

Burlington-Winooski Bridge

Travel Survey Results

Survey open for public response from 12/19/23 – 01/31/24



**BURLINGTON
WINOOSKI
BRIDGE**



March 21, 2024

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SUMMARY OF RESULTS

The Burlington-Winooski Travel Survey was conducted from December 19, 2023, to January 31, 2024, resulting in 858 participants who submitted information on their travel habits over the bridge and other related input such as comfort levels, transportation modes, and the frequency of use. The survey link was distributed through various electronic channels, social media, project-related emails, and by other project collaborators such as locally based large employers. The following is a summary of the data collected from the survey, and the detailed results of the survey are included in the attached appendix and referenced below.

The survey's first question, employing a multiple-choice format, required participants to identify their travel modes over the bridge. Subsequent questions were then presented based upon their selected modes of travel, enabling data gathering on the frequency and reasons for bridge usage. However, questions about existing width of vehicle travel lanes and sidewalks, and identifying information (e.g., participants zip code and representation) were universal, aiming to gather broad perspectives from all participants.

The survey resulted in the following findings:

- The survey reached 858 people from 34 Vermont zip codes plus five zip codes outside of Vermont. 92% of the respondents were located in Chittenden County, Vermont (*Table 25*).
- Approximately 39% of participants in the survey responded that they cross the bridge for recreation or other social opportunities, 32% to access shopping or other personal services, 19% for commuting to work (*Tables 11-17*).
- The top modes of transportation used to cross the bridge were driving a personal vehicle, bicycling, and walking, in the following percentages (*Figure 1*):
 - 94% personal vehicle
 - 39% walk
 - 28% bicycle
 - 16% public transit
- The majority of the participants answered they cross the bridge in frequency from one to five times per week (*Figures 1-8*).
- The majority of participants who answered they cross the bridge 11 or more times per week are doing so in a personal vehicle (*Table 4*).
- Participants who drive over the bridge indicated the following regarding the existing vehicle travel lane width (*Table 8*):
 - 50% indicated the vehicle travel lanes are too narrow.
 - 45% indicated the vehicle travel lanes are just right.
 - 3% indicated the vehicle travel lanes are too wide.
- Participants who bike over the bridge using the vehicle travel lanes indicated that the existing travel lane widths are (*Table 9*):
 - 67% indicated the vehicle lanes are too narrow.
 - 6% indicated the vehicle lanes are just right.
 - 5% indicated the vehicle lanes are too wide.
- Participants who walk and/or bike over the bridge using the existing sidewalks, selected the following when asked what they think of the width of the sidewalks (*Figure 11*).
 - 81% responded the sidewalks are too narrow.
 - 13% responded the sidewalks are just right.
 - 2% responded the sidewalks are too wide.

MODES OF TRANSPORTATION

The first question in the survey focused on what mode(s) of transportation are used to cross the bridge. The primary mode of transportation used to cross the bridge by survey participants was indicated to be a personal vehicle. As the predominant choice, 48% of all survey participants opted for personal vehicles as their only mode of transportation, 12% chose a combination of walking and personal vehicle, and 9% chose walking, biking, and personal vehicle (*Table 24*). The data allows us to look more closely at how specific modes of transportation are being utilized to cross the bridge.

Personal Vehicle Results:

- 93% selected personal vehicle as one of their modes of transportation. 51% of the 805 participants who selected personal vehicle, selected it as their only mode of transportation (*Table 18*).

Bike Results:

- 240 individuals identified bikes as one of their modes of transportation. 95% of bike users utilize other modes of transportation, while 5% of the 240 bike users responded that a bike was their only mode of transportation (*Table 19*).

Electric Bike Results:

- 62 individuals reported using electric bikes. 4% responded that an electric bike was their only mode of transportation (*Table 20*).

Walking Results:

- 39% selected walking as one of their modes of transportation to cross the bridge. Among these participants, 2% responded that walking was their only mode of transportation (*Table 21*).

Public Transit Results:

- 136 individuals selected public transit as one of their modes of transportation. Among these participants, 4% responded that public transit was their only mode of transportation (*Table 22*).

Non-Vehicle Results:

- Non-vehicle users are individuals who did not select personal vehicle when asked for their mode of transportation. Of the 858 participants, 6% did not select personal vehicle as one of their modes of transportation (*Table 23*). The majority of non-vehicle users selected bike or a combination of walk, bike, public transit, electric bike and rideshare (*Table 24*).

APPENDIX: DETAILED RESULTS

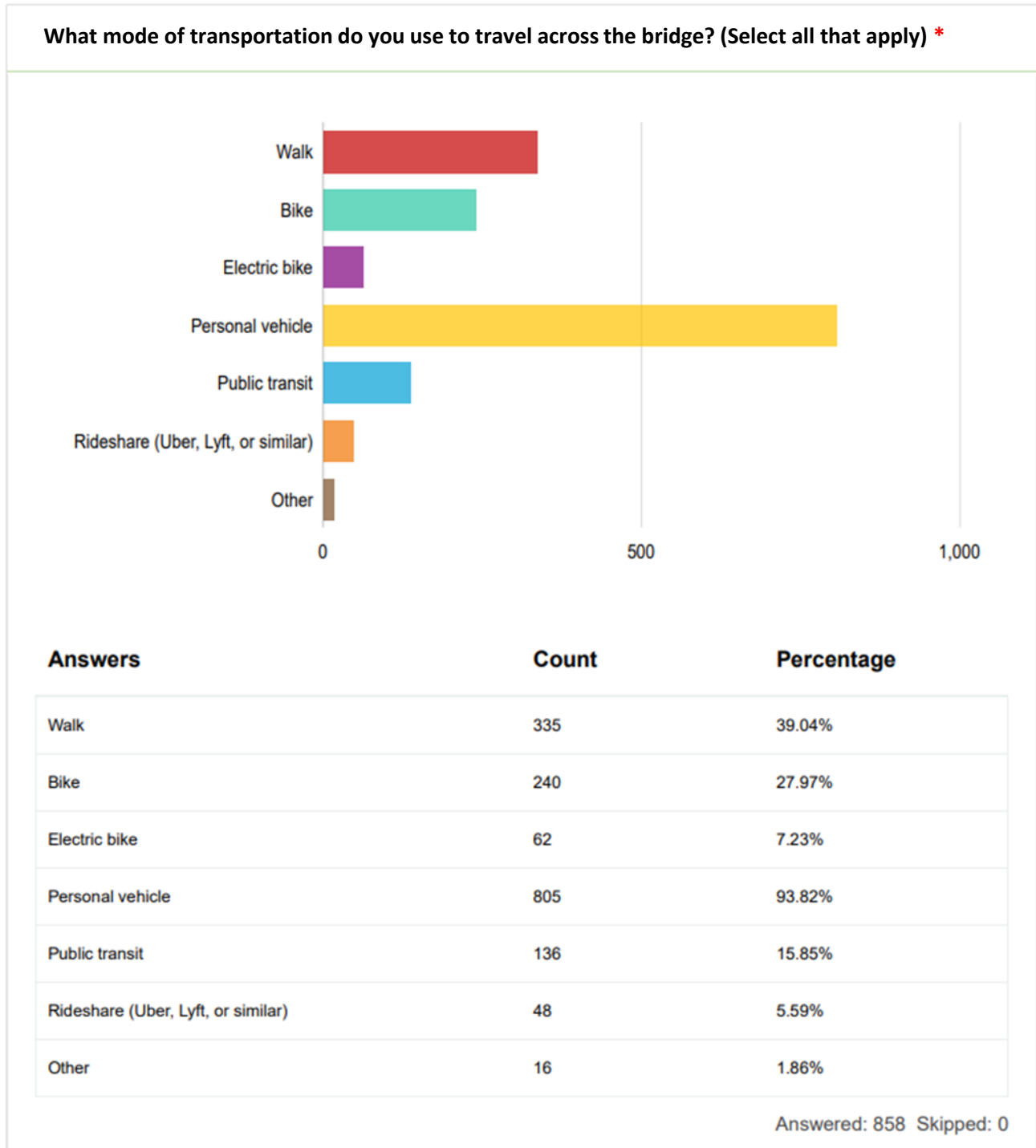


Figure 1. What mode of transportation do you use to cross the bridge results.

