

MONTGOMERY COUNTY PEDESTRIAN SURVEY



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CONTENTS

PROJECT OVERVIEW	VI
1.0 ANALYSIS	1
1.1 TRIP CHARACTERISTICS	1
1.2 PEDESTRIAN LAWS AND SAFETY	18
1.3 SATISFACTION AND IMPORTANCE	26
1.4 COVID-19 IMPACTS	54
1.5 DEMOGRAPHICS	58
2.0 SURVEY DEVELOPMENT	67
3.0 SAMPLING	68
4.0 SURVEY ADMINISTRATION	71
5.0 WEIGHTING	73
6.0 MAXIMUM DIFFERENCE (MAXDIFF)	77
7.0 APPENDIX A: SCREEN CAPTURES	79
 LIST OF FIGURES	
FIGURE 1: WALK TRIP PURPOSES IN THE PAST MONTH BY GEOGRAPHY	2
FIGURE 2: WALK TRIP PURPOSE BY RACE	3
FIGURE 3: WALK PURPOSE BY HISPANIC, SPANISH, OR LATINO ORIGIN	4
FIGURE 4: WALK PURPOSE BY HOUSEHOLD INCOME	5
FIGURE 5: WALK PURPOSE BY DISABILITY	6
FIGURE 6: FREQUENCY OF TRIPS IN THE PAST MONTH	7
FIGURE 7: URBAN GEOGRAPHY FREQUENCY OF TRIPS IN THE PAST MONTH	7

FIGURE 8: TRANSIT CORRIDOR GEOGRAPHY FREQUENCY OF TRIPS IN THE PAST MONTH	8
FIGURE 9: RURAL/EXURBAN GEOGRAPHY FREQUENCY OF TRIPS IN THE PAST MONTH	9
FIGURE 10: DURATION OF WALKING TRIPS	9
FIGURE 11: URBAN GEOGRAPHY DURATION OF WALKING TRIPS	10
FIGURE 12: TRANSIT CORRIDOR GEOGRAPHY DURATION OF WALKING TRIPS	11
FIGURE 13: EXURBAN/RURAL GEOGRAPHY LENGTH OF WALKING TRIPS	11
FIGURE 14: WALK TIME OF DAY BY TRIP PURPOSE	16
FIGURE 15: REASON FOR NO WALKING TRIPS	17
FIGURE 16: PEDESTRIAN LAWS CORRECTLY ANSWERED BY GEOGRAPHY	18
FIGURE 17: PEDESTRIAN LAWS CORRECTLY ANSWERED BY RACE	19
FIGURE 18: I FEEL SAFE WHILE WALKING OR ROLLING IN PUBLIC SPACES BY GEOGRAPHY	20
FIGURE 19: I FEEL SAFE WHILE WALKING OR ROLLING IN PUBLIC SPACES BY RACE	20
FIGURE 20: I FEEL SAFE WHILE WALKING OR ROLLING IN PUBLIC SPACES BY HISPANIC, SPANISH, OR LATINO ORIGIN	21
FIGURE 21: AMOUNT OF CRIME IN MY NEIGHBORHOOD IS NOT CONCERNING BY GEOGRAPHY	21
FIGURE 22: AMOUNT OF CRIME IN MY NEIGHBORHOOD IS NOT CONCERNING BY RACE	22
FIGURE 23: AMOUNT OF CRIME IN MY NEIGHBORHOOD IS NOT CONCERNING BY HISPANIC, SPANISH, OR LATINO ORIGIN	22
FIGURE 24: I FEEL MORE COMFORTABLE WHEN I SEE POLICE IN PUBLIC SPACES BY GEOGRAPHY	23
FIGURE 25: I FEEL MORE COMFORTABLE WHEN I SEE POLICE IN PUBLIC SPACES BY RACE	23
FIGURE 26: I FEEL MORE COMFORTABLE WHEN I SEE POLICE IN PUBLIC SPACES BY HISPANIC, SPANISH, OR LATINO ORIGIN	24
FIGURE 27: HARASSMENT OR VIOLENCE WHILE WALKING BY GEOGRAPHY	24
FIGURE 28: INFLUENCE OF SEEING OR EXPERIENCING HARASSMENT OR VIOLENCE BY GEOGRAPHY	25
FIGURE 29: SATISFACTION WITH OVERALL PEDESTRIAN EXPERIENCE BY GEOGRAPHY	26
FIGURE 30: OVERALL SATISFACTION BY RACE	27
FIGURE 31: OVERALL SATISFACTION BY HISPANIC, SPANISH, OR LATINO ORIGIN	27
FIGURE 32: OVERALL SATISFACTION BY HOUSEHOLD INCOME	28
FIGURE 33: OVERALL SATISFACTION BY DISABILITY	29
FIGURE 34: SATISFACTION BY GEOGRAPHY	31
FIGURE 35: SATISFACTION BY RACE	33
FIGURE 36: SATISFACTION BY HISPANIC, SPANISH, OR LATINO ORIGIN	35
FIGURE 37: SATISFACTION BY HOUSEHOLD INCOME	37
FIGURE 38: SATISFACTION BY DISABILITY	39
FIGURE 39: IMPORTANCE BY GEOGRAPHY	42

FIGURE 40: IMPORTANCE BY RACE	44
FIGURE 41: IMPORTANCE BY HISPANIC, SPANISH, OR LATINO ORIGIN	46
FIGURE 42: IMPORTANCE BY HOUSEHOLD INCOME	48
FIGURE 43: IMPORTANCE BY DISABILITY	50
FIGURE 44: FULL SAMPLE QUAD CHART	51
FIGURE 45: URBAN QUAD CHART	52
FIGURE 46: TRANSIT CORRIDOR QUAD CHART	52
FIGURE 47: RURAL/EXURBAN QUAD CHART	53
FIGURE 48: CHANGE IN WALKING OR ROLLING TRIPS DUE TO COVID-19	54
FIGURE 49: WORK LOCATION BEFORE COVID-19	55
FIGURE 50: WORK LOCATION FALL 2020	55
FIGURE 51: TELEWORK FREQUENCY BEFORE COVID-19	56
FIGURE 52: TELEWORK FREQUENCY FALL 2020	56
FIGURE 53: EXPECTED TELEWORK FREQUENCY AFTER COVID-19	57
FIGURE 54: HOME DENSITY BY GEOGRAPHY	58
FIGURE 55: HOME TYPE BY GEOGRAPHY	59
FIGURE 56: HOUSEHOLD SIZE BY GEOGRAPHY	59
FIGURE 57: HOUSEHOLD COMPOSITION BY GEOGRAPHY	60
FIGURE 58: AGE BY GEOGRAPHY	61
FIGURE 59: GENDER BY GEOGRAPHY	61
FIGURE 60: EMPLOYMENT BY GEOGRAPHY	62
FIGURE 61: MOBILITY DISABILITY BY GEOGRAPHY	63
FIGURE 62: HOUSEHOLD VEHICLES	63
FIGURE 63: HISPANIC, SPANISH, OR LATINO BY GEOGRAPHY	64
FIGURE 64: RACE BY GEOGRAPHY	65
FIGURE 65: HOUSEHOLD INCOME BY GEOGRAPHY	66
FIGURE 3-1: FRONT OF POSTCARD	68
FIGURE 3-2: BACK OF POSTCARD	69
FIGURE 3-3: SAMPLE GEOGRAPHIES IN MONTGOMERY COUNTY	70
FIGURE 4-1: POSTCARD SAMPLING ADDRESSES BY GEOGRAPHY	71
FIGURE 4-2: SURVEY COMPLETES BY GEOGRAPHY	72
FIGURE 6-1: MAXDIFF EXPERIMENT FROM SURVEY INSTRUMENT	77
FIGURE 7-1: LANGUAGE	79
FIGURE 7-2: INTRODUCTION	80
FIGURE 7-3: WALK PURPOSE	81
FIGURE 7-4: WALK FREQUENCY	82
FIGURE 7-5: WALK TIME OF DAY	83
FIGURE 7-6: WALK DESTINATION	84
FIGURE 7-7: WALK TIME	85
FIGURE 7-8: BEFORE AND AFTER COVID-19 TRIP TYPES	86
FIGURE 7-9: WHY NOT WALKING	87
FIGURE 7-10: MAXDIFF INTRODUCTION	87

FIGURE 7-11: MAXDIFF EXPERIMENT 1	88
FIGURE 7-12: MAXDIFF EXPERIMENT 2	89
FIGURE 7-13: MAXDIFF EXPERIMENT 3	90
FIGURE 7-14: MAXDIFF EXPERIMENT 4	91
FIGURE 7-15: MAXDIFF EXPERIMENT 5	92
FIGURE 7-16: MAXDIFF EXPERIMENT 6	93
FIGURE 7-17: MAXDIFF EXPERIMENT 7	94
FIGURE 7-18: MAXDIFF EXPERIMENT 8	95
FIGURE 7-19: MAXDIFF EXPERIMENT 9	96
FIGURE 7-20: MAXDIFF EXPERIMENT 10	97
FIGURE 7-21: MAXDIFF EXPERIMENT 11	98
FIGURE 7-22: MAXDIFF EXPERIMENT 12	99
FIGURE 7-23: SATISFACTION 1	100
FIGURE 7-24: SATISFACTION 2	101
FIGURE 7-25: SATISFACTION 3	102
FIGURE 7-26: PEDESTRIAN LAWS	103
FIGURE 7-27: SAFETY OPINIONS	104
FIGURE 7-28: HARASSMENT	104
FIGURE 7-29: HARASSMENT INFLUENCE	105
FIGURE 7-30: HOME SETTING	106
FIGURE 7-31: HOME TYPE	106
FIGURE 7-32: HOUSEHOLD SIZE	107
FIGURE 7-33: HOUSEHOLD MEMBERS	107
FIGURE 7-34: AGE	108
FIGURE 7-35: GENDER	108
FIGURE 7-36: DISABILITY	109
FIGURE 7-37: EMPLOYMENT STATUS	110
FIGURE 7-38: WORK LOCATION	111
FIGURE 7-39: WORK LOCATION BEFORE COVID-19	111
FIGURE 7-40: TELEWORK	112
FIGURE 7-41: WORK LOCATION	113
FIGURE 7-42: SCHOOL LOCATION	114
FIGURE 7-43: SCHOOL LOCATION BEFORE	115
FIGURE 7-44: REMOTE SCHOOL FREQUENCY	115
FIGURE 7-45: SCHOOL LOCATION	116
FIGURE 7-46: HOUSEHOLD VEHICLES	117
FIGURE 7-47: HISPANIC, SPANISH OR LATINO ORIGIN	117
FIGURE 7-48: RACE	118
FIGURE 7-49: HOUSEHOLD INCOME	119
FIGURE 7-50: RECONTACT AND RAFFLE	120
FIGURE 7-51: COMMENTS	120

LIST OF TABLES

TABLE 1: WALK TIME OF DAY	12
TABLE 2: URBAN GEOGRAPHY WALK TIME OF DAY	13
TABLE 3: TRANSIT CORRIDOR GEOGRAPHY WALK TIME OF DAY	14
TABLE 4: EXURBAN OR RURAL GEOGRAPHY WALK TIME OF DAY	15
TABLE 5: TOP 5 SATISFACTION	29
TABLE 6: BOTTOM 5 SATISFACTION	30
TABLE 7: TOP 5 IMPORTANCE	40
TABLE 8: BOTTOM 5 IMPORTANCE	40
TABLE 7: SURVEY RESPONSE SUMMARY	72
TABLE 8: INCOME TARGET DISTRIBUTION	73
TABLE 9: INCOME BY UNWEIGHTED VS. WEIGHTED	74
TABLE 10: RACE TARGET DISTRIBUTIONS	74
TABLE 11: RACE BY UNWEIGHTED VS. WEIGHTED	75
TABLE 12: HISPANIC, SPANISH, OR LATINO ORIGIN TARGET DISTRIBUTIONS	75
TABLE 13: HISPANIC, SPANISH, OR LATINO ORIGIN BY UNWEIGHTED VS. WEIGHTED	75
TABLE 14: GEOGRAPHY DISTRIBUTION BY UNWEIGHTED VS. WEIGHTED	76

PROJECT OVERVIEW

Montgomery County recently embarked upon an intensive, long-term process to develop and implement a Pedestrian Master Plan to improve pedestrian safety and comfort across all its roadways. The Pedestrian Plan will identify existing walking conditions and areas where improvements should be prioritized, in addition to providing policy, design, and programming recommendations. As part of the public engagement component of the Pedestrian Plan, Montgomery Planning conducted this pedestrian survey to ensure all residents and stakeholders' perspectives are included in the planning process. Specifically, this survey supports Pedestrian Plan development by helping the project team better understand pedestrian travel attitudes and behaviors and will serve as a benchmark for future surveys to analyze trends over time.

The pedestrian survey was fielded in October and November 2020. The research team used address-based sampling, sending postcard invitations to 60,000 homes in Montgomery County. With a goal of 1,200 survey completions across three geographic regions of the county, the team received 2,438 valid survey completions for a response rate of 4.1%. This report details the survey methodology and analysis conducted for Montgomery Planning as part of this project. Additionally, the final survey dataset was provided to the Planning Department as a deliverable for this work.

1.0 ANALYSIS

The descriptive analysis of the survey data presented in this section was performed on the final weighted dataset of 2,438 responses. The analysis is divided into six sections:

- Walking or rolling trip characteristics;
- Pedestrian laws and safety;
- Satisfaction and importance;
- COVID-19 impacts and;
- Demographics

1.1 TRIP CHARACTERISTICS

The survey asked respondents to provide information about their walking or rolling trips within Montgomery County in the past month. For the purposes of this survey, a walking or rolling trip was defined as a one-way trip of at least five minutes long which started or ended in Montgomery County. Analyses are segmented by the three study geographies: urban, transit corridor, and exurban or rural.

Figure 1 shows that 98% of respondents took a walking or rolling trip within the past month. Most respondents (91%) had walked or rolled for exercise or outdoor recreation. More respondents from the urban geography walked or rolled for non-recreation trip purposes than respondents from other geographies. A majority of respondents from the urban geography made at least one walking or rolling trip for grocery or food shopping or for personal business, such as running errands.

FIGURE 1: WALK TRIP PURPOSES IN THE PAST MONTH BY GEOGRAPHY

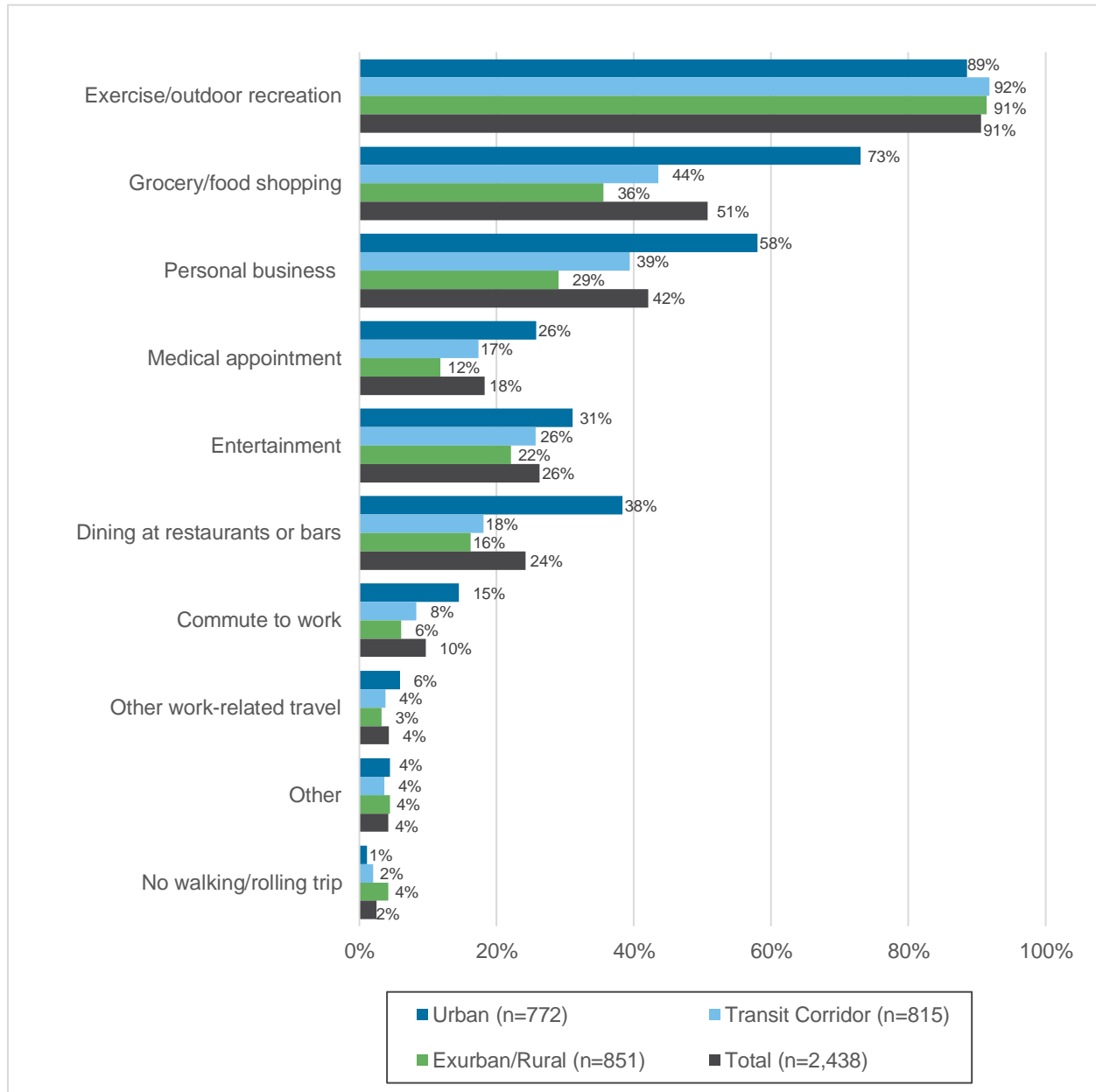


Figure 2 shows walk or roll trip purpose by race. A higher percentage of BIPOC respondents make walk or roll trips to go grocery or food shopping, to commute to work, and for other work-related travel.

FIGURE 2: WALK TRIP PURPOSE BY RACE

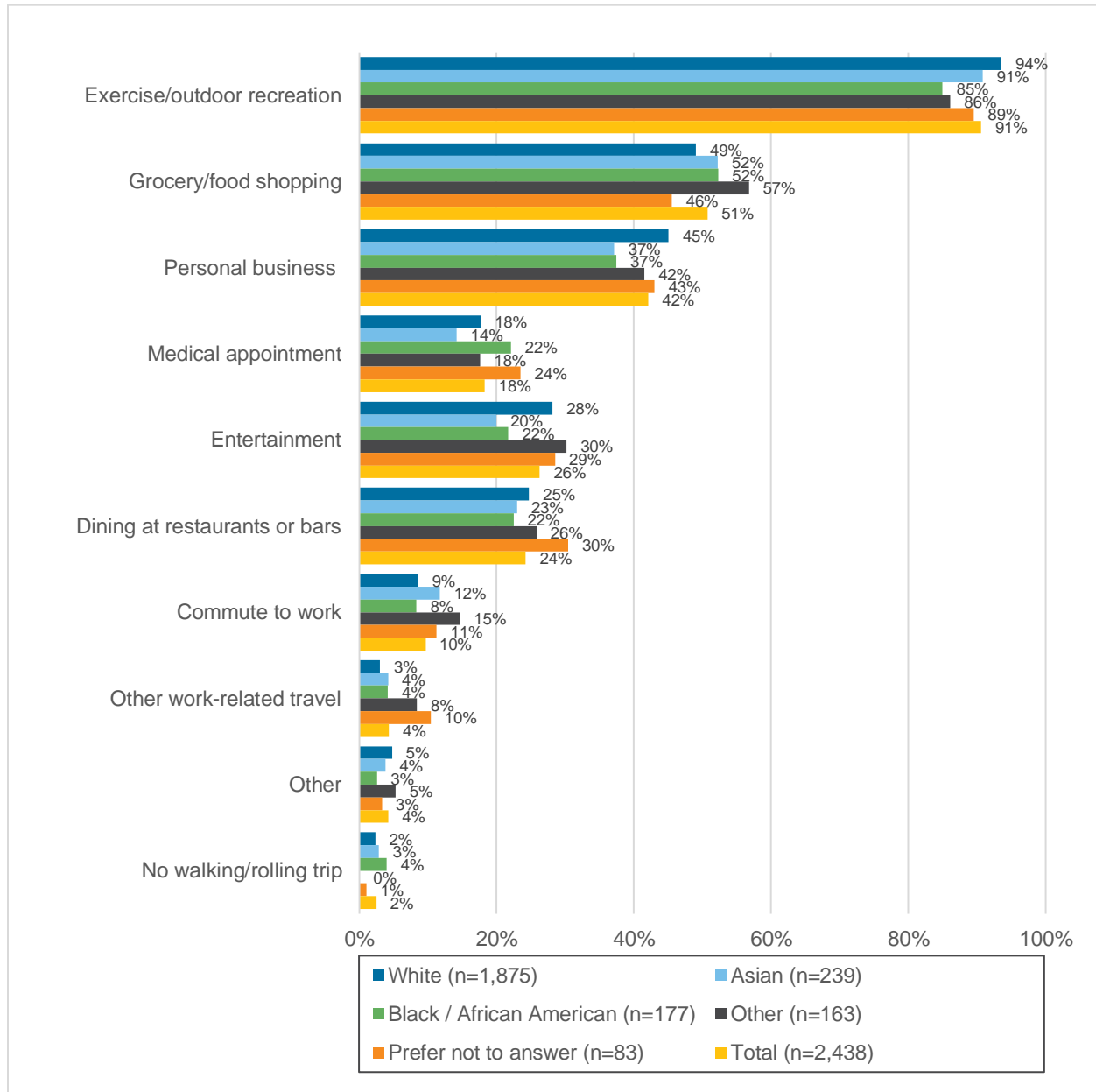


Figure 3 illustrates walk or roll purpose by Hispanic, Spanish or Latino origin. Respondents of Hispanic, Spanish or Latino origin take more of a variety of walking or rolling trips than the rest of the sample.

FIGURE 3: WALK PURPOSE BY HISPANIC, SPANISH, OR LATINO ORIGIN

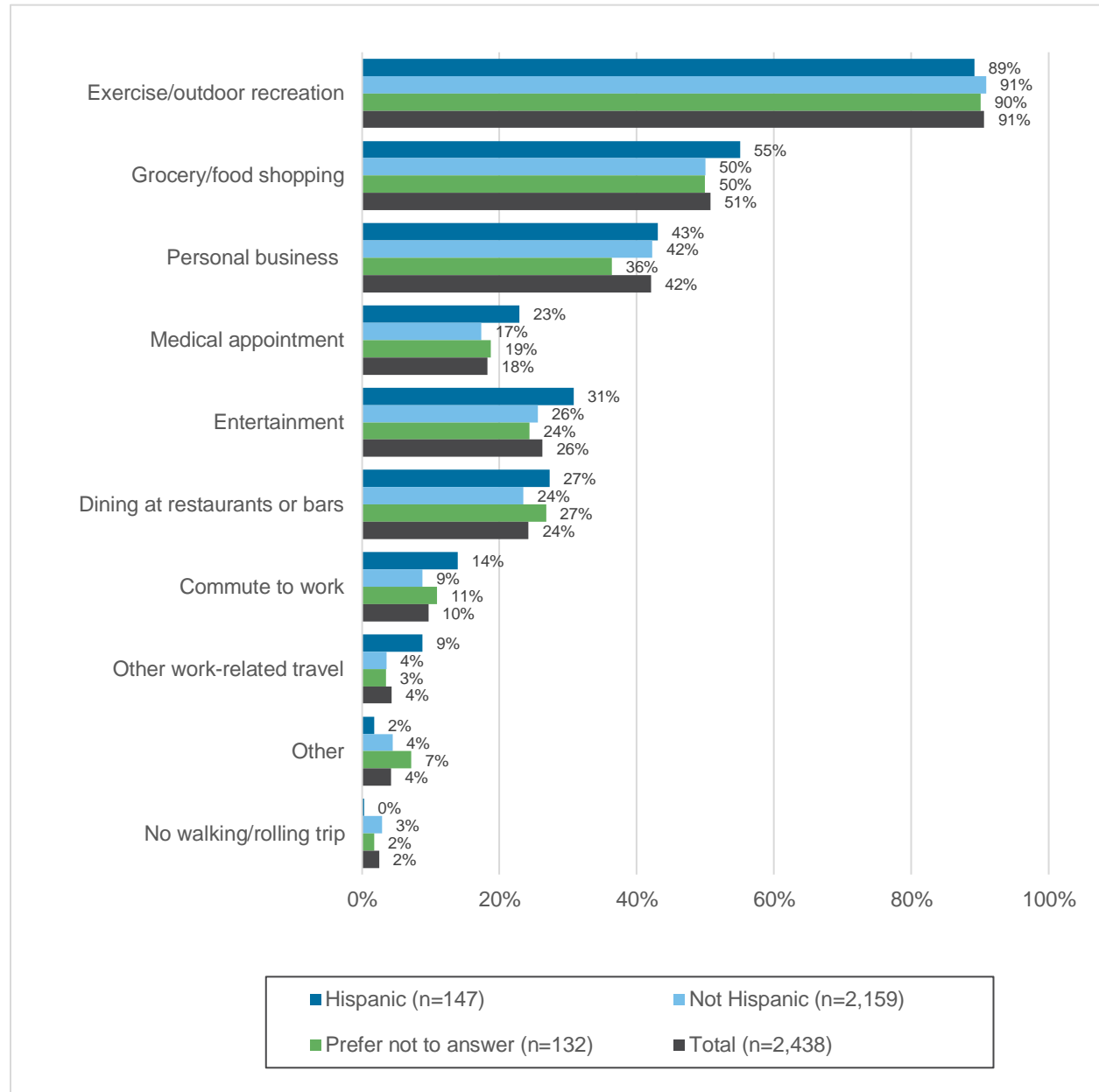


Figure 4 show the distribution of walk or trip purpose by household income. A smaller percentage of respondents who reported a household income of less than \$50,000 take exercise or outdoor recreation trips, trips for personal business and trips to go to restaurants or bars when compared to respondents who reported a household income of \$50,000 or more. However, a larger percentage of respondent who reported a household income of less than

\$50,000 take walking or rolling trips for grocery or food shopping, to medical appointments, and for entertainment and for work-related travel.

FIGURE 4: WALK PURPOSE BY HOUSEHOLD INCOME

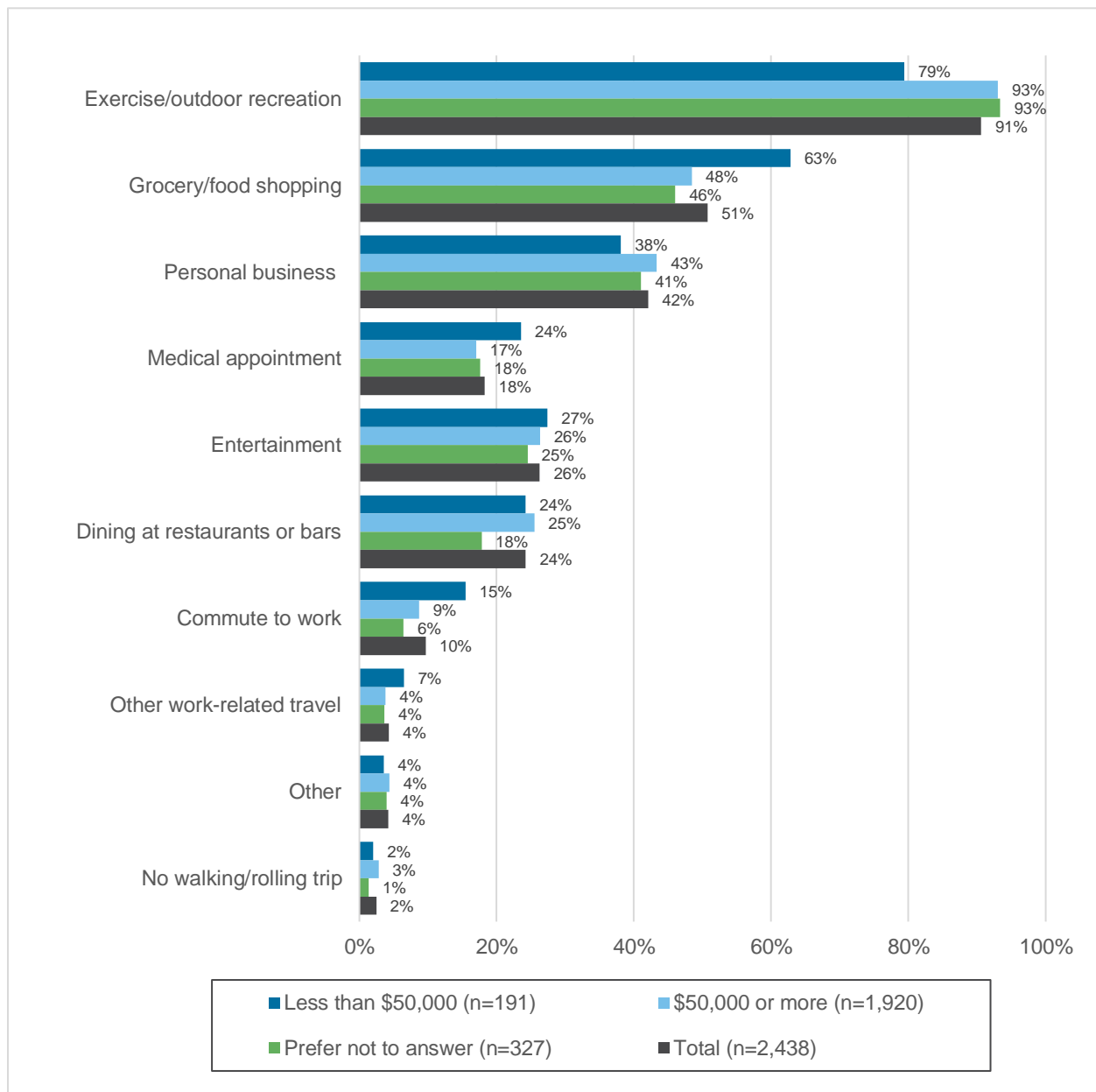
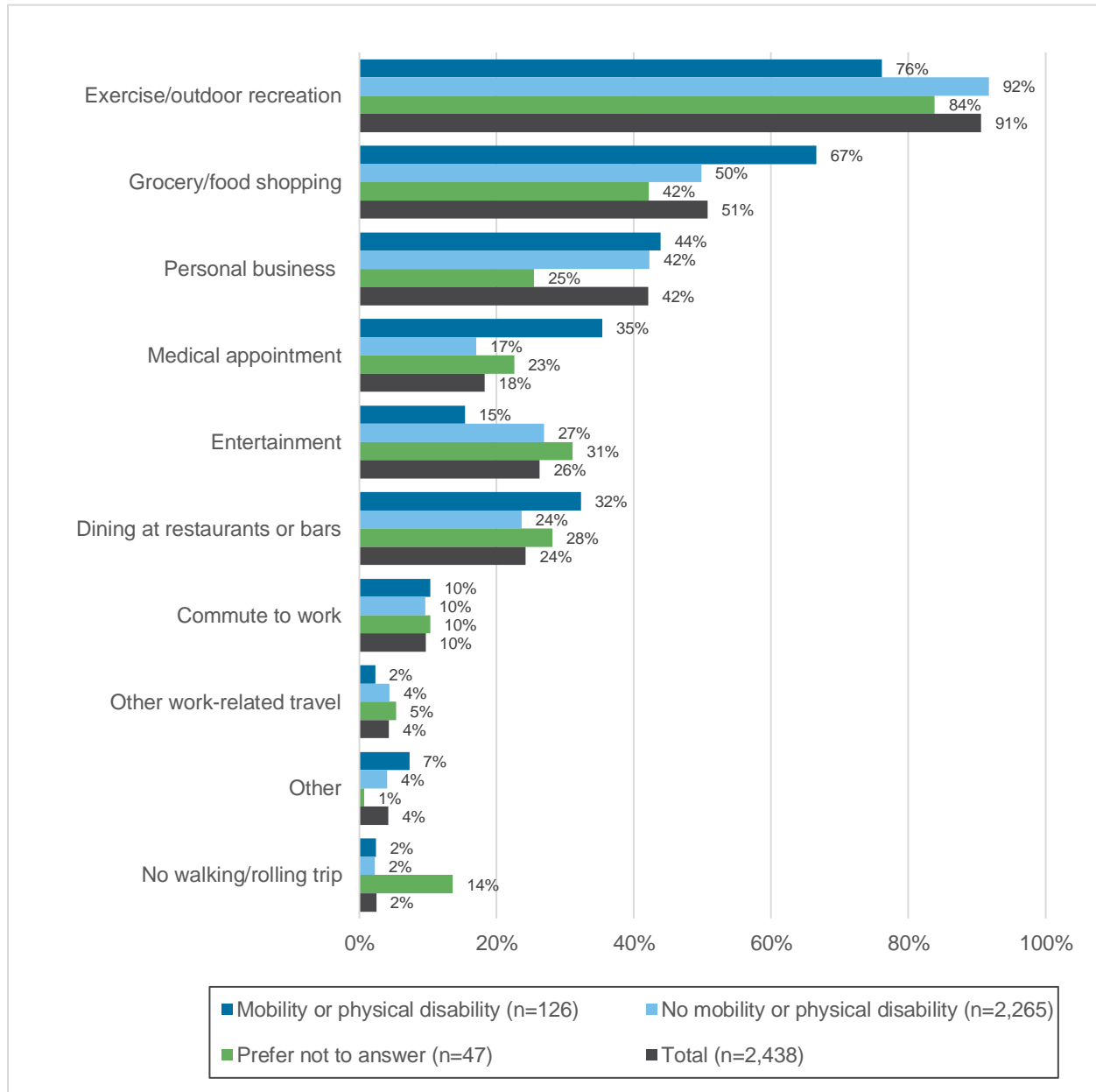


Figure 5 shows walk or roll purpose by disability. A higher percentage of respondents who reported having a disability take walk or roll trips for necessities such as food shopping, personal business, and medical appointments when compared to respondents who reported not having a disability.

FIGURE 5: WALK PURPOSE BY DISABILITY



The frequency of trips by trip purpose is shown in Figure 6. Exercise or outdoor recreation followed by commute to work are two most frequently walking or rolling trip types made in Montgomery County.

FIGURE 6: FREQUENCY OF TRIPS IN THE PAST MONTH

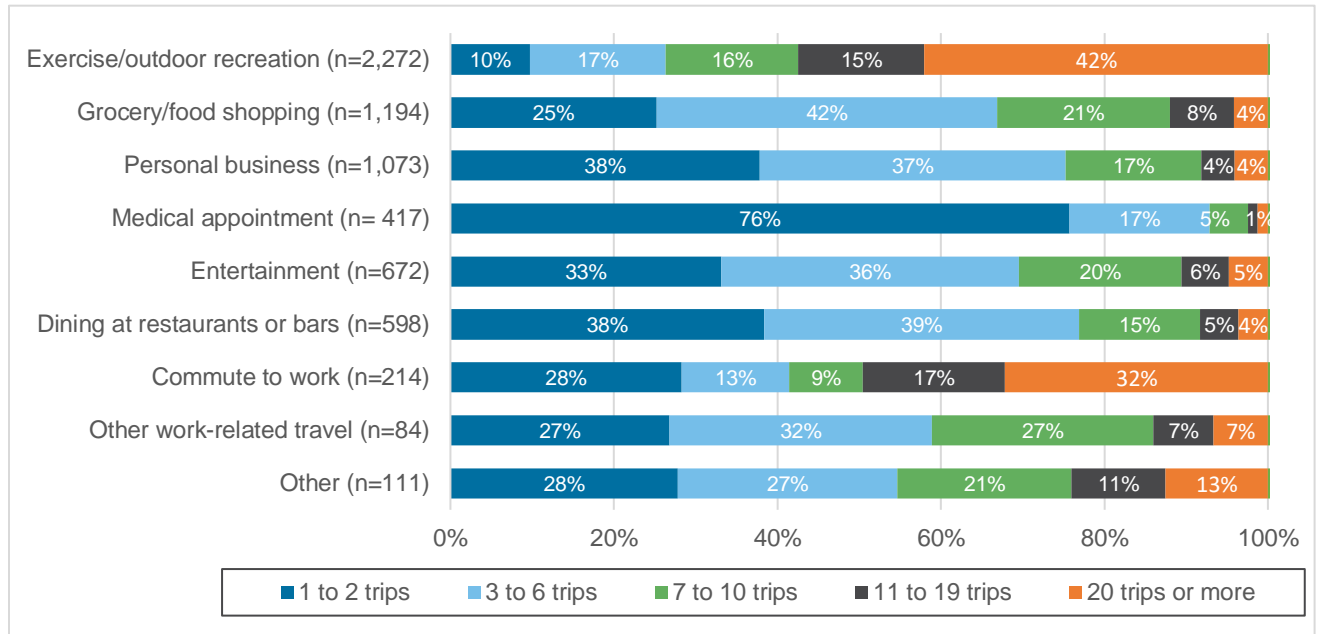


Figure 7 shows the distribution of the frequency of walking or rolling trips for respondents in the urban geography. Over half of respondents who reported a commute to work walking trip in the urban geography made 11 or more trips to commute to work in the past month.

