	0%
STAMPEDE/209	0%
STAMPEDE/HOP	0%
THE BOUND	0%

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Question 22	
What one or two local RTD bus routes do you use most often?	**Percent of Respondents**
THE HOP	0%
THE JUMP	0%
THE ONE THAT IS GETS ME WHERE I NEED TO GO	0%
THE ONE THAT RUNS UP INTERLOCKEN LOOP	0%
THE SKIP	0%
THE STAMPEDE	0%
WHATEVER RUNS FROM FOLSOM TO CAMPUS	0%
XB	0%
Y BUS	0%
YES	0%
Total	100%

Question 23	
Is a car or other motor vehicle usually available to you for commuting to school?	**Percent of Respondents**
Yes	68%
No	32%
Total	100%

Question 24	
Is a bicycle usually available to you for commuting to school?	**Percent of Respondents**
Yes	63%
No	37%
Total	100%

Question 25	
What class level are you?	**Percent of Respondents**
Freshman	24%
Sophomore	18%
Junior	20%
Senior	22%
Graduate student	16%
Total	100%

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Question 26	
Where do you live during the school year?	**Percent of Respondents**
Boulder (within the city limits)	82%
Unincorporated Boulder County	2%
Ward/Nederland/Jamestown	0%
Lyons	0%
Lafayette	1%
Louisville	2%
Longmont	2%
Erie	0%
Broomfield	2%
Westminster	2%
Arvada	1%
Denver or other metro-area suburb	2%
Berthoud/Loveland/Fort Collins	0%
Weld County	0%
Other	3%
Total	100%

Question 29	
Do you rent or own your housing unit?	**Percent of Respondents**
Rent	63%
Own	12%
Live in a dormitory or fraternity or sorority	25%
Total	100%

Question 30	
What is your gender?	**Percent of Respondents**
Female	47%
Male	53%
Total	100%

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Appendix C: Responses to Selected Survey Questions by Respondent Characteristics

Respondent's Primary Mode of Transportation by Gender		
	What is your gender?	
	Female	Male
Drove alone	10%	10%
Drove with at least one other person	2%	2%
Walked	30%	19%
Biked	10%	25%
Rode a bus or buses	30%	23%
Multi-mode	16%	14%
Worked at home	2%	2%
Other	1%	4%
Total	100%	100%

Bus Use by Distance from Bus Stop					
Do you ever ride a bus to or from campus?	Less than 2 blocks	2 - 5 blocks	6 - 10 blocks	11 - 15 blocks	More than 15 blocks
Yes	82%	78%	75%	79%	76%
No	18%	22%	25%	21%	24%
Total	100%	100%	100%	100%	100%

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Appendix D: Survey Methodology

Survey Background

The University of Colorado conducted this survey in order to gauge the transportation habits of its students. This survey was part of a larger study undertaken to understand the school and work commute of Boulder's "daytime" population; that is, those who study at the University, or are employed within Boulder. Those who study or work in Boulder may or may not actually live in Boulder, and thus their travel behavior is not captured with the resident Travel Diary study.

This is the first time the University of Colorado has participated in the Boulder Valley Employee Transportation survey. This is the 7th iteration of the Boulder Valley Employee Transportation Survey since the baseline study conducted in 1991.

Survey Administration

All Boulder Campus CU Students are given an e-mail address through the University system. The Administration has the capability of sending "e-memos" to all students. It was determined that this would be a cost effective way to reach the student population, most of whom are quite versed in computer and Internet use. The CU Student Transportation Questionnaire was programmed as a web survey form, and hosted on the website of National Research Center, Inc., the company conducting the survey and analyzing the results. An e-memo explaining the survey purpose and containing a link to the survey site was sent by Administration, signed by Peter Roper, the student Transportation Program Manager at the University. The first invitation was sent the first week of October 2005. About two weeks later, a reminder e-memo was sent, asking those who had not yet completed the questionnaire to do so. Of the approximately 31,457 students contacted, 2,140 completed the survey, for a response rate of 6.8%.