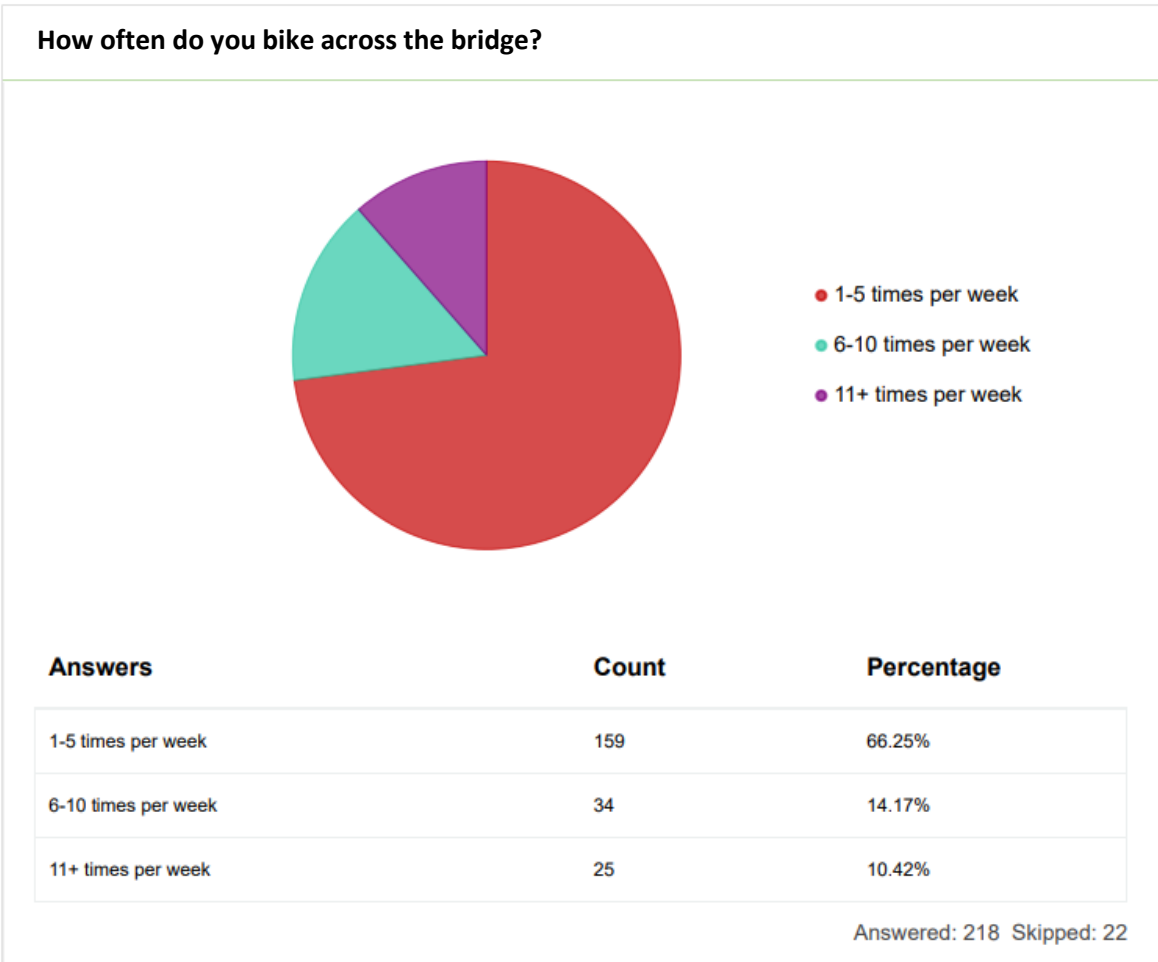


Figure 2. How often participants bike across the bridge results based on the total number of participants who selected bike as a mode of transportation, including participants who chose not to answer this question.

Table 1. How often participants bike across the bridge results based on the total number of participants who answered the question.

How often do you bike across the bridge?		
Answer	Result (Bike only)	Result (Bike + other modes selected)
1-5 times per week	6 (50%)	159 (73%)
6-10 times per week	4 (33%)	34 (15%)
11+ times per week	2 (16%)	25 (11%)
Total	12	218

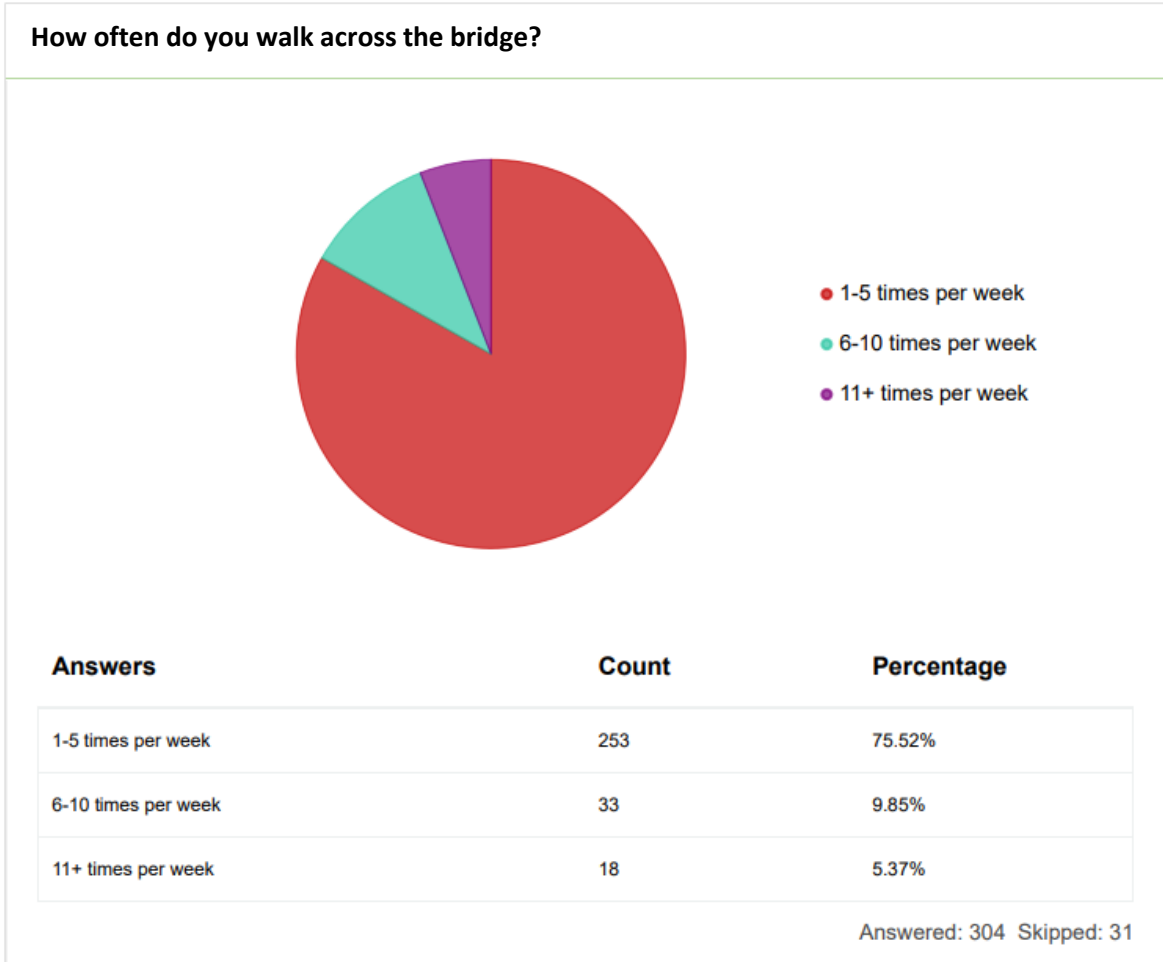


Figure 3. How often participants walk across the bridge results based on the total number of participants who selected walk as a mode of transportation, including participants who selected walk and chose not to answer this question.

Table 2. How often participants walk across the bridge results based on the total number of participants who answered the question.

How often do you walk across the bridge?		
Answer	Result (Walk only)	Result (Walk + other modes selected)
1-5 times per week	2 (40%)	253 (83%)
6-10 times per week	2 (40%)	33 (11%)
11+ times per week	1 (20%)	18 (6%)
Total	5	304

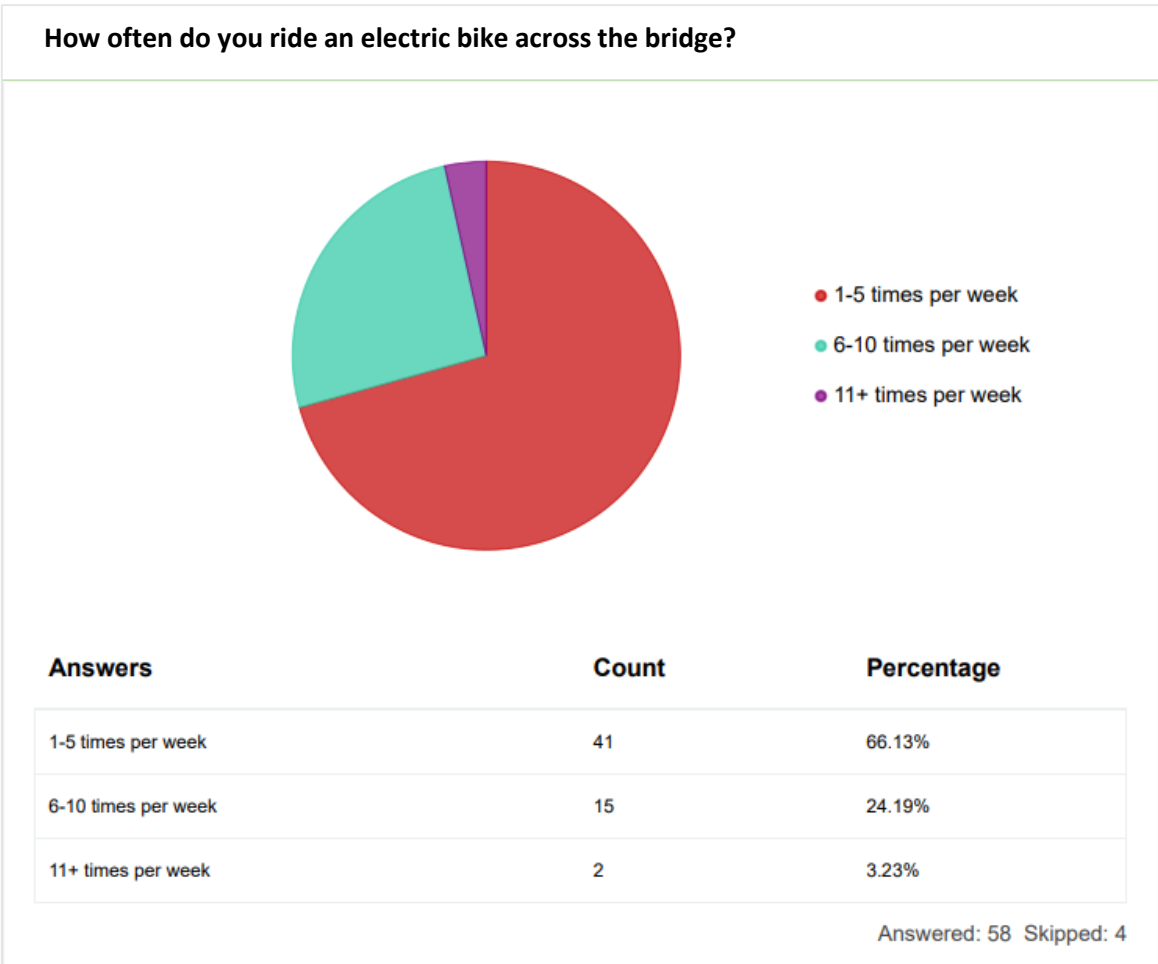


Figure 4. How often participants ride an electric bike across the bridge results based on the total number of participants who selected electric bike as a mode of transportation, including participants who selected electric bike and chose not to answer this question.

