

PEDESTRIAN AND BICYCLE MASTER PLAN UPDATE AND COMPLETE STREETS DESIGN GUIDEILNES ONLINE SURVEY - SUMMARY REPORT OF RESULTS

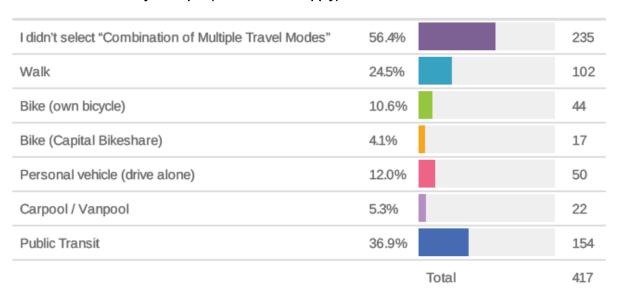
City of Alexandria | Department of Transportation & Environmental Services Friday, November 7^{th} , 2014

This report outlines the results of an online survey for the Pedestrian and Bicycle Master Plan Update / Complete Streets Design Guidelines. The survey was available for participants to take online from April 6 – October 31, 2014. The survey was available in both English and Spanish. In that time, 540 people submitted responses.

Question 1: Over the course of the year, what are the most common ways you travel to work?

| | Walk | Bike (own bicycle) | Bike (Capital Bikeshare) | Personal vehicle (drive alone) | Carpool / Vanpool | Building / residential complex shuttle | Bus | Metrorail | VRE / Commuter Rail | Taxi | Combination of Multiple Travel Modes | Other | Responses |
|------------------------------|-----------------|--------------------------|--------------------------------|---|----------------------|---|-------------------|--------------------|---------------------------|-----------|---|-------------------|-----------|
| 1st Most Common Way | 47 9.0% | 90 17.2% | 1 0.2% | 207 39.6% | 12 2.3% | 0.0% | 21 4.0% | 46 8.8% | 4 0.8% | 0.0% | 78 14.9% | 17 3.3% | 523 |
| 2nd Most Common Way | 51 11.2% | 71 15.6% | 8 1.8% | 106 23.3% | 19 4.2% | 2 0.4% | 34 7.5% | 70 15.4% | 2 0.4% | 5 1.1% | 70 15.4% | 17 3.7% | 455 |

Question 2: On Question 1, if you selected "Combination of Multiple Travel Modes," what travel modes are involved in your trip? (Check all that apply)



Question 3: What are the most common ways you travel for NON-WORK trips (errands, social, etc.)?

| | Walk | Bike (own bicycle) | Bike (Capital Bikeshare) | Personal vehicle (drive alone) | Carpool / Vanpool | Building / residential complex shuttle | Bus | Metrorail | VRE / Commuter Rail | Taxi | Other | Res |
|---------------------------|------------------|--------------------------|--------------------------------|---|-------------------------|---|----------------|--------------------|---------------------------|------------------|----------------|-----|
| 1st Most Common Way | 127 23.7% | 55 10.3% | 4 0.7% | 299 55.8% | 17 3.2% | 0 0.0% | 4 0.7% | 19 3.5% | 0 0.0% | 2 0.4% | 9 1.7% | 536 |
| 2nd Most Common Way | 160 31.8% | 95 18.9% | 9 1.8% | 130 25.8% | 18 3.6% | 2 0.4% | 14 2.8% | 59 11.7% | 0 0.0% | 6 1.2% | 10 2.0% | 503 |

Question 4: How far do you typically travel (one-way) for the following types of trips? (Please make your best guess about differences)

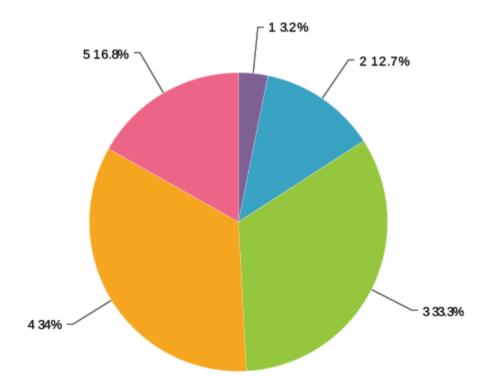
| | Average | Max | StdDev | Responses |
|------------------------|---------|-----|--------|-----------|
| Work | 3.95 | 5 | 1.64 | 505 |
| School | 1.71 | 5 | 1.79 | 125 |
| Metro Station/Bus Stop | 1.29 | 5 | 1.21 | 433 |
| Errands/Grocery Store | 1.92 | 5 | 1.36 | 523 |
| Entertainment/Movies | 2.76 | 5 | 1.55 | 459 |
| Coffee/Meal Out | 2.15 | 5 | 1.56 | 510 |
| Exercise/Recreation | 2.34 | 5 | 1.83 | 484 |