FIGURE 7: URBAN GEOGRAPHY FREQUENCY OF TRIPS IN THE PAST MONTH

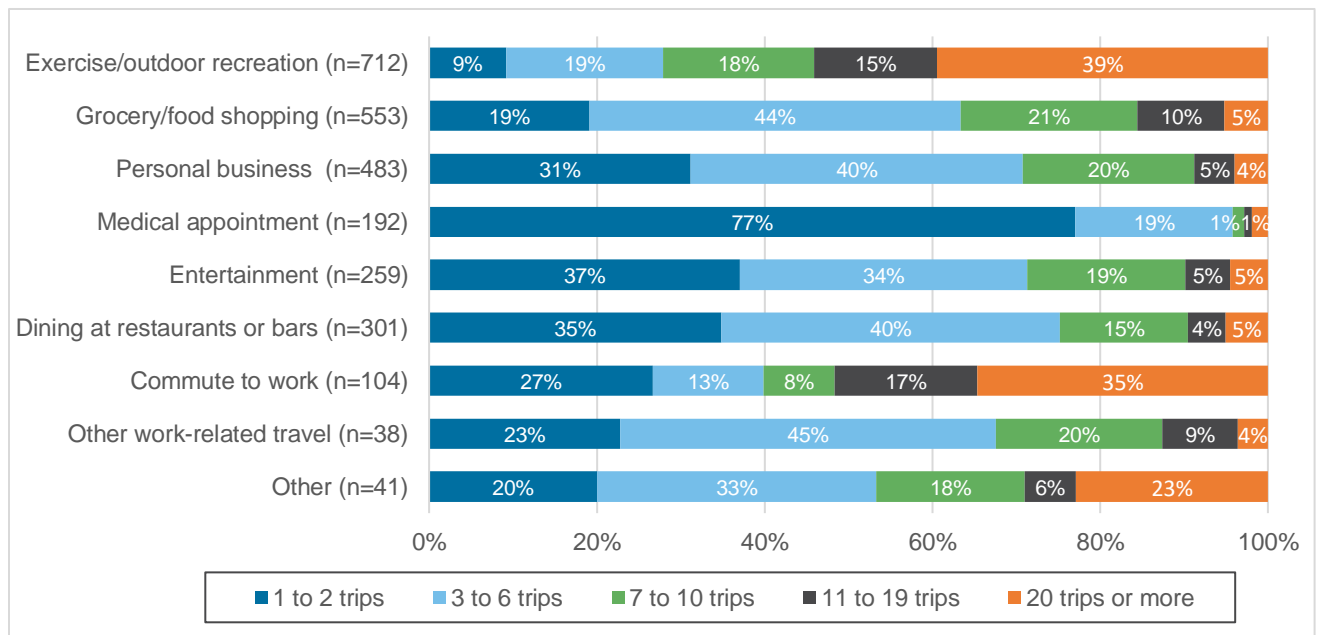


Figure 8 illustrates the frequency of trips for respondents in the transit corridor geography. Similar to urban respondents, over half of respondents who reported a walk trip for exercise or outdoor recreation in the transit corridor geography made 11 or more trips for exercise or recreation in the past month.

FIGURE 8: TRANSIT CORRIDOR GEOGRAPHY FREQUENCY OF TRIPS IN THE PAST MONTH

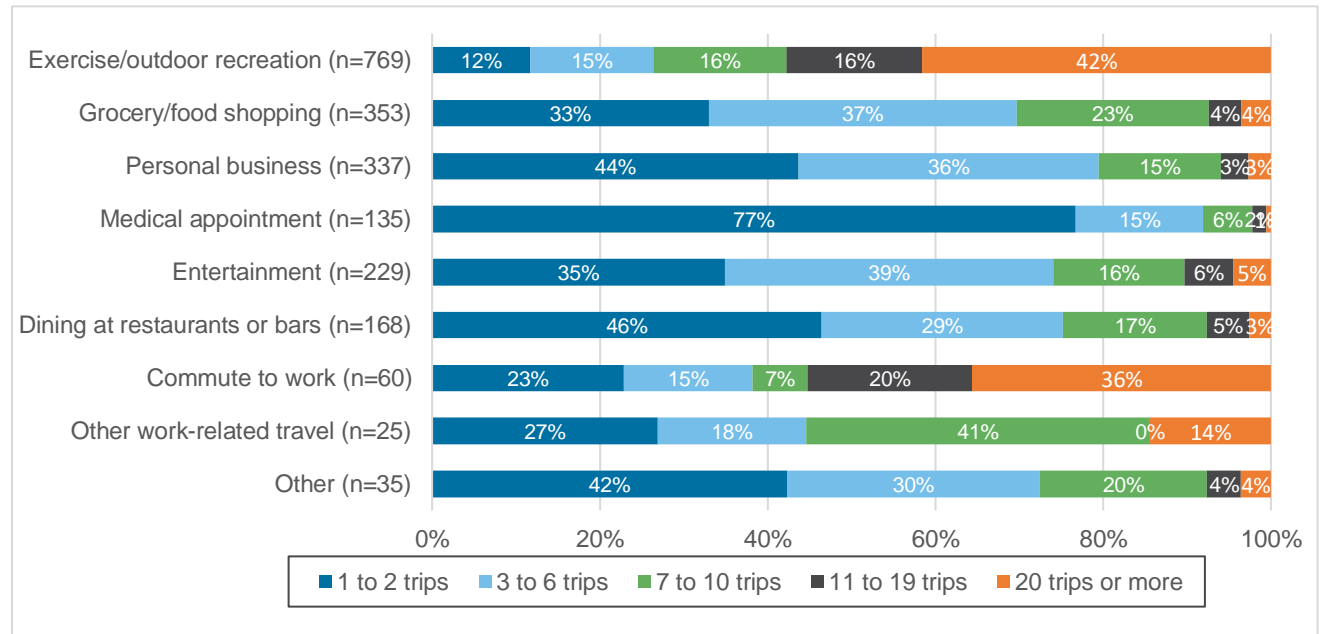


Figure 9 shows the frequency of trips for respondents in the exurban or rural geography. Sixty percent of respondents who reported a walk trip for exercise or outdoor recreation in the exurban or rural geography made 11 or more trips for exercise or recreation; however, unlike in the urban and transit corridor geography only 37% of respondents who reported a work commute trip made a walking or rolling trip to commute to work in the past month.

FIGURE 9: RURAL/EXURBAN GEOGRAPHY FREQUENCY OF TRIPS IN THE PAST MONTH

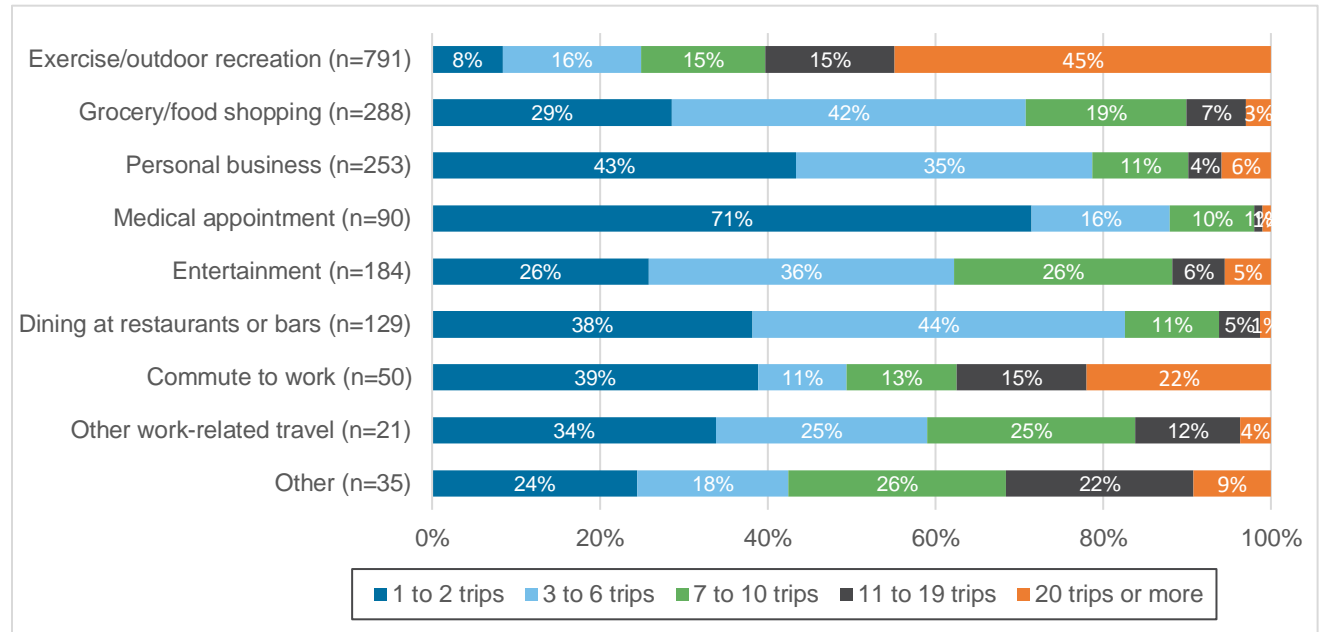


Figure 10 shows the length of time walking or rolling trips for each trip purpose. Respondents take longer exercise or outdoor recreation walking or rolling trips than for other trip purposes, as 86% of exercise or outdoor recreation trips are longer than 20 minutes.

FIGURE 10: DURATION OF WALKING TRIPS

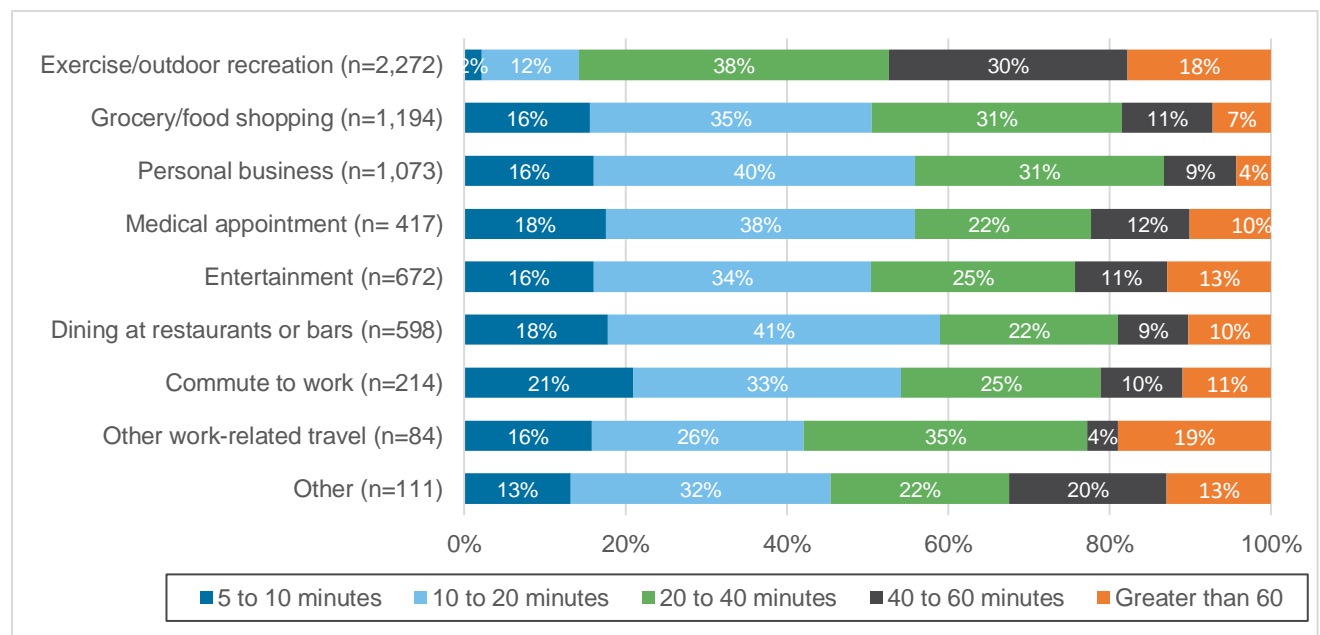


Figure 11 illustrates the typical length of trips by purpose for respondents in the urban geography. The majority of trips, except for those made for exercise/outdoor recreation, are less than 20 minutes long.

FIGURE 11: URBAN GEOGRAPHY DURATION OF WALKING TRIPS

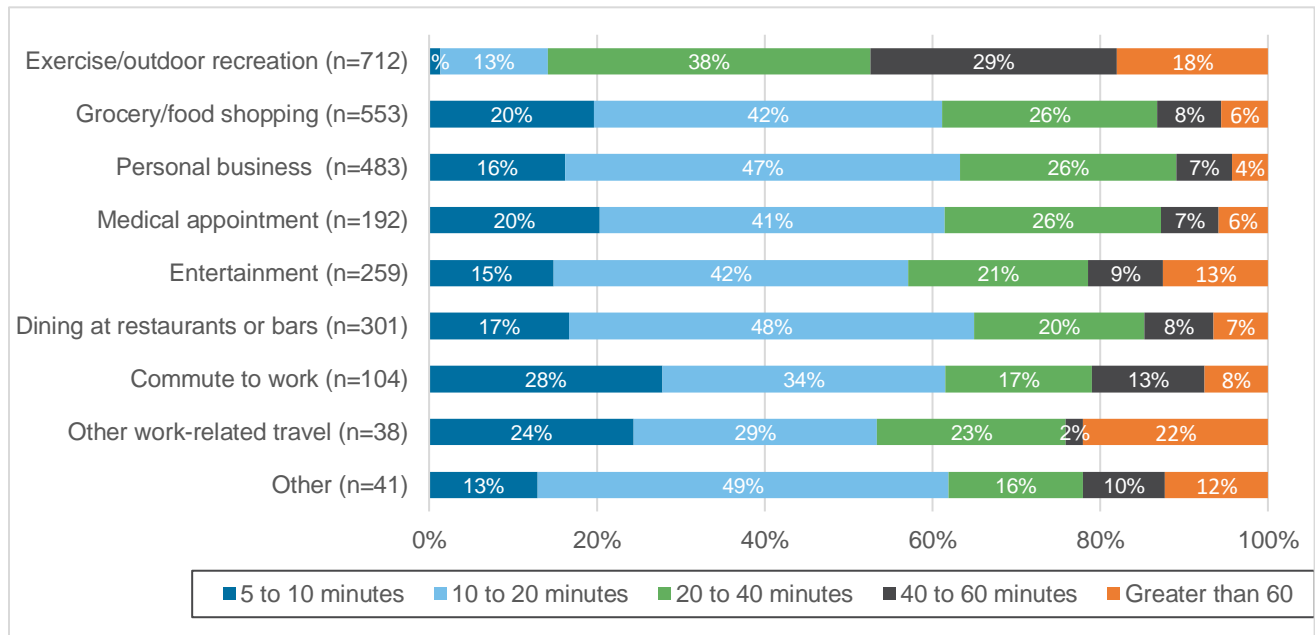


Figure 12 shows the length of trips for respondents in the transit corridor geography. Respondents in the transit corridor geography take longer trips than respondents in the urban geography, the majority of trips for respondents in the transit corridor geography take 40 minutes or less.

FIGURE 12: TRANSIT CORRIDOR GEOGRAPHY DURATION OF WALKING TRIPS

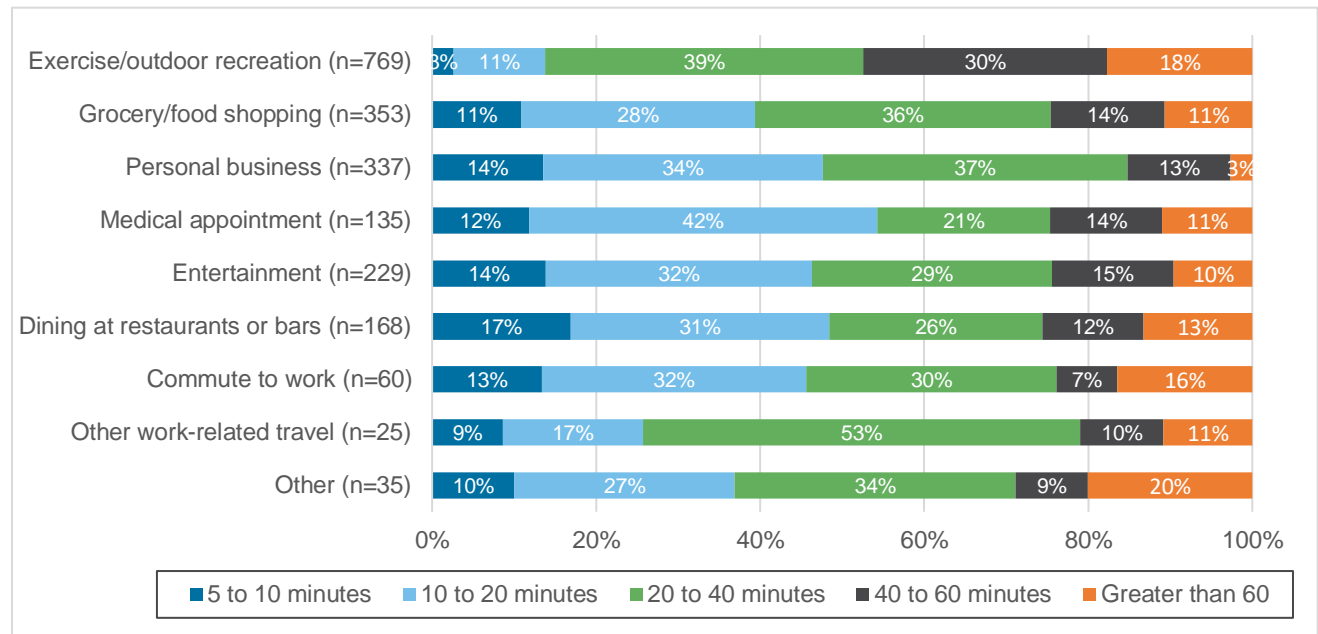
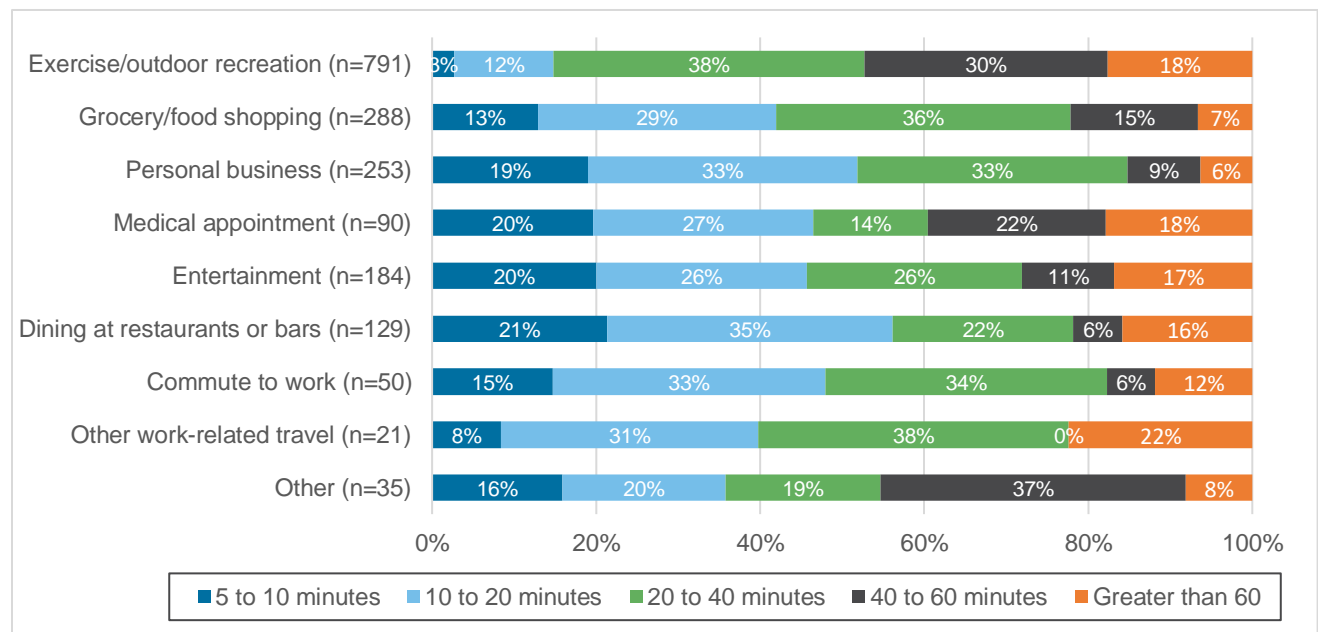


Figure 13 illustrates the length of trips for respondents in the exurban or rural geography. Similar to the transit geography, respondents who live in exurban or rural geography take longer trips than respondents in the urban geography, as the majority of one-way trips for respondents in the exurban or rural geography take 40 minutes or less.

FIGURE 13: EXURBAN/RURAL GEOGRAPHY LENGTH OF WALKING TRIPS



Montgomery County Pedestrian Survey

Table 1 shows walk/roll time of day by trip purpose. The majority of trips for grocery or food shopping, personal business, and medical appointments are made on weekdays from 9am to 3pm. Work commute and other work-related trips are mostly made on weekdays between 6am and 7pm. Social trips for entertainment or to go to restaurants or bars are mostly on weekday evenings between 3pm and 7pm or on the weekends.

TABLE 1: WALK TIME OF DAY

	Exercise/ recreation	Grocery/ food shopping	Personal business	Medical appt	Entertainment (visit friends or relatives)	Restaurants or bars	Commute to work	Other work- related reasons	Other purpose
Weekdays 6am to 9am	28%	8%	5%	10%	4%	2%	68%	17%	23%
Weekdays 9am to 3pm	44%	49%	64%	83%	26%	20%	38%	59%	46%
Weekdays 3pm to 7pm	58%	46%	43%	18%	58%	57%	52%	39%	51%
Weekdays 7pm to 10pm	19%	15%	8%	3%	31%	42%	12%	13%	15%
Weekdays 10pm to 6am	3%	1%	1%	1%	5%	4%	4%	2%	3%
Weekends 6am to 7pm	67%	48%	37%	8%	51%	42%	17%	24%	41%
Weekends 7pm to 6am	13%	7%	2%	1%	20%	30%	3%	1%	12%
Total Cases	2,272	1,194	1,073	417	672	598	214	84	111

Table 2 shows walk/roll time of day by trip purpose for the urban geography. Walk time of day for the urban geography is very similar to the overall sample, however a higher percentage of urban geography respondents take trips for

entertainment or to go to restaurants or bars on the weekends especially between 7pm and 6am, when compared to the other geographies.

TABLE 2: URBAN GEOGRAPHY WALK TIME OF DAY

	Exercise/ recreation	Grocery/ food shopping	Personal business	Medical appt	Entertainment (visit friends or relatives)	Restaurants or bars	Commute to work	Other work- related reasons	Other purpose
Weekdays 6am to 9am	28%	9%	7%	12%	3%	0%	68%	15%	31%
Weekdays 9am to 3pm	39%	46%	60%	81%	21%	20%	35%	56%	44%
Weekdays 3pm to 7pm	60%	52%	48%	21%	57%	56%	56%	35%	54%
Weekdays 7pm to 10pm	22%	19%	10%	3%	34%	44%	19%	16%	15%
Weekdays 10pm to 6am	3%	2%	1%	1%	9%	4%	3%	5%	4%
Weekends 6am to 7pm	67%	51%	39%	7%	51%	44%	11%	25%	44%
Weekends 7pm to 6am	13%	10%	3%	1%	26%	33%	4%	3%	12%
Total Cases	712	553	483	192	259	301	104	38	41

Table 3 shows walk/roll time of day by trip purpose for the transit corridor geography. Respondents in the transit corridor geography have the highest percentage (35%) of trips made for other work-related reasons on the weekend between 6am and 7pm.

TABLE 3: TRANSIT CORRIDOR GEOGRAPHY WALK TIME OF DAY

	Exercise/ recreation	Grocery/ food shopping	Personal business	Medical appt	Entertainment (visit friends or relatives)	Restaurants or bars	Commute to work	Other work- related reasons	Other purpose
Weekdays 6am to 9am	28%	7%	2%	11%	2%	2%	73%	24%	6%
Weekdays 9am to 3pm	44%	50%	70%	82%	31%	19%	47%	67%	60%
Weekdays 3pm to 7pm	57%	40%	37%	14%	59%	53%	59%	53%	48%
Weekdays 7pm to 10pm	18%	11%	6%	0%	32%	33%	8%	4%	9%
Weekdays 10pm to 6am	4%	1%	0%	1%	0%	2%	5%	0%	0%
Weekends 6am to 7pm	64%	46%	38%	12%	46%	40%	21%	35%	34%
Weekends 7pm to 6am	12%	5%	2%	2%	15%	26%	3%	0%	7%
Total Cases	769	353	337	135	229	168	60	25	35

Table 4 shows walk/roll time of day by trip purpose for the exurban or rural geography. Respondents in the exurban or rural geography went to restaurants or bars and on trips for entertainment less on the weekends when compared to respondents in the urban geography and transit corridor geography.

TABLE 4: EXURBAN OR RURAL GEOGRAPHY WALK TIME OF DAY

	Exercise/ recreation	Grocery/ food shopping	Personal business	Medical appt	Entertainment (visit friends or relatives)	Restaurants or bars	Commute to work	Other work- related reasons	Other purpose
Weekdays 6am to 9am	28%	9%	5%	4%	8%	8%	61%	13%	29%
Weekdays 9am to 3pm	49%	52%	64%	90%	28%	19%	36%	58%	37%
Weekdays 3pm to 7pm	58%	41%	39%	15%	60%	62%	34%	30%	50%
Weekdays 7pm to 10pm	18%	10%	6%	6%	27%	45%	4%	18%	21%
Weekdays 10pm to 6am	2%	1%	1%	0%	4%	7%	2%	0%	4%
Weekends 6am to 7pm	70%	47%	34%	2%	56%	38%	25%	11%	42%
Weekends 7pm to 6am	13%	3%	2%	0%	15%	26%	2%	0%	16%
Total Cases	791	288	253	90	184	129	50	21	35

Figure 14 illustrates walk or roll time of day and day of week by trip purpose. The majority of trips are made between 9am and 7pm on weekdays and 6am to 7pm on weekends. This chart visually conveys some of the intuitive results detailed above regarding differing timing of work trips, errands, and more social trips.

FIGURE 14: WALK TIME OF DAY BY TRIP PURPOSE

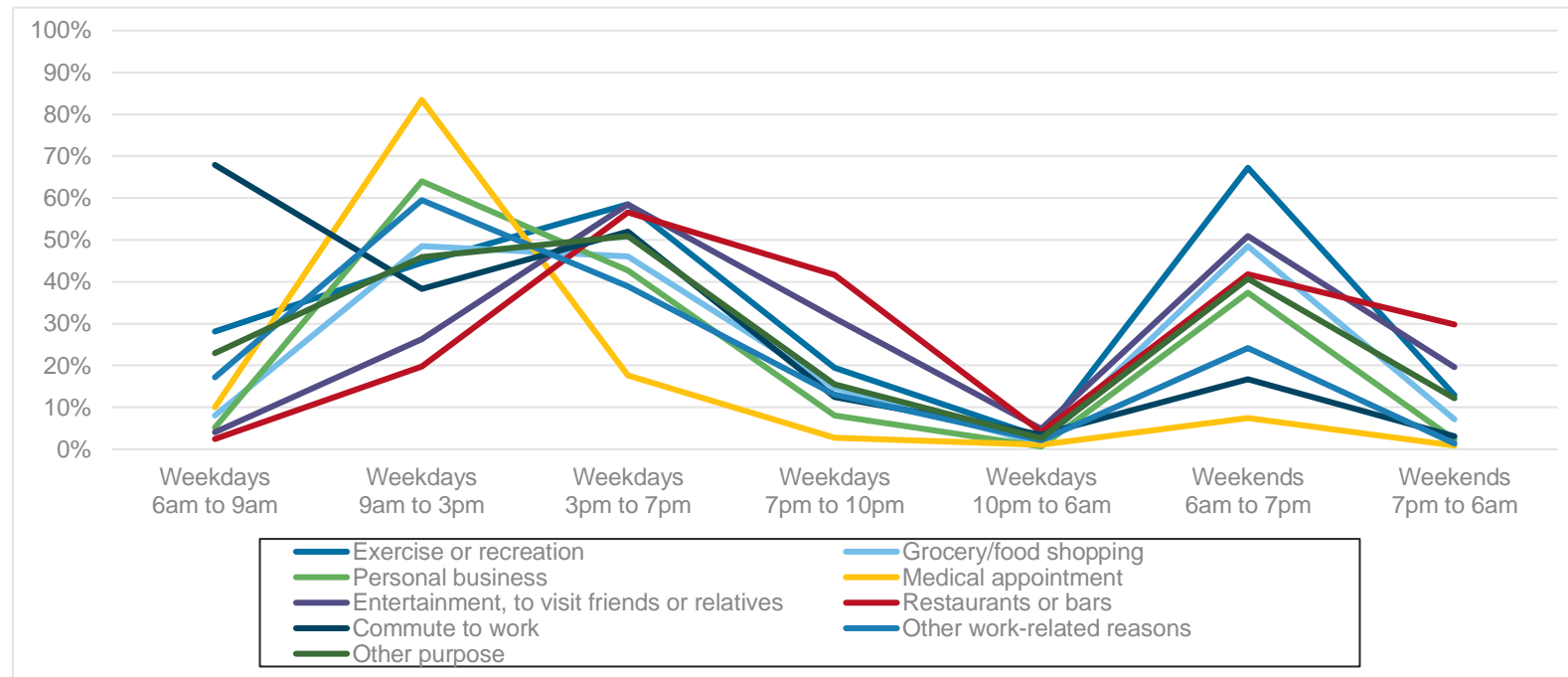
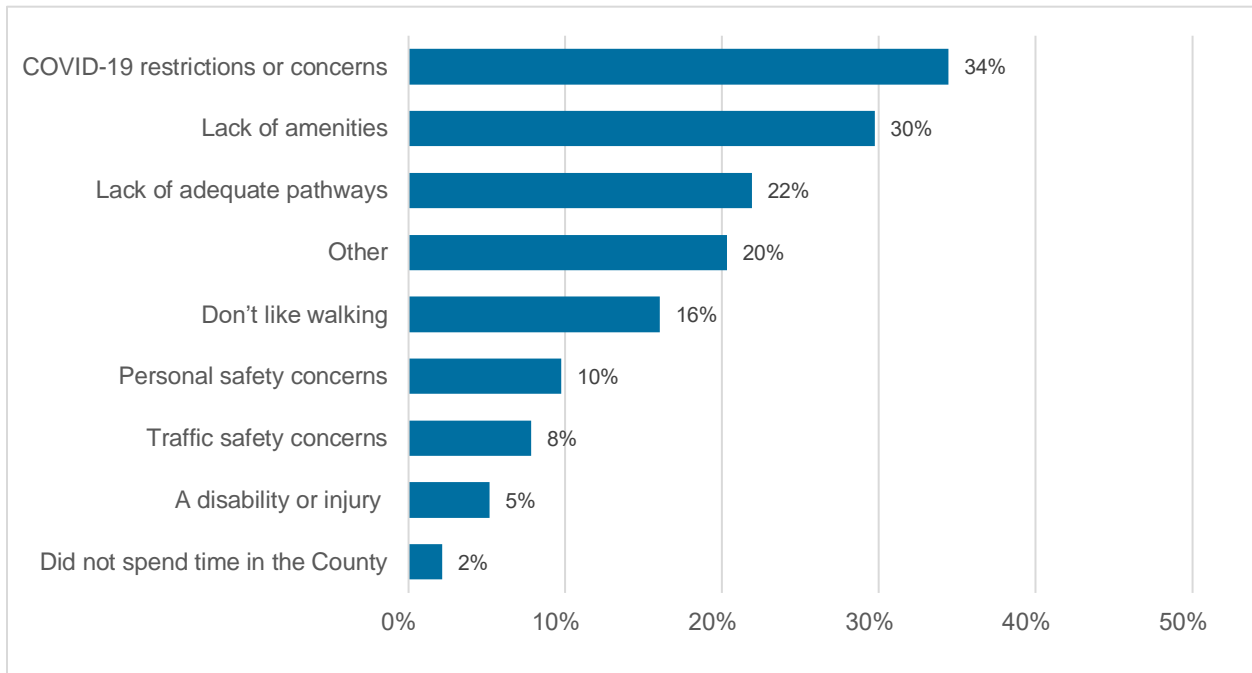


Figure 15 illustrates the reasons why 2% of all respondents did not make any walking or rolling trips in the past month. Thirty-four percent of respondents who did not take a walk trip within the past month cited COVID-19 restrictions and concerns and 30% of respondents cited a lack of amenities (such as shopping, school, park, etc.) within a comfortable walking distance.

FIGURE 15: REASON FOR NO WALKING TRIPS



1.2 PEDESTRIAN LAWS AND SAFETY

The next section of questions asked respondents about their knowledge of pedestrian laws, their perceptions of safety while walking or rolling, and their past experience with harassment or violence while walking or rolling. These charts are segmented by the three project geographies.

Figure 16 illustrates the percentage of respondents who correctly answered each true/false statement. The majority of respondents chose true for the statement “pedestrian must only cross the street in marked crosswalks;” however, the correct answer was false because pedestrians are allowed to cross the road at unmarked crosswalks. Similarly, about two-thirds of respondents incorrectly answered the statement “if there are two intersections in close proximity and one has a signal and the other doesn’t, pedestrians must cross the street at the intersection with a signal,” which is false because a pedestrian is allowed to cross the street at either intersection. There was limited difference in correct answers observed across geography.

FIGURE 16: PEDESTRIAN LAWS CORRECTLY ANSWERED BY GEOGRAPHY

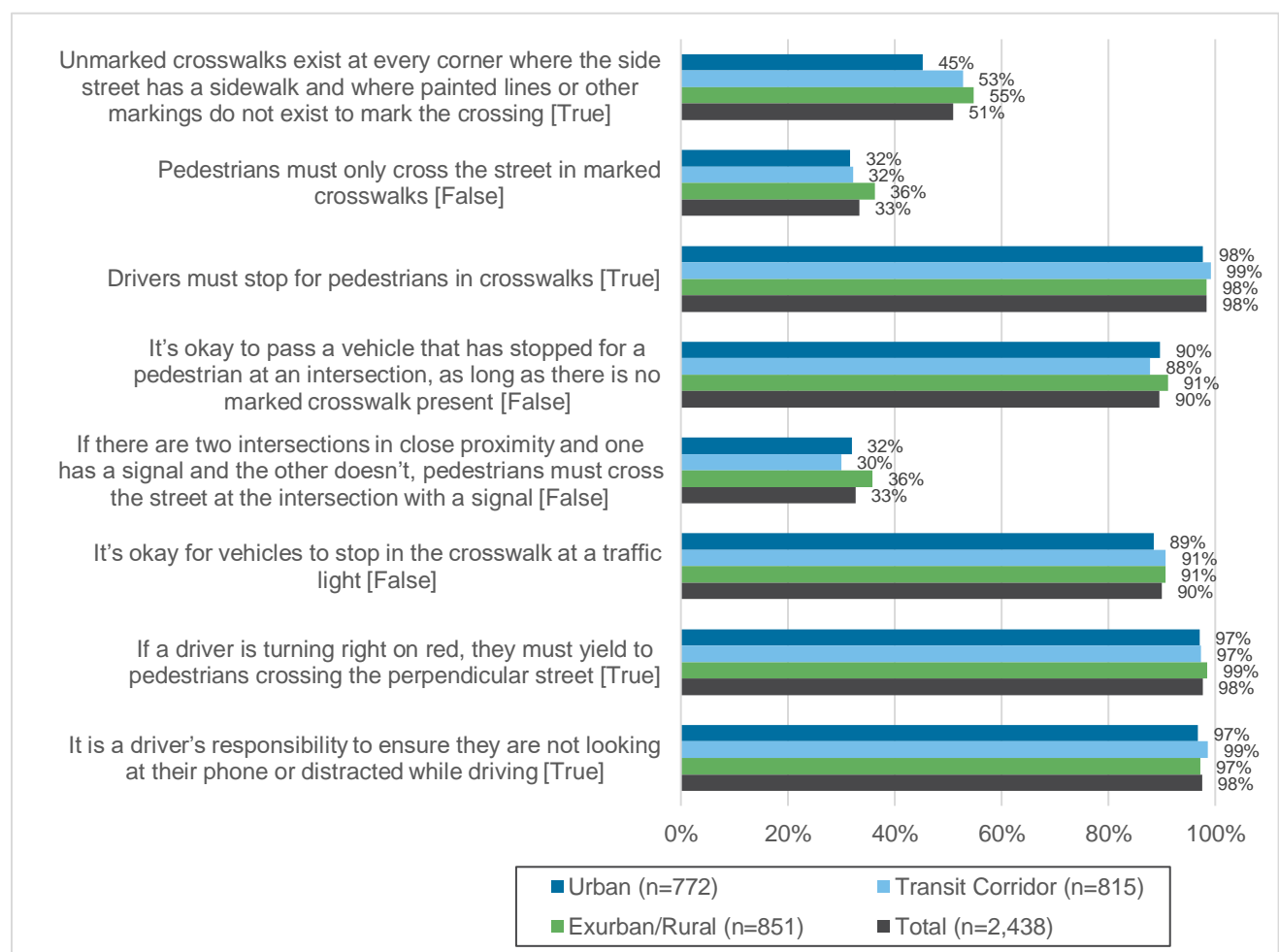


Figure 17 shows the percentage of respondents who correctly answered each true/false statement by race. White respondents were slightly more likely to answer correctly than other respondents on certain questions while on other questions there was little difference observed across race.

