

WESTERN TRANSPORTATION SURVEY

Winter 2018

SUMMARY: The Western Transportation Survey was created in 2010 as a joint effort between Western's Office of Sustainable Transportation and the Office of Survey Research (OSR). The survey has been administered periodically since 2010 to students as they complete their 2nd year as well as to graduating seniors. The current administration of the Western Transportation Survey began on January 26th 2018, when all reportable Western undergraduates were invited via email to complete the survey. Three reminder emails were sent to non-respondents over the next few weeks. Additionally, a sample of 1000 non-responders received phone call/text reminders to complete the survey. We concluded collecting responses on February 24th 2018. Out of the total sample of 13,779 students, we received responses from 4631 for a response rate of 33.6%.

RESPONDENT CHARACTERISTICS

	N respondents	%	N sample	%
Total	4631		13779	
On Campus housing	1409	30.4%	3851	27.9%
Male	1727	37.3%	6104	44.3%
Minority	1227	26.5%	3762	27.3%
Class Standing				
FR	782	16.9%	2224	16.1%
SO	932	20.1%	2736	19.9%
JR	1366	29.5%	3988	28.9%
SR	1551	33.5%	4831	35.1%

1. In an average week, how many days do you go to campus for classes or activities?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0	15	.3	.3	.3
	1	21	.5	.5	.8
	2	77	1.7	1.7	2.5
	3	274	5.9	6.0	8.5
	4	471	10.2	10.3	18.8
	5	2518	54.4	55.1	73.9
	6	703	15.2	15.4	89.3
	7	487	10.5	10.7	100.0
	Total	4566	98.6	100.0	
Missing	System	65	1.4		
Total		4631	100.0		

2. How many times do you leave campus and return during a typical day (example, leave for lunch or between classes)?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Never or rarely	2565	55.4	55.7	55.7
	Once a day	1483	32.0	32.2	87.9
	Twice a day	458	9.9	9.9	97.9
	More than twice a day	98	2.1	2.1	100.0
	Total	4604	99.4	100.0	
Missing	System	27	.6		
Total		4631	100.0		

3a. [Walk] How many days per week do you use each of the following methods to travel between your house, apartment, or residence hall and campus?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0	1005	21.7	24.5	24.5

	1	286	6.2	7.0	31.5
	2	282	6.1	6.9	38.3
	3	295	6.4	7.2	45.5
	4	249	5.4	6.1	51.6
	5	775	16.7	18.9	70.5
	6	234	5.1	5.7	76.2
	7	977	21.1	23.8	100.0
	Total	4103	88.6	100.0	
Missing	System	528	11.4		
Total		4631	100.0		

3b. [Bus] How many days per week do you use each of the following methods to travel between your house, apartment, or residence hall and campus?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0	1053	22.7	25.5	25.5
	1	378	8.2	9.2	34.7
	2	445	9.6	10.8	45.5
	3	488	10.5	11.8	57.3
	4	397	8.6	9.6	66.9
	5	917	19.8	22.2	89.1
	6	217	4.7	5.3	94.4
	7	232	5.0	5.6	100.0
	Total	4127	89.1	100.0	
Missing	System	504	10.9		
Total		4631	100.0		

3c. [Bicycle] How many days per week do you use each of the following methods to travel between your house, apartment, or residence hall and campus?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0	3102	67.0	88.3	88.3
	1	138	3.0	3.9	92.3

	2	82	1.8	2.3	94.6
	3	55	1.2	1.6	96.2
	4	37	.8	1.1	97.2
	5	51	1.1	1.5	98.7
	6	24	.5	.7	99.3
	7	23	.5	.7	100.0
	Total	3512	75.8	100.0	
Missing	System	1119	24.2		
Total		4631	100.0		