Table 3. How often participants ride an electric bike across the bridge results based on the total number of participants who answered the question.

How often do you ride an electric bike across the bridge?		
Answer	Result (Electric Bike only)	Result (Electric bike + other modes selected)
1-5 times per week	1 (33%)	41 (71%)
6-10 times per week	2 (67%)	15 (26%)
11+ times per week	0	2 (3%)
Total	3	58

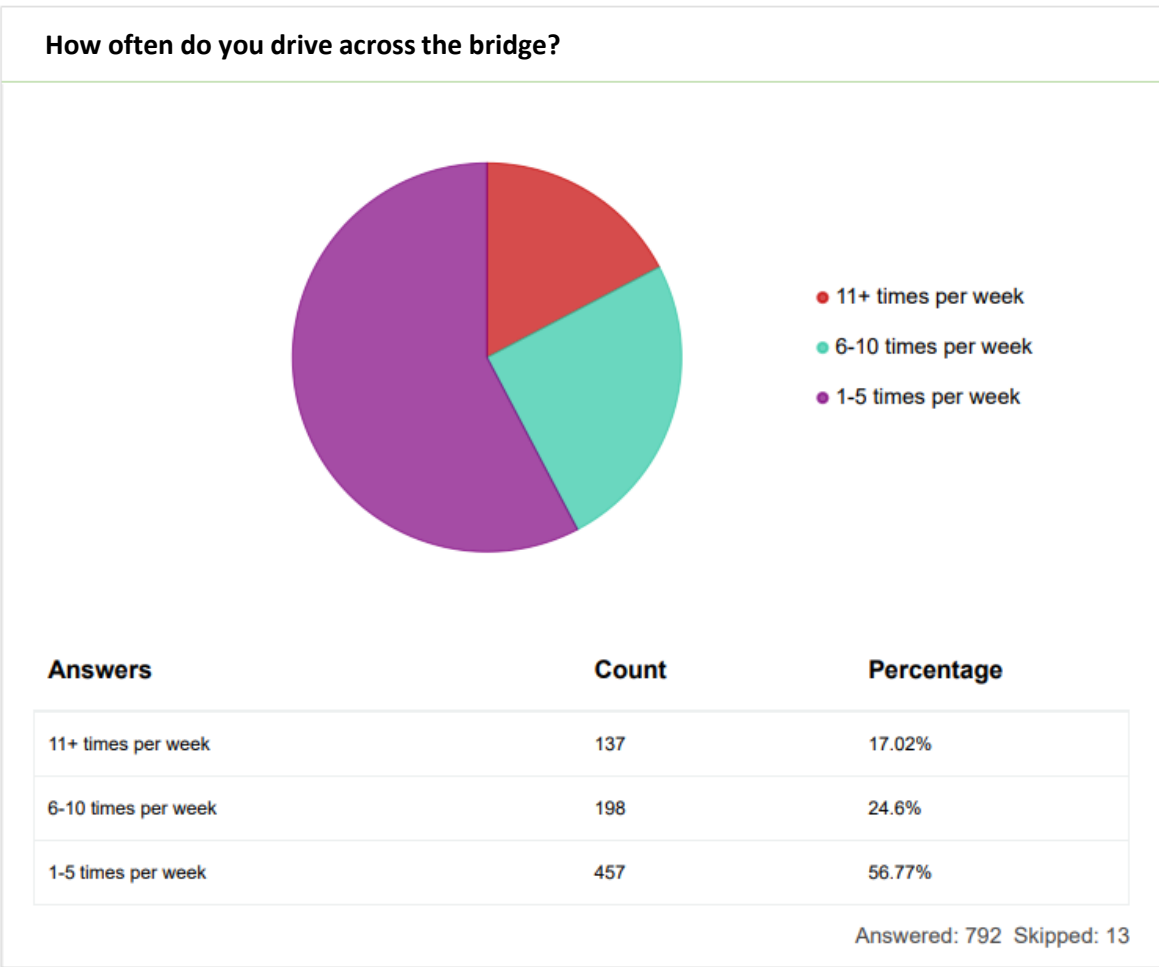


Figure 5. How often participants drive across the bridge results based on the total number of participants who selected personal vehicle as a mode of transportation, including participants who selected personal vehicle and chose not to answer this question.

Table 4. How often participants drive across the bridge results based on the total number of participants who answered the question.

How often do you drive across the bridge?		
Answer	Result (Drive only)	Result (Drive + other modes selected)
1-5 times per week	268 (66%)	457 (58%)
6-10 times per week	85 (21%)	198 (25%)
11+ times per week	51 (13%)	137 (17%)
Total	404	792

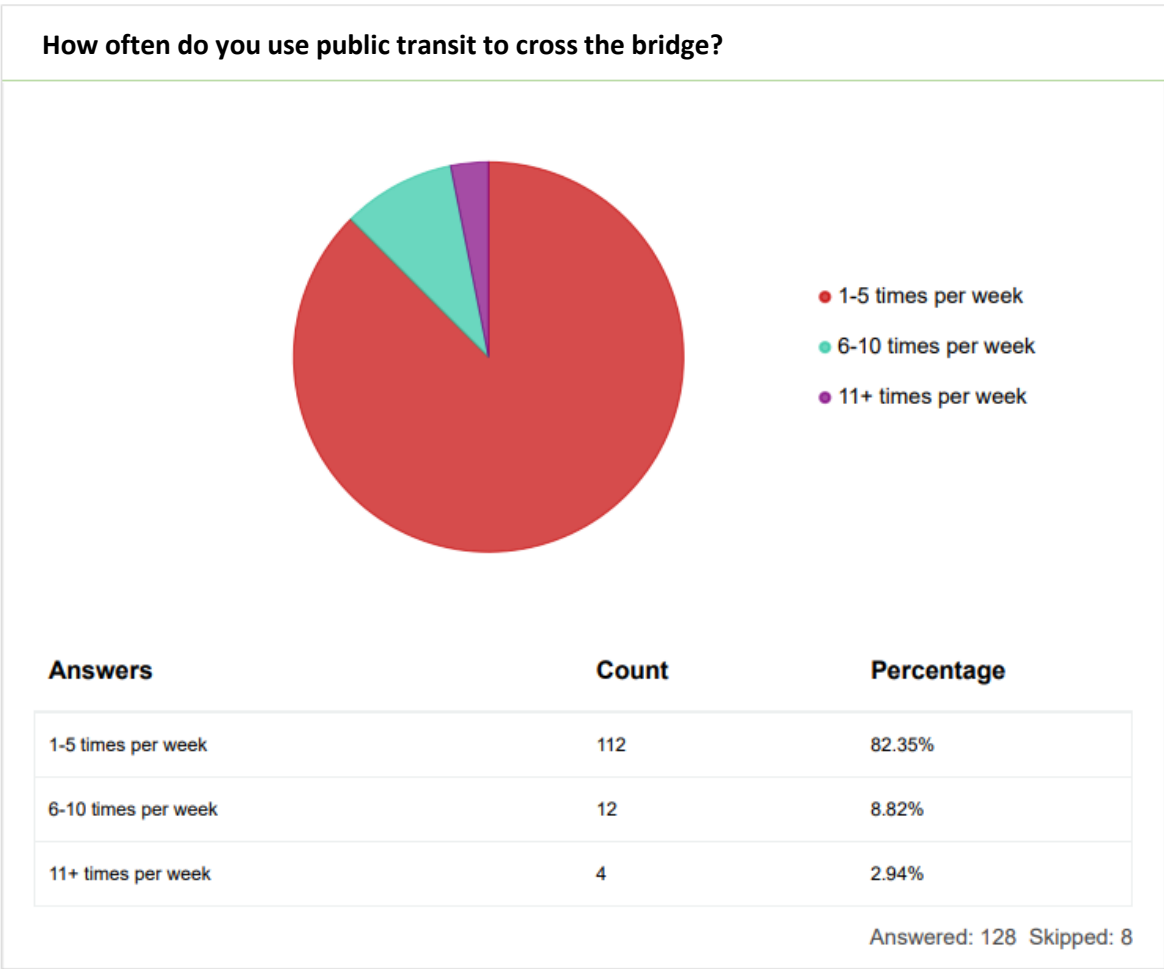


Figure 6. How often participants use public transit to cross the bridge results based on the total number of participants who selected public transit as a mode of transportation, including participants who selected public transit and chose not to answer this question.

Table 5. How often participants use public transit across the bridge results based on the total number of participants who answered the question.

How often do you use public transit to cross the bridge?		
Answer	Result (Public transit only)	Result (Public transit + other modes selected)
1-5 times per week	1 (20%)	112 (88%)
6-10 times per week	2 (40%)	12 (9%)
11+ times per week	2 (40%)	4 (3%)
Total	5	128



Figure 7. How often participants use rideshare to cross the bridge results based on the total number of participants who selected rideshare as a mode of transportation, including participants who selected rideshare and chose not to answer this question.

Table 6. How often participants use rideshare to cross the bridge results based on the total number of participants who answered the question.