FIGURE 17: PEDESTRIAN LAWS CORRECTLY ANSWERED BY RACE

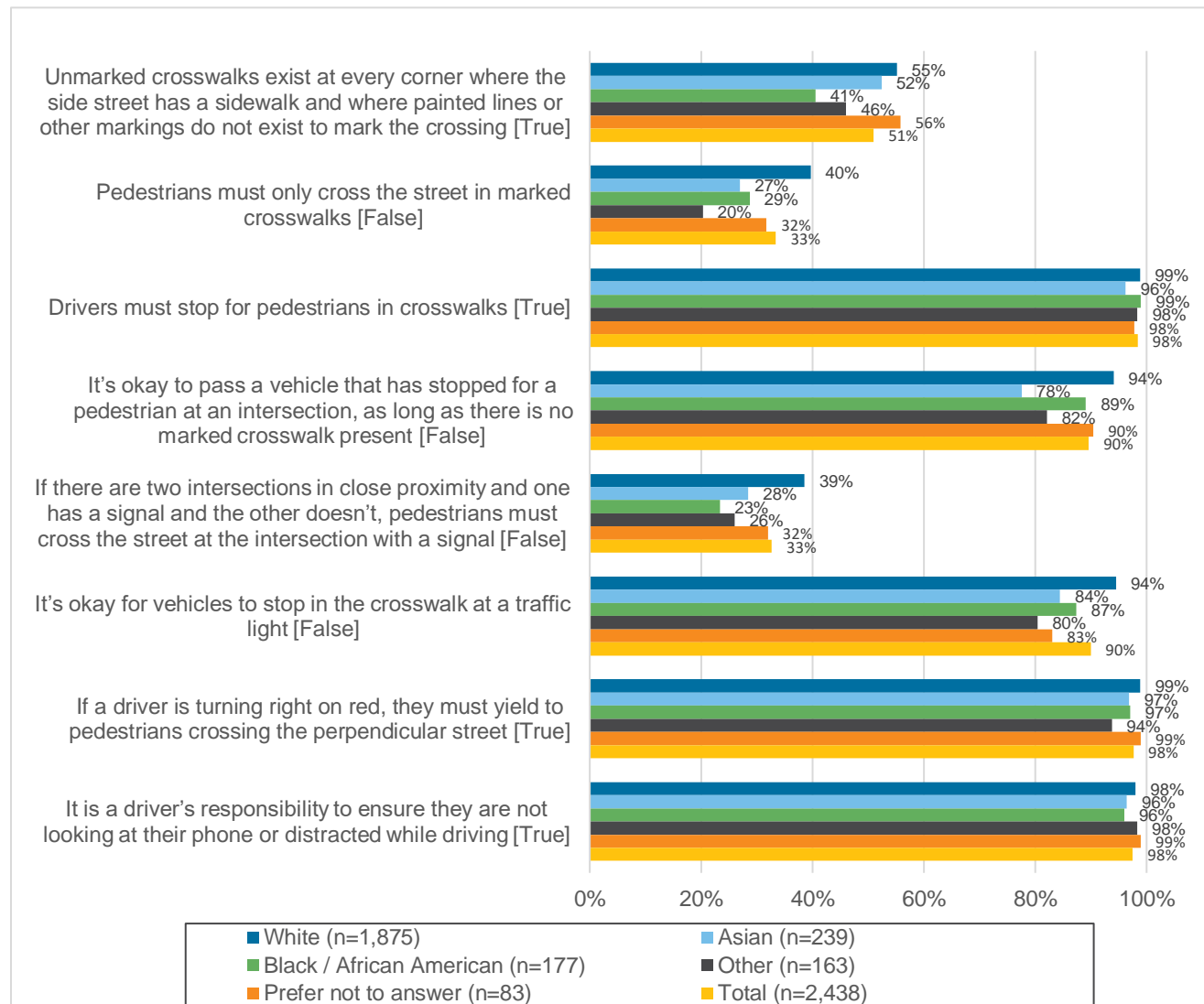
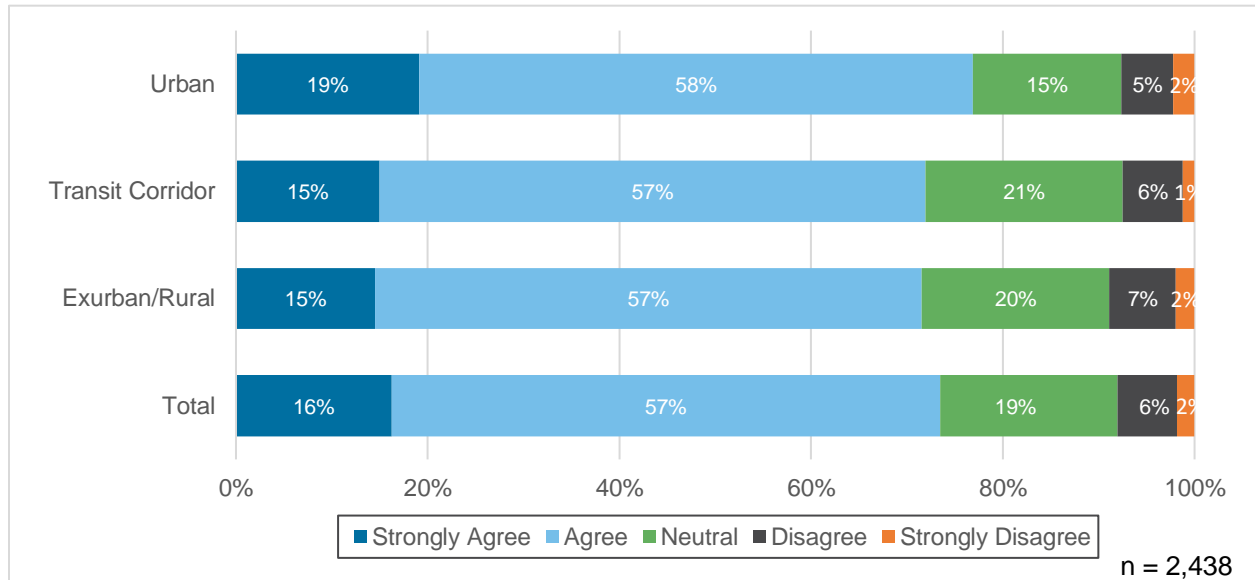


Figure 18 to Figure 26 illustrate respondent's agreement with statements about safety while walking or rolling in Montgomery County. As shown in Figure 18, 73% of respondents agree (or strongly agree) that they feel safe while walking or rolling in Montgomery County.

FIGURE 18: I FEEL SAFE WHILE WALKING OR ROLLING IN PUBLIC SPACES BY GEOGRAPHY



As shown in Figure 19, BIPOC respondents do not feel as safe as white respondents while walking or rolling in Montgomery County.

FIGURE 19: I FEEL SAFE WHILE WALKING OR ROLLING IN PUBLIC SPACES BY RACE

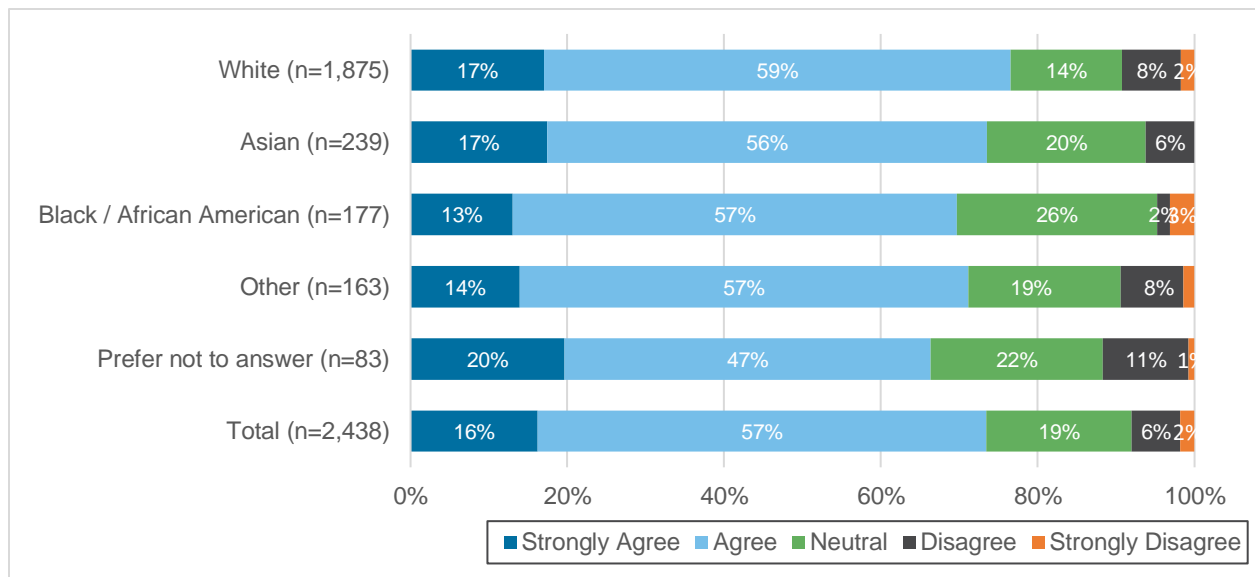


Figure 20 shows that only 66% of Hispanic respondents agree that they feel safe while walking or rolling in Montgomery County; whereas, 75% of non-Hispanic respondents reported feeling safe while walking or rolling in Montgomery County.

FIGURE 20: I FEEL SAFE WHILE WALKING OR ROLLING IN PUBLIC SPACES BY HISPANIC, SPANISH, OR LATINO ORIGIN

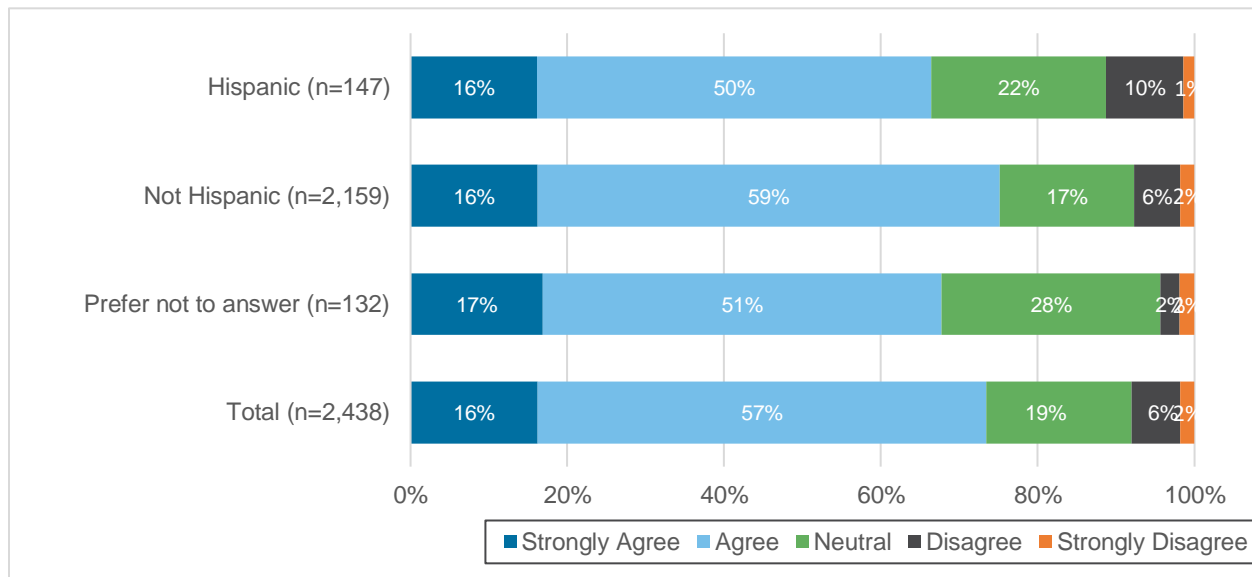
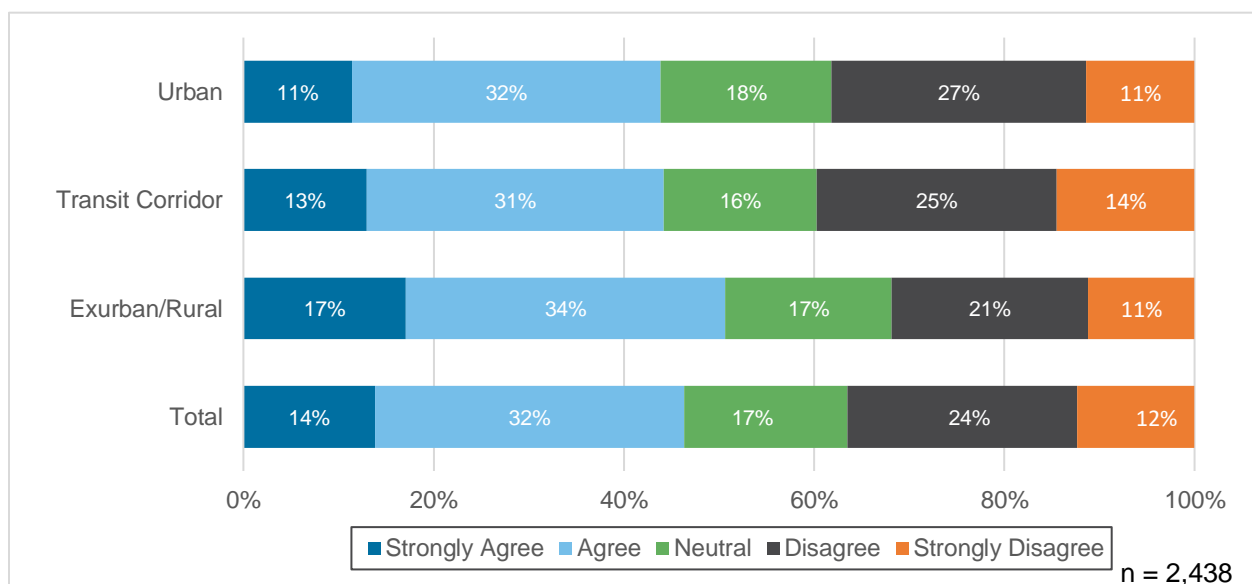


Figure 21 shows that approximately one third of respondents are concerned with the amount of crime in their neighborhood. A higher percentage of respondents reported being concerned about crime in the urban and transit corridor geographies.

FIGURE 21: AMOUNT OF CRIME IN MY NEIGHBORHOOD IS NOT CONCERNING BY GEOGRAPHY



As seen in Figure 22, only 37% of Black or African American respondents agree with the statement that the amount of crime in my neighborhood is not concerning.

FIGURE 22: AMOUNT OF CRIME IN MY NEIGHBORHOOD IS NOT CONCERNING BY RACE

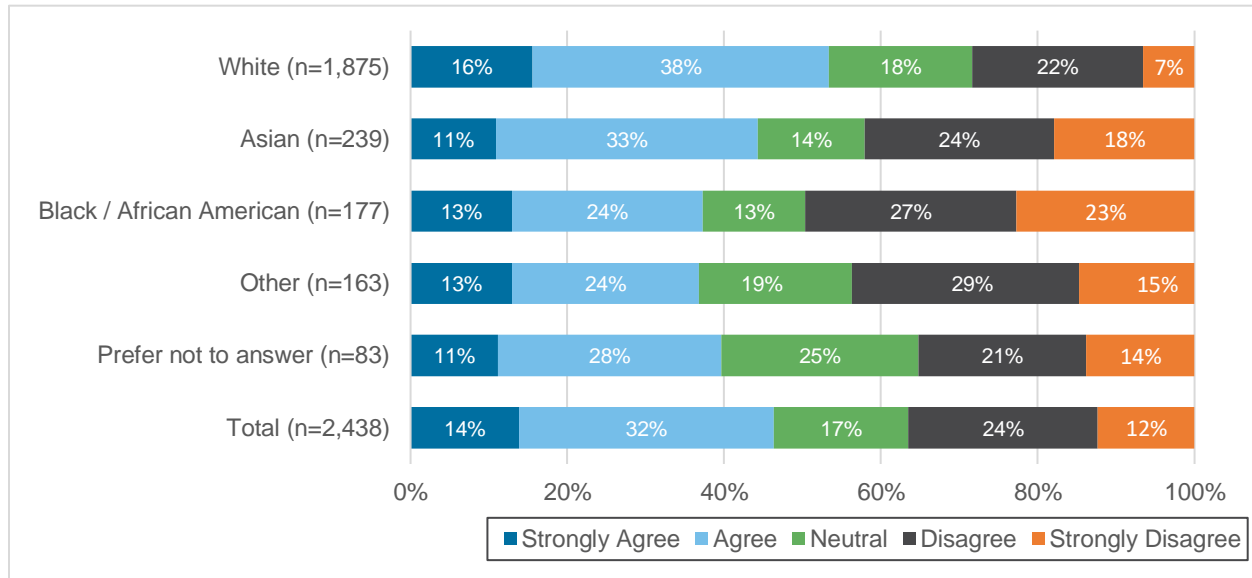


Figure 23 shows that respondents of Hispanic, Spanish or Latino origin are more concerned about the amount of crime in their neighborhood than non-Hispanic respondents.

FIGURE 23: AMOUNT OF CRIME IN MY NEIGHBORHOOD IS NOT CONCERNING BY HISPANIC, SPANISH, OR LATINO ORIGIN

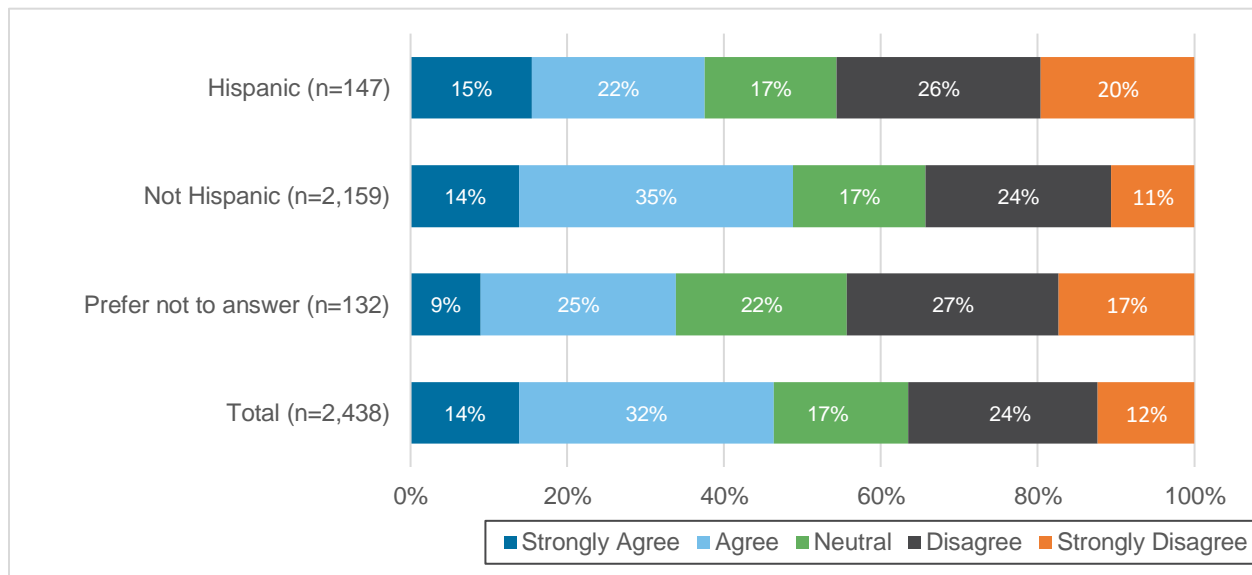


Figure 24 illustrates that 57% of respondents agree that they feel more comfortable when they see police in public spaces.

FIGURE 24: I FEEL MORE COMFORTABLE WHEN I SEE POLICE IN PUBLIC SPACES BY GEOGRAPHY

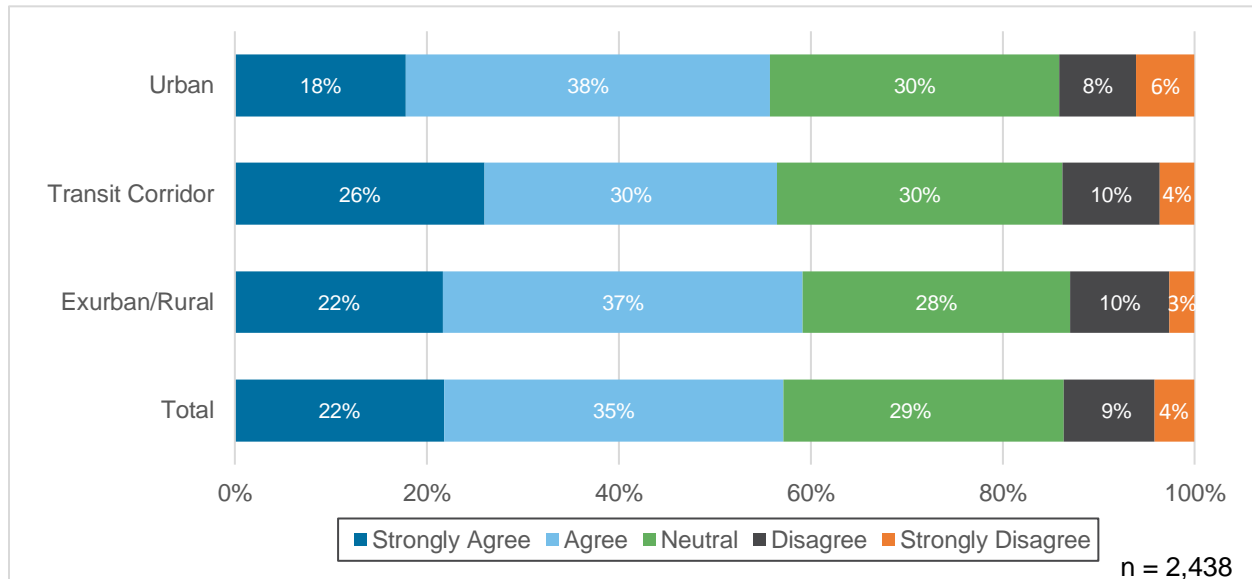
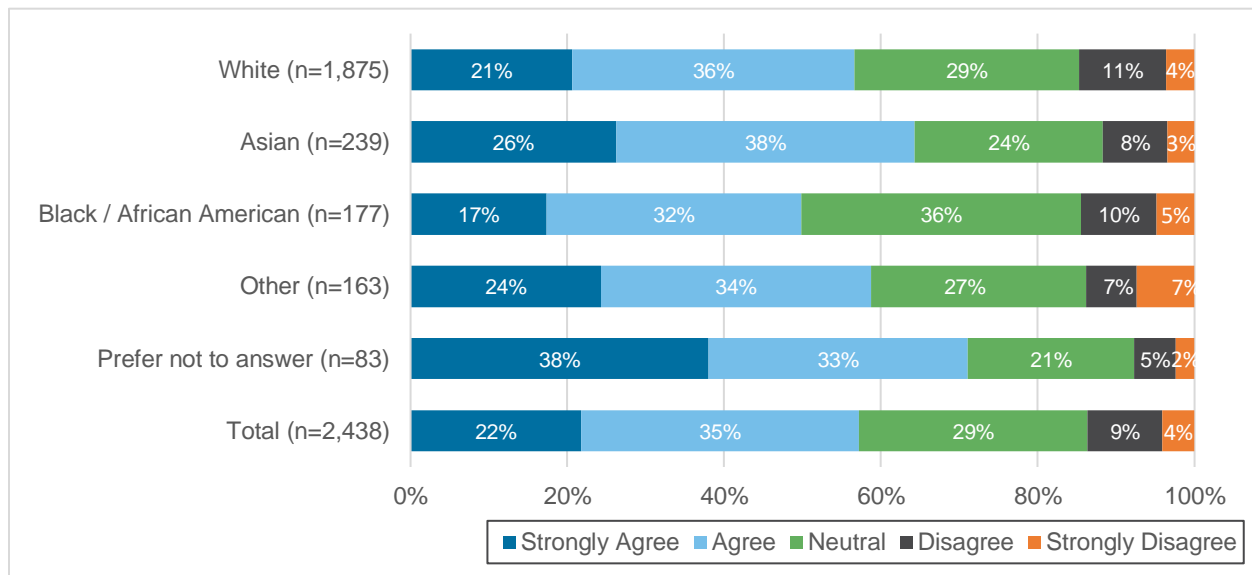


Figure 25 shows that the fewer Black or African American respondents indicate feeling comfortable seeing police in public spaces than white respondents do.

FIGURE 25: I FEEL MORE COMFORTABLE WHEN I SEE POLICE IN PUBLIC SPACES BY RACE



As shown in Figure 26, respondents of Hispanic, Spanish or Latino origin feel more comfortable when they see police in public spaces, compared to non-Hispanic, Spanish or Latino respondents.

FIGURE 26: I FEEL MORE COMFORTABLE WHEN I SEE POLICE IN PUBLIC SPACES BY HISPANIC, SPANISH, OR LATINO ORIGIN

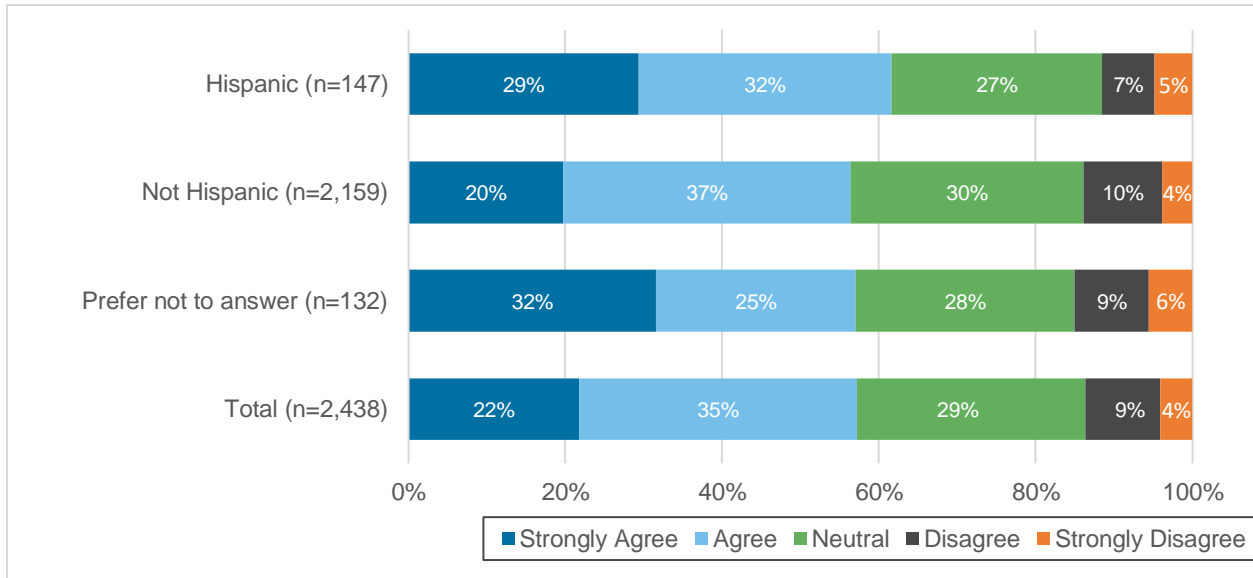


Figure 27 highlights that 74% of respondents have not seen or experienced violence while walking or rolling in Montgomery County. Respondents from the urban geography were more likely to report seeing or experiencing harassment or violence than respondents from the transit corridor geography and the exurban or rural geography. There were no significant findings in an analysis of harassment or violence by gender.

FIGURE 27: HARASSMENT OR VIOLENCE WHILE WALKING BY GEOGRAPHY

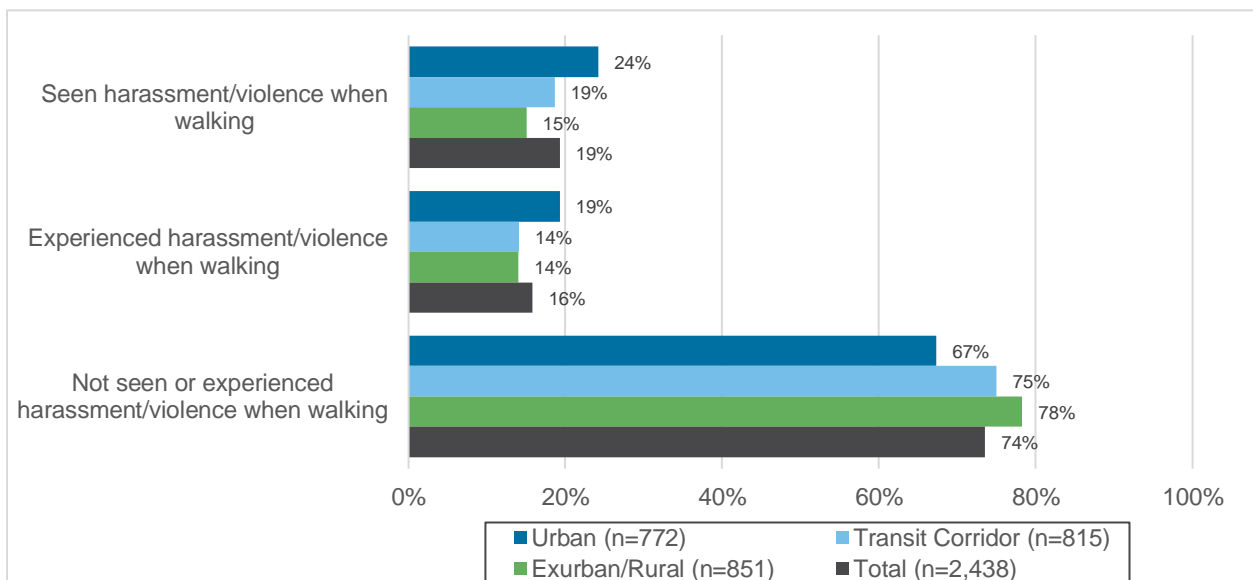
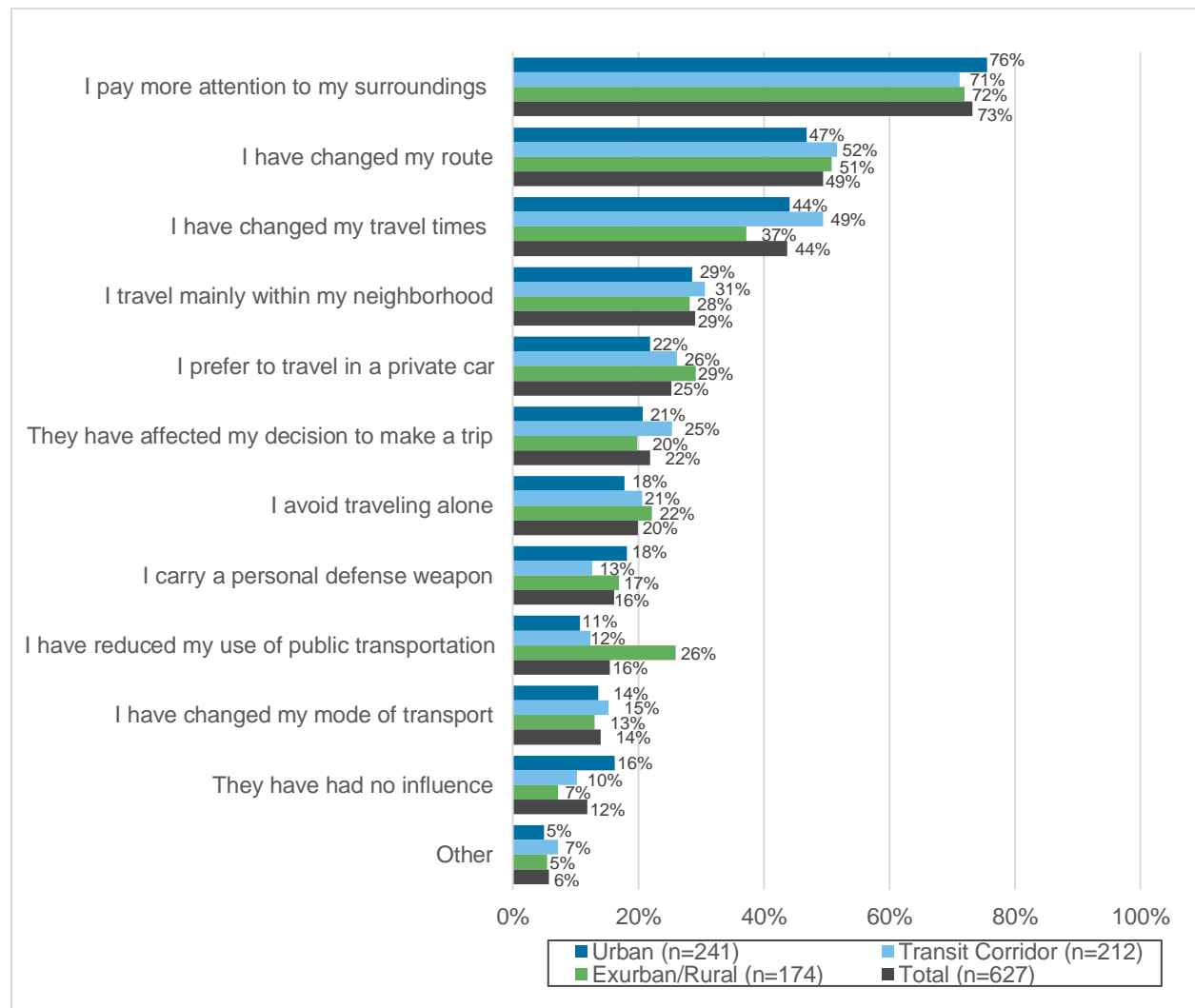


Figure 28 shows the influence on the 627 respondents who had seen or experienced harassment or violence while walking or rolling. The top three impacts reported by respondents were paying more attention to surroundings and other people, changing a route or avoiding certain streets, and changing their travel times or avoiding walking at night.

FIGURE 28: INFLUENCE OF SEEING OR EXPERIENCING HARASSMENT OR VIOLENCE BY GEOGRAPHY



1.3 SATISFACTION AND IMPORTANCE

The next section of the survey asked respondents about their satisfaction with and the importance of different elements of walking or rolling in Montgomery county. These charts are segmented by the three project geographies.

As shown in Figure 29, 52% of respondents are satisfied with their overall pedestrian experience in Montgomery County, with respondents in the urban geography being the most satisfied (60%) and the exurban or rural geography being the least satisfied (46%).

FIGURE 29: SATISFACTION WITH OVERALL PEDESTRIAN EXPERIENCE BY GEOGRAPHY

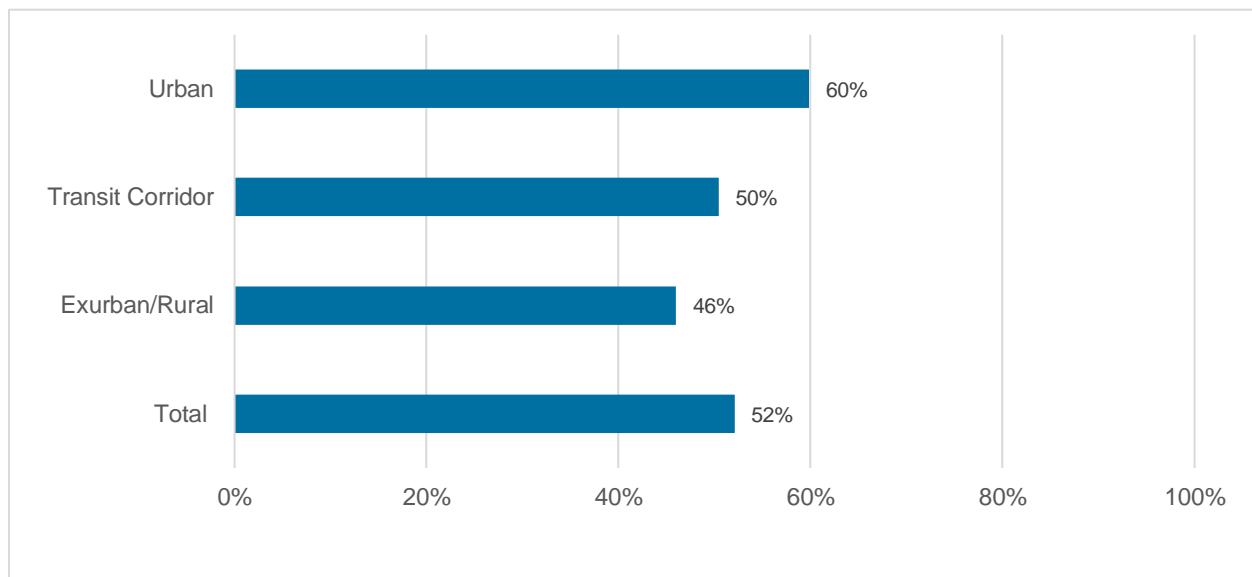


Figure 30 illustrates overall pedestrian satisfaction by race. Overall satisfaction is consistent between different races in Montgomery County.

FIGURE 30: OVERALL SATISFACTION BY RACE

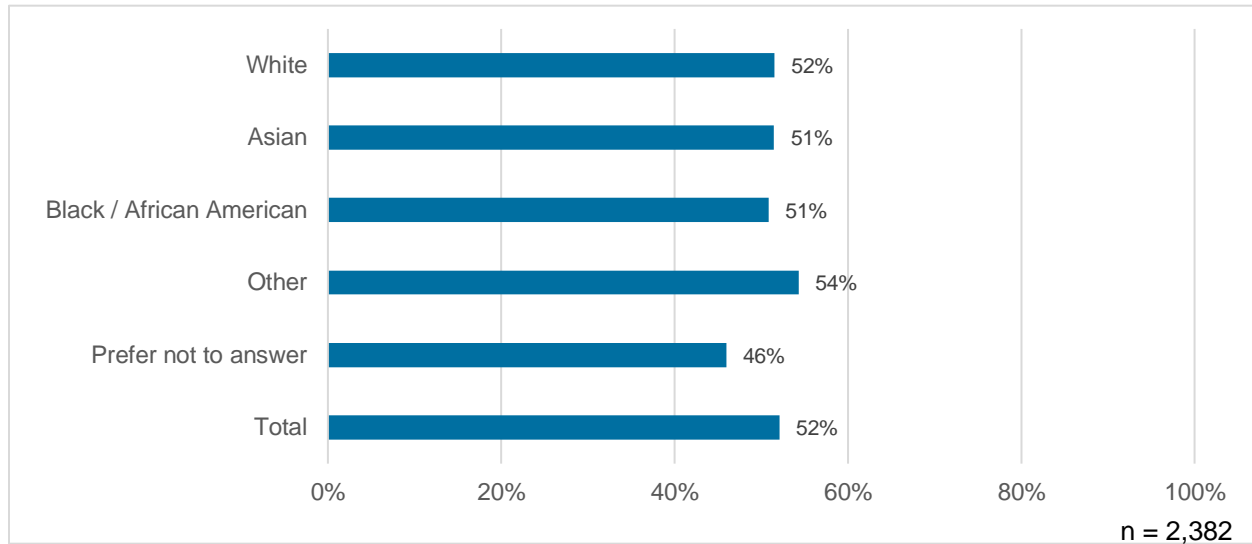


Figure 31 shows overall satisfaction with the pedestrian experience for Hispanic, Spanish or Latino respondents. Fifty-five percent of Hispanic, Spanish or Latino respondents are satisfied with the overall pedestrian experience.