3d. [Drive alone to campus] How many days per week do you use each of the following methods to travel between your house, apartment, or residence hall and campus?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0	2356	50.9	61.7	61.7
	1	395	8.5	10.3	72.0
	2	268	5.8	7.0	79.1
	3	204	4.4	5.3	84.4
	4	132	2.9	3.5	87.9
	5	321	6.9	8.4	96.3
	6	73	1.6	1.9	98.2
	7	70	1.5	1.8	100.0
	Total	3819	82.5	100.0	
Missing	System	812	17.5		
Total		4631	100.0		

3e. [Drive alone to Park and Ride, then bus] How many days per week do you use each of the following methods to travel between your house, apartment, or residence hall and campus?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0	3122	67.4	89.0	89.0
	1	68	1.5	1.9	90.9
	2	50	1.1	1.4	92.4

	3	55	1.2	1.6	93.9
	4	43	.9	1.2	95.2
	5	142	3.1	4.0	99.2
	6	8	.2	.2	99.4
	7	20	.4	.6	100.0
	Total	3508	75.8	100.0	
Missing	System	1123	24.2		
Total		4631	100.0		

3f. [Drive with a passenger, or ride with a friend to campus] How many days per week do you use each of the following methods to travel between your house, apartment, or residence hall and campus?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0	2616	56.5	72.5	72.5
	1	442	9.5	12.3	84.8
	2	232	5.0	6.4	91.2
	3	142	3.1	3.9	95.2
	4	67	1.4	1.9	97.0
	5	69	1.5	1.9	98.9
	6	19	.4	.5	99.5
	7	19	.4	.5	100.0
	Total	3606	77.9	100.0	
Missing	System	1025	22.1		
Total		4631	100.0		

3g. [Drive with a passenger, or ride with a friend to Park and Ride, then bus] How many days per week do you use each of the following methods to travel between your house, apartment, or residence hall and campus?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0	3290	71.0	95.5	95.5
	1	71	1.5	2.1	97.5
	2	38	.8	1.1	98.6
	3	20	.4	.6	99.2
	4	6	.1	.2	99.4

	5	11	.2	.3	99.7
	6	2	.0	.1	99.8
	7	8	.2	.2	100.0
	Total	3446	74.4	100.0	
Missing	System	1185	25.6		
Total		4631	100.0		

3h. [Dropped off by someone not going to campus (e.g. Uber, Lyft, dropoff from carpool)] How many days per week do you use each of the following methods to travel between your house, apartment, or residence hall and campus?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0	3006	64.9	84.9	84.9
	1	283	6.1	8.0	92.9
	2	115	2.5	3.2	96.2
	3	67	1.4	1.9	98.1
	4	23	.5	.6	98.7
	5	29	.6	.8	99.5
	6	7	.2	.2	99.7
	7	10	.2	.3	100.0
	Total	3540	76.4	100.0	
Missing	System	1091	23.6		
Total		4631	100.0		