How often do you use rideshare to cross the bridge?		
Answer	Result (Rideshare only)	Result (Rideshare + other modes selected)
1-5 times per week	0	40 (98%)
6-10 times per week	0	1 (2%)
11+ times per week	0	0
Total	0	41

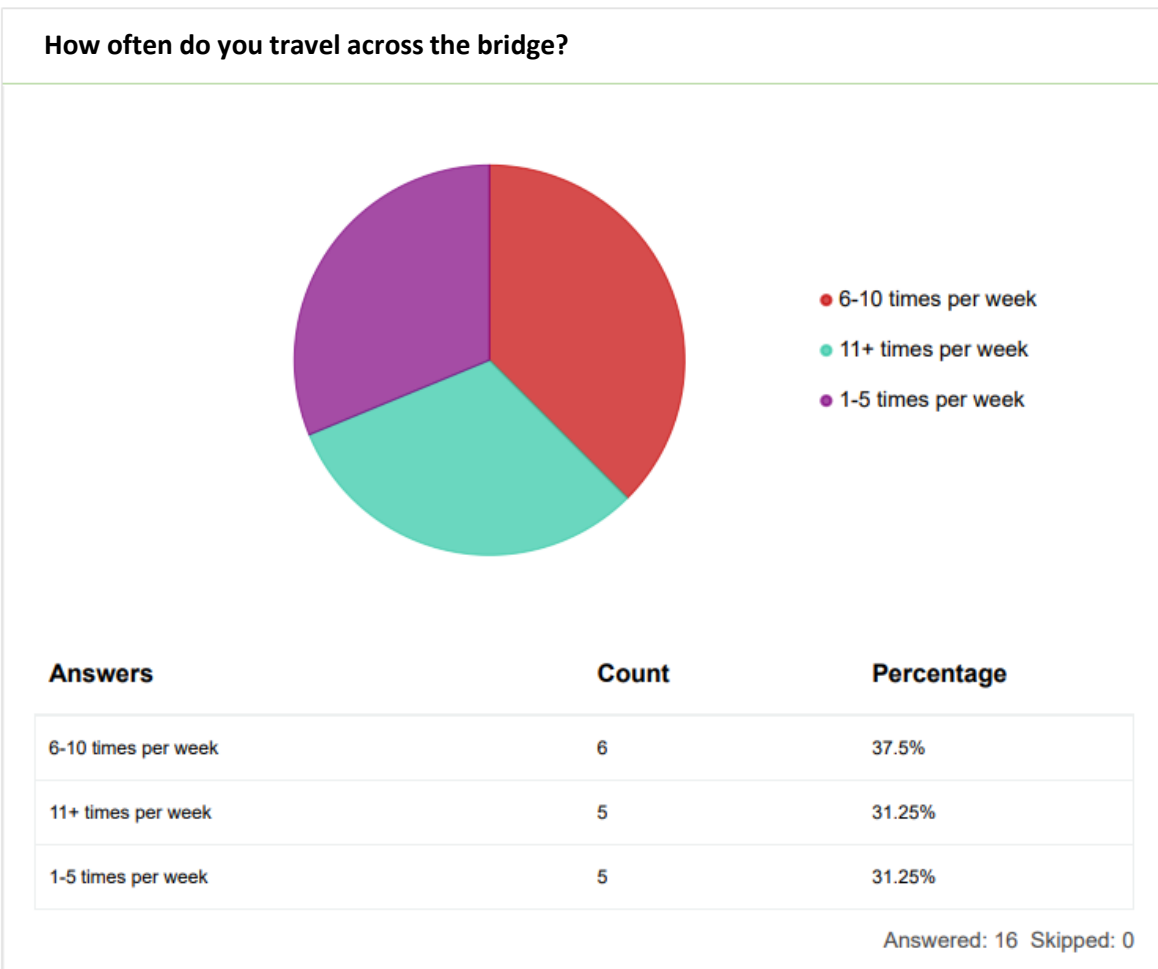


Figure 8. How often participants who selected “other” as their mode of transportation travel across the bridge results based on the total number of participants who selected other as a mode of transportation.

Table 7. How often participants use rideshare to cross the bridge results based on the total number of participants who answered the question.

How often do you travel across the bridge?		
Answer	Result (Public transit only)	Result (Public transit + other modes selected)
1-5 times per week	1 (50%)	5 (31%)
6-10 times per week	1 (50%)	6 (38%)
11+ times per week	0	5 (31%)
Total	2	16

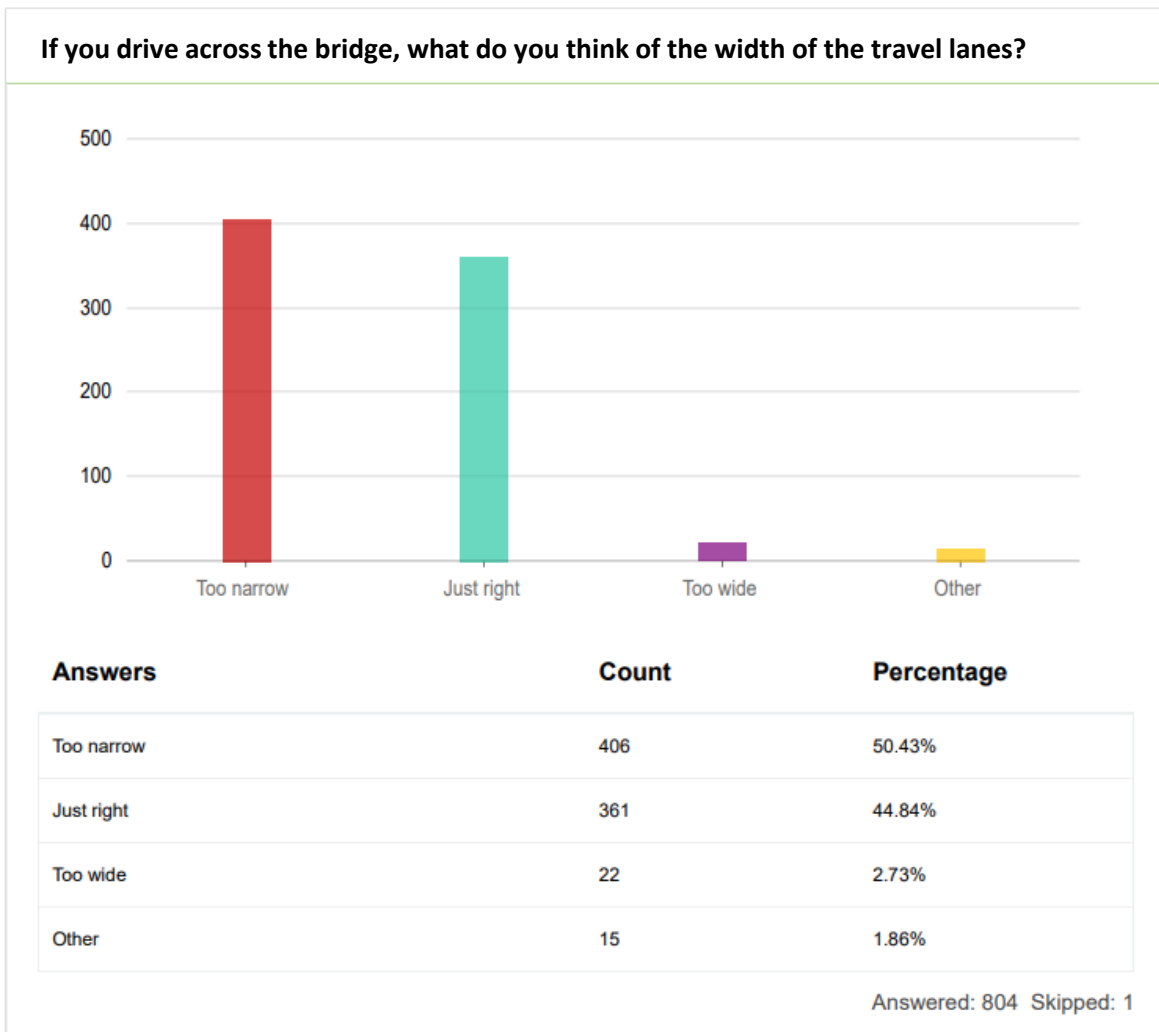


Figure 9. What participants who selected personal vehicle as a mode of transportation think of the width of the vehicle travel lanes. Results based on the total number of participants who selected personal vehicle, including those who chose not to answer this question.

Table 8. What participants who selected personal vehicle as their mode of transportation think of the width of the vehicle travel lanes when driving over the bridge. Results based on the total number of participants who selected personal vehicle and answered this question.