FIGURE 31: OVERALL SATISFACTION BY HISPANIC, SPANISH, OR LATINO ORIGIN

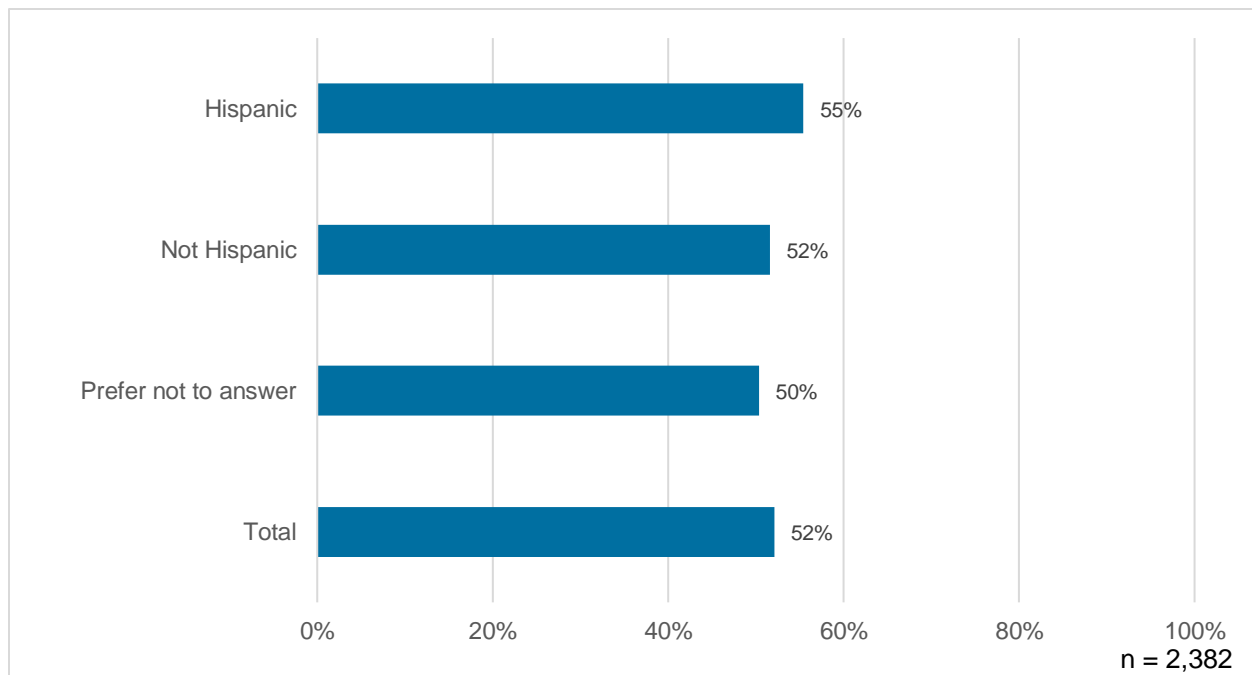


Figure 32 shows satisfaction for overall pedestrian experience by income. Overall pedestrian satisfaction varies little among different income groups.

FIGURE 32: OVERALL SATISFACTION BY HOUSEHOLD INCOME

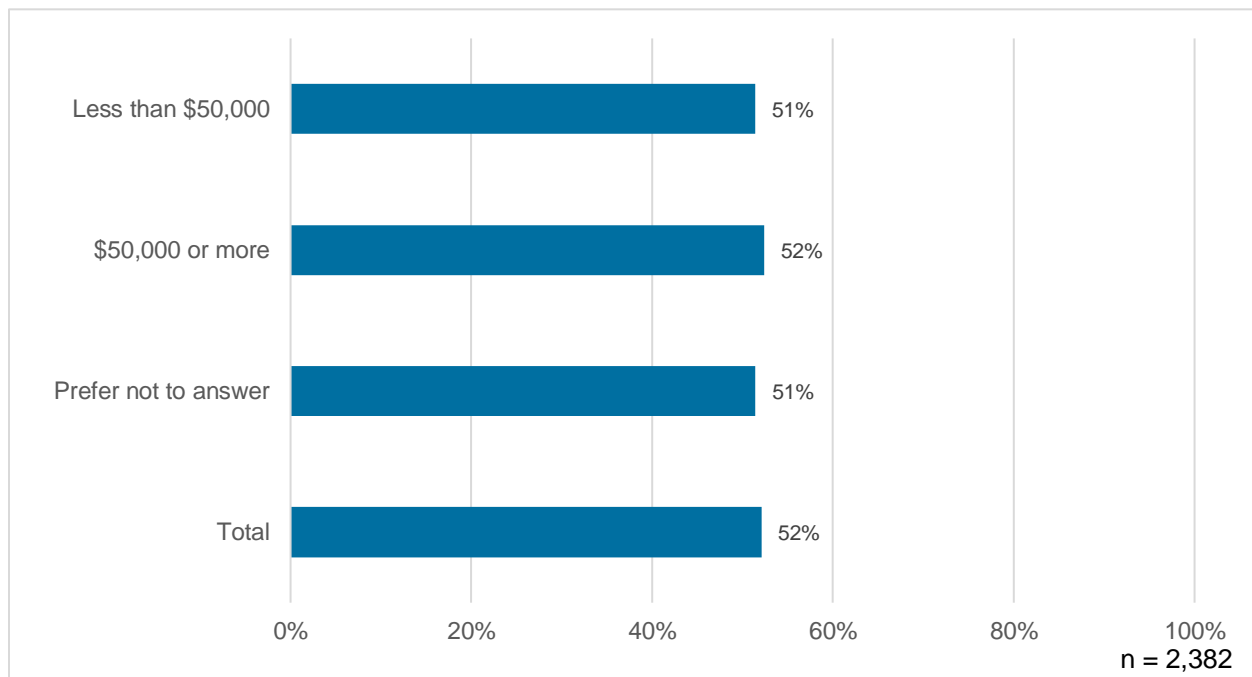


Figure 33 shows overall satisfaction with the pedestrian experience in Montgomery County for those who reported having a disability. Forty-three percent of respondents with a disability are satisfied with the pedestrian experience in Montgomery County, about ten percentage points less than respondents without disabilities.

FIGURE 33: OVERALL SATISFACTION BY DISABILITY

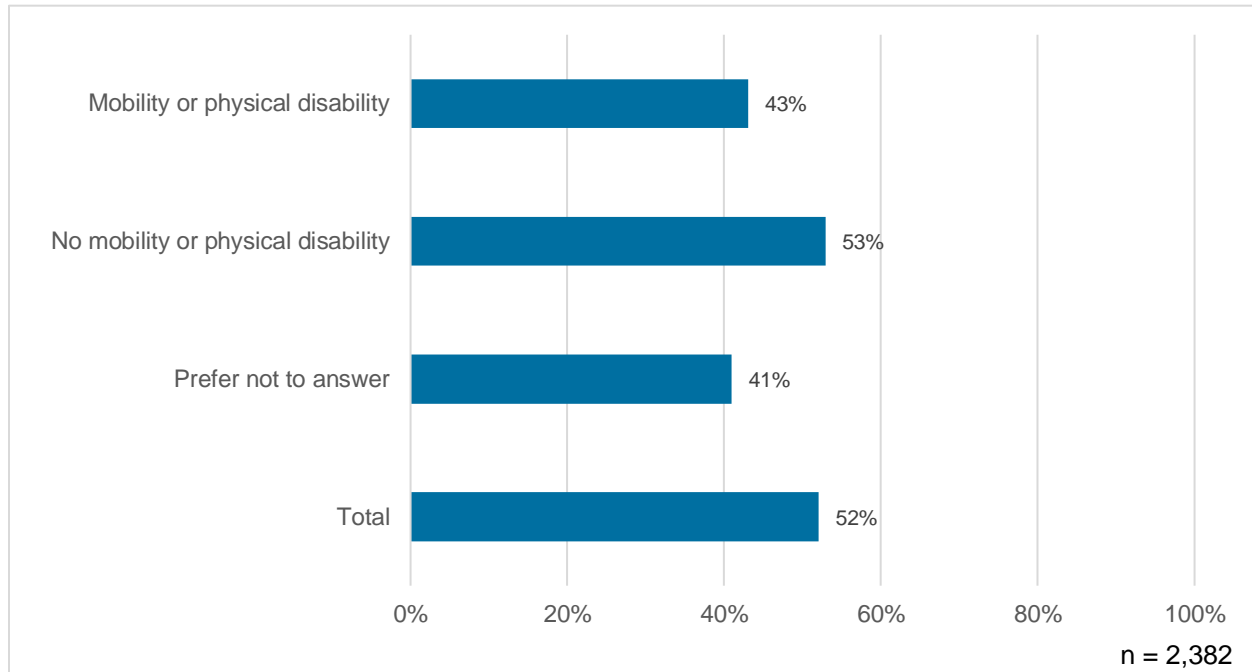


Table 5 lists the five statements shown to respondents with the highest satisfaction. The majority (52%) of respondents are satisfied with personal safety while walking.

TABLE 5: TOP 5 SATISFACTION

Statement	Satisfaction Percentage
Personal safety while walking	52%
Distance to cross the street	49%
Time to cross the street at pedestrian signals	47%
Number of marked crosswalks	46%
Pedestrian signage	46%

Table 6 lists the five statements shown to respondents with the lowest satisfaction. Respondents are least satisfied with the speed of moving cars along sidewalks and paths.

TABLE 6: BOTTOM 5 SATISFACTION

Statement	Satisfaction Percentage
Overhead lighting at crossings	31%
Distance between sidewalks and cars	31%
Snow removal	28%
Number of vehicles cutting across the crosswalk	22%
Speed of moving cars along sidewalks and paths	21%

Figure 34 illustrates the percentage of respondents that are very satisfied or satisfied with each of a series of statements relating to the pedestrian experience of walking or rolling in Montgomery County.

Urban geography respondents are most satisfied with the walking or rolling access to retail, restaurants, parks, etc.; personal safety while walking or rolling; and the amount of sidewalks on their pedestrian route. Those in the urban geography are least satisfied with the number of vehicles cutting across the sidewalk, the speed of moving cars along the sidewalk, and snow removal.

Transit corridor geography respondents are most satisfied with the time to cross the street at pedestrian signals, personal safety while walking or rolling, and the distance to cross the street. Those in the transit corridor geography are least satisfied with the speed of moving cars along the sidewalk, the number of vehicles cutting across the sidewalk, and overhead lighting at locations where I cross the street at night.

Exurban or rural geography respondents are most satisfied with personal safety while walking or rolling, the distance to cross the street, and the wait time for a pedestrian walk signal. Those in the exurban or rural geography are least satisfied with the speed of moving cars along the sidewalk, the number of vehicles cutting across the sidewalk, and snow removal.

FIGURE 34: SATISFACTION BY GEOGRAPHY

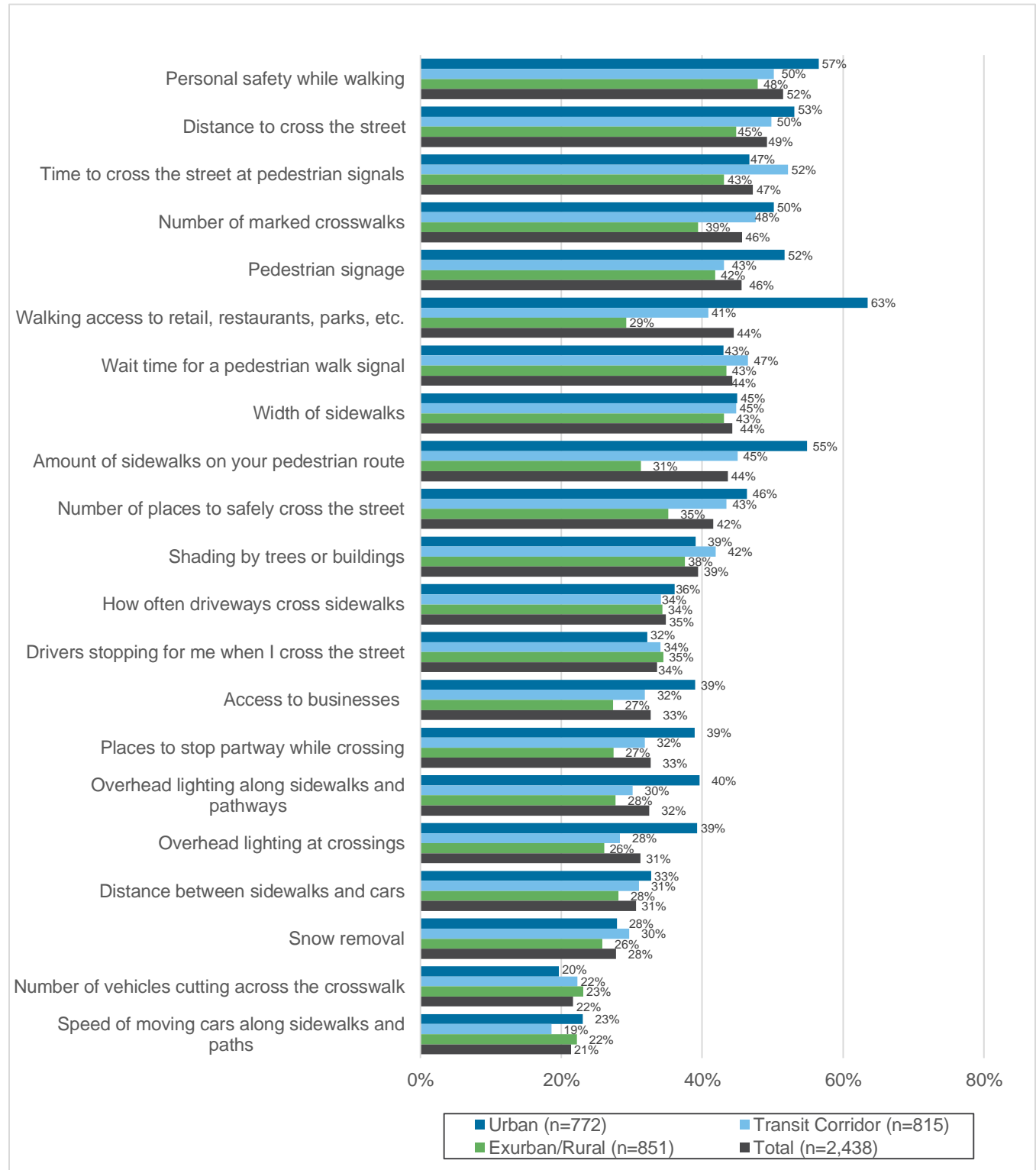


Figure 35 illustrates the percentage of respondents that are very satisfied or satisfied with each of the statements relating to the pedestrian experience of walking or rolling in Montgomery County.

White respondents were most satisfied with their personal safety while walking, the distance to cross the street and the time to cross the street at pedestrian signals. White respondents were least satisfied with the distance between sidewalks and cars on busy streets, speed of moving cars along sidewalks and paths, and number of vehicles cutting across the sidewalk.

Black or African American respondents were most satisfied with the amount of sidewalks on their pedestrian route, personal safety while walking, and wait time for a pedestrian walk signal. Black or African American respondents were least satisfied with snow removal, number of vehicles cutting across the sidewalk and the speed of moving cars along sidewalks and paths.

Asian respondents were most satisfied with personal safety while walking, width of sidewalks and the distance to cross the street. Asian respondents were least satisfied with the overhead lighting at location where I cross the street, number of vehicles cutting across the sidewalk and the speed of moving cars along sidewalks and paths.

FIGURE 35: SATISFACTION BY RACE

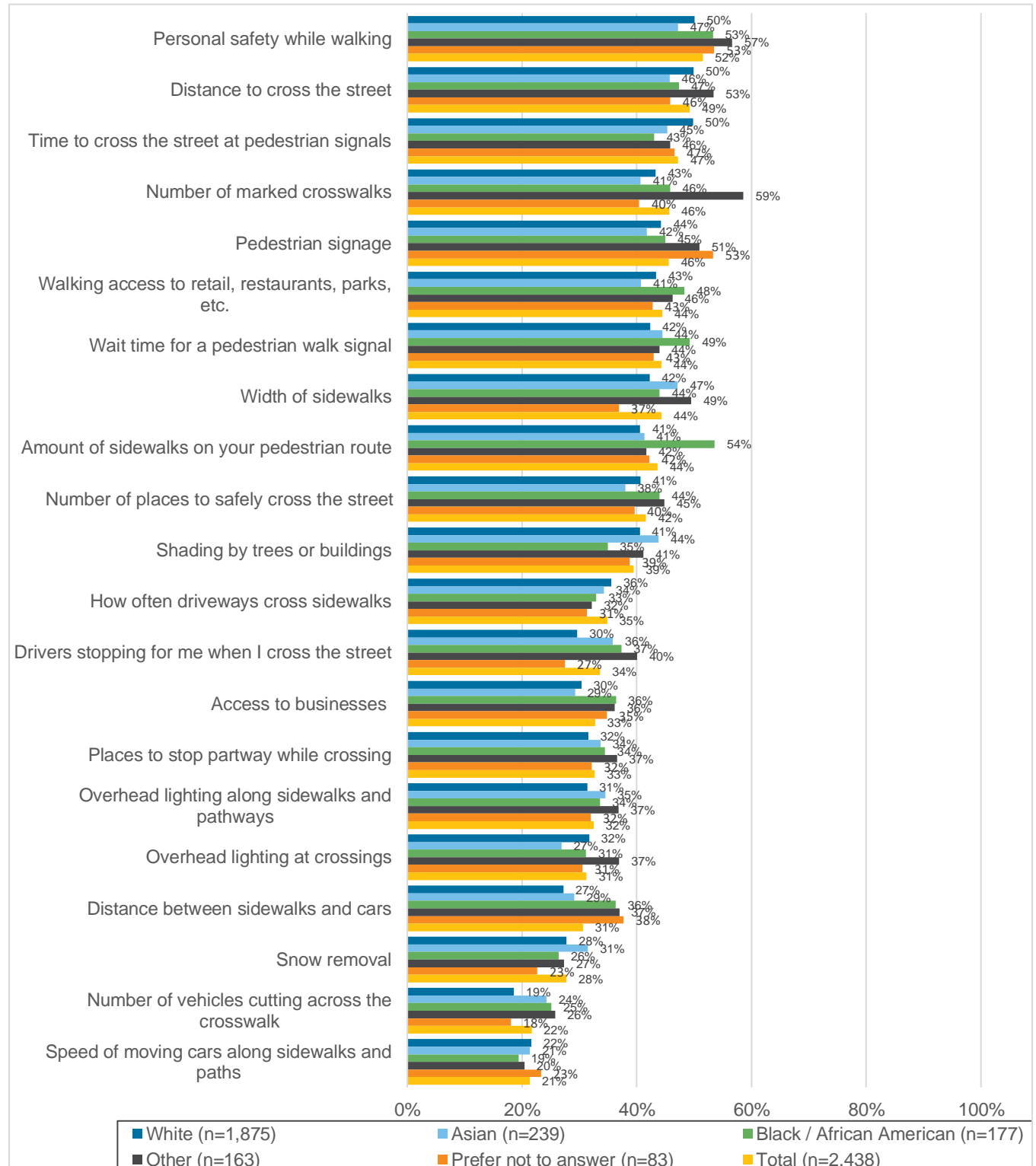


Figure 36 shows the percentage of respondents that are very satisfied or satisfied with each of the statements relating to the pedestrian experience of walking or rolling in Montgomery County.

Hispanic, Spanish or Latino respondents were more satisfied with the majority of the statements when compared to the rest of the sample. Hispanic, Spanish or Latino respondents were most satisfied with their personal safety while walking, the distance to cross the street, and pedestrian signage. Hispanic, Spanish or Latino respondents were least satisfied with the number of vehicles cutting across the sidewalk, speed of moving cars along sidewalks, and snow removal.

FIGURE 36: SATISFACTION BY HISPANIC, SPANISH, OR LATINO ORIGIN

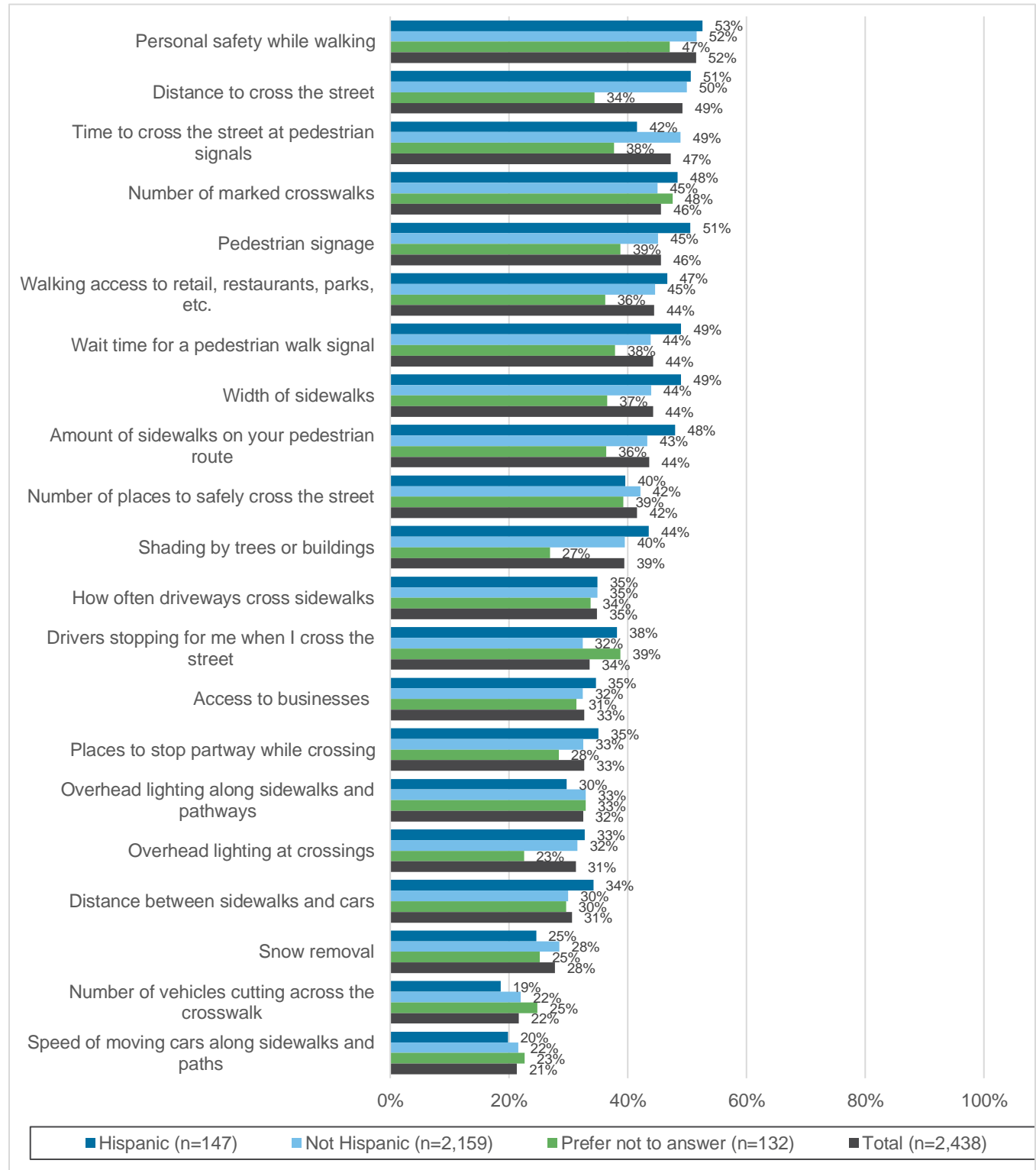


Figure 37 shows the percentage of respondents that are very satisfied or satisfied with each of the statements relating to the pedestrian experience of walking or rolling in Montgomery County.

Respondents who reported a household income of less than \$50,000 were most satisfied with the number of marked crosswalks, walking access to retail, restaurants, parks, etc., and the amount of sidewalks on their pedestrian route. These respondents were least satisfied with the speed of moving cars along sidewalks and paths, number of vehicles cutting across the crosswalk while using it, and snow removal.

Respondents who reported a household income of \$50,000 or more were most satisfied with personal safety, distance to cross the street, and time to cross the street at pedestrian signals. These respondents were least satisfied with the number of vehicles cutting across the crosswalk while using it, the speed of moving cars along sidewalks and paths, and snow removal.

FIGURE 37: SATISFACTION BY HOUSEHOLD INCOME

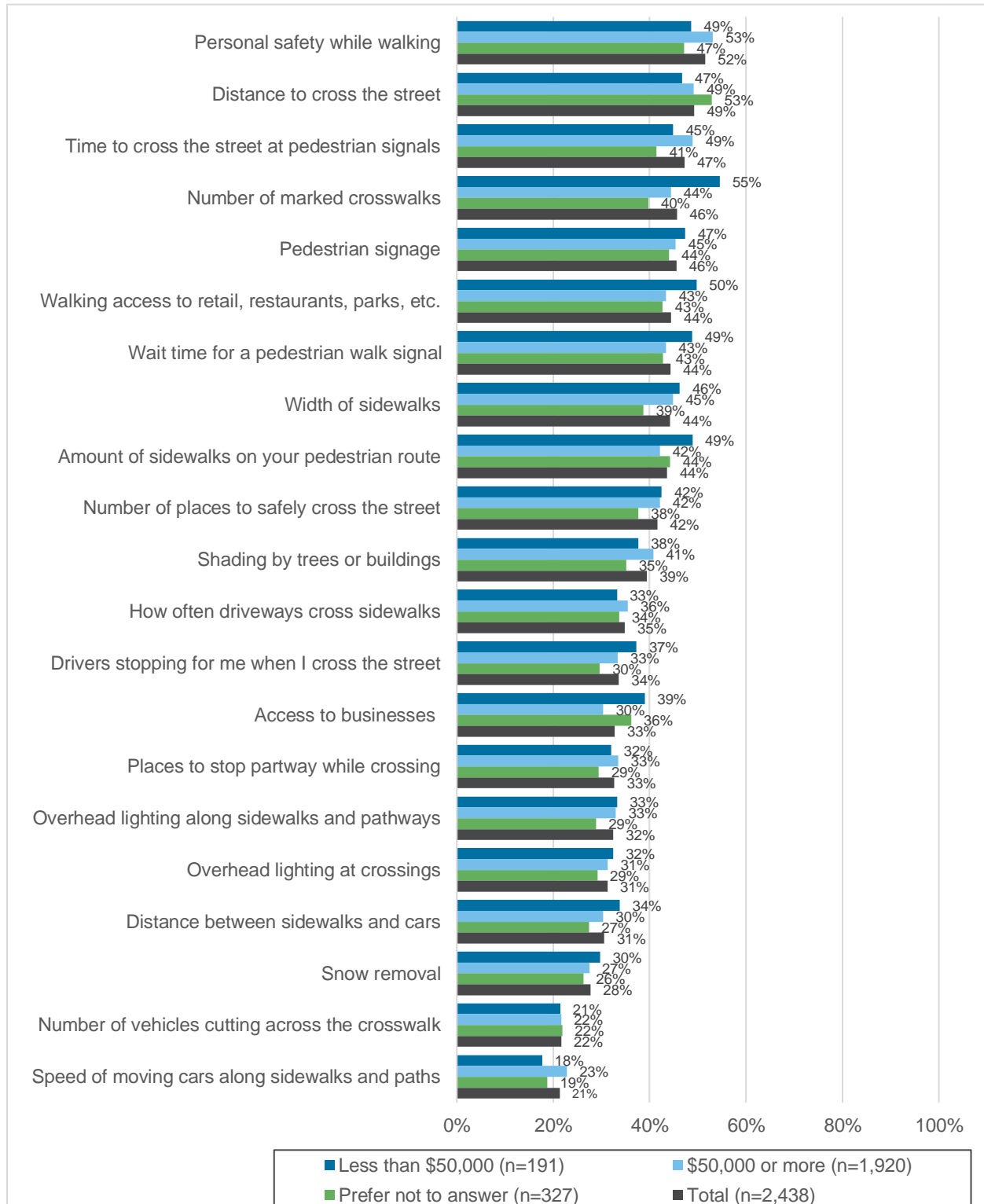
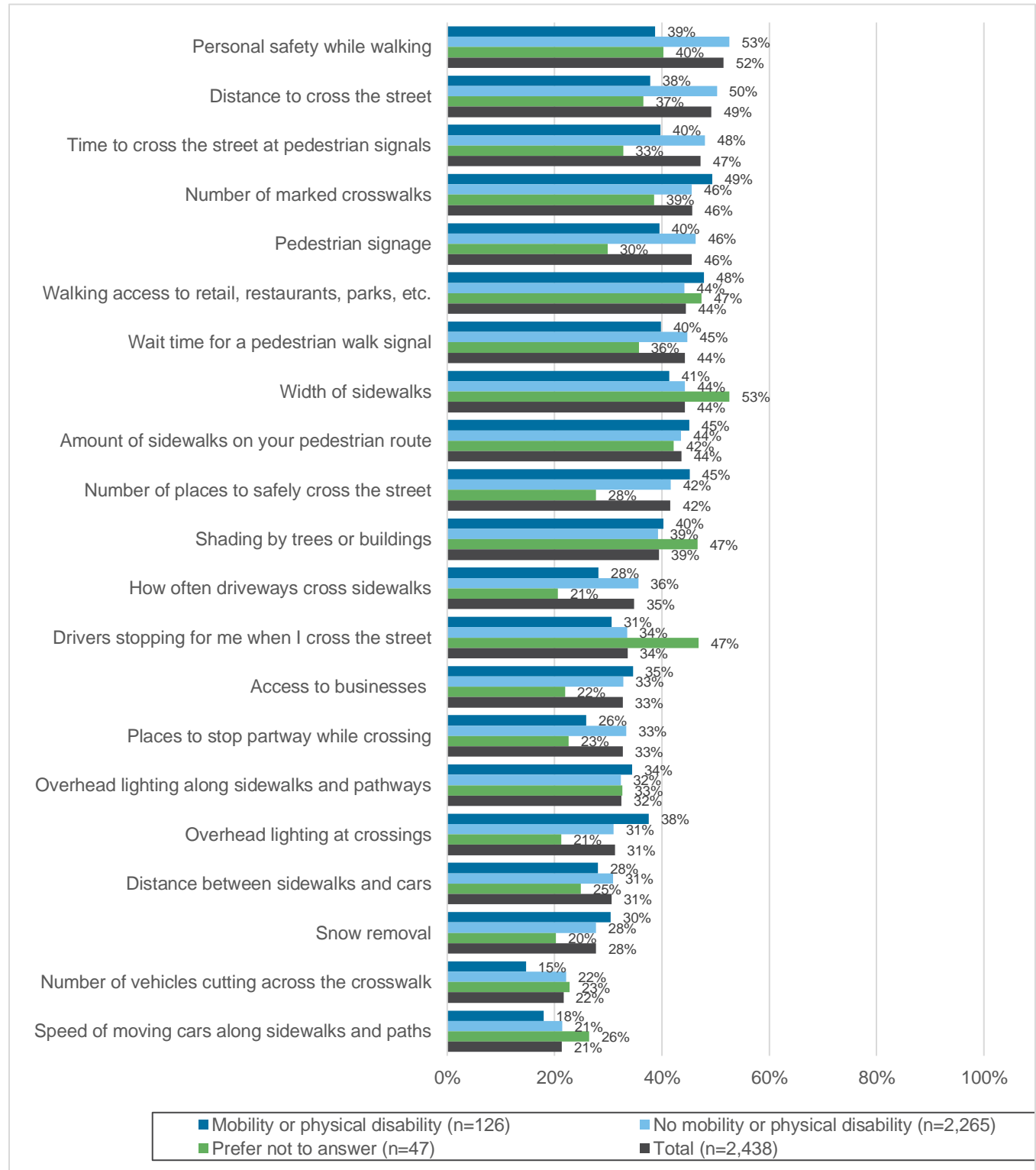


Figure 38 shows the percentage of respondents that are very satisfied or satisfied with each of the statements relating to the pedestrian experience of walking or rolling in Montgomery County.

Respondents who reported having a disability were most satisfied with the number of marked crosswalks, walking access to retail, restaurants, parks, etc., and the number of places to safely cross the street. Respondents who reported having a disability were least satisfied with the number of vehicles cutting across the crosswalk while using it, the speed of moving cars along sidewalks and paths, and the number of places to stop partway while crossing wider streets.

Only 39% of respondents who reported having a disability are satisfied with personal safety while walking or rolling, whereas, 53% of respondents who reported not having a disability are satisfied with their personal safety while walking.

FIGURE 38: SATISFACTION BY DISABILITY



The following tables and figures use the averaged MaxDiff utilities to rank the importance of each characteristic associated with the walking or rolling experience in Montgomery County. Values are presented as normalized utility between zero and one hundred.

Table 7 lists the five statements shown to respondents with the highest averaged importance score. New sidewalks along my pedestrian route is the most important aspect for survey respondents.

TABLE 7: TOP 5 IMPORTANCE

Statement	Avg. Importance Score
New sidewalks along my pedestrian routes	73
I feel safer while walking	66
Drivers more consistently stop for me	64
More places for me to safely cross streets	64
Walk on sidewalks that are further away from cars	62

Table 10 lists the five statements shown to respondents with the lowest averaged importance score. Fewer driveways crossing sidewalks is the least important statement for survey respondents.

TABLE 8: BOTTOM 5 IMPORTANCE

Statement	Avg. Importance Score
I have a shorter wait for a pedestrian walk signal	34
Shorter distance for me to cross the street	33
Access more businesses w/o walking through parking lots	30
More clear directional signage	27
Fewer driveways crossing sidewalks	25

Figure 39 shows that respondents in the urban and transit corridor geographies value drivers more consistently stopping for them while crossing the street, new sidewalks along their pedestrian routes where there are not sidewalks, and feeling safer while walking.

Respondents in the exurban or rural geography also value new sidewalks along their pedestrian routes where there are not sidewalks now and feeling safer while walking; respondents in that geography placed significantly more value on those new sidewalks where there currently are none compared to respondents in the other geographies.

Respondents from all geographies ranked fewer driveways crossing sidewalks and pathways they use, more clear directional signage to guide their pedestrian trip, and access to more businesses without walking through parking lots the least important factors.

FIGURE 39: IMPORTANCE BY GEOGRAPHY

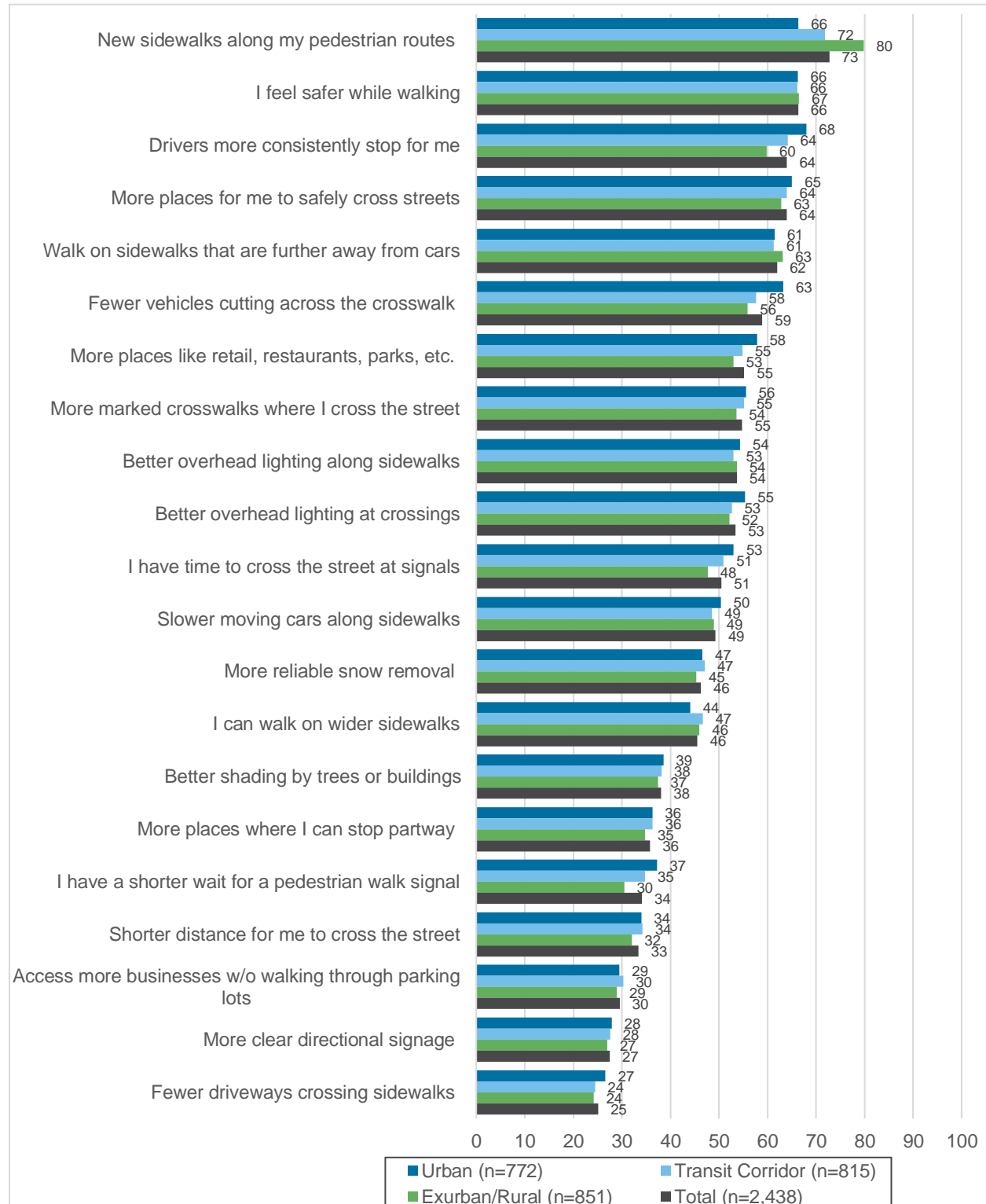


Figure 40 shows the MaxDiff averaged utilities for each the statements relating to the pedestrian experience of walking or rolling in Montgomery County.