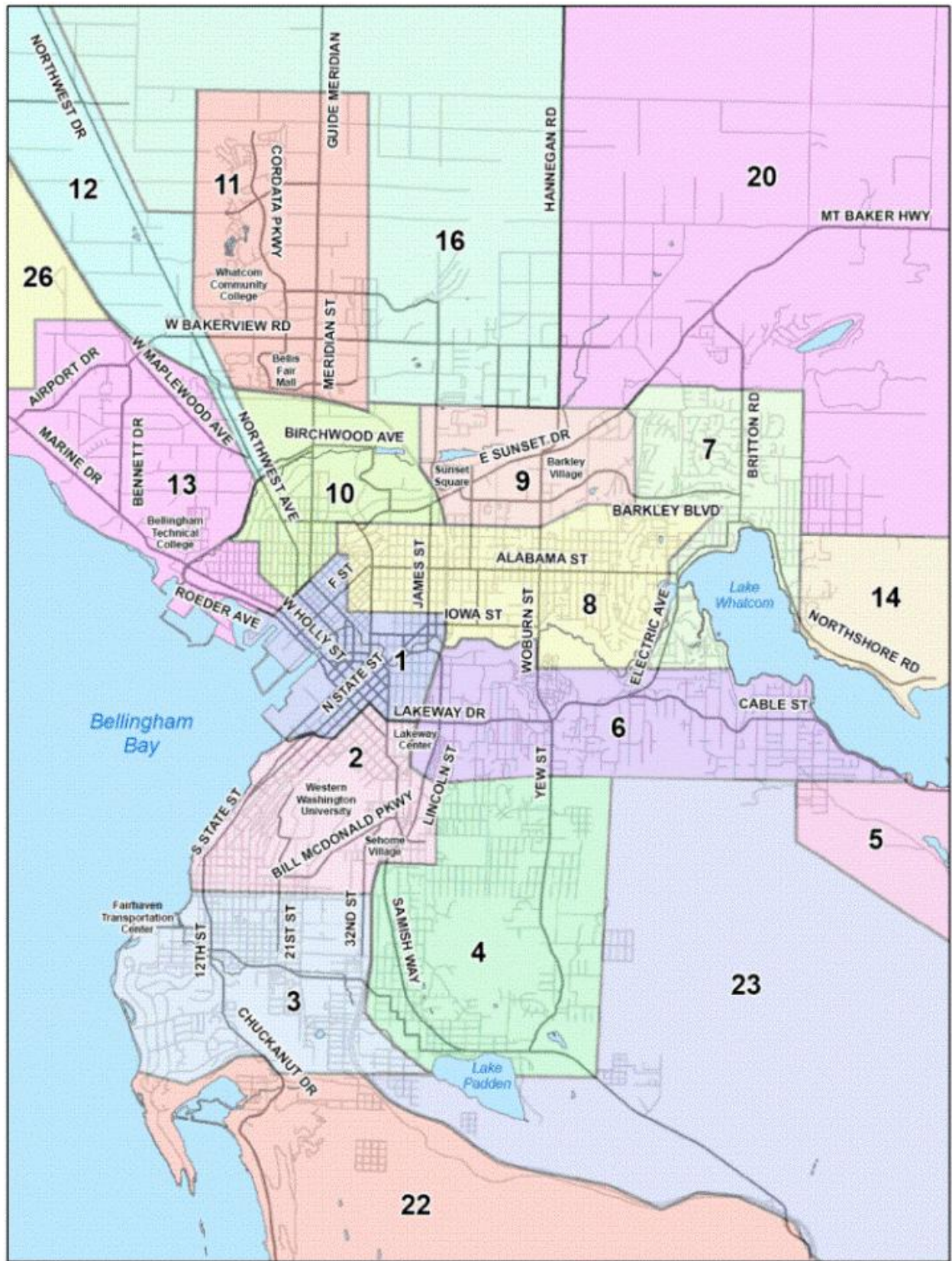
3i. [Other (skateboard, wheelchair, personal mobility device, etc.)] How many days per week do you use each of the following methods to travel between your house, apartment, or residence hall and campus?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0	3328	71.9	96.2	96.2
	1	59	1.3	1.7	97.9
	2	17	.4	.5	98.4
	3	18	.4	.5	99.0
	4	13	.3	.4	99.3
	5	10	.2	.3	99.6
	6	2	.0	.1	99.7

	7	11	.2	.3	100.0
	Total	3458	74.7	100.0	
Missing	System	1173	25.3		
Total		4631	100.0		

4. When attending Western, do you live within the area encompassed by the map below?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Yes	4152	89.7	90.6	90.6
	No	429	9.3	9.4	100.0
	Total	4581	98.9	100.0	
Missing	System	50	1.1		
Total		4631	100.0		



Note: See map on previous page.