If you drive across the bridge, what do you think of the width of the vehicle travel lanes?		
Answer	Result (Drive only)	Result (Drive + other modes selected)
Too narrow	221 (54%)	406 (50%)
Just right	182 (44%)	361 (45%)
Too wide	1 (0.2%)	22 (3%)
Other	5 (1%)	15 (2%)
Total	409	804

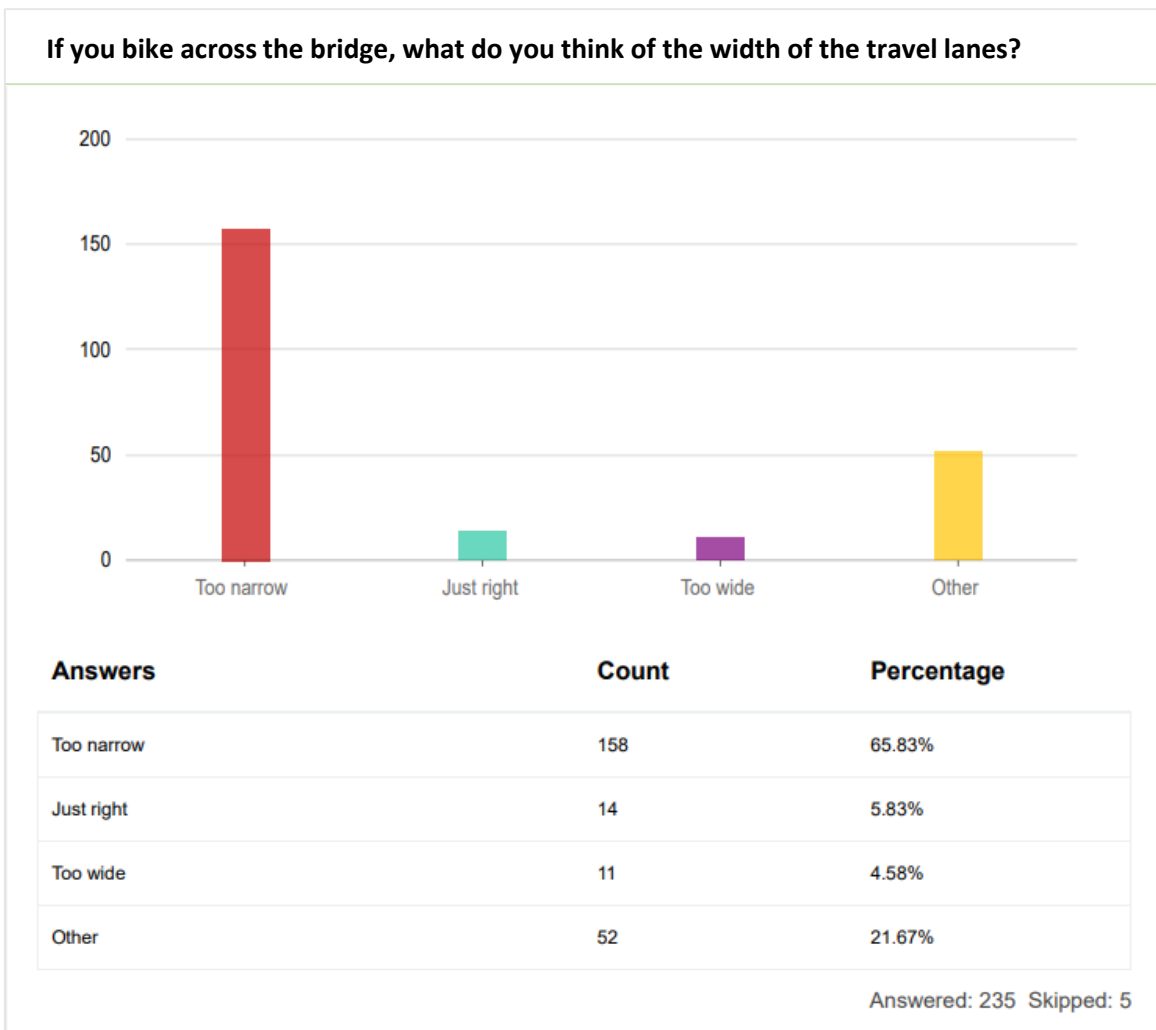


Figure 10. What participants who selected bike as a mode of transportation think of the width of the vehicle travel lanes. Results are based on the total number of participants who selected bike, including those who chose not to answer this question.

Table 9. What bikers think about the width of the vehicle travel lanes when biking over the bridge. Results are based on the total number of participants who answered the question.

If you bike across the bridge, what do you think of the width of the vehicle travel lanes?		
Answer	Result (Bike only)	Result (Bike + other modes selected)
Too narrow	9 (75%)	158 (67%)
Just right	0	14 (6%)
Too wide	0	11 (5%)
Other	3 (25%)	52 (22%)
Total	12	235

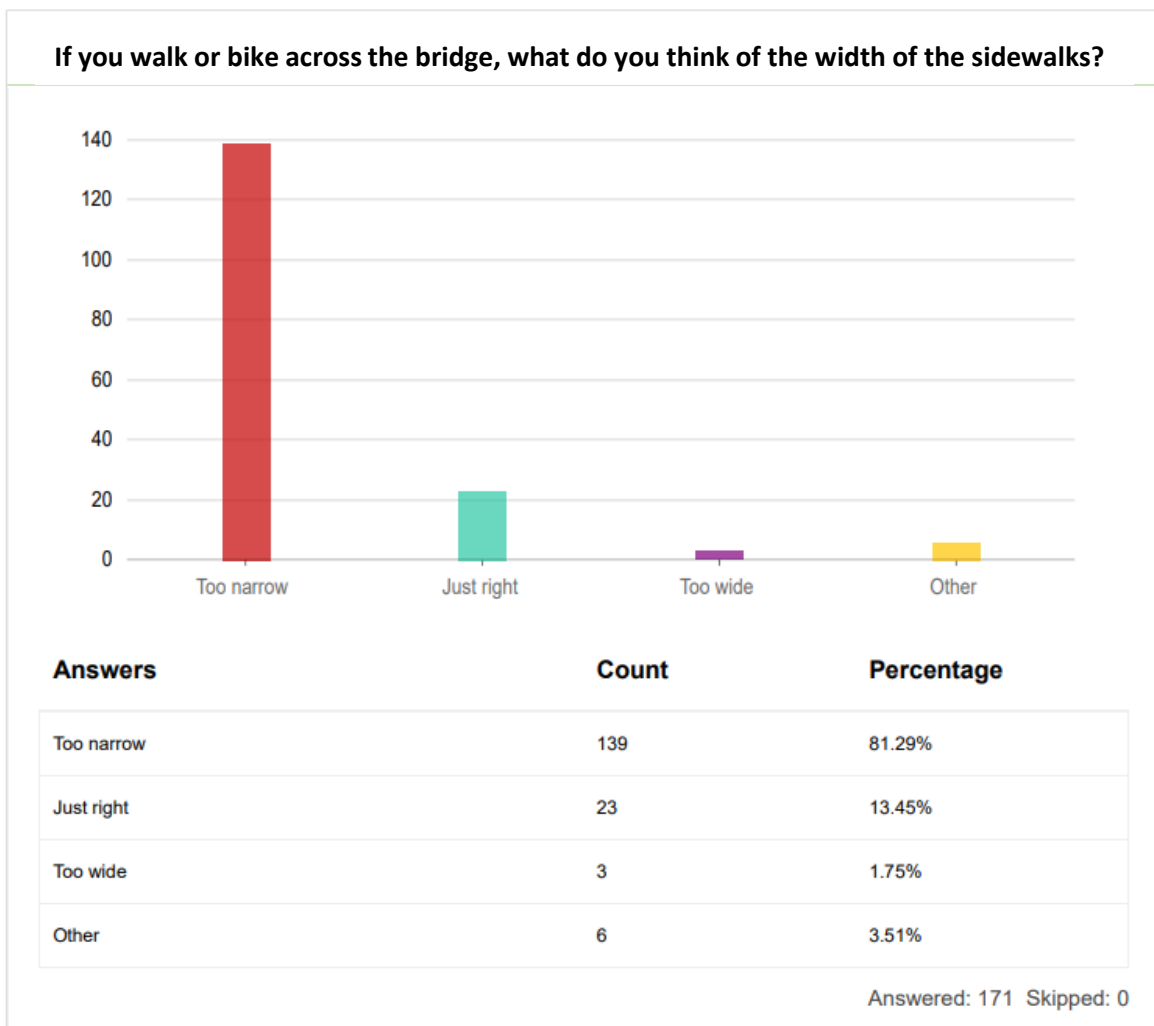


Figure 11. What participants who selected walk and/or bike as a mode of transportation think of the width of the sidewalks. Results are based on the total number of participants who selected bike and/or walk, including those who chose not to answer this question.

Table 10. What participants who selected walk and/or bike as a mode of transportation think about the width of the sidewalks. Results are based on the total number of participants who answered the question.

If you walk or bike across the bridge, what do you think of the width of the sidewalks?		
Answer	Result (Walk + bike + electric bike only)	Result (Walk + bike + other modes selected)
Too narrow	15 (83%)	139 (81%)
Just right	1 (6%)	23 (13%)
Too wide	0	3 (2%)
Other	2 (11%)	6 (4%)
Total	18	171