White respondents prioritize new sidewalks, drivers more consistently stopping while crossing the street and feeling safer while walking. More clear directional signage, fewer driveway crossings, and access to buildings without walking through parking lots were the least important factors for white respondents.

Black or African American respondents value feeling safer while walking, new sidewalks, and more places to safely cross the street. Fewer driveway crossings, better shading by trees or buildings, and access to buildings without walking through parking lots were the least important factors for black or African American respondents.

Asian respondents reported that new sidewalks, feeling safer while walking, and more places to safely cross the street were the most important factors. More clear directional signage, fewer driveway crossings, and access to buildings without walking through parking lots were the least important factors for white respondents.

FIGURE 40: IMPORTANCE BY RACE

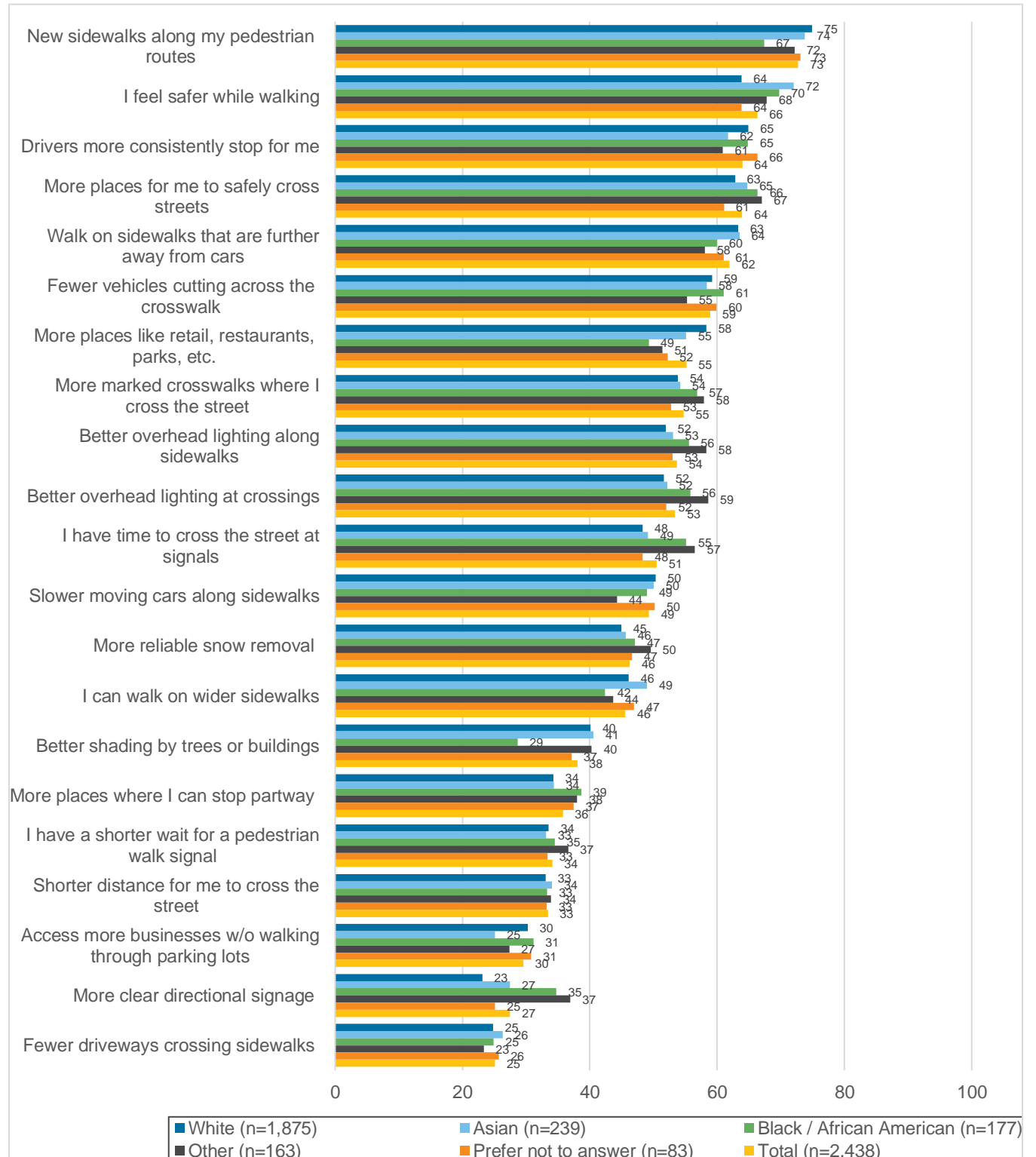


Figure 41 shows the MaxDiff averaged utilities for each the statements relating to the pedestrian experience of walking or rolling in Montgomery County for Hispanic, Spanish, or Latino respondents.

Hispanic, Spanish or Latino respondents prioritize feeling safer while walking, new sidewalks, and more places to safely cross streets. Fewer driveway crossings, access to buildings without walking through parking lots, and shorter distance to cross the street were the least important factors for Hispanic, Spanish or Latino respondents.

FIGURE 41: IMPORTANCE BY HISPANIC, SPANISH, OR LATINO ORIGIN

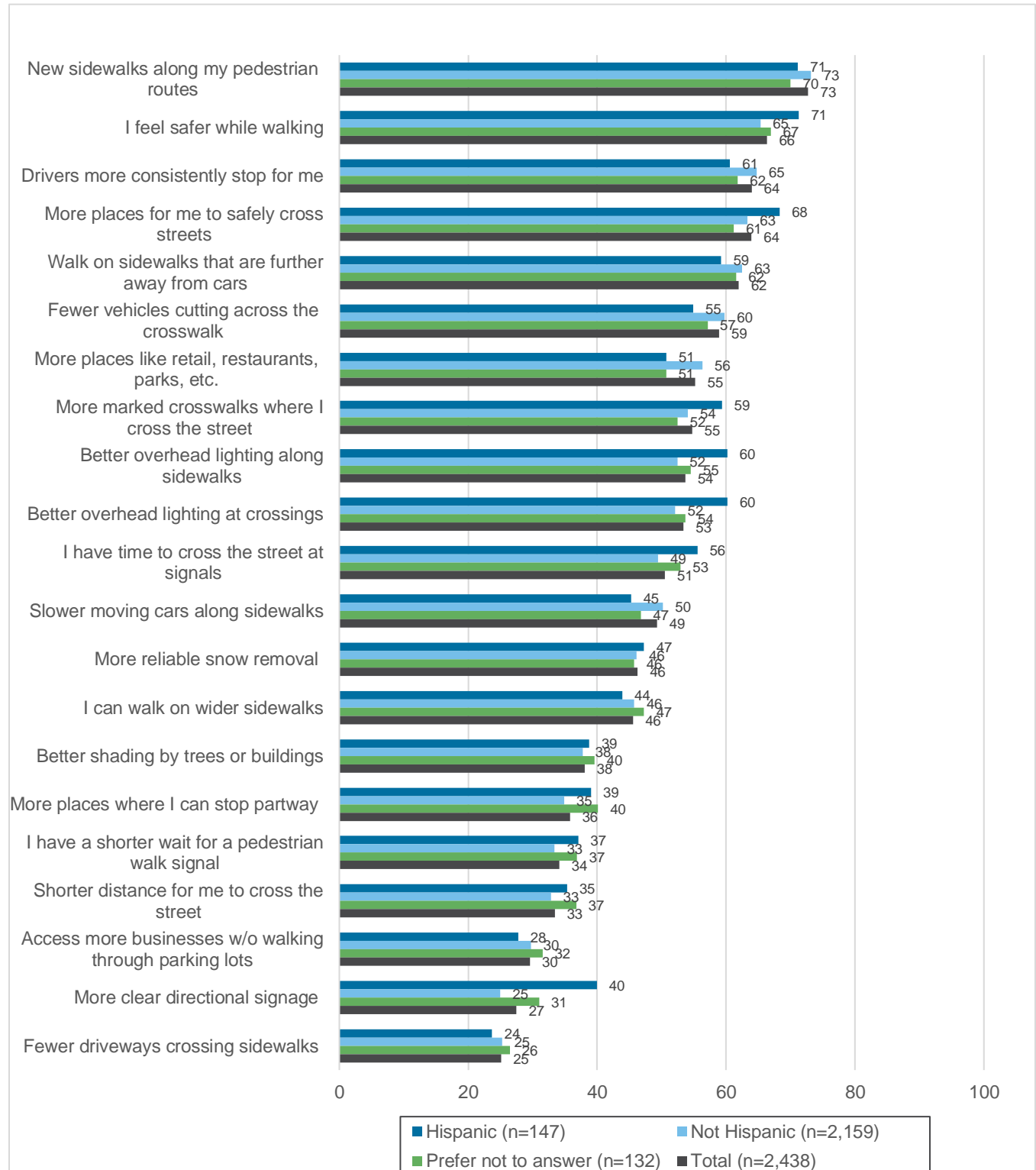


Figure 42 shows the MaxDiff averaged utilities for each of the statements relating to the pedestrian experience of walking or rolling in Montgomery County.

Respondents who reported a household income of \$50,000 or less prioritize feeling safer while walking, more places to safely cross streets, and new sidewalks. Fewer driveway crossings, access to buildings without walking through parking lots, and better shading by trees or buildings were least important among respondents who reported a household income of \$50,000 or less.

Respondents who reported a household income of \$50,000 or more prioritize new sidewalks, feeling safer while walking, and more places to safely cross streets. Fewer driveway crossings, more clear directional signage, and access to buildings without walking through parking lots were least important among respondents who reported a household income of \$50,000 or more.

FIGURE 42:IMPORTANCE BY HOUSEHOLD INCOME

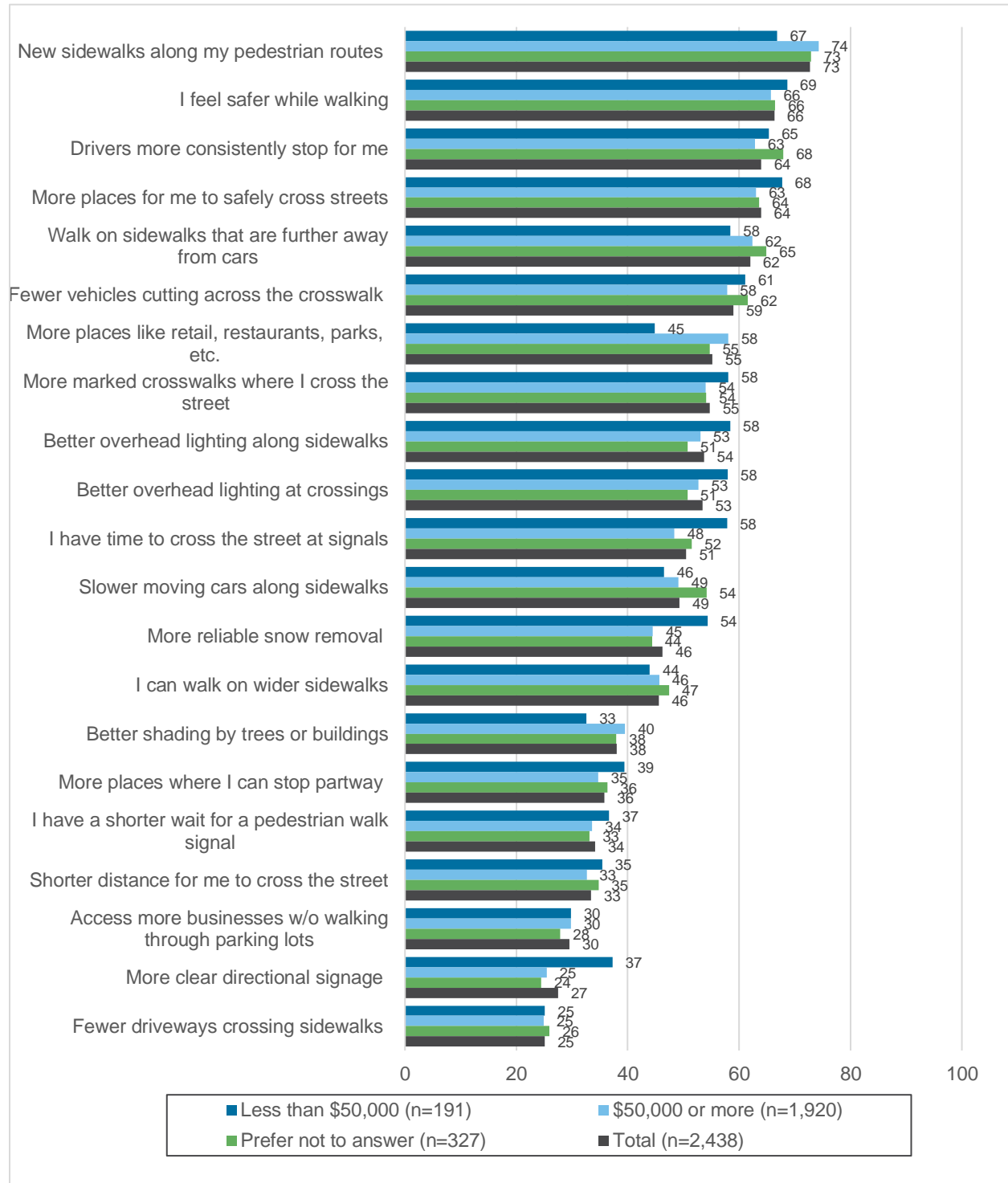


Figure 43 shows the MaxDiff averaged utilities for each the statements relating to the pedestrian experience of walking or rolling in Montgomery County.

Respondents who reported having a disability prioritize drivers more consistently stopping, more places to safely cross the street, and feeling safer while walking. Fewer driveway crossings, more directional signage and better shading by trees or buildings were least important among respondents who reported having a disability.

FIGURE 43: IMPORTANCE BY DISABILITY

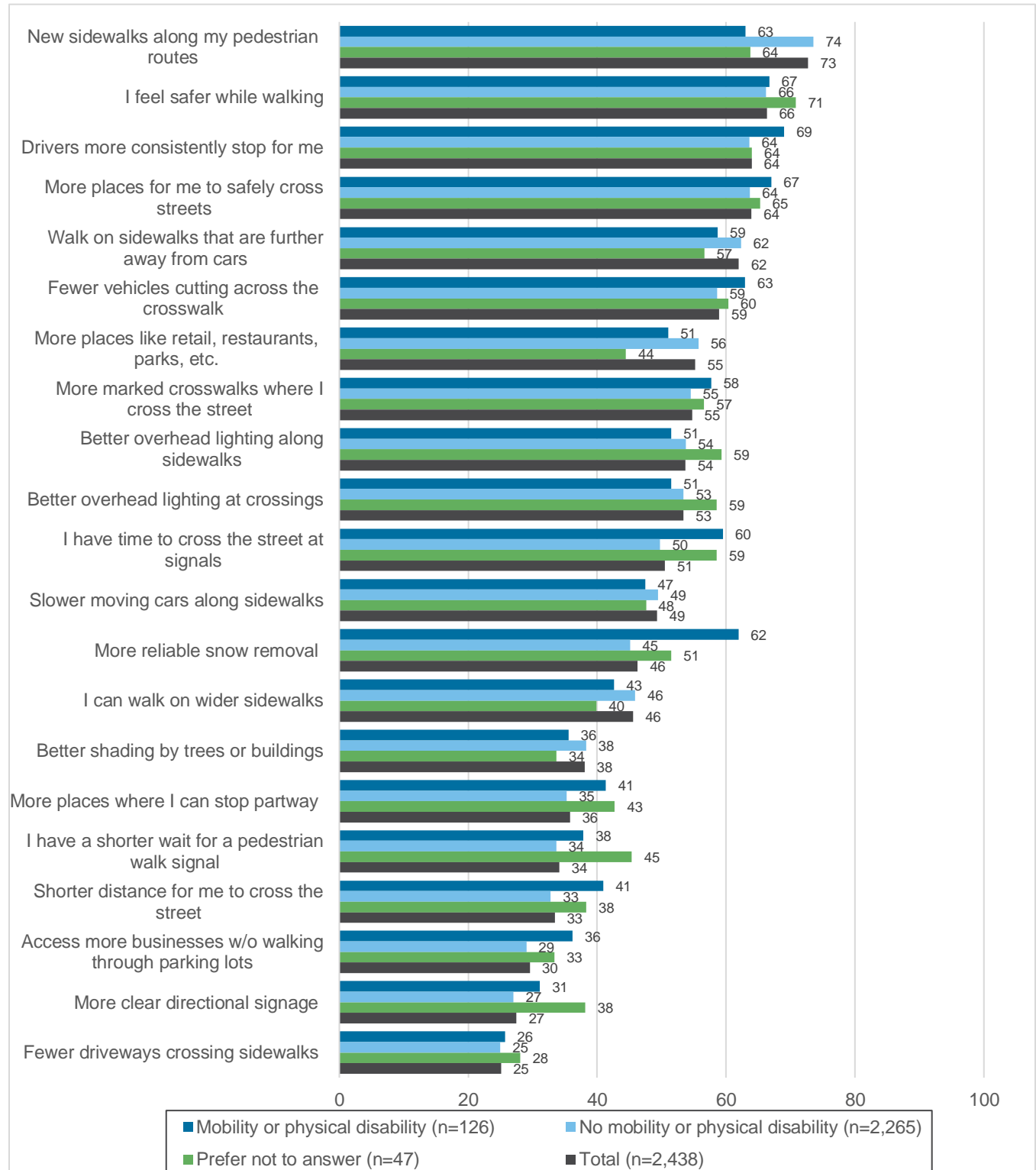


Figure 44 to Figure 47 show quadrant (quad) charts which plot satisfaction against importance for each element relating to walking or rolling in Montgomery County. Each quadrant is labeled in the charts below. Statements in the “critical factors” quadrant indicate high satisfaction and a high importance among respondents. Statements in the “opportunities” quadrant were rated low on satisfaction but high on importance. Statements in the “value improvement” quadrant were rated high on satisfaction but low on importance. Lastly, statements in the “monitor” quadrant were rated low in satisfaction and low in importance.

Figure 44 illustrates importance and satisfaction for all respondents. Throughout these charts, a trend is that many elements in the “value improvement” or “opportunities” quadrants— those most likely to produce substantive impact— involve piecemeal improvements to physical infrastructure within the County.

FIGURE 44: FULL SAMPLE QUAD CHART



Figure 45 illustrates importance and satisfaction for respondents in the urban geography.

FIGURE 45: URBAN QUAD CHART



Figure 46 illustrates importance and satisfaction for respondents in the transit corridor geography.

FIGURE 46: TRANSIT CORRIDOR QUAD CHART

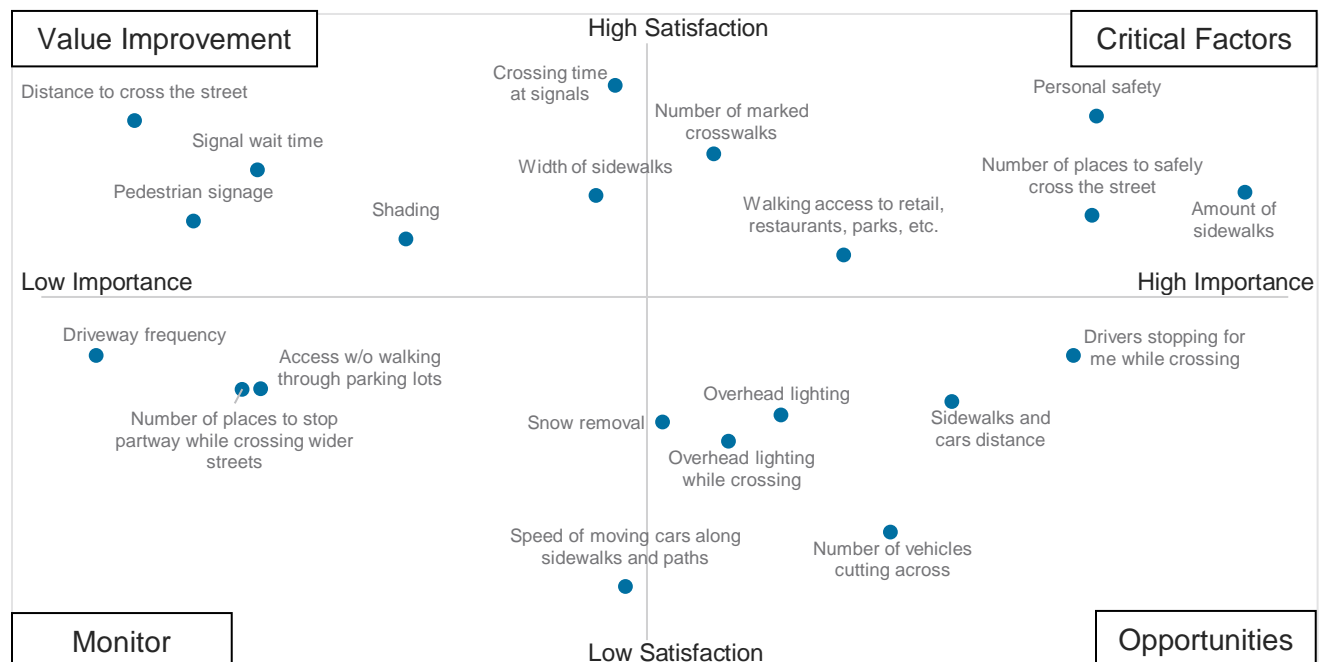
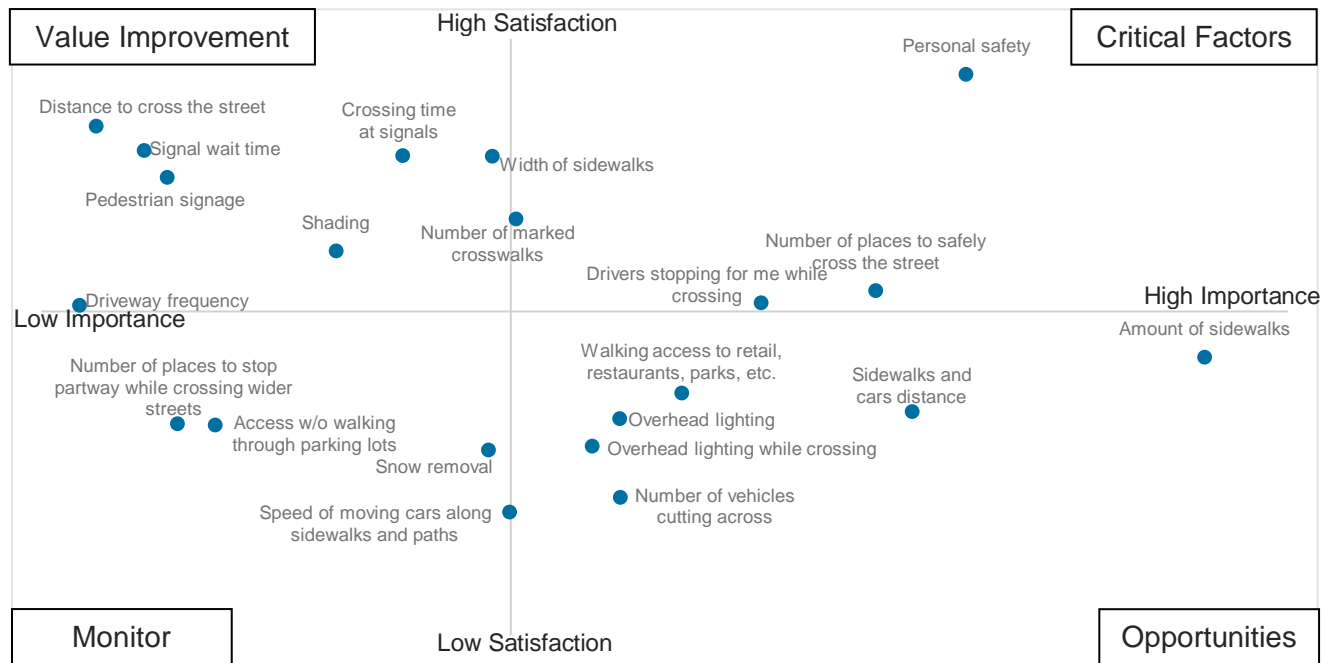


Figure 47 illustrates importance and satisfaction for respondents in the exurban or rural geography.

FIGURE 47: RURAL/EXURBAN QUAD CHART



1.4 COVID-19 IMPACTS

The next section of questions asked all respondents how different types of trips have changed due to COVID-19. These charts were segmented by the three project geographies.

Figure 48 shows the changes in walking trip purposes due to COVID-19. At the time of the survey, fifty-one percent of respondents were taking more walking or rolling trips for exercise or recreation; whereas, 66% of respondents were taking fewer trips to go to restaurants and bars, 53% taking fewer trips to commute to work and 50% taking fewer trips for entertainment.

FIGURE 48: CHANGE IN WALKING OR ROLLING TRIPS DUE TO COVID-19

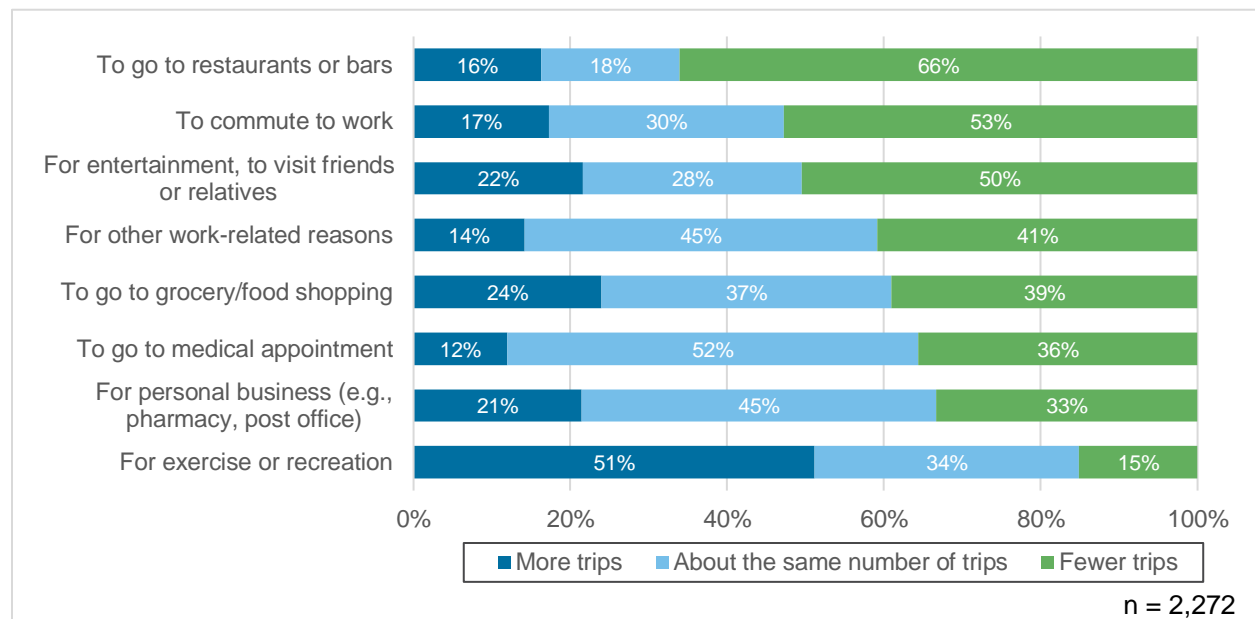


Figure 49 shows work location before the COVID-19 pandemic (mid-March 2020) and Figure 50 shows work location as of Fall 2020. Before COVID-19 only 10% of respondents worked exclusively from home and 52% of respondents worked at a single work location outside of the home; however, in the Fall of 2020, 55% of respondents worked exclusively from home and only 17% of respondents worked at a single location outside of the home.

FIGURE 49: WORK LOCATION BEFORE COVID-19

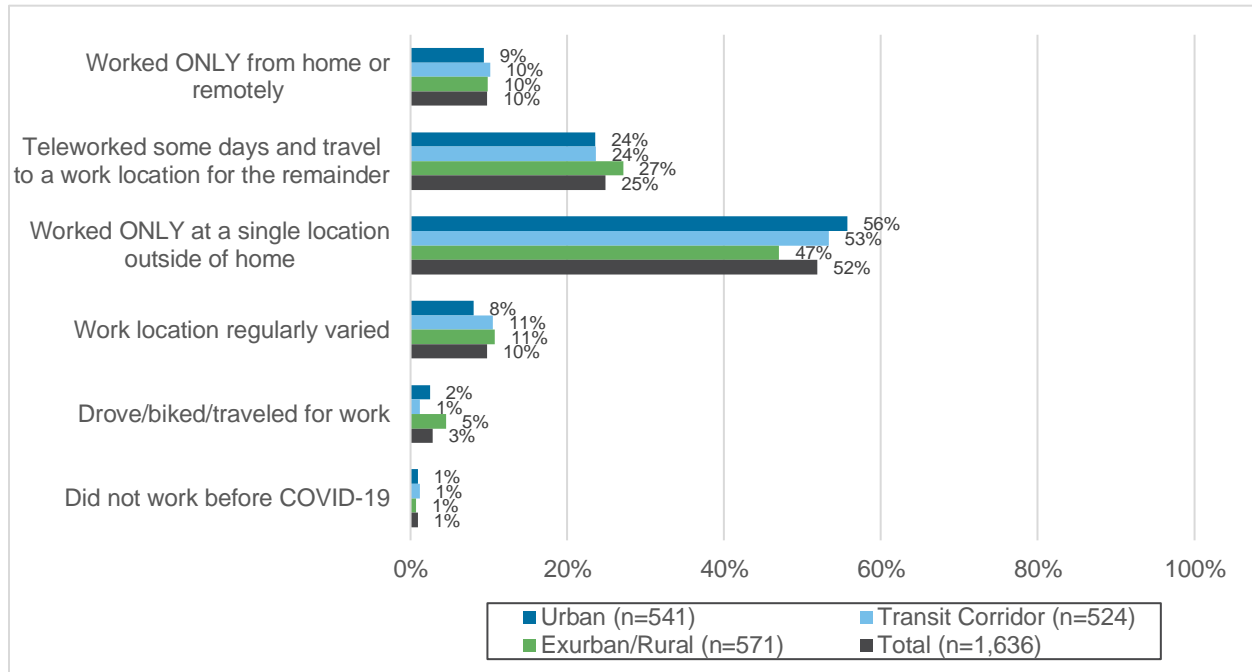


FIGURE 50: WORK LOCATION FALL 2020

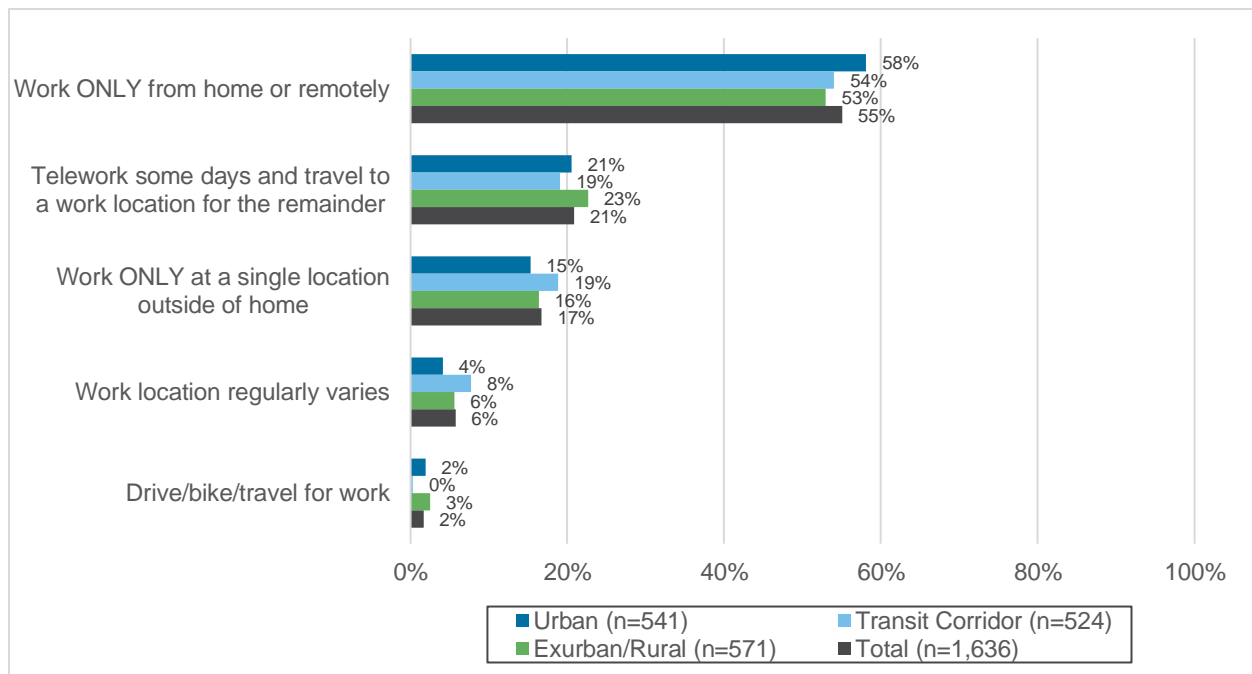


Figure 51 to Figure 53 illustrate the changes in telecommuting due to the COVID-19 pandemic. Respondents indicated that they were telecommuting more during Fall 2020 than before

COVID-19 and expect to continue to work from home more frequently once COVID-19 is no longer a threat.

FIGURE 51: TELEWORK FREQUENCY BEFORE COVID-19

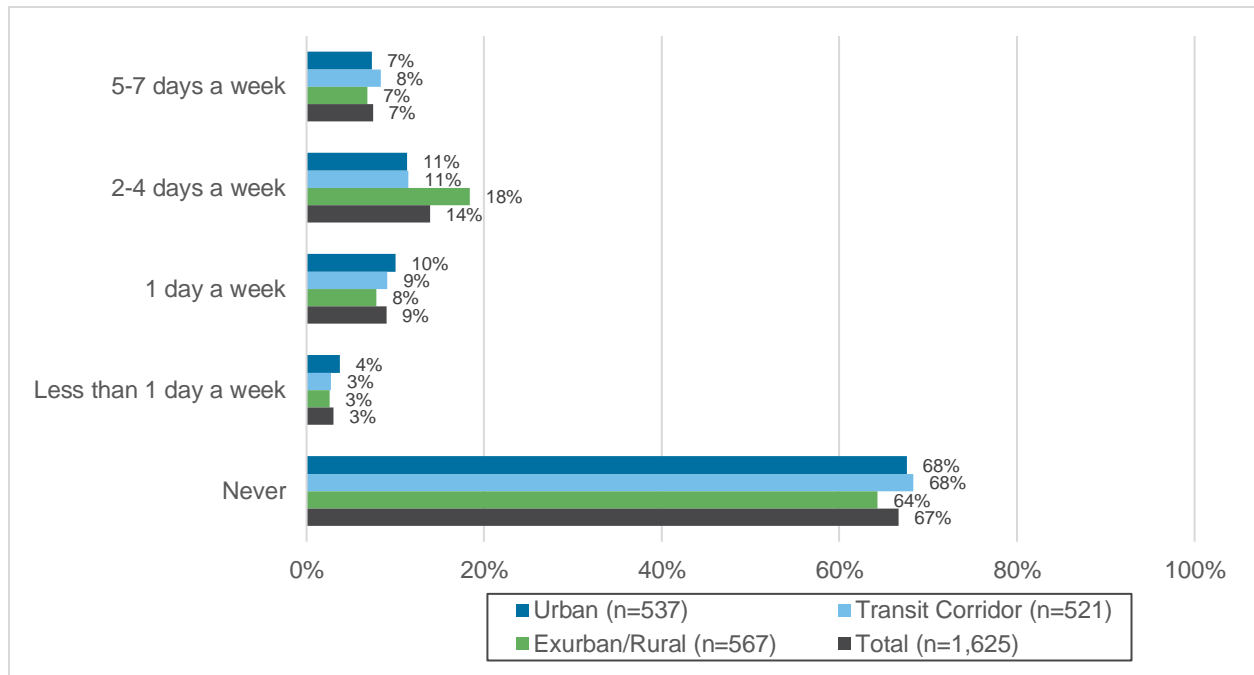


FIGURE 52: TELEWORK FREQUENCY FALL 2020

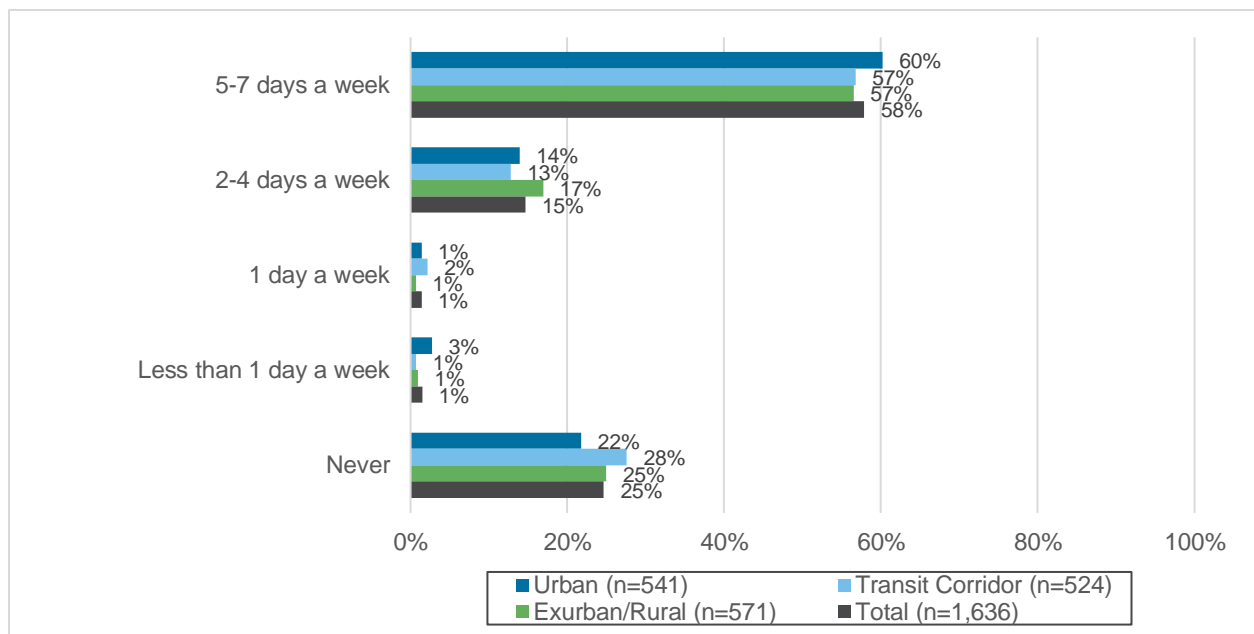
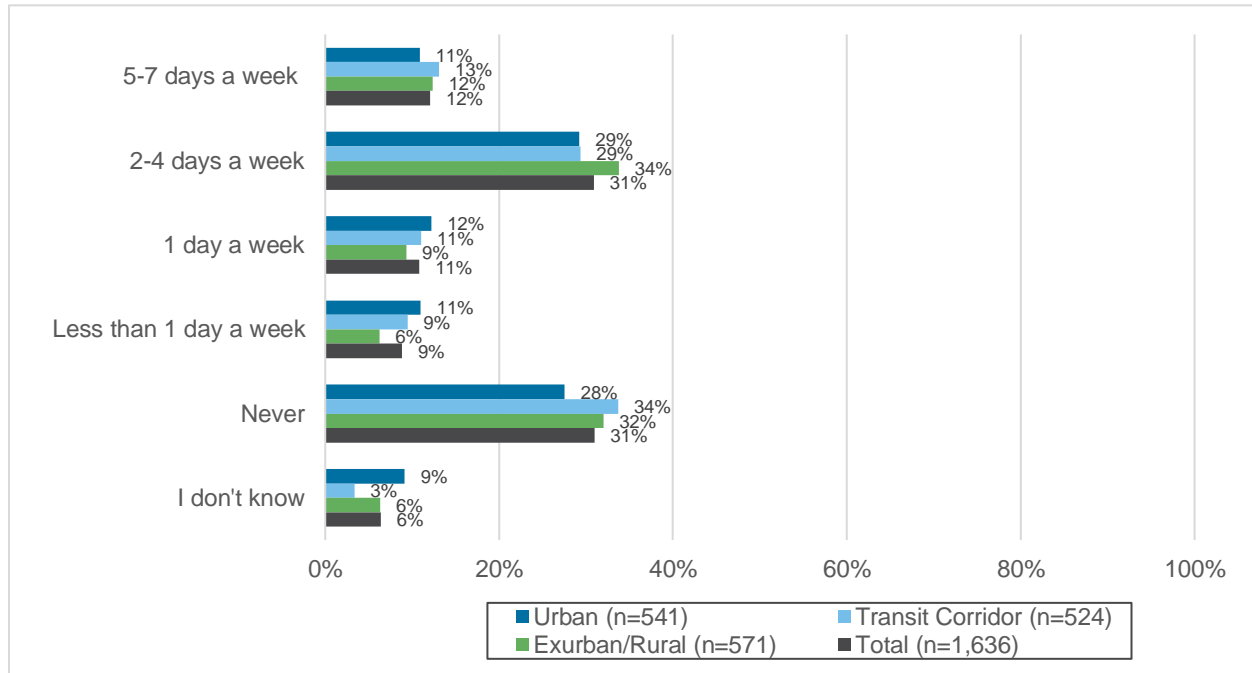


FIGURE 53: EXPECTED TELEWORK FREQUENCY AFTER COVID-19



1.5 DEMOGRAPHICS

The final section of the survey asked all respondents to provide information about themselves.