5. Please select the number corresponding to the area in which you live while attending Western.

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1	552	11.9	13.5	13.5
	2	1876	40.5	45.9	59.4
	3	688	14.9	16.8	76.2
	4	161	3.5	3.9	80.1
	5	19	.4	.5	80.6
	6	286	6.2	7.0	87.6
	7	35	.8	.9	88.4
	8	165	3.6	4.0	92.5
	9	45	1.0	1.1	93.6
	10	66	1.4	1.6	95.2
	11	61	1.3	1.5	96.7
	12	24	.5	.6	97.3
	13	62	1.3	1.5	98.8
	14	4	.1	.1	98.9
	16	20	.4	.5	99.4
	20	11	.2	.3	99.6
	22	6	.1	.1	99.8
23	7	.2	.2	100.0	
26	2	.0	.0	100.0	
	Total	4090	88.3	100.0	
Missing	System	541	11.7		
Total		4631	100.0		

Note: Asked only of respondents who indicated in question #4 above that they did not live in the map area.

6. Where do you live while attending Western?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Everson, Nooksack, Sumas	22	.5	5.2	5.2
	Lynden, Laurel, Merdian north of Horton	49	1.1	11.6	16.8
	Ferndale	60	1.3	14.2	31.0
	Blaine, Birch Bay, Custer, Semiahmoo	37	.8	8.7	39.7
	Along Mount Baker Highway, east of McLeod	8	.2	1.9	41.6
	Acme, Wickersham, Van Zandt	2	.0	.5	42.1
	Marine Drive west of Airport Drive, Marietta	1	.0	.2	42.3
	Samish Way south of Yew Street	1	.0	.2	42.6
	Lake Samish area	4	.1	.9	43.5
	Chuckanut Drive south of Viewcrest	1	.0	.2	43.7
	unincorporated Whatcom County	17	.4	4.0	47.8
	British Columbia, Point Roberts	1	.0	.2	48.0
	Skagit County	101	2.2	23.9	71.9
	Island County	21	.5	5.0	76.8
	King County	11	.2	2.6	79.4
	Snohomish County	30	.6	7.1	86.5
	Other	55	1.2	13.0	99.5
	Sandy Point, Cherry Point	2	.0	.5	100.0
	Total	423	9.1	100.0	
Missing	System	4208	90.9		
Total		4631	100.0		

7. What is the approximate distance (one way) to campus from where you live while attending Western?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0	921	19.9	20.7	20.7
	1	1637	35.3	36.8	57.4
	2	751	16.2	16.9	74.3
	3	270	5.8	6.1	80.4
	4	125	2.7	2.8	83.2
	5	157	3.4	3.5	86.7
	6	66	1.4	1.5	88.2
	7	56	1.2	1.3	89.4
	8	37	.8	.8	90.3
	9	11	.2	.2	90.5
	10	53	1.1	1.2	91.7
	11-15	72	1.6	1.6	93.3
	16-20	69	1.5	1.5	94.9
	21-25	60	1.3	1.3	96.2
	26-30	67	1.4	1.5	97.7
	31+	102	2.2	2.3	100.0
		Total	4454	96.2	100.0
Missing	System	177	3.8		
	Total	4631	100.0		

8a. [Yes--a private car exclusively for my use] Do you have a car available for use in Bellingham?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not selected	1697	36.6	37.4	37.4
	Yes	2837	61.3	62.6	100.0
	Total	4534	97.9	100.0	
Missing	System	97	2.1		
	Total	4631	100.0		

8b. [Yes--I have access to zipcar or other shared car] Do you have a car available for use in Bellingham?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not selected	4462	96.4	98.4	98.4
	Yes	72	1.6	1.6	100.0
	Total	4534	97.9	100.0	
Missing	System	97	2.1		
Total		4631	100.0		

8c. [Yes--I can borrow a friend's or relative's car when I need] Do you have a car available for use in Bellingham?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not selected	4149	89.6	91.5	91.5
	Yes	385	8.3	8.5	100.0
	Total	4534	97.9	100.0	
Missing	System	97	2.1		
Total		4631	100.0		

8d. [No--I don't have access to a car] Do you have a car available for use in Bellingham?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not selected	3229	69.7	71.2	71.2
	Yes	1305	28.2	28.8	100.0
	Total	4534	97.9	100.0	
Missing	System	97	2.1		
Total		4631	100.0		

Note: Asked only of respondents who indicated in Questions #8 that they had a car available for use.