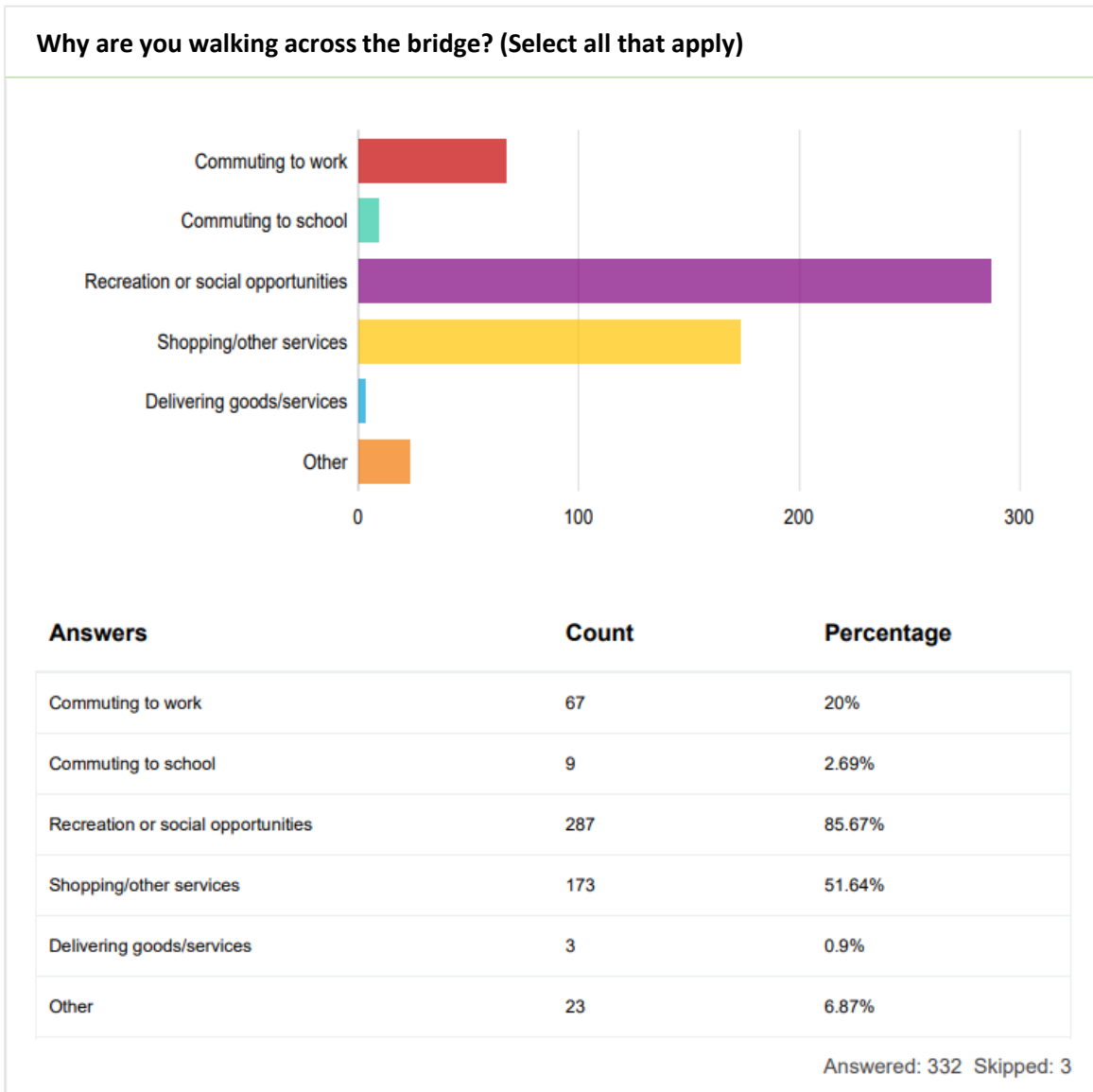


Figure 12. Why participants who selected walk as a mode of transportation are walking across the bridge. Results are based on the total number of participants who selected walk, including those who chose not to answer this question.

Table 11. Why participants who selected walk as a mode of transportation are walking across the bridge. Results are based on the total number of participants who selected walk and answered this question.

Why are you walking across the bridge?		
Answer	Result (Walk only)	Result (Walk + other modes selected)
Commuting to work	2 (40%)	67 (20%)
Commuting to school	0	9 (3%)
Recreation or social opportunities	4 (80%)	287 (86%)
Shopping/other services	2 (40%)	173 (52%)
Delivering goods/services	0	3 (1%)
Other	2 (40%)	23 (7%)
Total	5	332

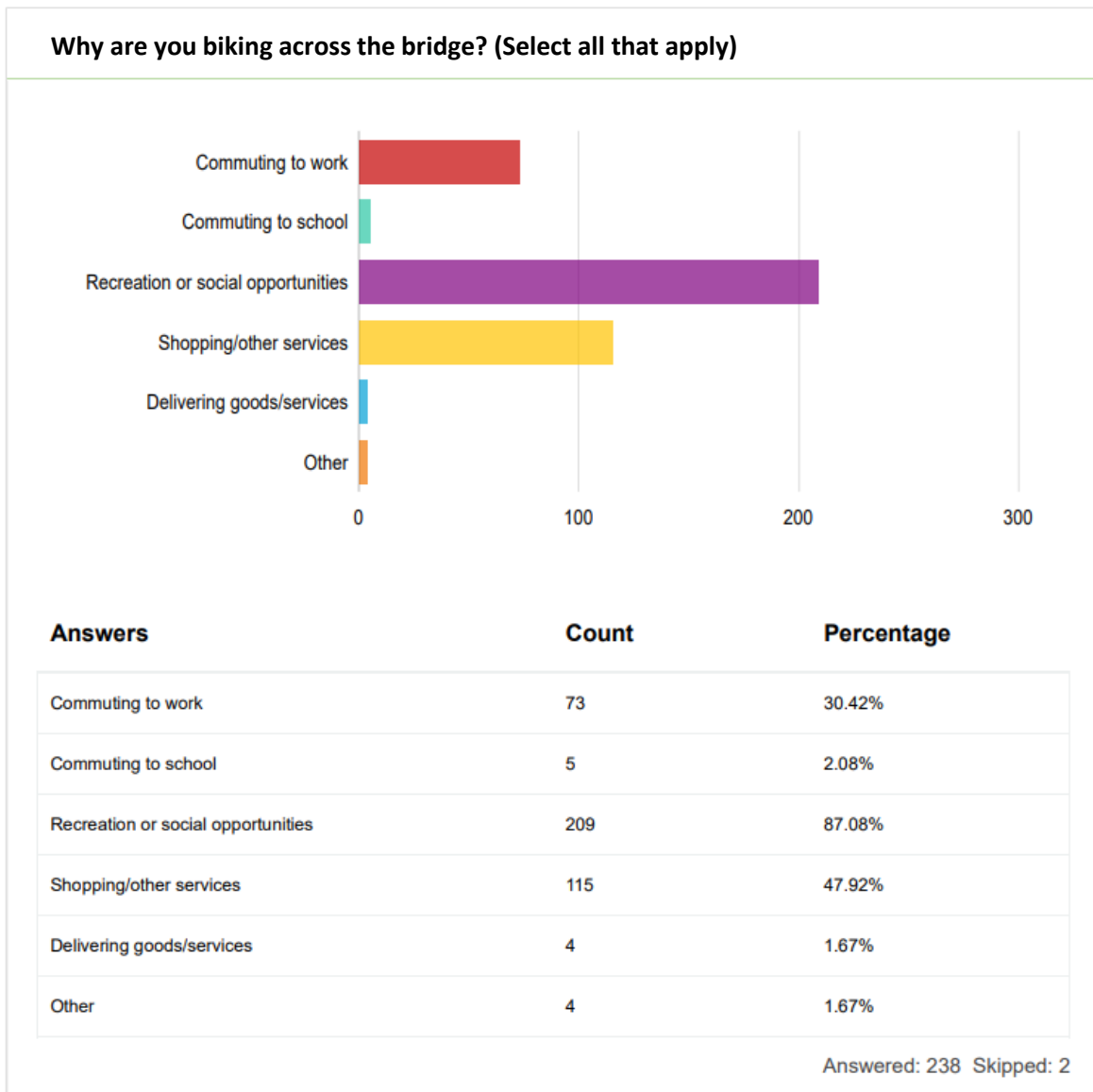


Figure 13. Why participants who selected bike as a mode of transportation are biking across the bridge. Results are based on the total number of participants who selected bike, including those who chose not to answer this question.

Table 12. Why participants who selected bike as a mode of transportation are biking across the bridge. Results are based on the total number of participants who selected bike and answered this question.

Why are you biking across the bridge?		
Answer	Result (Bike only)	Result (Bike + other modes selected)
Commuting to work	7 (58%)	73 (31%)
Commuting to school	0	5 (2%)
Recreation or social opportunities	11 (92%)	209 (87%)
Shopping/other services	8 (67%)	115 (48%)
Delivering goods/services	0	4 (2%)
Other	0	4 (2%)
Total	12	238