Figure 54 shows respondents' perceived home density by geography. The majority of the transit corridor geography and exurban or rural geography respondents categorize their home neighborhood as suburban, and the majority of urban geography respondents categorize their home neighborhood as somewhat urban or very urban.

FIGURE 54: HOME DENSITY BY GEOGRAPHY

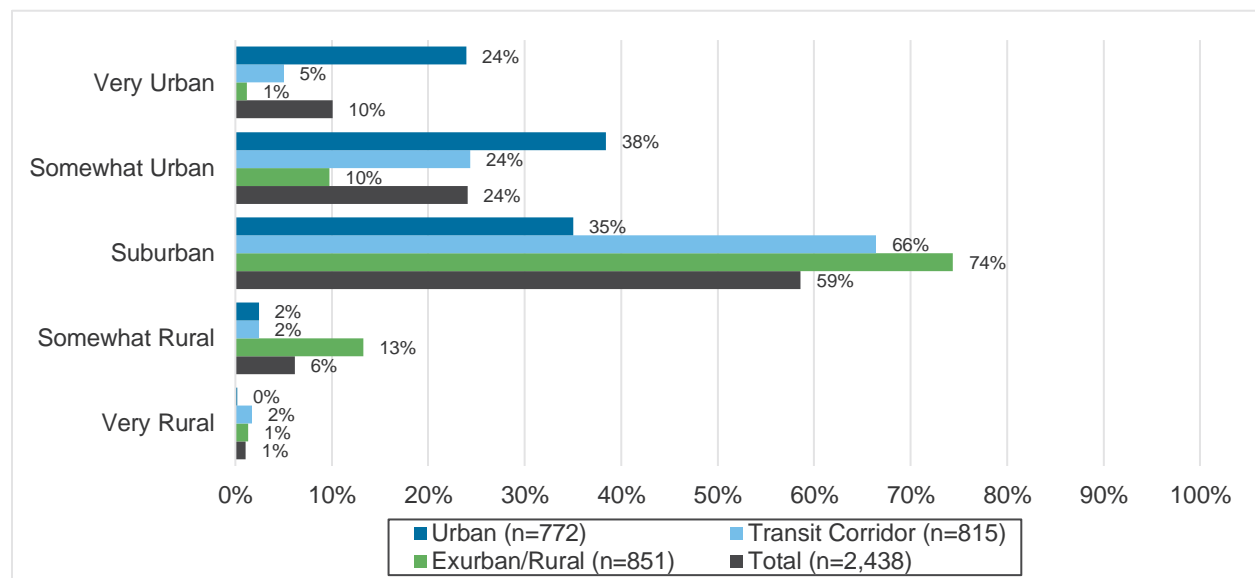


Figure 55 shows the distribution of home type by geography. The majority of transit corridor geography and exurban or rural geography respondents live in a single family home, whereas, the majority of urban geography respondents live in an apartment building with multiple units. Because of these trends, geography is a reliable proxy for home type and home density in this pedestrian study. For this reason, much of the analysis in this report is segmented by geography.

FIGURE 55: HOME TYPE BY GEOGRAPHY

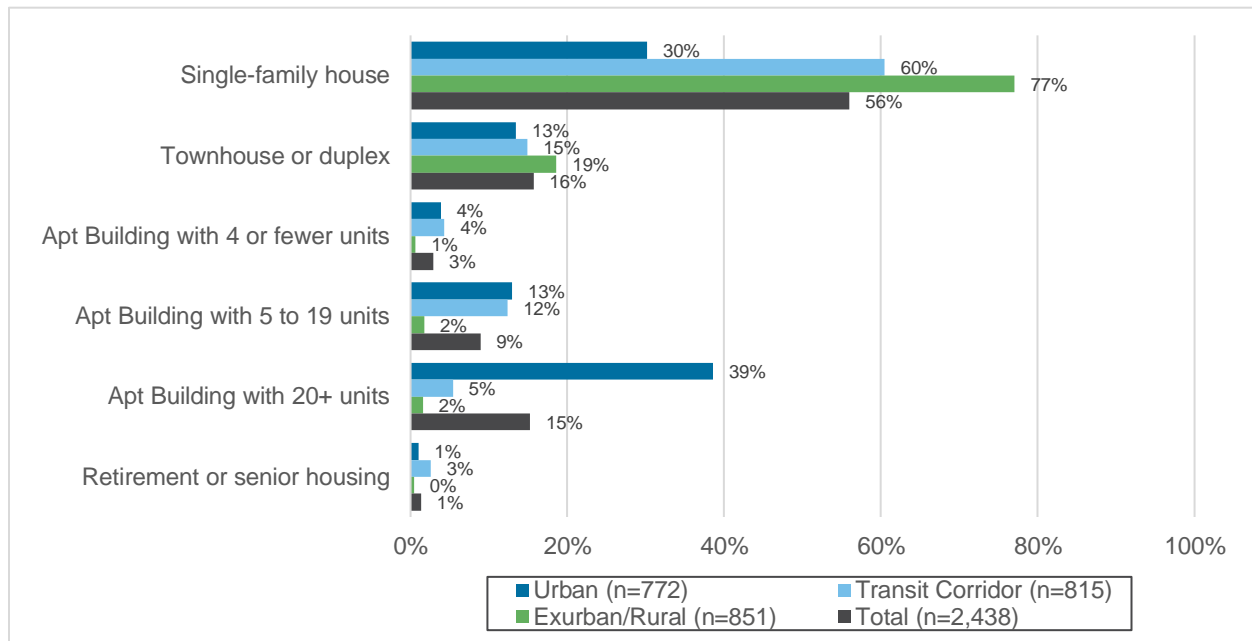


Figure 56 shows the distribution of household size among geographies. About two-thirds of urban geography respondents live in one or two person households, whereas, the majority of exurban or rural geography respondents have three or more people in their household.

FIGURE 56: HOUSEHOLD SIZE BY GEOGRAPHY

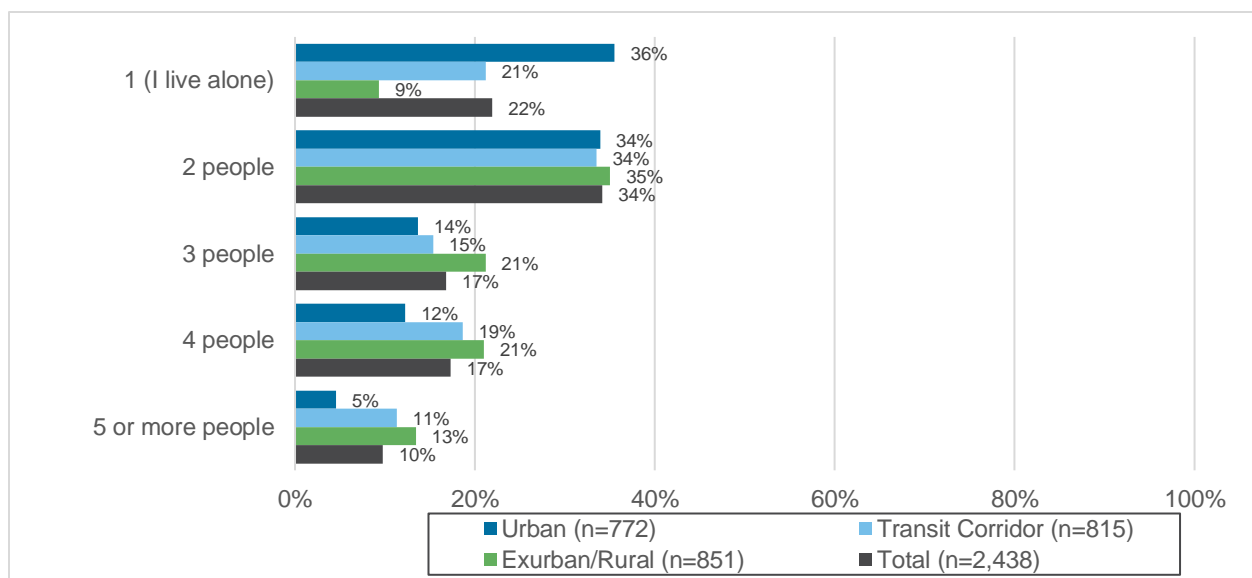


Figure 57 shows the distribution of children and adults in the household. Forty-six percent of respondents in the exurban or rural geography have at least one child under the age of 18 living

in their household; whereas, only 23% of respondents in the urban geography have at least one child under the age of 18 living in their household.

FIGURE 57: HOUSEHOLD COMPOSITION BY GEOGRAPHY

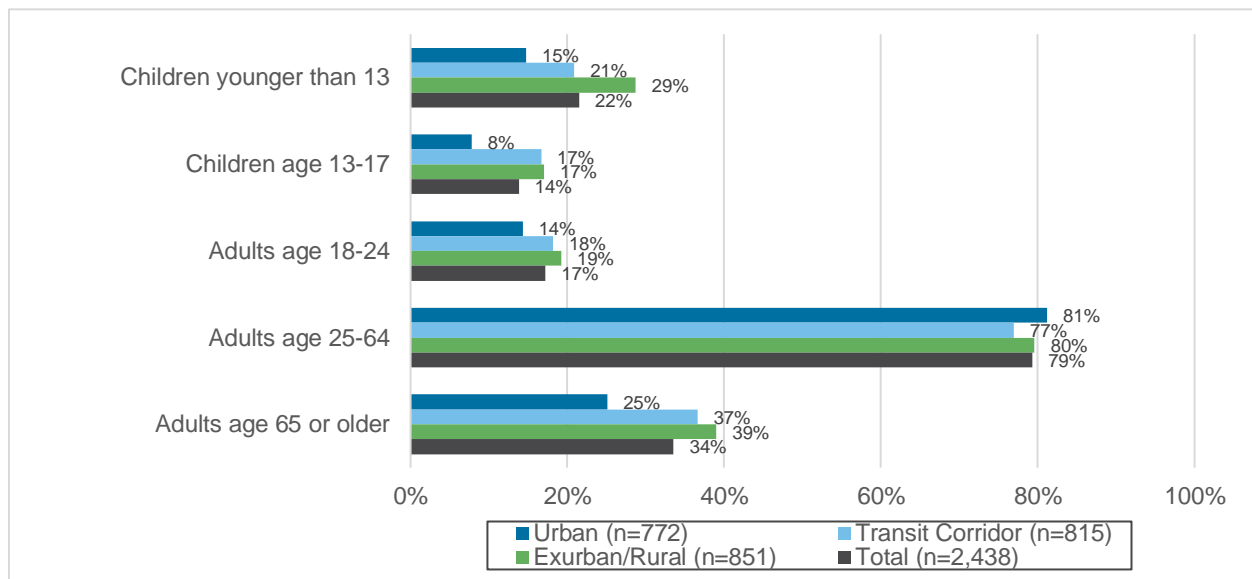


Figure 58 shows the distribution of age among survey respondents. The median age of survey respondents is in the range of 45 to 54 years old. The transit corridor geography and exurban or rural geography respondents are older than the urban geography respondents. The median age for the transit corridor geography and the exurban or rural geography respondents is in the range of 55 to 64 years old and the median age of the urban geography respondents is in the range of 45 to 54 years old.

FIGURE 58: AGE BY GEOGRAPHY

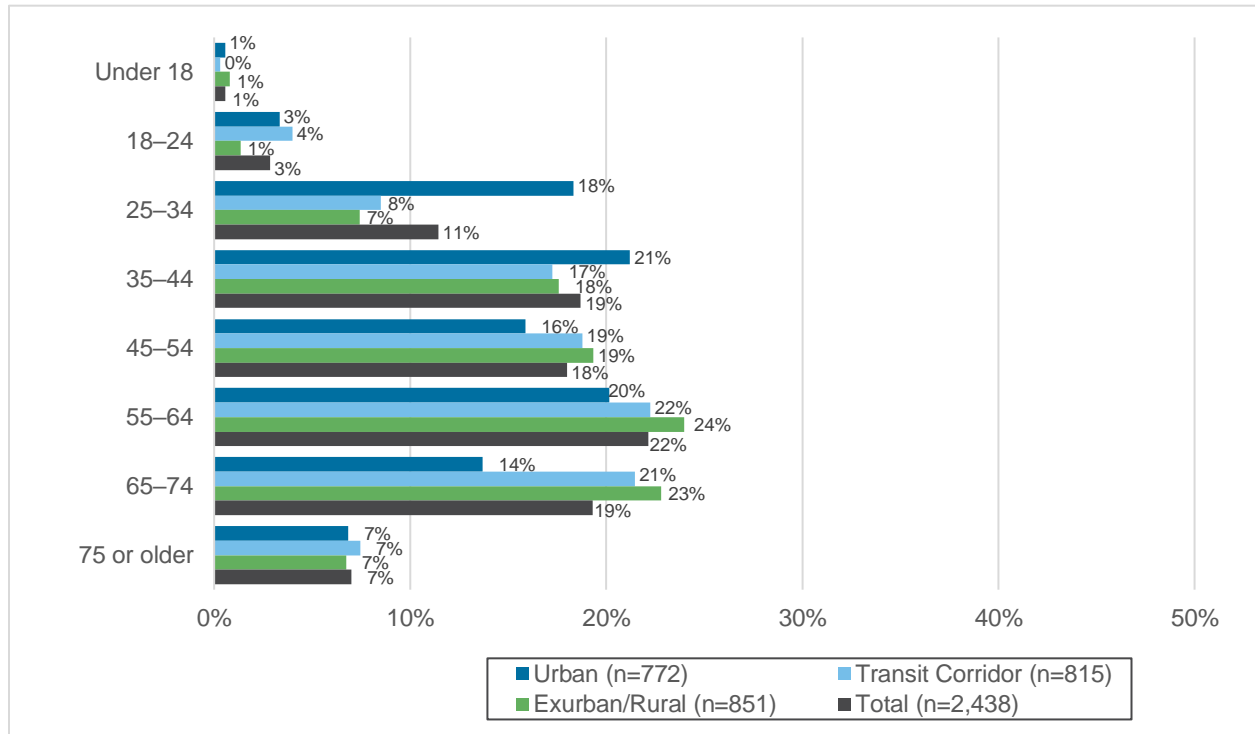


Figure 59 demonstrates the distribution of gender among the survey respondents. A little over half of respondents are female.

FIGURE 59: GENDER BY GEOGRAPHY

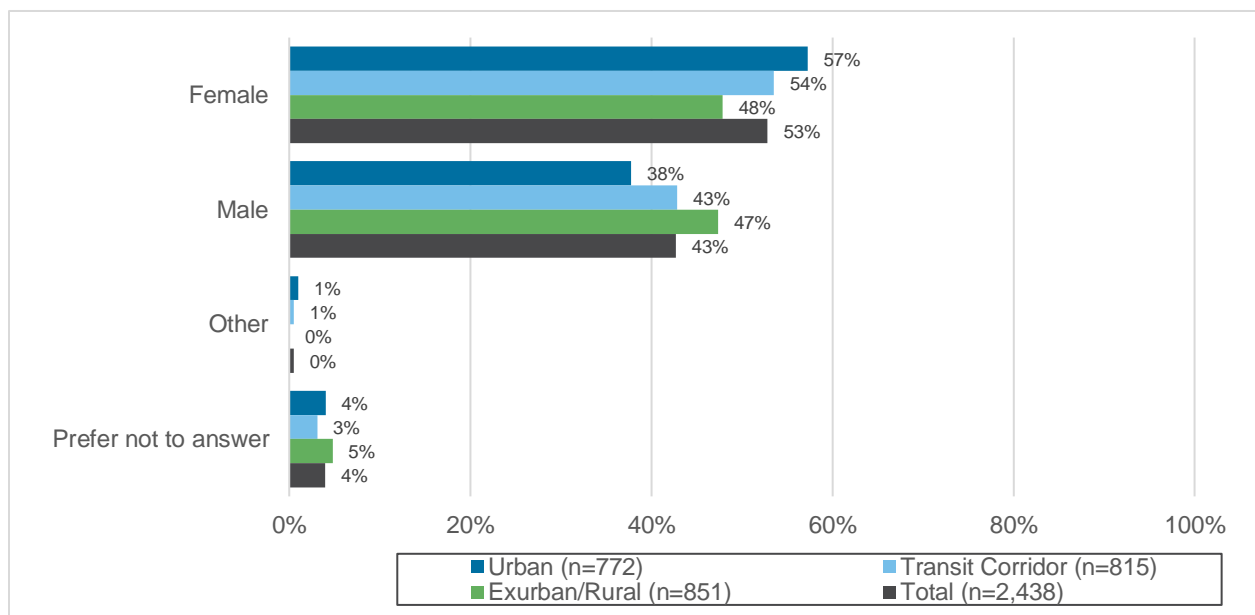


Figure 60 shows that 52% of all respondents are employed full-time. The employment rate was lowest among respondents from the transit corridor and highest among the urban geography residents; however, about 26% of the transit corridor geography respondents are retired.

FIGURE 60: EMPLOYMENT BY GEOGRAPHY

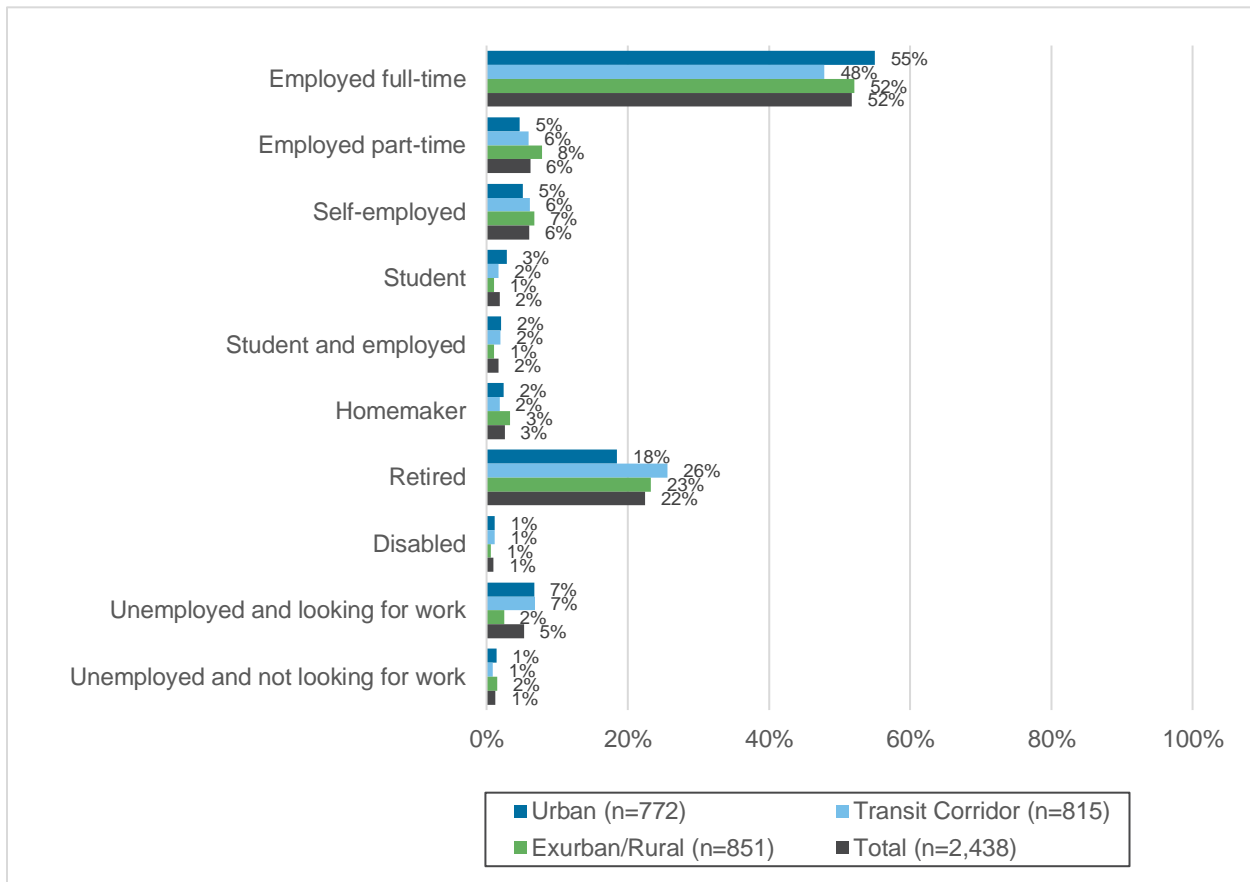


Figure 61 shows that a vast majority (92%) of the sample did not have a mobility disability. Respondents in the transit corridor geography had the highest rate (4%) of using an assistive device such as a wheelchair or cane.

FIGURE 61: MOBILITY DISABILITY BY GEOGRAPHY

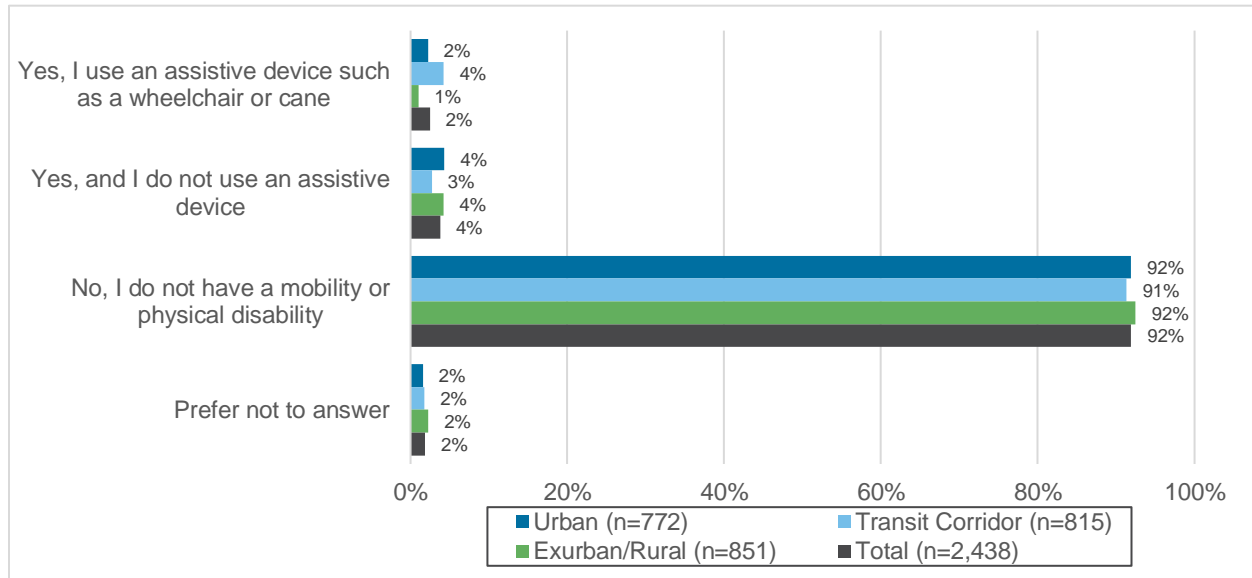


Figure 62 shows household vehicle ownership among survey respondents. The majority (52%) of respondents in the exurban or rural geography have two vehicles in their household. Almost two-thirds (63%) of the urban geography respondents have one or no vehicles in their household.

FIGURE 62: HOUSEHOLD VEHICLES

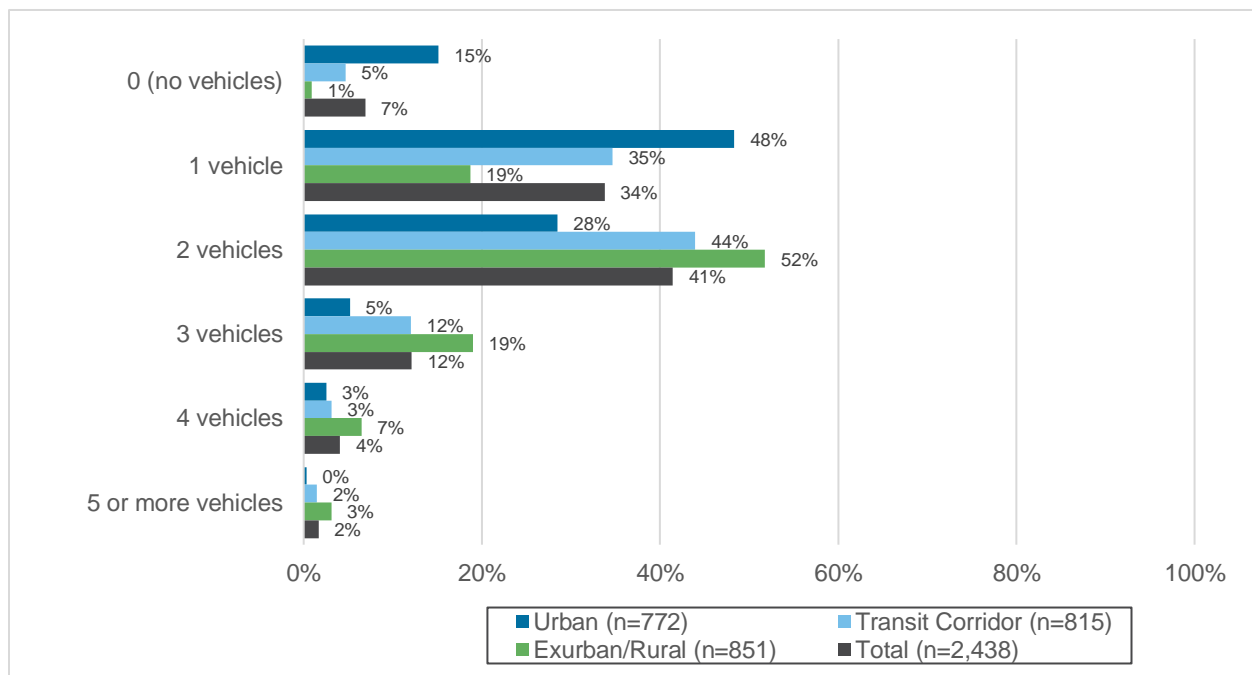


Figure 63 shows the distribution of respondents of Hispanic, Spanish or Latino origin. Both the urban geography and the transit corridor geography, 17% of respondents identify as Hispanic, Spanish or Latino; whereas, only 9% of respondents from the exurban or rural geography are Hispanic, Spanish or Latino.

FIGURE 63: HISPANIC, SPANISH, OR LATINO BY GEOGRAPHY

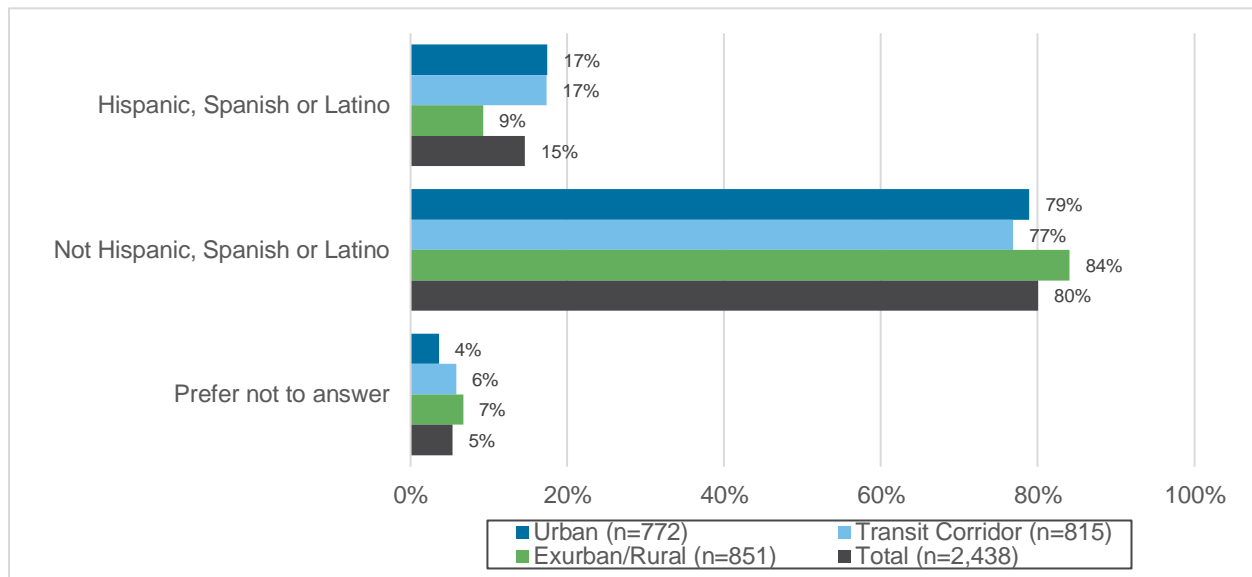


Figure 64 shows the distribution of race for each geography. Over half of respondents in each geography identify as White. The urban geography and the transit geography have a larger percentage of Black, Indigenous and people of color (BIPOC) respondents than the rural or exurban geography.

FIGURE 64: RACE BY GEOGRAPHY

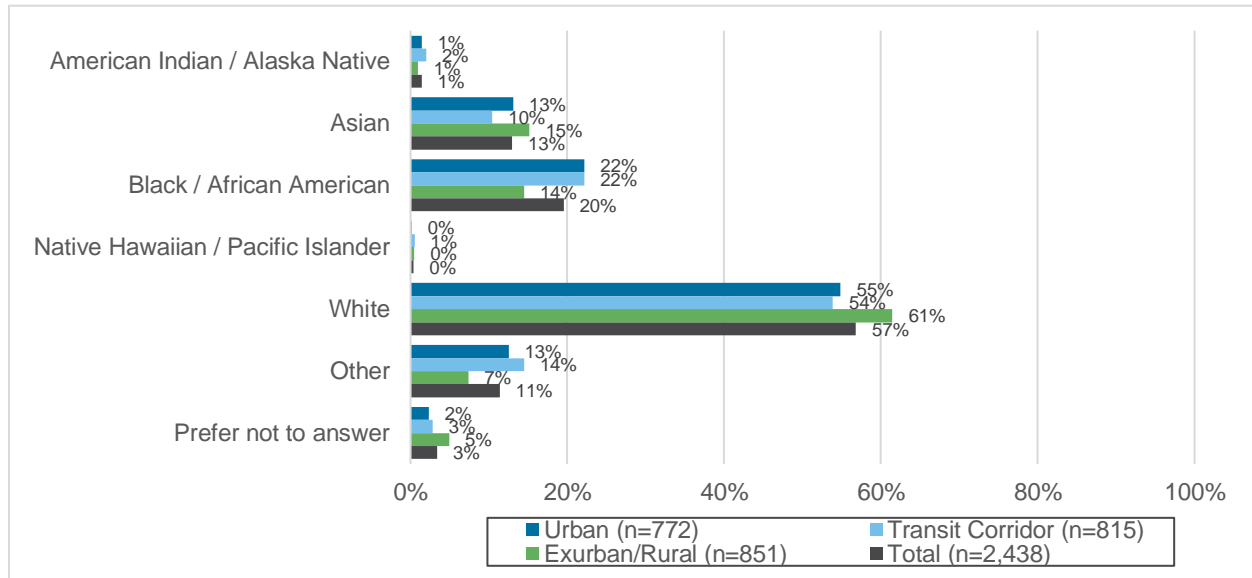
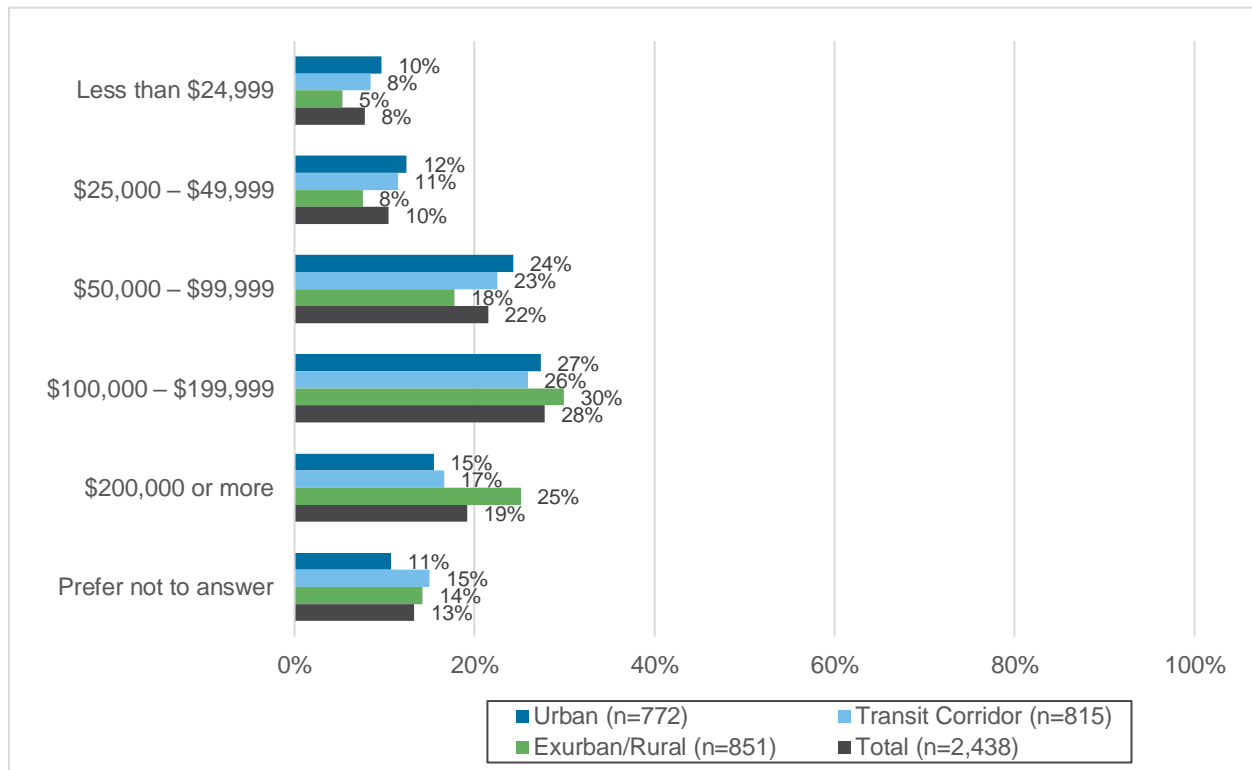


Figure 65 illustrates the distribution of household income. Respondents in the exurban or rural geography have the highest household income with one quarter of respondents making \$200,000 or more.