9. How often do you drive a car in Bellingham?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Never	82	1.8	2.6	2.6
	Rarely	321	6.9	10.1	12.7
	Several times a month	513	11.1	16.1	28.8
	Several times a week	1062	22.9	33.4	62.1
	Nearly every day	1206	26.0	37.9	100.0
	Total	3184	68.8	100.0	
Missing	System	1447	31.2		
Total		4631	100.0		

Note: Question 10a thru 103 asked only of respondents who indicated in Questions #8 that they had a car available for use.

10a. [Shopping or personal business (e.g. laundry)] How often do you use your car for the following types of trips?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Never	124	2.7	3.9	3.9
	Rarely	386	8.3	12.2	16.1
	Several times a month	1372	29.6	43.3	59.4
	Several times a week	1007	21.7	31.8	91.2
	Nearly every day	278	6.0	8.8	100.0
	Total	3167	68.4	100.0	
Missing	System	1464	31.6		
Total		4631	100.0		

10b. [Visit friends or relatives out of town] How often do you use your car for the following types of trips?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Never	339	7.3	10.9	10.9
	Rarely	1458	31.5	46.7	57.6
	Several times a month	1056	22.8	33.8	91.4
	Several times a week	196	4.2	6.3	97.7
	Nearly every day	71	1.5	2.3	100.0
	Total	3120	67.4	100.0	
Missing	System	1511	32.6		
Total		4631	100.0		

10c. [Go to work or internship] How often do you use your car for the following types of trips?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Never	1174	25.4	37.7	37.7
	Rarely	365	7.9	11.7	49.4
	Several times a month	291	6.3	9.3	58.7
	Several times a week	723	15.6	23.2	81.9
	Nearly every day	564	12.2	18.1	100.0
	Total	3117	67.3	100.0	
Missing	System	1514	32.7		
Total		4631	100.0		

10d. [Recreate outdoors i.e. go skiing or hiking] How often do you use your car for the following types of trips?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Never	641	13.8	20.5	20.5
	Rarely	1150	24.8	36.8	57.3
	Several times a month	1027	22.2	32.9	90.2
	Several times a week	230	5.0	7.4	97.6
	Nearly every day	76	1.6	2.4	100.0
	Total	3124	67.5	100.0	
Missing	System	1507	32.5		
Total		4631	100.0		

10e. [Entertainment i.e. go to movies, meals, or shows] How often do you use your car for the following types of trips?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Never	296	6.4	9.4	9.4
	Rarely	1058	22.8	33.7	43.1
	Several times a month	1341	29.0	42.7	85.9
	Several times a week	358	7.7	11.4	97.3
	Nearly every day	85	1.8	2.7	100.0
	Total	3138	67.8	100.0	
Missing	System	1493	32.2		
Total		4631	100.0		

Note: Question 11a thru 11f asked only of respondents who indicated in Questions #8 that they had a car available for use.

11a. [Better options for transportation home on weekends and holidays] What factors might allow you to not have a car while at Western?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not selected	2058	44.4	64.6	64.6
	Yes	1129	24.4	35.4	100.0
	Total	3187	68.8	100.0	
Missing	System	1444	31.2		
Total		4631	100.0		

11b. [More and lower cost car-sharing options like Zipcar] What factors might allow you to not have a car while at Western?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not selected	2766	59.7	86.8	86.8
	Yes	421	9.1	13.2	100.0
	Total	3187	68.8	100.0	
Missing	System	1444	31.2		
Total		4631	100.0		

11c. [More and lower cost ride-hailing options like Uber or Lyft] What factors might allow you to not have a car while at Western?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not selected	2585	55.8	81.1	81.1
	Yes	602	13.0	18.9	100.0
	Total	3187	68.8	100.0	
Missing	System	1444	31.2		
Total		4631	100.0		

11d. [Easier carpooling options] What factors might allow you to not have a car while at Western?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not selected	2517	54.4	79.0	79.0
	Yes	670	14.5	21.0	100.0
	Total	3187	68.8	100.0	
Missing	System	1444	31.2		
Total		4631	100.0		