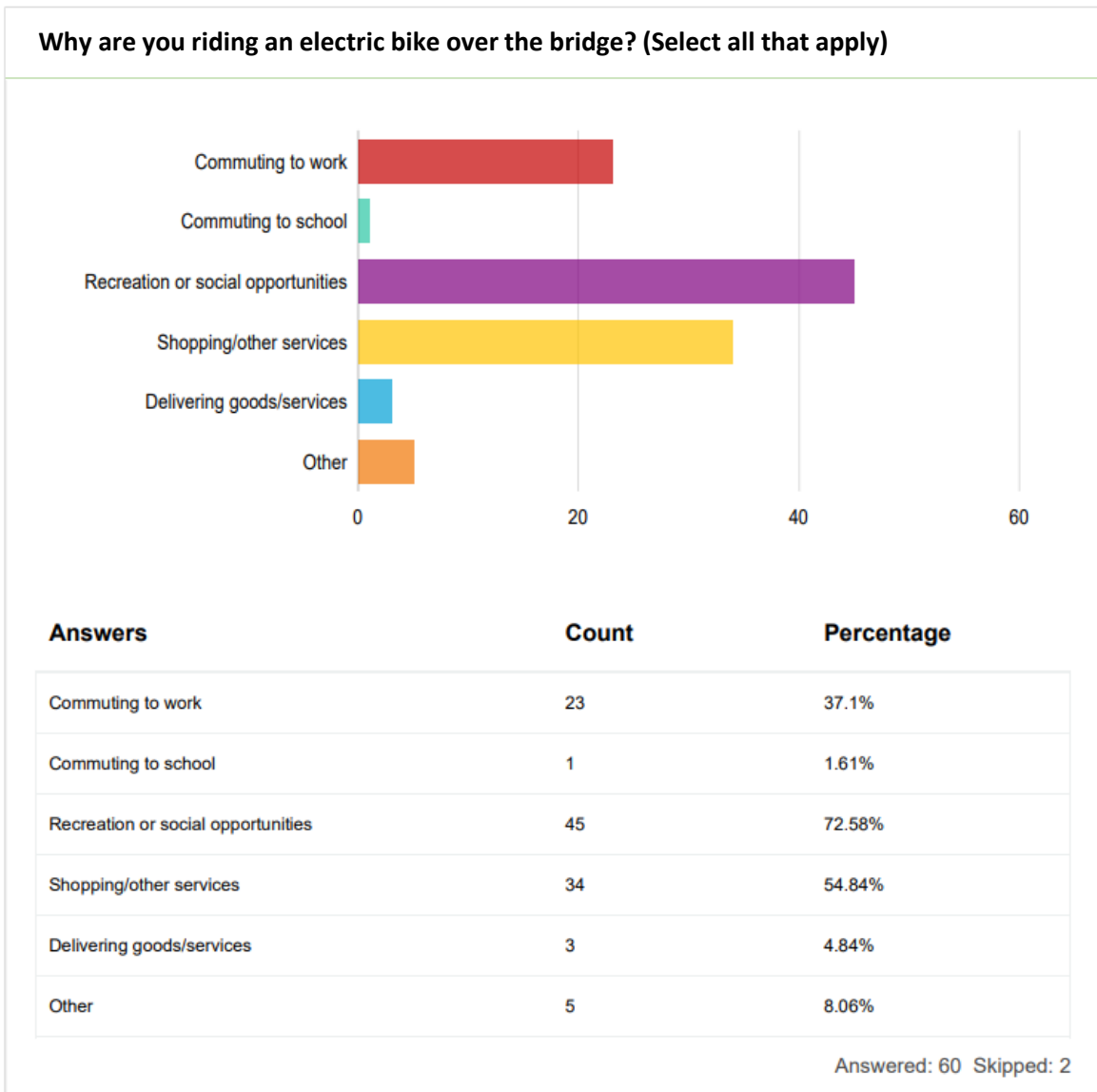


Figure 14. Why participants who selected bike as a mode of transportation are biking across the bridge. Results are based on the total number of participants who selected bike, including those who chose not to answer this question.

Table 13. Why participants who selected bike as a mode of transportation are biking across the bridge. Results are based on the total number of participants who selected bike and answered this question.

Why are you riding an electric bike across the bridge?		
Answer	Result (Electric bike only)	Result (Electric bike + other modes selected)
Commuting to work	1 (33%)	23 (38%)
Commuting to school	0	1 (2%)
Recreation or social opportunities	0	45 (75%)
Shopping/other services	3 (100%)	34 (57%)
Delivering goods/services	0	3 (5%)
Other	0	5 (8%)
Total	3	60

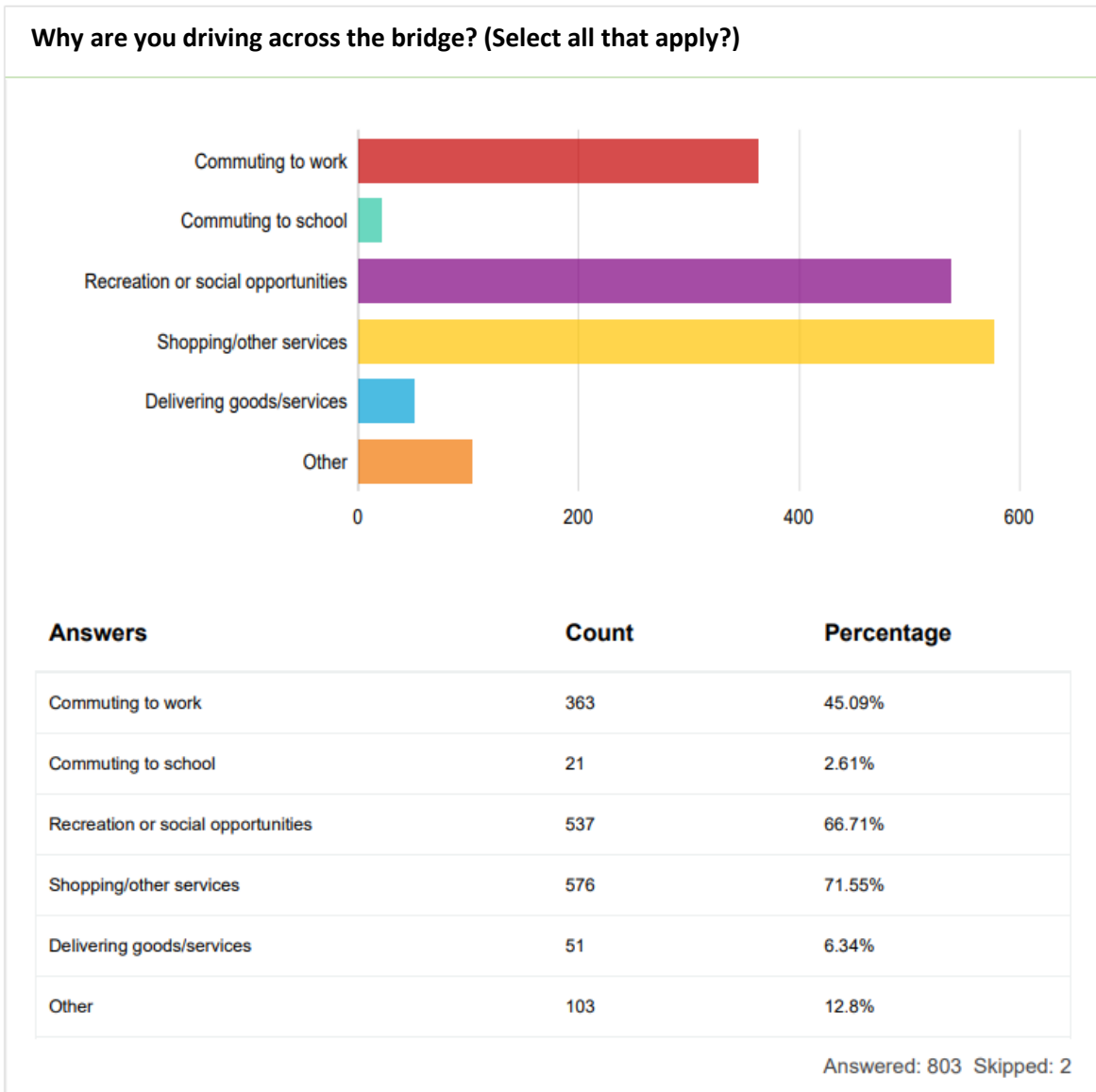
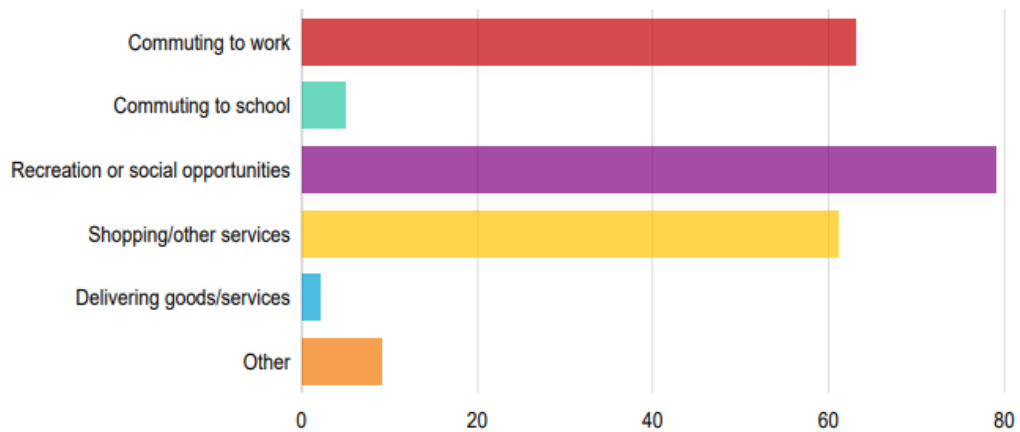


Figure 15. Why participants who selected personal vehicle as a mode of transportation are driving across the bridge. Results are based on the total number of participants who selected personal vehicle, including those who chose not to answer this question.

Table 14. Why participants who selected personal vehicle as a mode of transportation are driving across the bridge. Results are based on the total number of participants who selected personal vehicle and answered this question.

Why are you driving across the bridge?		
Answer	Result (Driving only)	Result (Driving + other modes selected)
Commuting to work	169 (41%)	363 (45%)
Commuting to school	6 (1%)	21 (3%)
Recreation or social opportunities	238 (58%)	537 (67%)
Shopping/other services	270 (66%)	576 (72%)
Delivering goods/services	23 (6%)	51 (6%)
Other	59 (14%)	103 (13%)
Total	408	803

Why are you taking public transit across the bridge? (Select all that apply)



Answers	Count	Percentage
Commuting to work	63	46.32%
Commuting to school	5	3.68%
Recreation or social opportunities	79	58.09%
Shopping/other services	61	44.85%
Delivering goods/services	2	1.47%
Other	9	6.62%

Answered: 135 Skipped: 1

Figure 16. Why participants who selected public transit as a mode of transportation are using it to cross the bridge. Results are based on the total number of participants who selected public transit, including those who chose not to answer this question.

Table 15. Why participants who selected public transit as a mode of transportation are using it to cross the bridge. Results are based on the total number of participants who selected public transit and answered this question.