FIGURE 65: HOUSEHOLD INCOME BY GEOGRAPHY



2.0 SURVEY DEVELOPMENT

The research team worked with Montgomery Planning staff to design a questionnaire that addressed their key pedestrian planning needs. Having worked with Montgomery Planning previously, Toole Design Group played an important role in ensuring the planning objectives were addressed with the questionnaire. The final questionnaire included questions related to:

- Walking/rolling trip details (e.g., number of trips, frequency, trip purpose)
- Most important/least important factors the county should use to prioritize improvements to the pedestrian environment
- Satisfaction with pedestrian environment factors
- Understanding of traffic laws related to pedestrians
- Safety and harassment experience
- Demographics

In order to help Montgomery Planning better understand resident priorities, a technique called Maximum Difference Scaling (aka MaxDiff) was used. This survey technique is easy for respondents to understand and asks them to trade off various improvements. These trade off data result in an ordered list of priorities. This list not only provides the order of preference, but also the strength of preference. Details of the MaxDiff are discussed in a later section.

Once the questionnaire content was finalized, it was programmed using proprietary web survey software, rSurvey. The survey was translated into Spanish and Simplified Chinese. It was password-protected so that each respondent household could only take the survey one time. All responses were stored in a secure Microsoft Azure cloud-based server.

3.0 SAMPLING

The sole recruitment strategy for the Montgomery County Pedestrian Survey was address-based sampling (ABS) which entails sending postcards to randomly selected mailing addresses in Montgomery County. A sampling plan was created targeting 1,200 total completed responses. With an assumed overall response rate of 2%, a total of 60,000 addresses were sampled.

The sampling plan was further disaggregated into three sub-areas within Montgomery County to ensure wide participation amongst County residents and enough sample for analysis among different land-use types, which is described in more detail below. For each of the three geographies the target margin of error was approximately 5% and 400 completed surveys.

Figure 3-1 and Figure 3-2 show the postcard which was sent to the invited households. The postcard included invitation language in Spanish and Simplified Chinese to support more diverse outreach for the survey. To maximize response rates, a reminder postcard was sent to all respondents and a raffle of ten \$100 e-gift cards was administered for respondents who have completed the survey.

FIGURE 3-1: FRONT OF POSTCARD



FIGURE 3-2: BACK OF POSTCARD

**MONTGOMERY COUNTY'S
PEDESTRIAN
SURVEY**

RSG
180 Battery Street, Suite 350
Burlington, VT 05401

Presorted
First Class Mail
U.S. Postage Paid
Location
Permit No. 0000

Dear Resident,

The Montgomery County Planning Department (M-NCPPC) is conducting a survey to learn more about how you walk and roll around the County.

Your participation is important! Visit our secure website and enter your password to begin the survey. / ¡Su participación es importante! Visite nuestro sitio web protegido e introduzca su contraseña para empezar la encuesta.

请访问我们的官方网站并输入提供给您专用号码开始填写问卷调查。

rsgsurvey.com/pedsurvey

PASSWORD

Complete the survey to be entered to win a \$100 Gift Card!

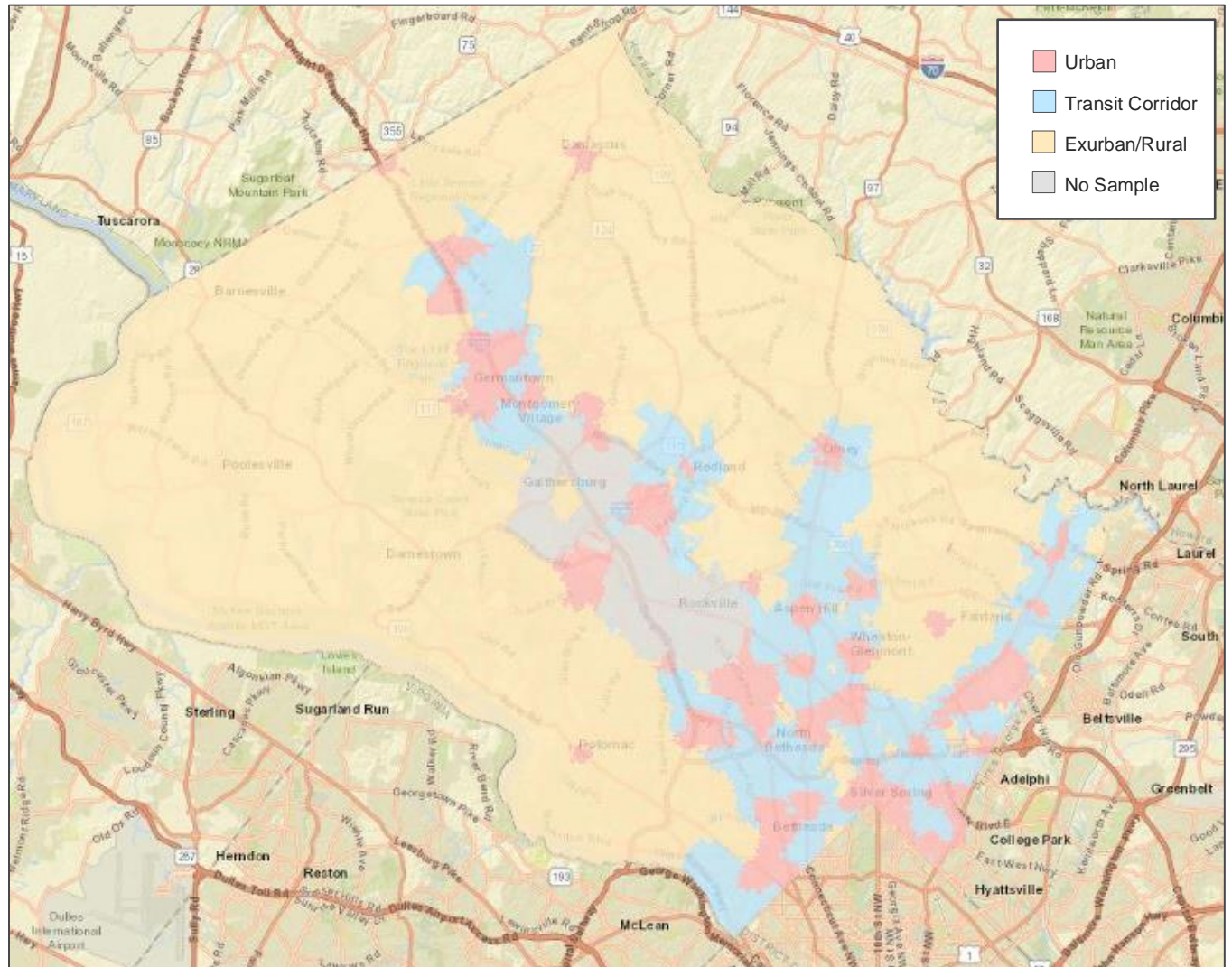
Questions? Contact us:
pedsurvey@rsgsurvey.com

As shown in Figure 3-3, three geographies were identified in Montgomery County for sampling. Separating the region into three different geographies ensured wide coverage in the county by accounting for different land use and, accordingly, the pedestrian environments residents encounter. M-NCPPC provided a map assigning areas throughout the county into three geographies by block group. From there, the geographies were further disaggregated such that each block within Montgomery County was assigned to a single geography as some block groups were large enough to include multiple land use types. The three geographies are defined as:

1. Urban: Geography 1 consists of downtowns and town centers within Montgomery County, containing 2,604 total census blocks.
2. Transit Corridor: Geography 2 consists of transit corridors within Montgomery County, containing 3,089 total census blocks.
3. Exurban/Rural: Geography 3 consists of exurban and rural areas within Montgomery County, containing 3,551 total census blocks.

A total of 1,349 blocks comprising Rockville and Gaithersburg were excluded from sampling as those fell outside of M-NCPPC's planning jurisdiction.

FIGURE 3-3: SAMPLE GEOGRAPHIES IN MONTGOMERY COUNTY



4.0 SURVEY ADMINISTRATION

The invitation postcards were mailed on Monday, October 26, 2020 followed by the reminder postcards mailed on Friday, November 6, 2020. The survey remained open from Monday, October 26, 2020 until Thursday, December 10, 2020.

Figure 4-1 shows the allocation of postcards mailed within Montgomery County. The red dots indicate addresses in the Geography 1 sample (Urban), the blue dots addresses in Geography 2 (Transit) and the yellow dots addresses in Geography 3 (Exurban/Rural).

FIGURE 4-1: POSTCARD SAMPLING ADDRESSES BY GEOGRAPHY

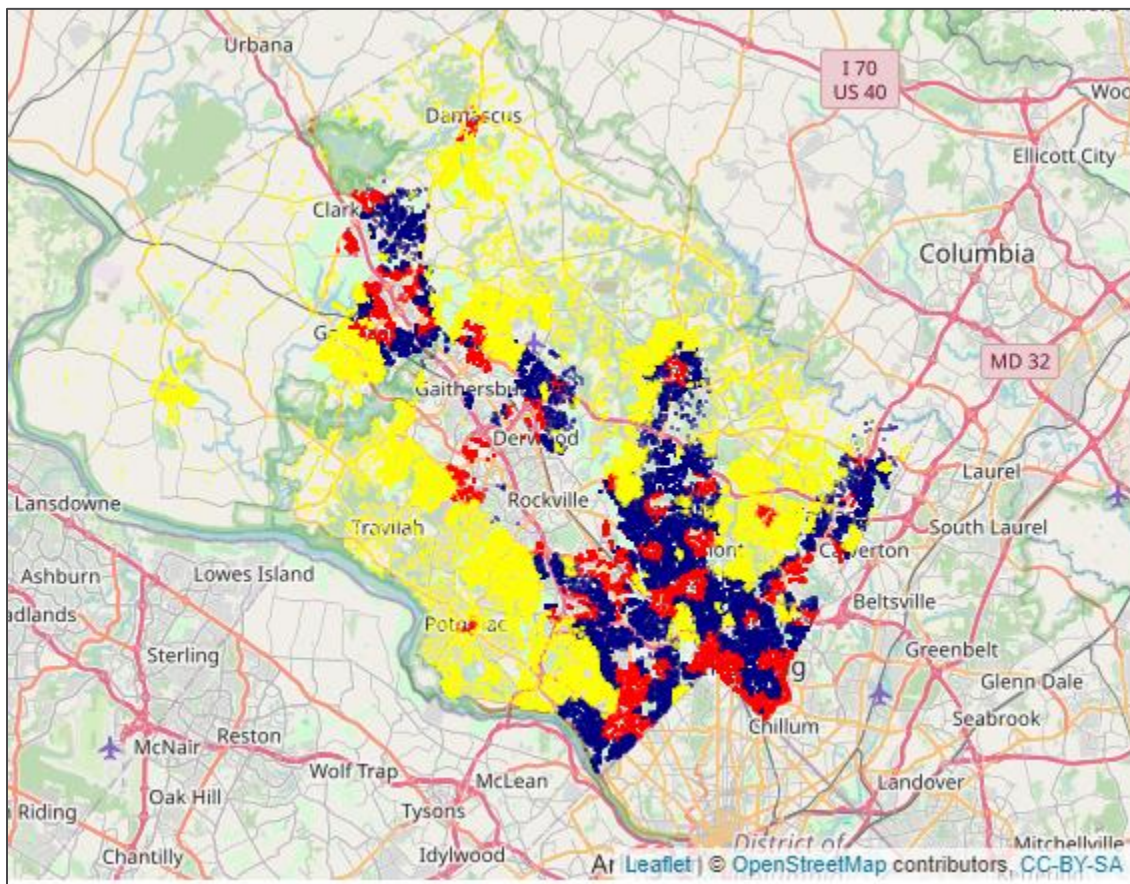
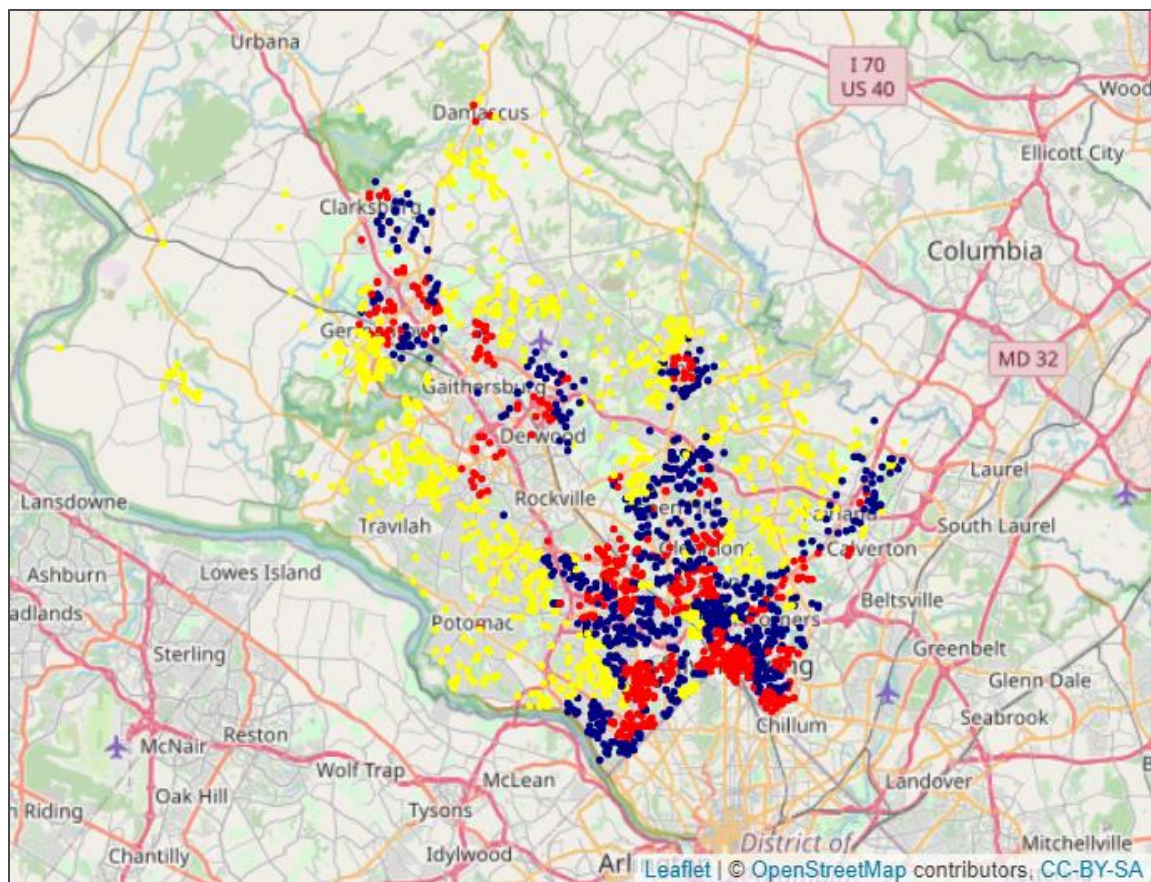


Table 9 shows the number of invitations, survey completions, completions by language, response rate, and margin of error for each geography. A total of 2,438 responses were received with a response rate of 4.1%, significantly exceeding the targeted number of completed surveys for each geography. A total of 2,182 postcards were returned to sender between the original invite and a reminder invitation (approximately 1,090 households), therefore the effective response rate is slightly higher.

TABLE 9: SURVEY RESPONSE SUMMARY

	Urban (1)	Transit (2)	Exurban/ Rural (3)	Total
Invitations	20,000	20,000	20,000	60,000
Survey Completes	772	815	851	2,438
Spanish Completes	7	18	3	28
Chinese Completes	2	3	7	12
Overall Response Rate	3.9%	4.1%	4.3%	4.1%
Margin of Error (95% CI)	4%	3%	3%	2%

Figure 4-2 shows survey completions by geography. The red dots indicate completions in Geography 1 (Urban), the blue dots are completions in Geography 2 (Transit) and the yellow dots are completions in Geography 3 (Exurban/Rural). This map, along with Figure 3-3, demonstrates the wide distribution and subsequent completion of surveys across the County.

FIGURE 4-2: SURVEY COMPLETES BY GEOGRAPHY


5.0 WEIGHTING

The survey records were weighted to better represent the actual population in the Montgomery County Planning Department's jurisdiction within Montgomery County. The survey records were separated for weighting by the same three geographies used in sampling: urban, transit, and exurban/rural. The data were weighted using 2018 American Community Survey (ACS), 5-year estimates (U.S. Census Bureau) of income, race and Hispanic, Spanish or Latino origin distributions for each geography. To account for survey respondents who preferred to not provide their 2019 household income, race or Hispanic, Spanish, or Latino origin, the category was treated separately and the ACS distributions were adjusted accordingly (in other words, the proportion of "prefer not to answer" responses were kept the same). The income and race/ethnicity variables were not imputed for respondents who chose not to answer because a) there was no distinguishable pattern to these respondent's survey responses compared to the overall sample, b) the final number of affected respondents was relatively low, and c) given the first two points there was no reason to introduce unnecessary estimated adjustments through the imputation process.

All analysis of the dataset were conducted using weighted data to ensure that the results are representative of the County population.

Table 10 shows the ACS distribution of income within each geography. Several household income categories were combined to match ACS data ("200,000 to 299,000" and "300,000 or more").

TABLE 10: INCOME TARGET DISTRIBUTION

Household Income	Urban (1)	Transit (2)	Exurban/ Rural (3)
Less than \$15,000	6.0%	4.5%	3.2%
\$15,000 – \$24,999	3.6%	4.0%	2.2%
\$25,000 – \$34,999	4.9%	4.4%	2.9%
\$35,000 – \$49,999	7.5%	7.0%	4.7%
\$50,000 – \$74,999	13.0%	12.1%	8.9%
\$75,000 – \$99,999	11.4%	10.4%	8.8%
\$100,000 – \$149,999	17.6%	15.8%	17.0%
\$150,000 – \$199,999	9.8%	10.1%	12.9%
\$200,000 or more	15.5%	16.6%	25.1%
Prefer Not to Answer	10.7%	15.1%	14.2%
Total	100.0%	100.0%	100%

Table 11 shows the overall unweighted income distribution, the weighted income distribution, and the difference between the unweighted and weighted income distributions. Lower income respondents were underrepresented in the survey response and were weighted up to match ACS distributions, whereas higher income respondents were overrepresented in the sample and weighted down. All three geographies had unweighted and weighted differences that are similar to the overall survey area.

TABLE 11: INCOME BY UNWEIGHTED VS. WEIGHTED

Income	Unweighted	Weighted	Difference
Less than \$15,000	2%	5%	3%
\$15,000 – \$24,999	2%	3%	2%
\$25,000 – \$34,999	2%	4%	2%
\$35,000 – \$49,999	3%	6%	3%
\$50,000 – \$74,999	8%	11%	4%
\$75,000 – \$99,999	10%	10%	0%
\$100,000 – \$149,999	20%	17%	-3%
\$150,000 – \$199,999	16%	11%	-5%
\$200,000 or more	25%	19%	-6%
Prefer not to answer	13%	13%	0%
Total	100%	100%	

Table 12 shows the ACS distribution of race within each geography. Some race categories represent a small percentage of the Montgomery County population and had small sample sizes in the survey data, therefore, the survey data were weighted to black or African American alone, white alone, and other races ACS distributions.

TABLE 12: RACE TARGET DISTRIBUTIONS

Race	Urban (1)	Transit (2)	Exurban/ Rural (3)
Black or African American Alone	21.2%	20.1%	13.6%
White Alone	49.3%	49.6%	57.1%
Other Races	27.2%	27.4%	24.3%
Prefer Not to Answer	2.4%	2.8%	4.9%
Total	100%	100%	100%

Table 13 shows the overall unweighted race distribution, the weighted race distribution, and the difference between the unweighted and weighted race distributions. Black or African American and other races were underrepresented in the survey response and were weighted up to match ACS distributions. While Black or African American respondents were underrepresented in the

sample, there were a total of 177 survey respondents in that segment, which provides a 7% margin of error for this segment at the county level.

TABLE 13: RACE BY UNWEIGHTED VS. WEIGHTED

Race	Unweighted	Weighted	Difference
Black or African American	6%	18%	12%
White	74%	52%	-21%
Other Races	17%	26%	9%
Prefer not to answer	3%	3%	0%
Total	100%	100%	

Table 14 shows the ACS distribution of Hispanic, Spanish or Latino origin within each geography.

TABLE 14: HISPANIC, SPANISH, OR LATINO ORIGIN TARGET DISTRIBUTIONS

Hispanic, Spanish, or Latino Origin	Urban (1)	Transit (2)	Exurban/Rural (3)
Yes	17.5%	17.3%	9.3%
No	78.9%	76.8%	84.0%
Prefer Not to Answer	3.6%	5.9%	6.7%
Total	100%	100%	100%

Table 15 shows the overall unweighted distribution, the weighted distribution and the difference between the unweighted and weighted distributions for respondents of Hispanic, Spanish or Latino origin. Respondents of Hispanic, Spanish or Latino origin were underrepresented in the survey response and were weighted up to match ACS distributions. While these respondents were underrepresented in the sample, there were a total of 147 survey respondents in the segment, which equates to an 8% margin of error.

TABLE 15: HISPANIC, SPANISH, OR LATINO ORIGIN BY UNWEIGHTED VS. WEIGHTED

Hispanic, Spanish, or Latino Origin	Unweighted	Weighted	Difference
Yes	6%	15%	9%
No	89%	80%	-9%
Prefer not to answer	5%	5%	0%
Total	100%	100%	

Lastly, the overall geography distributions were weighted to the ACS population so that the sample is representative of M-NCPPC's planning districts including all towns in Montgomery County with the exception of Rockville and Gaithersburg. Table 16 shows the unweighted

distribution, the weighted distribution, and the difference between the unweighted and weighted distributions for each geography. This analysis demonstrates that the unweighted sample was already very close to representing the actual distribution of residents across Montgomery County.

TABLE 16: GEOGRAPHY DISTRIBUTION BY UNWEIGHTED VS. WEIGHTED

	Unweighted	Weighted	Difference
Urban (1)	32%	34%	2%
Transit (2)	33%	32%	-1%
Exurban/Rural (3)	35%	34%	-1%
Total	100%	100%	

6.0 MAXIMUM DIFFERENCE (MAXDIFF)

A key part of this survey was to capture resident sentiment around pedestrian experience. For this task, a MaxDiff approach was used, which allows one to assess both relative and absolute importance amongst different items. For the MaxDiff experiments, 21 unique statements about the pedestrian experience in Montgomery County were developed and shown in the survey. As shown in Figure 6-1, respondents were provided 12 separate experiments and each experiment presented the respondent with four different statements. The respondent chose which statement was most important and which statement was least important to them. The results were modeled using Sawtooth Software CBC/HB, a Hierarchical Bayes estimation software, which produced individual utilities for each statement.

FIGURE 6-1: MAXDIFF EXPERIMENT FROM SURVEY INSTRUMENT

**MONTGOMERY COUNTY'S
PEDESTRIAN
SURVEY**

When considering what would make you more likely to walk/roll more often in Montgomery County, please indicate the most important and least important from this set of elements:

Most Important (pick one)		Least Important (pick one)
<input type="radio"/>	Better shading by trees or buildings along my pedestrian routes	<input type="radio"/>
<input type="radio"/>	More places for me to safely cross streets	<input type="radio"/>
<input type="radio"/>	Slower moving cars along sidewalks and pathways I use	<input type="radio"/>
<input type="radio"/>	Better overhead lighting at locations where I am crossing the street at night	<input type="radio"/>

(1 of 12)

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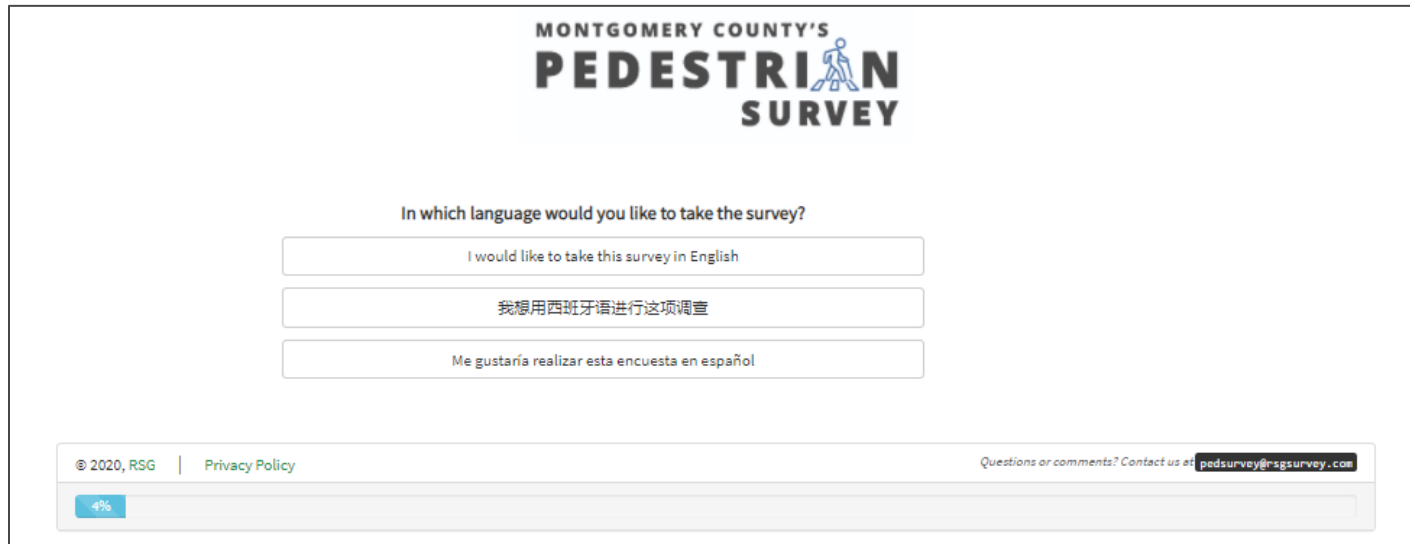
33%

RSG rescaled the MaxDiff utilities using min-max normalization, so that the normalized utilities for each respondent fall in the range from 0 to 100. The final dataset contains the normalized utilities as well as variables that flag (assign a 1 to) each utility over sixty, representing a reasonable cutoff for “high” priority statements. The normalized values can be averaged and ranked, where the statements with the highest average were the most important to respondents and the statements with the lowest average were the least important. The variables that flag each normalized utility over 60 can be used to show the percentage of the sample that found a particular statement important, a useful supplemental tool for conducting cross-tabulations

against other variables of interest. The threshold to flag a value over 60 is commonly used, but different thresholds can be developed from the normalized scores and employed for different analytical purposes. MaxDiff results are explored using weighted survey results in section 1.3 of this report.

7.0 APPENDIX A: SCREEN CAPTURES

FIGURE 7-1: LANGUAGE



The screenshot displays the language selection interface for the Montgomery County's Pedestrian Survey. At the top, the survey title "MONTGOMERY COUNTY'S PEDESTRIAN SURVEY" is shown with a logo of a person walking. Below the title, the question "In which language would you like to take the survey?" is presented. Three selection buttons are provided: "I would like to take this survey in English", "我想用西班牙语进行这项调查" (I want to take this survey in Spanish), and "Me gustaría realizar esta encuesta en español" (I would like to take this survey in Spanish). The footer contains copyright information "© 2020, RSG", a link to the "Privacy Policy", a contact email "pedsurvey@rsgsurvey.com", and a progress indicator showing "4%" completion.

MONTGOMERY COUNTY'S
PEDESTRIAN
SURVEY

In which language would you like to take the survey?

I would like to take this survey in English


我想用西班牙语进行这项调查

Me gustaría realizar esta encuesta en español

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4%

FIGURE 7-2: INTRODUCTION

MONTGOMERY COUNTY'S
PEDESTRIAN
SURVEY

Thank you for participating in the Montgomery County Pedestrian Survey!

The purpose of this survey is to learn from you and others who walk, run, jog, or roll (using wheelchairs or other mobility devices) within Montgomery County. This survey will help the Montgomery County Planning Department understand travel patterns and preferences to make the county's Pedestrian Master Plan the best it can be.

Your answers will not be linked to any personal information and will be analyzed together with many other survey responses.

Participants who complete the survey can enter for a chance to win one of ten \$100 Visa gift cards.

This survey is conducted by RSG, an independent market research firm. RSG's privacy policy can be found here.

We are committed to protecting the confidentiality, integrity, and security of your personal information. We take this responsibility seriously. Our privacy documentation is intended to help you understand how we collect, share, and safeguard your information. Information about privacy for this survey can be found here.

Survey Instructions

Use the "Next" and "Previous" buttons below to navigate the survey. Do NOT use your browser's "forward" and "back" buttons because your answers will NOT be recorded.

This survey will take about 10-15 minutes.

This survey can be taken on a laptop, desktop computer, or mobile device.

By clicking "Next", I consent to participate in the survey.

Next >


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6%

FIGURE 7-3: WALK PURPOSE

MONTGOMERY COUNTY'S PEDESTRIAN SURVEY



First, we would like to know about your walking trips!

In the past month, for what purposes have you walked or rolled (used a wheelchair or other mobility devices) in Montgomery County?

Please select all that apply.

For this survey, a walking/rolling trip is defined as:

- At least 5 minutes long
- Starting or ending in Montgomery County


☐ Exercise/outdoor recreation/walk the dog
☐ Grocery/food shopping
☐ Personal business (e.g., pharmacy, post office)
☐ Medical appointment
☐ Entertainment, visit friends or family
☐ Dining at restaurants or bars
☐ Commute to work
☐ Other work-related travel
☐ Other purpose:
☐ I have not taken a walking/rolling trip in the past month

◀ Previous
Next ▶

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12%

FIGURE 7-4: WALK FREQUENCY



For each trip purpose you identified earlier, approximately how many one-way walking or rolling trips have you made in Montgomery County over the past month?

A walking/rolling trip is defined as:

- At least 5 minutes long
- Starting or ending in Montgomery County

A one-way trip is defined as:

- Half of a round trip, e.g. if you walked from home to work and then walked from work to home that would be two one-way trips
- Continuous loop, e.g. if you walk the dog with no destination beyond returning home that would be one trip


	1-2 trips	3-6 trips	7-10 trips	11-19 trips	20 trips or more
For personal business (e.g., pharmacy, post office)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
For entertainment, to visit friends or relatives	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

« Previous
Next »

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13%

FIGURE 7-5: WALK TIME OF DAY



In the past month, when did these walking or rolling trips typically occur?

For each row, please select all that apply.

A walking/rolling trip is defined as:

- At least 5 minutes long
- Starting or ending in Montgomery County


	Weekdays (Mon-Fri afternoon)					Weekends (Fri night-Sun)	
	6am-9am	9am-3pm	3pm-7pm	7pm-10pm	10pm-6am	6am-7pm	7pm-6am
For personal business (e.g., pharmacy, post office)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
For entertainment, to visit friends or relatives	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

« Previous
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15%

FIGURE 7-6: WALK DESTINATION



In the past month, where did these walking or rolling trips typically start or end?
For each row, please select all that apply.

A walking/rolling trip is defined as:

- At least 5 minutes long
- Starting or ending in Montgomery County


	To/From Home	To/From Work	To/From Another Place
For personal business (e.g., pharmacy, post office)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
For entertainment, to visit friends or relatives	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

◀ Previous
Next ▶

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17%

FIGURE 7-7: WALK TIME



Generally, how long are your one-way walk or roll trips?

A walking/rolling trip is defined as:

- At least 5 minutes long
- Starting or ending in Montgomery County

A one-way trip is defined as:

- Half of a round trip, e.g. if you walked from home to work and then walked from work to home that would be two one-way trips
- Continuous loop, e.g. if you walk the dog with no destination beyond returning home that would be one trip

	5 to 10 minutes	10 to 20 minutes	20 to 40 minutes	40 to 60 minutes	60 to 90 minutes	Greater than 90 minutes
For personal business (e.g., pharmacy, post office)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
For entertainment, to visit friends or relatives	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

« Previous
Next »

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20%

FIGURE 7-8: BEFORE AND AFTER COVID-19 TRIP TYPES



Compared with *before the COVID-19 pandemic (Mid-March 2020)*, how often are you now making the following types of walking/rolling trips?

	More trips	About the same number of trips	Fewer trips
For personal business (e.g., pharmacy, post office)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
For entertainment, to visit friends or relatives	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

« Previous
Next »

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22%

FIGURE 7-9: WHY NOT WALKING

The screenshot shows a survey question titled "Why have you not taken a walking or rolling trip in the past month?" with the instruction "Please select all that apply." Below the question are nine checkboxes with the following options: "COVID-19 restrictions or concerns", "Did not spend time in Montgomery County", "Personal safety concerns", "Traffic safety concerns", "Lack of adequate pathways and crossings", "Lack of amenities (such as shopping, school, park, etc.) within a comfortable walking distance", "Don't like walking", "A disability or injury prohibits me from walking or rolling", and "Other reason:" followed by a text input field labeled "Please specify...". At the bottom of the question area are two buttons: "Previous" and "Next". The footer of the survey interface includes the copyright "© 2020, RSG", a link to the "Privacy Policy", a contact email "pedsurvey@rsgsurvey.com", and a progress bar showing 24% completion.

**MONTGOMERY COUNTY'S
PEDESTRIAN
SURVEY**

Why have you not taken a walking or rolling trip in the past month?
Please select all that apply.

- ☐ COVID-19 restrictions or concerns
- ☐ Did not spend time in Montgomery County
- ☐ Personal safety concerns ⓘ
- ☐ Traffic safety concerns ⓘ
- ☐ Lack of adequate pathways and crossings
- ☐ Lack of amenities (such as shopping, school, park, etc.) within a comfortable walking distance
- ☐ Don't like walking
- ☐ A disability or injury prohibits me from walking or rolling
- ☐ Other reason:

« Previous Next »

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24%

FIGURE 7-10: MAXDIFF INTRODUCTION

The screenshot shows the introduction to the MAXDIFF section of the survey. It features the survey title "MONTGOMERY COUNTY'S PEDESTRIAN SURVEY" at the top. The main text explains that the next section will focus on understanding which issues would be most and least important to the respondent when walking or rolling in Montgomery County. It states that respondents will be presented with a series of questions, each asking them to select the most and least important issues from four options. The text also instructs respondents to focus on their typical walking or rolling trips and routes and to click "Next" to continue. At the bottom of the section are "Previous" and "Next" buttons. The footer includes the copyright "© 2020, RSG", a link to the "Privacy Policy", a contact email "pedsurvey@rsgsurvey.com", and a progress bar showing 26% completion.

**MONTGOMERY COUNTY'S
PEDESTRIAN
SURVEY**

The next section of the survey will focus on understanding which issues would be most and least important to you when walking or rolling in Montgomery County. You will be presented with a series of questions, each asking you which of four issues would be most and least important to you. The issues shown will vary from one question to the next.

When answering, please focus on your typical walking or rolling trips and routes.


Please click "Next" to continue.