11e. [Easy bike storage and inexpensive bike maintenance service] What factors might allow you to not have a car while at Western?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not selected	2805	60.6	88.0	88.0
	Yes	382	8.2	12.0	100.0
	Total	3187	68.8	100.0	
Missing	System	1444	31.2		
Total		4631	100.0		

**11f. [Nothing could convince me not to have a car while at Western]
What factors might allow you to not have a car while at Western?**

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not selected	1435	31.0	45.0	45.0
	Yes	1752	37.8	55.0	100.0
	Total	3187	68.8	100.0	
Missing	System	1444	31.2		
Total		4631	100.0		

Note: Asked only of respondents who indicated in Questions #8 that they had a car available for use.

12. How often do you drive to campus at night or on a weekend?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Never	774	16.7	24.4	24.4
	Rarely	957	20.7	30.1	54.5
	Several times a month	845	18.2	26.6	81.1
	Several times a week	496	10.7	15.6	96.7
	Nearly every day	106	2.3	3.3	100.0
	Total	3178	68.6	100.0	
Missing	System	1453	31.4		
Total		4631	100.0		

Note: Question 13a thru 13e asked only of respondents who indicated in Questions #8 that they had a car available for use.

13a. [Use a campus parking permit (C or G lot permit)] When you drive to campus at night or on weekends, how often do you...

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Never	1239	26.8	57.2	57.2
	Rarely	208	4.5	9.6	66.8
	Several times a month	239	5.2	11.0	77.9
	Several times a week	152	3.3	7.0	84.9
	Nearly every day	327	7.1	15.1	100.0
	Total	2165	46.8	100.0	
Missing	System	2466	53.2		
Total		4631	100.0		

13b. [Park in C lots] When you drive to campus at night or on weekends, how often do you...

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Never	459	9.9	20.8	20.8
	Rarely	511	11.0	23.2	44.0
	Several times a month	584	12.6	26.5	70.5
	Several times a week	336	7.3	15.2	85.8
	Nearly every day	314	6.8	14.2	100.0
	Total	2204	47.6	100.0	
Missing	System	2427	52.4		
Total		4631	100.0		

13c. [Park off campus] When you drive to campus at night or on weekends, how often do you...

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Never	1075	23.2	52.3	52.3
	Rarely	474	10.2	23.1	75.3
	Several times a month	242	5.2	11.8	87.1
	Several times a week	120	2.6	5.8	92.9
	Nearly every day	145	3.1	7.1	100.0
	Total	2056	44.4	100.0	
Missing	System	2575	55.6		
Total		4631	100.0		

13d. [Use bus pass in G lots] When you drive to campus at night or on weekends, how often do you...

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Never	1822	39.3	91.4	91.4
	Rarely	102	2.2	5.1	96.5
	Several times a month	33	.7	1.7	98.2
	Several times a week	22	.5	1.1	99.3
	Nearly every day	14	.3	.7	100.0
	Total	1993	43.0	100.0	
Missing	System	2638	57.0		
Total		4631	100.0		

13e. [Pay at meters or pay boxes] When you drive to campus at night or on weekends, how often do you...

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Never	1251	27.0	60.8	60.8
	Rarely	473	10.2	23.0	83.9
	Several times a month	222	4.8	10.8	94.6
	Several times a week	71	1.5	3.5	98.1
	Nearly every day	39	.8	1.9	100.0
	Total	2056	44.4	100.0	
Missing	System	2575	55.6		
Total		4631	100.0		

14. How often do you use the WWU Late Night Shuttle?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Never	2650	57.2	59.4	59.4
	Rarely	1295	28.0	29.0	88.4
	Several times a month	410	8.9	9.2	97.5
	Several times a week	89	1.9	2.0	99.5
	Nearly every day	21	.5	.5	100.0
	Total	4465	96.4	100.0	
Missing	System	166	3.6		
Total		4631	100.0		