It is customary to describe the precision of estimates made from surveys by a "level of confidence" (or margin of error). The 95 percent confidence level for the survey is generally no greater than plus or minus two percentage points around any given percent reported for the entire sample.

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Data Analysis

The data were imported from the webserver to an SPSS (Statistical Package for the Social Sciences) dataset, the application used to analyze the data. Respondent characteristics of the survey sample were compared to those for all CU Boulder students and were statistically adjusted to reflect the larger population when necessary. The results of the weighting scheme are presented in the following table.

For the most part, frequency distributions and mean ratings are presented in the body of the report. A complete set of frequencies for each survey question is presented in Appendix B: Complete Survey Responses.

Weighting Table

Characteristic	Percent in Population/Sample		
	Population Norm*	Unweighted Data	Weighted Data
Gender			
Female	47.0%	57.0%	47.0%
Male	53.0%	43.0%	53.0%
TOTAL	100.0%	100.0%	100.0%
Class			
Freshman	23.6%	11.9%	23.5%
Sophomore	18.5%	14.6%	18.5%
Junior	20.1%	19.2%	19.9%
Senior	22.3%	27.5%	22.4%
Graduate student	15.5%	26.9%	15.7%
TOTAL	100.0%	100.0%	100.0%

* From the Office of Planning, Budget and Analysis (http://www.colorado.edu/pba/records/)

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Appendix E: Survey Instrument

The following pages contain the questions used for the survey instrument. The actual format of the survey as taken by students was different, as the survey was programmed to be completed on the Internet.

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CU Student Travel Survey 2005

Please take a few minutes to complete the following questionnaire for the CU Transportation Office and the City of Boulder's Transportation Division.

All of your responses are completely confidential, and will be reported in group form only.

Today's Date:_____/_____/2005

School Commute

1. How did you get to school today? (Please check all that apply)
   - ❑ Drove alone
   - ❑ Drove with at least one other person →
     - how many others total? ..... _____
     - how many under 16 years old? ..... _____
   - ❑ Walked
   - ❑ Biked
   - ❑ Rode a bus or buses → Which route(s) did you use? (e.g., AB, SKIP, 208, etc) . _____ _____ _____
   - ❑ Worked at home
   - ❑ Other _____

2. About how far is your home from the campus? _____ *miles*

3. About what time did you leave home for school today? _____ AM/PM

4. Did you come straight to school from home today?
   - ❑ Yes → About how many minutes did it take? . _____ *min*
   - ❑ No → How many stops did you make on your way to school? ..... _____ *stops*

5. Yesterday, or on the last day you went to campus, how many stops did you make on your way home? _____ *stops*

6. About what time do you *usually* arrive at school? _____ AM/PM

7. About what time do you *usually* leave school? _____ AM/PM

8. During a typical week, how many days do you commute to school in each of the ways listed below?

   Drive alone..... _____

   Drive with at least one other person..... _____

   Multi-mode (e.g., car then bus, bike then bus, etc.)..... _____

   Walk..... _____

   Bike..... _____

   Ride a bus(es)..... _____

   Work at home..... _____

   Other..... _____

9. If you ride a bus to get to and from school in a typical week, which routes do you use? (e.g., AB, SKIP, 208, etc.)?

   Route(s) _____ _____ _____

Parking

10. Do you currently have a Boulder Campus parking permit?
    - ❑ no
    - ❑ yes → how much do you pay per month for your permit? .. $_____

11. If you drove a car to school today, where did you park?
    - ❑ CU lot or structure with a permit
    - ❑ CU lot or structure with cash payment
    - ❑ Other lot, structure or space, with permit
    - ❑ Other lot, structure or space, with cash payment
    - ❑ Private lot or parking space, no charge
    - ❑ Street with meter
    - ❑ Residential street, no meter
    - ❑ Other _____
    - ❑ I did not drive to school today