Why are you taking public transit across the bridge?		
Answer	Result (Public transit only)	Result (Public transit + other modes selected)
Commuting to work	5 (100%)	63 (47%)
Commuting to school	0	5 (4%)
Recreation or social opportunities	2 (40%)	79 (59%)
Shopping/other services	2 (40%)	61 (45%)
Delivering goods/services	0	2 (1%)
Other	1 (20%)	9 (7%)
Total	5	135

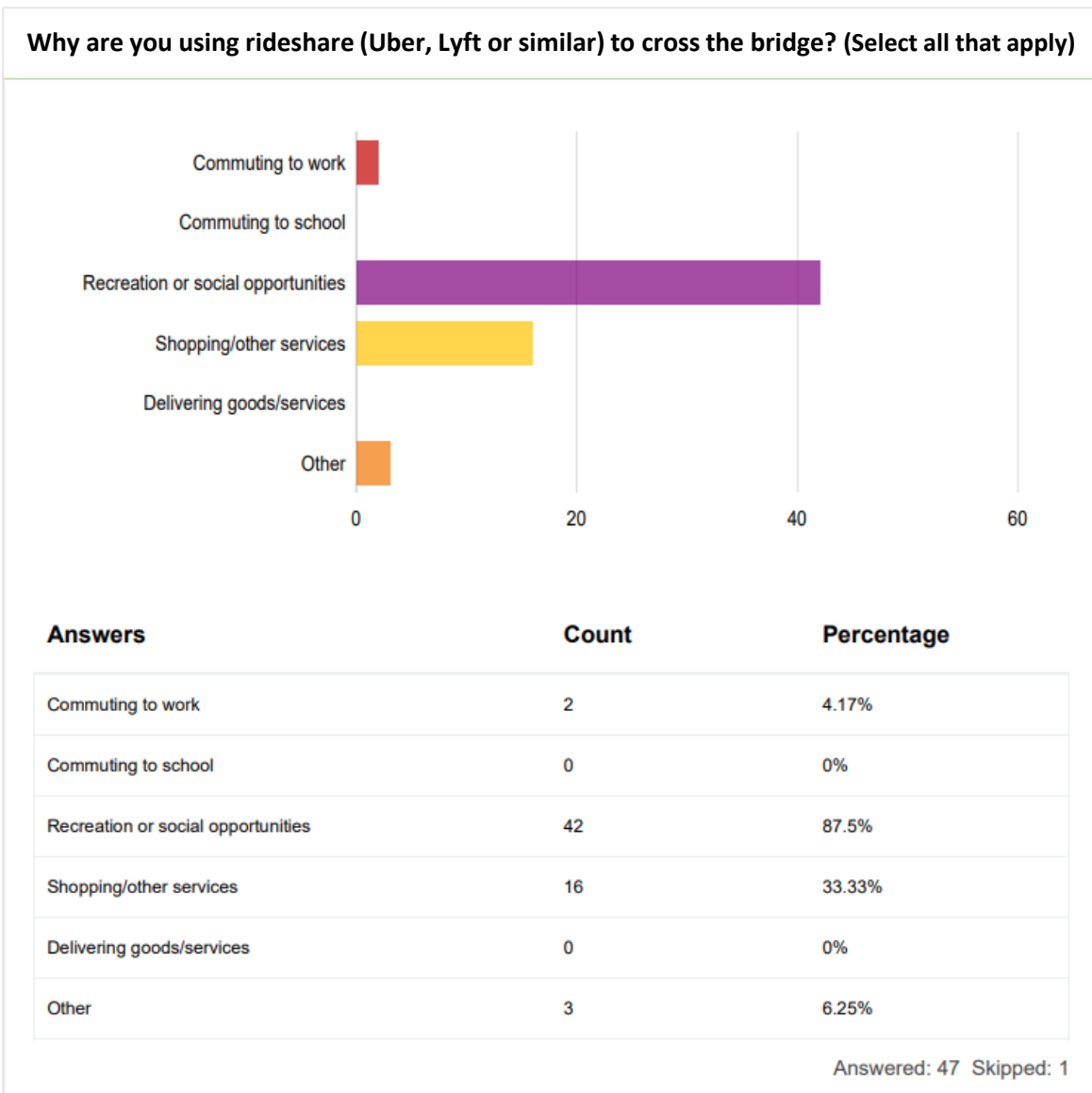
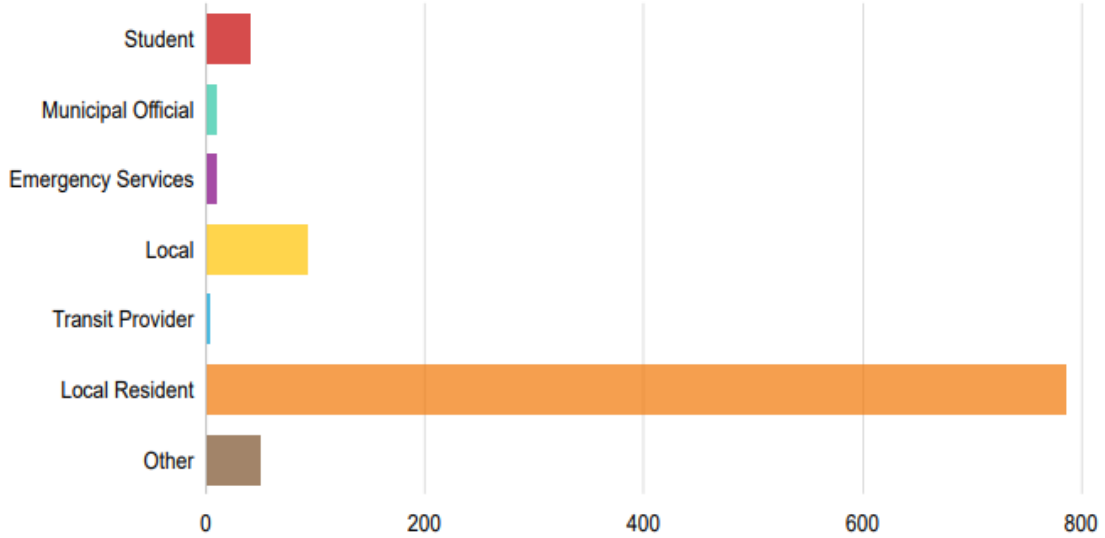


Figure 17. Why participants who selected rideshare as a mode of transportation are using it to cross the bridge. Results are based on the total number of participants who selected rideshare, including those who chose not to answer this question.

Table 16. Why participants who selected rideshare as a mode of transportation are using it to cross the bridge. Results are based on the total number of participants who selected rideshare and answered this question.

Why are you using rideshare to cross the bridge?		
Answer	Result (Rideshare only)	Result (Rideshare + other modes selected)
Commuting to work	0	7 (37%)
Commuting to school	0	0
Recreation or social opportunities	0	16 (84%)
Shopping/other services	0	13 (68%)
Delivering goods/services	0	0
Other	0	0
Total	0	19

Who are you representing? (Select all that apply)



Answers

Count

Percentage

Answers	Count	Percentage
Student	39	4.55%
Municipal Official	8	0.93%
Emergency Services	8	0.93%
Local Business	92	10.72%
Transit Provider	2	0.23%
Local Resident	784	91.38%
Other	48	5.59%

Answered: 853 Skipped: 5

Figure 19. Who the survey participants represent. These results are based on the total number of participants, including those who chose not to answer this question.

Table 18. Survey results of personal vehicle users. Results based on how many people selected personal vehicle with other modes of transportation and how many people only selected personal vehicle.

Personal Vehicle Data		
Question	Answer	Result
What mode of transportation do you use to travel across the bridge?	Personal Vehicle Only	410 (51%)
	Personal Vehicle + Other Modes Selected	395 (49%)
TOTAL=		805

Table 19. Survey results of bike users. Results based on how many people selected bike with other modes of transportation and how many people only selected bike.

Bike Data		
Question	Answer	Result
What mode of transportation do you use to travel across the bridge?	Bike Only	12 (5%)
	Bike + Other Modes Selected	228 (95%)
TOTAL=		240

Table 20. Survey results of electric bike users. Results based on how many people selected electric bike with other modes of transportation and how many people only selected bike.

Electric Bike Data		
Question	Answer	Result
What mode of transportation do you use to travel across the bridge?	Electric Bike Only	3 (5%)
	Electric Bike + Other Modes Selected	59 (95%)
TOTAL=		62

Table 21. Survey results of participants who walk across the bridge. Results based on how many people selected walk with other modes of transportation and how many people only selected walk.

Walking Data		
Question	Answer	Result
What mode of transportation do you use to travel across the bridge?	Walking Only	5 (2%)
	Walking + Other Modes Selected	330 (98%)
TOTAL=		335

Table 22. Survey results of participants who use public transit. Results based on how many people selected public transit with other modes of transportation and how many people only selected public transit.

Public Transit Data		
Question	Answer	Result
What mode of transportation do you use to travel across the bridge?	Public Transit Only	5 (4%)
	Public Transit + Other Modes Selected	131 (96%)
TOTAL=		136

Table 23. Survey results of participants who did not select personal vehicle as one of their modes of transportation.

Non-Vehicle Data		
Question	Answer	Result
What mode of transportation do you use to travel across the bridge?	Walk	26
	Bike	34
	Electric Bike	11
	Public Transit	25
	Rideshare	4
	Other	2
Total modes selected=		102
Total participants who did not selected personal vehicle=		53

Table 24. Survey results of the top ten modes of transportation selected.

Top 10 Mode of Transportations Selected		
Combination of Transportation Modes Selected	Result	%
Personal vehicle	410	48%
Walk, Personal vehicle	100	12%
Walk, Bike, Personal vehicle	76	9%
Walk, Bike, Personal vehicle, Public transit	37	4%
Bike, Personal vehicle	36	4%
Walk, Personal vehicle, Public transit	29	3%
Bike	12	1%
Walk, Bike, Electric bike, Personal vehicle	11	1%
Walk, Personal vehicle, Rideshare	10	1%
Walk, Bike, Personal vehicle, rideshare	9	1%

Table 25. Survey results of the top ten zip codes provided by participants.

Top 10 Survey Participant Zip Codes			
Town	Zip Code	Result	%
Winooski, VT	05404	231	26%
Burlington, VT	05401	169	19%
Essex Junction, VT	05452	100	11%
South Burlington, VT	05403	100	11%
Burlington, VT	05408	72	8%
Colchester, VT	05446	63	7%
Milton, VT	05468	20	2%
North Vermont Region, VT	05462	9	1%
Williston, VT	05495	8	0.9%
Shelburne, VT	05482	8	0.9%