« Previous Next »

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26%

FIGURE 7-11: MAXDIFF EXPERIMENT 1



DEBUG INFO

When considering what would make you more likely to walk/roll more often in Montgomery County, please indicate the most important and least important from this set of elements:

Most Important (pick one)		Least Important (pick one)
<input type="radio"/>	Drivers more consistently stop for me when I'm crossing the street	<input type="radio"/>
<input type="radio"/>	More places for me to safely cross streets	<input type="radio"/>
<input type="radio"/>	Better overhead lighting at locations where I am crossing the street at night	<input type="radio"/>
<input type="radio"/>	I can walk on wider sidewalks	<input type="radio"/>


(1 of 12)

« Previous
Next »

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28%

FIGURE 7-12: MAXDIFF EXPERIMENT 2



DEBUG INFO

When considering what would make you more likely to walk/roll more often in Montgomery County, please indicate the most important and least important from this set of elements:

Most Important (pick one)		Least Important (pick one)
<input type="radio"/>	Slower moving cars along sidewalks and pathways I use	<input type="radio"/>
<input type="radio"/>	Fewer vehicles cutting across the crosswalk when I'm using it	<input type="radio"/>
<input type="radio"/>	Better overhead lighting along sidewalks and pathways I use	<input type="radio"/>
<input type="radio"/>	More marked crosswalks where I cross the street	<input type="radio"/>

(2 of 12)


« Previous

Next »

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25%

FIGURE 7-13: MAXDIFF EXPERIMENT 3



DEBUG INFO

When considering what would make you more likely to walk/roll more often in Montgomery County, please indicate the most important and least important from this set of elements:

Most Important (pick one)		Least Important (pick one)
<input type="radio"/>	I have time to cross the street at pedestrian signals	<input type="radio"/>
<input type="radio"/>	Better overhead lighting at locations where I am crossing the street at night	<input type="radio"/>
<input type="radio"/>	I feel safer while walking	<input type="radio"/>
<input type="radio"/>	Slower moving cars along sidewalks and pathways I use	<input type="radio"/>

(3 of 12)


« Previous

Next »

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28%

FIGURE 7-14: MAXDIFF EXPERIMENT 4



DEBUG INFO

When considering what would make you more likely to walk/roll more often in Montgomery County, please indicate the most important and least important from this set of elements:

Most Important (pick one)		Least Important (pick one)
<input type="radio"/>	Fewer vehicles cutting across the crosswalk when I'm using it	<input type="radio"/>
<input type="radio"/>	More clear directional signage to guide my pedestrian trips	<input type="radio"/>
<input type="radio"/>	Better overhead lighting at locations where I am crossing the street at night	<input type="radio"/>
<input type="radio"/>	I can walk on sidewalks that are further away from cars on busy streets	<input type="radio"/>


(4 of 12)

« Previous
Next »

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28%

FIGURE 7-15: MAXDIFF EXPERIMENT 5



DEBUG INFO

When considering what would make you more likely to walk/roll more often in Montgomery County, please indicate the most important and least important from this set of elements:

Most Important (pick one)		Least Important (pick one)
<input type="radio"/>	More places where I can stop partway while crossing wider streets	<input type="radio"/>
<input type="radio"/>	I can access more businesses without walking through parking lots	<input type="radio"/>
<input type="radio"/>	Slower moving cars along sidewalks and pathways I use	<input type="radio"/>
<input type="radio"/>	Drivers more consistently stop for me when I'm crossing the street	<input type="radio"/>

(5 of 12)


« Previous

Next »

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29%

FIGURE 7-16: MAXDIFF EXPERIMENT 6



DEBUG INFO

When considering what would make you more likely to walk/roll more often in Montgomery County, please indicate the most important and least important from this set of elements:

Most Important (pick one)		Least Important (pick one)
<input type="radio"/>	I feel safer while walking	<input type="radio"/>
<input type="radio"/>	I have a shorter wait for a pedestrian walk signal	<input type="radio"/>
<input type="radio"/>	New sidewalks along my pedestrian routes where there aren't sidewalks now	<input type="radio"/>
<input type="radio"/>	More places for me to safely cross streets	<input type="radio"/>

(6 of 12)


« Previous

Next »

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29%

FIGURE 7-17: MAXDIFF EXPERIMENT 7



DEBUG INFO

When considering what would make you more likely to walk/roll more often in Montgomery County, please indicate the most important and least important from this set of elements:

Most Important (pick one)		Least Important (pick one)
<input type="radio"/>	Fewer driveways crossing sidewalks and pathways I use	<input type="radio"/>
<input type="radio"/>	Drivers more consistently stop for me when I'm crossing the street	<input type="radio"/>
<input type="radio"/>	Fewer vehicles cutting across the crosswalk when I'm using it	<input type="radio"/>
<input type="radio"/>	More places for me to safely cross streets	<input type="radio"/>

(7 of 12)


« Previous

Next »

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29%

FIGURE 7-18: MAXDIFF EXPERIMENT 8



DEBUG INFO

When considering what would make you more likely to walk/roll more often in Montgomery County, please indicate the most important and least important from this set of elements:

Most Important (pick one)		Least Important (pick one)
<input type="radio"/>	Better overhead lighting along sidewalks and pathways I use	<input type="radio"/>
<input type="radio"/>	I can walk on wider sidewalks	<input type="radio"/>
<input type="radio"/>	More clear directional signage to guide my pedestrian trips	<input type="radio"/>
<input type="radio"/>	Better shading by trees or buildings along my pedestrian routes	<input type="radio"/>

(8 of 12)


« Previous

Next »

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29%

FIGURE 7-19: MAXDIFF EXPERIMENT 9



DEBUG INFO

When considering what would make you more likely to walk/roll more often in Montgomery County, please indicate the most important and least important from this set of elements:

Most Important (pick one)		Least Important (pick one)
<input type="radio"/>	More places where I can stop partway while crossing wider streets	<input type="radio"/>
<input type="radio"/>	New sidewalks along my pedestrian routes where there aren't sidewalks now	<input type="radio"/>
<input type="radio"/>	Shorter distance for me to cross the street	<input type="radio"/>
<input type="radio"/>	I can walk on wider sidewalks	<input type="radio"/>

(9 of 12)


« Previous

Next »

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29%

FIGURE 7-20: MAXDIFF EXPERIMENT 10



DEBUG INFO

When considering what would make you more likely to walk/roll more often in Montgomery County, please indicate the most important and least important from this set of elements:

Most Important (pick one)		Least Important (pick one)
<input type="radio"/>	More reliable snow removal along my pedestrian routes	<input type="radio"/>
<input type="radio"/>	Shorter distance for me to cross the street	<input type="radio"/>
<input type="radio"/>	I have time to cross the street at pedestrian signals	<input type="radio"/>
<input type="radio"/>	I can access more businesses without walking through parking lots	<input type="radio"/>

(10 of 12)


« Previous

Next »

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29%

FIGURE 7-21: MAXDIFF EXPERIMENT 11



DEBUG INFO

When considering what would make you more likely to walk/roll more often in Montgomery County, please indicate the most important and least important from this set of elements:

Most Important (pick one)		Least Important (pick one)
<input type="radio"/>	Fewer driveways crossing sidewalks and pathways I use	<input type="radio"/>
<input type="radio"/>	Better overhead lighting along sidewalks and pathways I use	<input type="radio"/>
<input type="radio"/>	More reliable snow removal along my pedestrian routes	<input type="radio"/>
<input type="radio"/>	More places like retail, restaurants, parks, etc. for me to walk to	<input type="radio"/>

(11 of 12)


« Previous

Next »

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29%

FIGURE 7-22: MAXDIFF EXPERIMENT 12



DEBUG INFO

When considering what would make you more likely to walk/roll more often in Montgomery County, please indicate the most important and least important from this set of elements:

Most Important (pick one)		Least Important (pick one)
<input type="radio"/>	Better shading by trees or buildings along my pedestrian routes	<input type="radio"/>
<input type="radio"/>	I feel safer while walking	<input type="radio"/>
<input type="radio"/>	More marked crosswalks where I cross the street	<input type="radio"/>
<input type="radio"/>	Fewer driveways crossing sidewalks and pathways I use	<input type="radio"/>

(12 of 12)

« Previous

Next »

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29%

FIGURE 7-23: SATISFACTION 1

In this next section we will ask about your satisfaction and opinions on different aspects of walking or rolling in Montgomery County.

How satisfied are you with each of the following aspects regarding walking or rolling around Montgomery County?


	Very Satisfied (1)	Satisfied (2)	Neutral (3)	Dissatisfied (4)	Very Dissatisfied (5)
How often driveways cross sidewalks and pathways	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Speed of moving cars along sidewalks and paths	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Personal safety while walking	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Shading by trees or buildings	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Amount of sidewalks on your pedestrian route	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Access to businesses without walking through parking lots	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Width of sidewalks	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Number of vehicles cutting across the crosswalk when I'm using it	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	(1)	(2)	(3)	(4)	(5)
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied

« Previous Next »

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31%

FIGURE 7-24: SATISFACTION 2



How satisfied are you with each of the following aspects regarding walking or rolling around Montgomery County?

	Very Satisfied (1)	Satisfied (2)	Neutral (3)	Dissatisfied (4)	Very Dissatisfied (5)
Overhead lighting at locations where I cross the street at night	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Wait time for a pedestrian walk signal	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Snow removal	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Drivers stopping for me when I cross the street	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Number of places to safely cross the street	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Pedestrian signage	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Overhead lighting along sidewalks and pathways	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Distance between sidewalks and cars on busy streets	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	(1)	(2)	(3)	(4)	(5)
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied

« Previous
Next »

FIGURE 7-25: SATISFACTION 3

MONTGOMERY COUNTY'S

PEDESTRIAN

SURVEY

How satisfied are you with each of the following aspects regarding walking or rolling around Montgomery County?

	Very Satisfied (1)	Satisfied (2)	Neutral (3)	Dissatisfied (4)	Very Dissatisfied (5)
Number of marked crosswalks	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Distance to cross the street	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Number of places to stop partway while crossing wider streets	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Walking access to retail, restaurants, parks, etc.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Time to cross the street at pedestrian signals	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Overall pedestrian experience	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	(1)	(2)	(3)	(4)	(5)
	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied

« Previous
Next »

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30%

FIGURE 7-26: PEDESTRIAN LAWS

Which of the following statements are true regarding traffic laws in Montgomery County?


	True	False
It's okay for vehicles to stop in the crosswalk at a traffic light	<input type="radio"/>	<input type="radio"/>
It is a driver's responsibility to ensure they are not looking at their phone or distracted while driving	<input type="radio"/>	<input type="radio"/>
If a driver is turning right on red, they must yield to pedestrians crossing the perpendicular street	<input type="radio"/>	<input type="radio"/>
If a marked crosswalk is present, pedestrians must use it when crossing the street	<input type="radio"/>	<input type="radio"/>
Drivers must stop for pedestrians in crosswalks	<input type="radio"/>	<input type="radio"/>
Unmarked crosswalks exist at every corner where the side street has a sidewalk and where painted lines or other markings do not exist to mark the crossing	<input type="radio"/>	<input type="radio"/>
If there are two intersections in close proximity and one has a signal and the other doesn't, pedestrians must cross the street at the intersection with a signal	<input type="radio"/>	<input type="radio"/>
It's okay to pass a vehicle that has stopped for a pedestrian at an intersection, as long as there is no marked crosswalk present	<input type="radio"/>	<input type="radio"/>
Pedestrians must yield to vehicles when crossing the street at an unmarked crosswalk at an intersection	<input type="radio"/>	<input type="radio"/>
Pedestrians must only cross the street in marked crosswalks	<input type="radio"/>	<input type="radio"/>

« Previous Next »

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37%

FIGURE 7-27: SAFETY OPINIONS



We would now like to know your perception of safety when walking or rolling in Montgomery County.

How strongly do you agree or disagree with each of the following statements about your [personal safety](#) while walking or rolling in Montgomery County?


	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
I feel more comfortable when I see police in public spaces	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I feel safe walking/rolling in public spaces	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The amount of crime in my neighborhood does not concern me	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

« Previous
Next »

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40%

FIGURE 7-28: HARASSMENT



Have you seen and/or experienced visual, verbal, or physical harassment/violence when walking or rolling in Montgomery County?

Please select all that apply.

- ☐ I have seen harassment/violence towards others when walking/rolling
- ☐ I have experienced harassment/violence when walking/rolling
- ☐ I have not seen or experienced harassment/violence when walking/rolling

« Previous
Next »

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40%

FIGURE 7-29: HARASSMENT INFLUENCE

MONTGOMERY COUNTY'S PEDESTRIAN SURVEY

How have these harassment/violence experiences influenced your walking/rolling behavior?

Please select all that apply.

- ☐ They have affected my decision to make a trip
- ☐ I have changed my travel times and/or avoid traveling at night
- ☐ I have changed my route and/or avoid walking on certain streets
- ☐ I have reduced my use of public transportation
- ☐ I have changed my mode of transport (e.g., bus, train, taxi, public or own bicycle, walking)
- ☐ I travel mainly within my neighborhood
- ☐ I prefer to travel in a private car
- ☐ I avoid traveling alone
- ☐ I pay more attention to my surroundings and other people
- ☐ I carry a personal defense weapon (e.g., pepper spray, sharp object)
- ☐ Other:
- ☐ They have had no influence

« Previous
Next »

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48%

FIGURE 7-30: HOME SETTING

**MONTGOMERY COUNTY'S
PEDESTRIAN
SURVEY**

You're almost done! Before we conclude the survey, we would like to ask some general information about you.

How would you describe where you live?

- ☐ Very Rural
- ☐ Somewhat Rural
- ☐ Suburban
- ☐ Somewhat Urban
- ☐ Very Urban

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51%

FIGURE 7-31: HOME TYPE

**MONTGOMERY COUNTY'S
PEDESTRIAN
SURVEY**

What type of place is your current residence?

- ☐ Single-family house (detached house)
- ☐ Townhouse or duplex (attached house)
- ☐ Building with 4 or fewer apartments or condos
- ☐ Building with 5 to 19 apartments or condos
- ☐ Building with 20 or more apartments or condos
- ☐ Retirement or senior housing
- ☐ Mobile home/trailer
- ☐ Dorm or barracks
- ☐ Other (e.g., boat, RV, van):

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53%

FIGURE 7-32: HOUSEHOLD SIZE

The screenshot shows the 'HOUSEHOLD SIZE' section of the survey. At the top is the survey title 'MONTGOMERY COUNTY'S PEDESTRIAN SURVEY' with a logo of a person walking. The question is 'How many people live in your household?'. There are five radio button options: '1 (I live alone)', '2 people', '3 people', '4 people', and '5 or more people'. A note box states: '*Note This information is only used to understand if we have received a representative sample of travelers in the county. Your answers will never be linked back to you and will only be analyzed with all other survey responses combined.' Below the options are 'Previous' and 'Next' buttons. At the bottom, there is a footer with '© 2020, RSG | Privacy Policy', a contact email 'pedsurvey@rsgsurvey.com', and a progress bar showing 50% completion.

MONTGOMERY COUNTY'S
PEDESTRIAN
SURVEY

How many people live in your household?*

☐ 1 (I live alone)

☐ 2 people

☐ 3 people

☐ 4 people

☐ 5 or more people

***Note** This information is only used to understand if we have received a representative sample of travelers in the county. Your answers will never be linked back to you and will only be analyzed with all other survey responses combined.

« Previous Next »

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50%

FIGURE 7-33: HOUSEHOLD MEMBERS

The screenshot shows the 'HOUSEHOLD MEMBERS' section of the survey. At the top is the survey title 'MONTGOMERY COUNTY'S PEDESTRIAN SURVEY' with a logo of a person walking. The question is 'Please indicate the age ranges of everyone currently living with you INCLUDING YOURSELF*'. There are five dropdown menus for: 'Number of children younger than 13', 'Number of children age 13-17', 'Number of adults age 18-24', 'Number of adults age 25-64', and 'Number of adults age 65 or older'. A note box states: '*Note This information is only used to understand if we have received a representative sample of travelers in the county. Your answers will never be linked back to you and will only be analyzed with all other survey responses combined.' Below the dropdowns are 'Previous' and 'Next' buttons. At the bottom, there is a footer with '© 2020, RSG | Privacy Policy', a contact email 'pedsurvey@rsgsurvey.com', and a progress bar showing 57% completion.

MONTGOMERY COUNTY'S
PEDESTRIAN
SURVEY

Please indicate the age ranges of everyone currently living with you INCLUDING YOURSELF*.

Number of children younger than 13

Number of children age 13-17

Number of adults age 18-24

Number of adults age 25-64

Number of adults age 65 or older

***Note** This information is only used to understand if we have received a representative sample of travelers in the county. Your answers will never be linked back to you and will only be analyzed with all other survey responses combined.

« Previous Next »

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57%

FIGURE 7-34: AGE

The screenshot shows a survey form titled "MONTGOMERY COUNTY'S PEDESTRIAN SURVEY". The question is "What is your age*?". There are eight radio button options: "Under 18", "18-24", "25-34", "35-44", "45-54", "55-64", "65-74", and "75 or older". A note box states: "This information is only used to understand if we have received a representative sample of travelers in the county. Your answers will never be linked back to you and will only be analyzed with all other survey responses combined." Below the question are two buttons: "Previous" and "Next". At the bottom, there is a footer with "© 2020, RSG | Privacy Policy", a progress bar at 60%, and contact information: "Questions or comments? Contact us at pedsurvey@rsgsurvey.com".

FIGURE 7-35: GENDER

The screenshot shows a survey form titled "MONTGOMERY COUNTY'S PEDESTRIAN SURVEY". The question is "What is your gender identity*?". There are four radio button options: "Female", "Male", "Other", and "Prefer not to answer". A note box states: "This information is only used to understand if we have received a representative sample of travelers in the county. Your answers will never be linked back to you and will only be analyzed with all other survey responses combined." Below the question are two buttons: "Previous" and "Next". At the bottom, there is a footer with "© 2020, RSG | Privacy Policy", a progress bar at 62%, and contact information: "Questions or comments? Contact us at pedsurvey@rsgsurvey.com".

FIGURE 7-36: DISABILITY

MONTGOMERY COUNTY'S
PEDESTRIAN
SURVEY

Do you have a mobility or physical disability*?

☐ Yes, I use an assistive device such as a wheelchair or cane

☐ Yes, and I do not use an assistive device

☐ No, I do not have a mobility or physical disability

☐ Prefer not to answer

*Note

This information is only used to understand if we have received a representative sample of travelers in the county. Your answers will never be linked back to you and will only be analyzed with all other survey responses combined.

« Previous

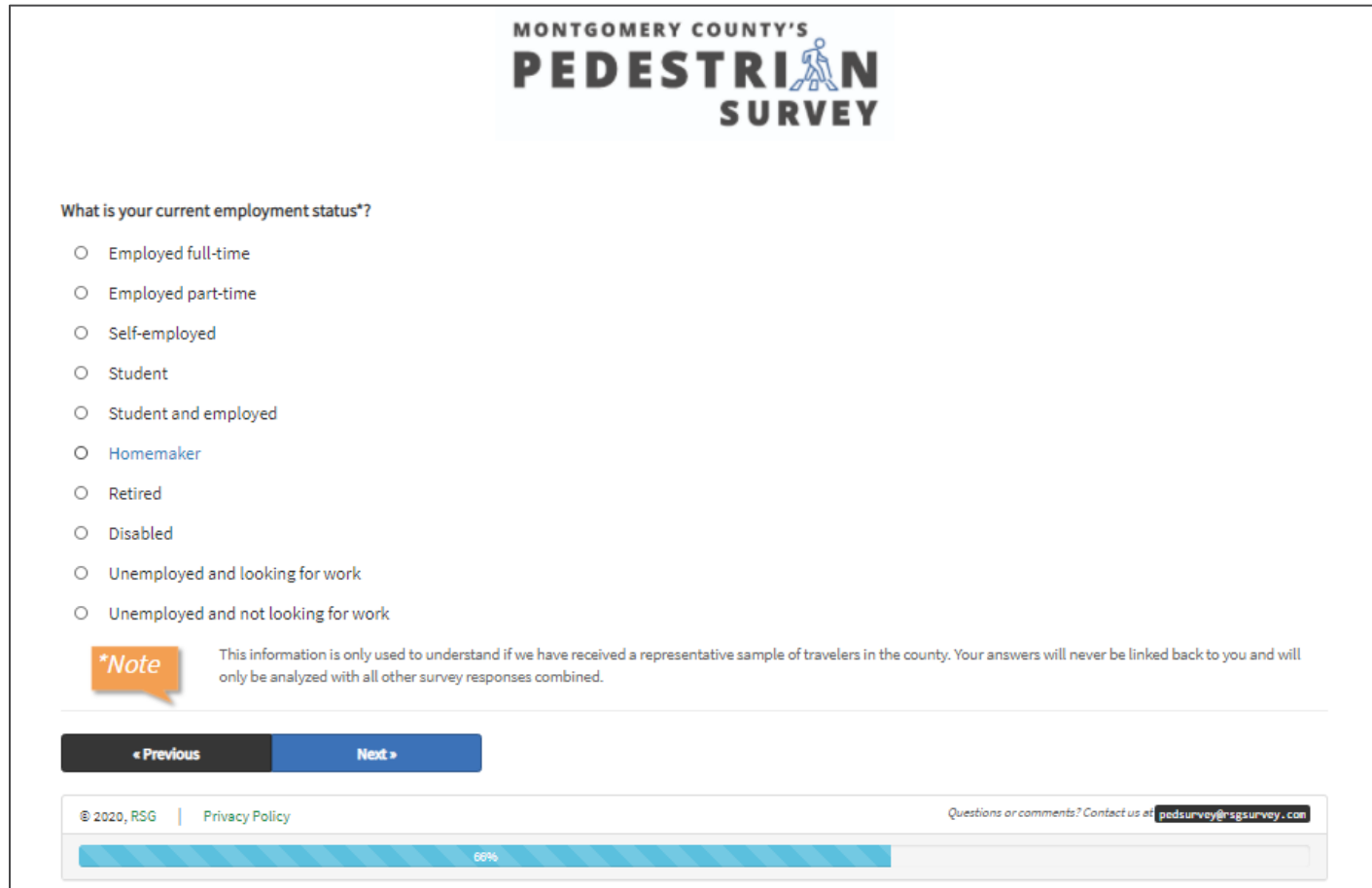
Next »

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64%

FIGURE 7-37: EMPLOYMENT STATUS



The screenshot displays a web-based survey form titled "MONTGOMERY COUNTY'S PEDESTRIAN SURVEY". The question "What is your current employment status*?" is followed by a list of radio button options: "Employed full-time", "Employed part-time", "Self-employed", "Student", "Student and employed", "Homemaker" (highlighted in blue), "Retired", "Disabled", "Unemployed and looking for work", and "Unemployed and not looking for work". A note box states: "This information is only used to understand if we have received a representative sample of travelers in the county. Your answers will never be linked back to you and will only be analyzed with all other survey responses combined." Navigation buttons "« Previous" and "Next »" are present. The footer includes "© 2020, RSG | Privacy Policy", a progress bar at 66%, and contact information "Questions or comments? Contact us at: pedsurvey@rsgsurvey.com".

MONTGOMERY COUNTY'S
PEDESTRIAN
SURVEY

What is your current employment status*?

- ☐ Employed full-time
- ☐ Employed part-time
- ☐ Self-employed
- ☐ Student
- ☐ Student and employed
- ☒ Homemaker
- ☐ Retired
- ☐ Disabled
- ☐ Unemployed and looking for work
- ☐ Unemployed and not looking for work

***Note** This information is only used to understand if we have received a representative sample of travelers in the county. Your answers will never be linked back to you and will only be analyzed with all other survey responses combined.

« Previous Next »

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66%

FIGURE 7-38: WORK LOCATION

**MONTGOMERY COUNTY'S
PEDESTRIAN
SURVEY**

As of today, which of the following best describes your current work location?
Please answer these questions for your primary job if you have multiple jobs.

- ☐ Work ONLY from home or remotely (telework, self-employed)
- ☐ Telework some days and travel to a work location for the remainder
- ☐ Work ONLY at a single location outside of home (office/jobsite)
- ☐ Work location regularly varies (different offices/jobsites)
- ☐ Drive/bike/travel for work (driver, sales, deliveries)

« Previous Next »

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68%

FIGURE 7-39: WORK LOCATION BEFORE COVID-19

**MONTGOMERY COUNTY'S
PEDESTRIAN
SURVEY**

Before COVID-19 (mid-March 2020), which of the following best described your work location?
Please answer these questions for your primary job if you have multiple jobs.

- ☐ Worked ONLY from home or remotely (telework, self-employed)
- ☐ Teleworked some days and travel to a work location for the remainder
- ☐ Worked ONLY at a single location outside of home (office/jobsite)
- ☐ Work location regularly varied (different offices/jobsites)
- ☐ Drove/biked/traveled for work (driver, sales, deliveries)
- ☐ Did not work before COVID-19

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71%

FIGURE 7-40: TELEWORK

The screenshot displays a web-based survey interface for 'MONTGOMERY COUNTY'S PEDESTRIAN SURVEY'. The title is centered at the top in a bold, sans-serif font, with a small icon of a person walking to the right of the word 'PEDESTRIAN'. Below the title, a instruction reads: 'Please answer these questions for your primary job if you have multiple jobs.' The first question is: 'In the past month, how often have you typically worked from home or teleworked (instead of going to work)?' followed by a dropdown menu labeled 'Please select...'. The second question is: 'Once COVID-19 is no longer a threat (e.g., available treatment or vaccine), how often do you expect to work from home in the future?' followed by another dropdown menu labeled 'Please select...'. At the bottom of the question area, there are two buttons: 'Previous' (dark grey) and 'Next' (blue). Below the buttons is a footer section containing copyright information '© 2020, RSG' and a link to 'Privacy Policy' on the left, and contact information 'Questions or comments? Contact us at: pedsurvey@rsgsurvey.com' on the right. A progress bar at the very bottom shows a blue bar that is approximately 75% full, with the text '73%' centered above it.

MONTGOMERY COUNTY'S
PEDESTRIAN
SURVEY

Please answer these questions for your primary job if you have multiple jobs.

In the past month, how often have you typically worked from home or teleworked (instead of going to work)?

Once COVID-19 is no longer a threat (e.g., available treatment or vaccine), how often do you expect to work from home in the future?

« Previous Next »

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73%

FIGURE 7-41: WORK LOCATION

MONTGOMERY COUNTY'S PEDESTRIAN SURVEY

Where is your primary work location outside of the home?

[Need help using the map?](#)

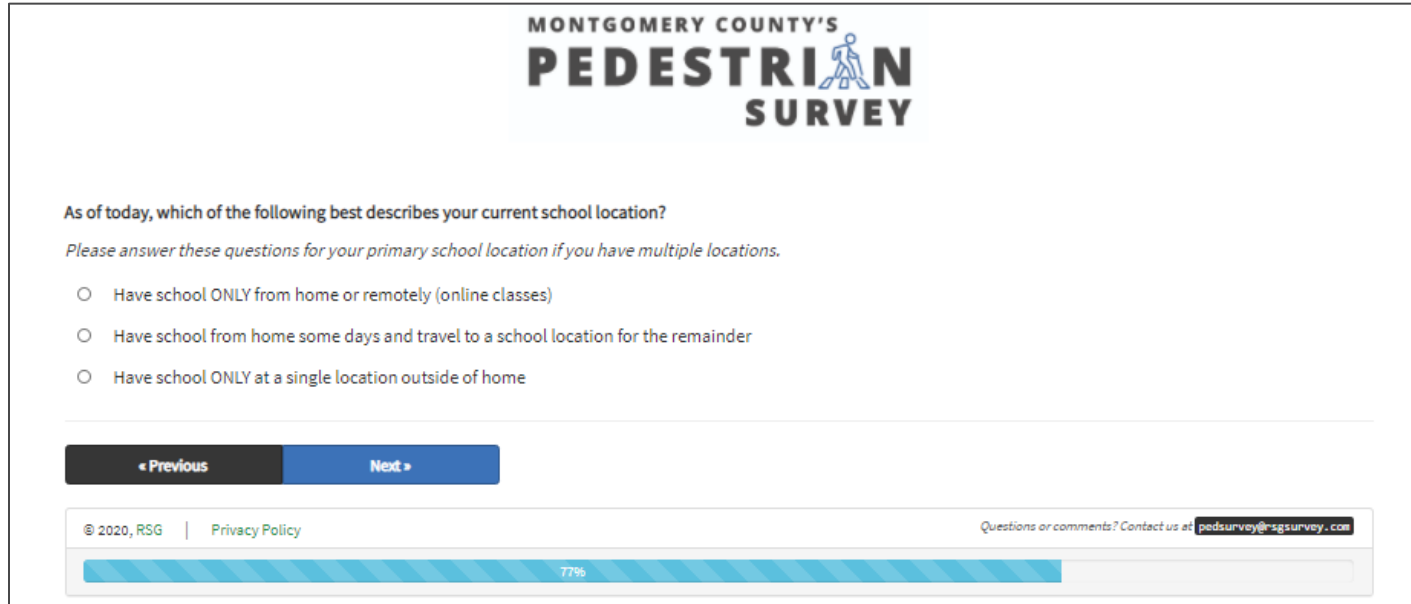
You can also click to zoom in on the map and place a marker to select a location.

[Need help locating the correct address?](#)

A detailed map of Montgomery County, Maryland, and its immediate surroundings. Major highways such as I-495, I-270, I-95, and US-301 are clearly visible. Labeled locations include Catocin, Leesburg, Ashburn, Sterling, Dranesville, Herndon, Reston, Hunter Mill, Dulles, Germantown, Gaithersburg, Rockville, Wheaton, Silver Spring, Bethesda, Columbia, Ellicott City, Baltimore, Dundalk, Ferndale, Glen Burnie, South Gate, Pasadena, Green Haven, Magothy River, Severna Park, Severn Arnold River, Annapolis, and South River. The Potomac River is shown flowing through the western part of the county. In the bottom left corner, there is a Bing logo. In the bottom right corner, small text reads "© 2020 TomTom. © 2020 Microsoft Corporation. Terms". On the right side of the map, there are navigation icons: a square labeled "Road", a plus sign in a circle for zooming in, and a minus sign in a circle for zooming out.

[< Previous](#)

FIGURE 7-42: SCHOOL LOCATION



**MONTGOMERY COUNTY'S
PEDESTRIAN
SURVEY**

As of today, which of the following best describes your current school location?

Please answer these questions for your primary school location if you have multiple locations.

- ☐ Have school ONLY from home or remotely (online classes)
- ☐ Have school from home some days and travel to a school location for the remainder
- ☐ Have school ONLY at a single location outside of home

« Previous Next »

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77%

FIGURE 7-43: SCHOOL LOCATION BEFORE

**MONTGOMERY COUNTY'S
PEDESTRIAN
SURVEY**

Before COVID-19 (mid-March 2020), which of the following best describes your school location?
Please answer these questions for your primary school location if you have multiple locations.

- ☐ Attended school ONLY from home or remotely (online classes)
- ☐ Attended school from home some days and traveled to a school location for the remainder
- ☐ Attended school ONLY at a single location outside of home
- ☐ Was not a student before COVID-19

« Previous Next »

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80%

FIGURE 7-44: REMOTE SCHOOL FREQUENCY

**MONTGOMERY COUNTY'S
PEDESTRIAN
SURVEY**

Please answer these questions for your primary school location if you have multiple locations.

Before the COVID-19 pandemic, how often did you typically have school from home (instead of going to school that day)?

In the past month, how often have you typically had school from home (instead of going to school)?

« Previous Next »

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62%

FIGURE 7-45: SCHOOL LOCATION

MONTGOMERY COUNTY'S PEDESTRIAN SURVEY

Where is your primary school location outside of the home?

You can also click to zoom in on the map and place a marker to select a location.

[Need help using the map?](#)

[Need help locating the correct address?](#)

A detailed map of Montgomery County, Maryland, and its immediate surroundings. Major highways such as I-495, I-270, I-301, and US-30 are clearly visible. The Potomac River flows through the western part of the county. Labeled locations include Catoclin, Leesburg, Broad Run, Ashburn, Sterling, Dranesville, Herndon, Reston, Hunter Mill, Dulles, Germantown, Gaithersburg, Rockville, Wheaton, Silver Spring, Bethesda, Columbia, Ellicott City, Baltimore, Dundalk, Ferndale, Glen Burnie, South Gate, Pasadena, Green Haven, Magothy River, Severna Park, Severn Arnold River, Annapolis, and South River. Map navigation tools like zoom-in (+) and zoom-out (-) buttons are present in the top right corner. A legend indicates that thick grey lines represent roads. The Bing logo is in the bottom left corner, and copyright information for TomTom and Microsoft Corporation is at the bottom right.

[< Previous](#)

FIGURE 7-46: HOUSEHOLD VEHICLES

**MONTGOMERY COUNTY'S
PEDESTRIAN
SURVEY**

How many vehicles do members of your household own or lease*?
Please include all cars, pickup trucks, minivans, and motorcycles that you own or lease.

- ☐ 0 (no vehicles)
- ☐ 1 vehicle
- ☐ 2 vehicles
- ☐ 3 vehicles
- ☐ 4 vehicles
- ☐ 5 or more vehicles

***Note** This information is only used to understand if we have received a representative sample of travelers in the county. Your answers will never be linked back to you and will only be analyzed with all other survey responses combined.

« Previous Next »

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88%

FIGURE 7-47: HISPANIC, SPANISH OR LATINO ORIGIN

**MONTGOMERY COUNTY'S
PEDESTRIAN
SURVEY**

Are you of Hispanic, Spanish or Latino origin*?

- ☐ Yes
- ☐ No
- ☐ Prefer not to answer

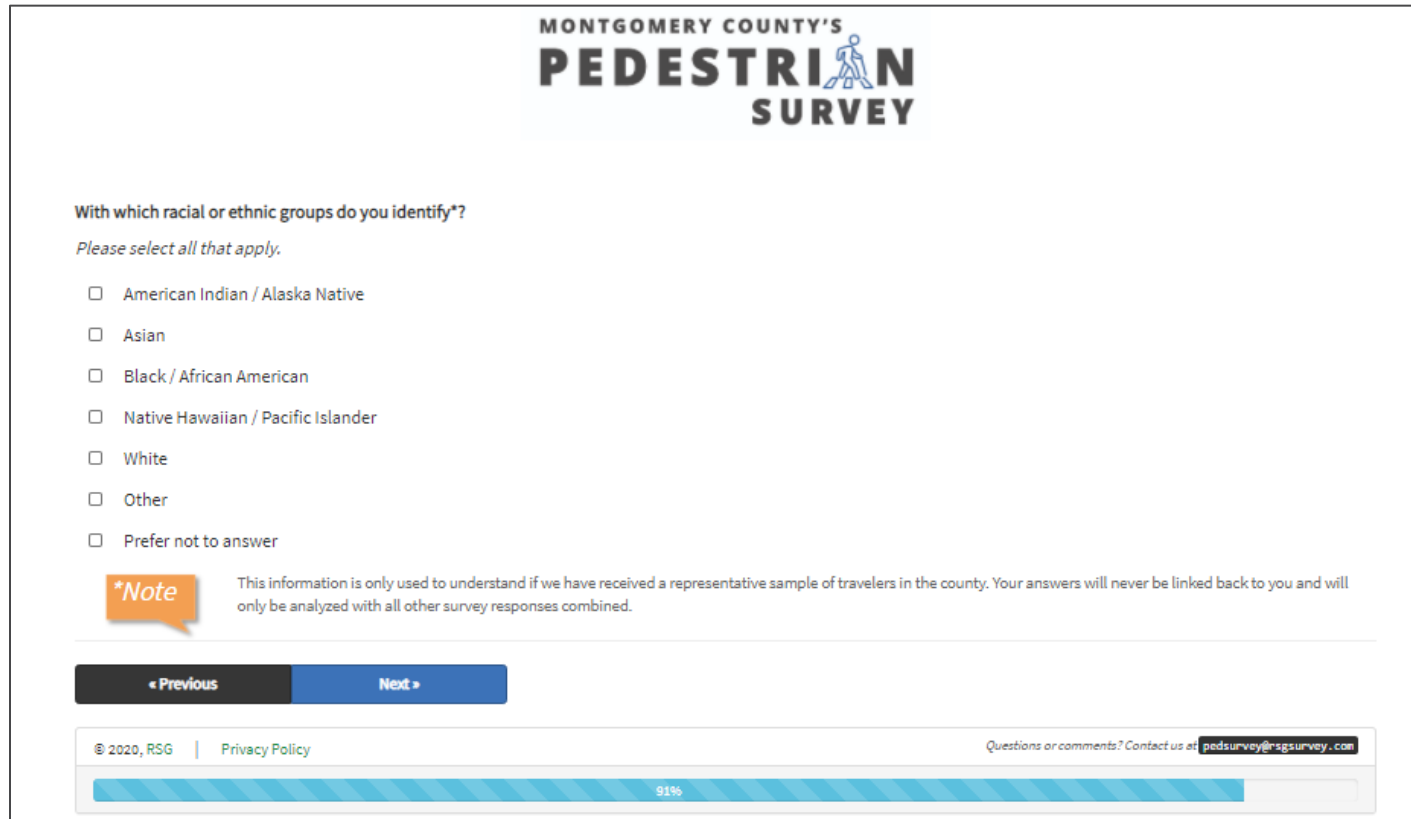
***Note** This information is only used to understand if we have received a representative sample of travelers in the county. Your answers will never be linked back to you and will only be analyzed with all other survey responses combined.

« Previous Next »

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85%

FIGURE 7-48: RACE



The screenshot shows a web-based survey form titled "MONTGOMERY COUNTY'S PEDESTRIAN SURVEY". The question is "With which racial or ethnic groups do you identify?" and it instructs users to "Please select all that apply." The options are: American Indian / Alaska Native, Asian, Black / African American, Native Hawaiian / Pacific Islander, White, Other, and Prefer not to answer. A note box states: "This information is only used to understand if we have received a representative sample of travelers in the county. Your answers will never be linked back to you and will only be analyzed with all other survey responses combined." At the bottom, there are navigation buttons for "Previous" and "Next", a footer with copyright and privacy policy information, and a progress bar showing 91% completion.

**MONTGOMERY COUNTY'S
PEDESTRIAN
SURVEY**

With which racial or ethnic groups do you identify*?
Please select all that apply.

- ☐ American Indian / Alaska Native
- ☐ Asian
- ☐ Black / African American
- ☐ Native Hawaiian / Pacific Islander
- ☐ White
- ☐ Other
- ☐ Prefer not to answer

***Note** This information is only used to understand if we have received a representative sample of travelers in the county. Your answers will never be linked back to you and will only be analyzed with all other survey responses combined.

« Previous Next »

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91%

FIGURE 7-49: HOUSEHOLD INCOME

MONTGOMERY COUNTY'S
PEDESTRIAN
SURVEY

What category best indicates your 2019 household annual income before taxes*?

- ☐ Less than \$15,000
- ☐ \$15,000 – \$24,999
- ☐ \$25,000 – \$34,999
- ☐ \$35,000 – \$49,999
- ☐ \$50,000 – \$74,999
- ☐ \$75,000 – \$99,999
- ☐ \$100,000 – \$149,999
- ☐ \$150,000 – \$199,999
- ☐ \$200,000 – \$299,999
- ☐ \$300,000 or more
- ☐ Prefer not to answer

***Note**

This information is only used to understand if we have received a representative sample of travelers in the county. Your answers will never be linked back to you and will only be analyzed with all other survey responses combined.

« Previous

Next »

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93%

FIGURE 7-50: RECONTACT AND RAFFLE

The screenshot shows the 'RECONTACT AND RAFFLE' section of the survey. At the top is the logo for 'MONTGOMERY COUNTY'S PEDESTRIAN SURVEY'. Below the logo, there are two questions, each with 'Yes' and 'No' radio button options:

- Would you like to be contacted for future Montgomery County planning surveys?
 - ☐ Yes
 - ☐ No
- Would you like to be entered into the raffle to win one of ten \$100 Visa gift cards?
 - ☐ Yes
 - ☐ No

At the bottom of the question area are two buttons: '« Previous' (black) and 'Next »' (blue). Below these buttons is a footer bar containing copyright information '© 2020, RSG | Privacy Policy', a contact link 'Questions or comments? Contact us at pedsurvey@sgsurvey.com', and a progress bar showing '95%' completion.

FIGURE 7-51: COMMENTS

The screenshot shows the 'COMMENTS' section of the survey. At the top is the logo for 'MONTGOMERY COUNTY'S PEDESTRIAN SURVEY'. Below the logo, the text reads: 'Thank you for participating! If you have additional comments or suggestions either about the survey or the survey experience itself, please enter them in the box below and click the "Next" button. Otherwise, please click "Next" to complete the survey.'

Below the text is a large, empty text input box with a small cursor icon at the bottom right corner.

At the bottom of the input area are two buttons: '« Previous' (black) and 'Next »' (blue). Below these buttons is a footer bar containing copyright information '© 2020, RSG | Privacy Policy', a contact link 'Questions or comments? Contact us at pedsurvey@sgsurvey.com', and a progress bar showing '97%' completion.