12. During a typical week, how many days per week do you currently park a motor vehicle on campus?

_____ *days*

13. When you drive to school, what type of parking space do you usually park in?
    - ❑ CU lot or structure with a permit
    - ❑ CU lot or structure with cash payment
    - ❑ Other lot, structure or space, with permit
    - ❑ Other lot, structure or space, with cash payment
    - ❑ Private lot or parking space, no charge
    - ❑ Street with meter
    - ❑ Residential street, no meter
    - ❑ Other _____
    - ❑ I don't usually drive to school

Transit

14. How far from your home is the nearest bus stop that you would use to ride to campus?
    - ❑ Less than 2 blocks
    - ❑ 2 – 5 blocks
    - ❑ 6 – 10 blocks
    - ❑ 11 – 15 blocks
    - ❑ More than 15 blocks
    - ❑ Don't know

15. Do you have a current RTD sticker on your CU Buff OneCard that allows you to ride the bus for free?
    - ❑ Yes ❑ No

16. Do you ever ride a bus to or from campus?
    - ❑ yes
    - ❑ no →

    Why don't you ride the bus to and from campus?
    - ❑ I have not picked up my RTD sticker for my Buff OneCard
    - ❑ There is no bus service to campus
    - ❑ There is no bus service to my home
    - ❑ The bus takes too much time
    - ❑ I need my vehicle for errands during the workday
    - ❑ I need my vehicle before and/or after the workday to transport children or do errands
    - ❑ Other _____

17. During a typical week, how many one-way trips do you make on an RTD bus or Light Rail that are not for commuting to school but are for pleasure or personal business?
    (A round trip counts as two one-way trips, although a transfer to another bus for the same trip does not count as another trip. Each time you went to a different location is one trip.)
    Record zero if no bus trips are taken during a typical week.

    _____ *one-way bus trips*

18. During the last year, about how many times have you been to Denver International Airport?
    - ❑ None → *go to question #20*
    - ❑ One or more times→

      About how many times did you go to ***and*** from the airport (one-way trips)?_____

19. Did you ever take the RTD skyRide bus for your trip(s) to and from the airport?
    - ❑ Yes→ For about how many one-way trips did you use this service?...._____
    - ❑ No

20. During the current school year, have you used your RTD bus pass on a regional bus route, such as the route B or the route M?
    - ❑ Yes ❑ No

21. During the current school year, have you used your RTD bus pass on a local bus route, such as the SKIP route or the route 208?
    - ❑ Yes ❑ No

22. What one or two local RTD bus routes do you use most often?

    _____ _____

About You

23. Is a car or other motor vehicle usually available to you for commuting to school?
    - ❑ Yes ❑ No

24. Is a bicycle usually available to you for commuting to school?
    - ❑ Yes ❑ No

25. What class level are you?
    - ❑ Freshman
    - ❑ Sophomore
    - ❑ Junior
    - ❑ Senior
    - ❑ Graduate student

26. Where do you live during the school year?
    - ❑ Boulder (within the city limits)
    - ❑ Unincorporated Boulder County
    - ❑ Ward/Nederland/Jamestown
    - ❑ Lyons
    - ❑ Lafayette
    - ❑ Louisville
    - ❑ Longmont
    - ❑ Erie
    - ❑ Broomfield
    - ❑ Westminster
    - ❑ Arvada
    - ❑ Denver or other metro-area suburb
    - ❑ Berthoud/Loveland/Fort Collins
    - ❑ Weld County
    - ❑ Other _____

27. What is your home zip code during the school year?

    _____

28. What is the intersection nearest to your home during the school year?

    _____ & _____

29. Do you rent or own your housing unit?
    - ❑ Rent
    - ❑ Own
    - ❑ Live in a dormitory or fraternity or sorority

30. What is your gender?
    - ❑ Female ❑ Male