Total 531

Question 5: How often to you walk for these kinds of trips during seasons with good weather?

| | Several times a week | A few times a month | A few times a year | Never | Responses |
|------------------------|----------------------|---------------------|--------------------|---------------------|-----------|
| Work | 149 29.2% | 32 6.3% | 28 5.5% | 302 59.1% | 511 |
| School | 34 8.7% | 11 2.8% | 10 2.6% | 335 85.9% | 390 |
| Metro Station/Bus Stop | 176 34.9% | 114 22.6% | 111 22.0% | 104 20.6% | 505 |
| Errands/Grocery Store | 180 34.5% | 163 31.2% | 84 16.1% | 95 18.2% | 522 |
| Entertainment/Movies | 62 12.3% | 124 24.6% | 109 21.6% | 209 41.5% | 504 |
| Coffee/Meal Out | 154 29.3% | 192 36.6% | 105 20.0% | 74 14.1% | 525 |
| Exercise/Recreation | 318 60.6% | 115 21.9% | 47 9.0% | 45 8.6% | 525 |

Question 6: In your opinion, how walkable is the City of Alexandria? Pleas rate using the following scale: 1 – Very Poor. The City has very poor conditions for walking. Most places I want to travel on foot feel unsafe and/or uncomfortable. 5 – Excellent. Alexandria has excellent conditions for walking. Most places I travel on foot feel safe and comfortable.



Question 7: Have any of the following circumstances prevented you from walking or limited the amount that you walk in Alexandria? (Select up to five answers)

| I am physically limited from walking. | 2.9% | 14 |
|--|-------|-----|
| There are no sidewalks or missing sections of sidewalk where I travel. | 28.4% | 138 |
| The sidewalks are too narrow or have obstacles in the way. | 30.7% | 149 |
| The surface of sidewalks is not even. | 36.2% | 176 |
| There are missing sidewalk ramps. | 6.0% | 29 |
| There are no pedestrian-friendly roads or trails near my work/school. | 8.4% | 41 |
| There are no pedestrian-friendly roads or trails near my home. | 6.2% | 30 |
| I cannot safely access trails from where I live/work. | 8.2% | 40 |
| I have concerns about crime or personal safety. | 20.8% | 101 |
| There are too many barriers to walking (highways, big roads, busy intersections, etc). | 29.0% | 141 |
| It would take me too long to walk to the places I need to go. | 47.5% | 231 |
| I need a car for work purposes. | 20.0% | 97 |
| I need a car in order to pick up children from school or activities. | 11.3% | 55 |
| I often have heavy or bulky items to carry. | 38.9% | 189 |
| Other | 11.3% | 55 |
| | Total | 486 |

Question 8: If you do walk for transportation purposes, what motivates you to do so? (Select up to three answers).

| It is easier or faster than other transportation modes. | 30.6% | 156 |
|---|-------|-----|
| It saves me money. | 35.5% | 181 |
| It is good exercise. | 77.1% | 393 |
| I feel like I'm helping the environment. | 35.9% | 183 |
| I don't have any other way to get around. | 3.1% | 16 |
| It is a nice way to spend time with friends/family. | 18.6% | 95 |
| I do not walk for transportation purposes. | 14.3% | 73 |
| Other | 3.7% | 19 |
| | Total | 510 |

Question 9: If you do walk for recreation purposes, what motivates you to do so? (Select up to three answers).

| It is easier or more enjoyable than other types of recreation. | 32.4% | 168 |
|--|-------|-----|
| It saves me money. | 12.7% | 66 |
| It is good exercise. | 83.4% | 432 |
| I feel like I'm helping the environment. | 17.2% | 89 |
| It is a nice way to spend time with friends/family | 32.4% | 168 |
| I find walking to be pleasant and relaxing. | 59.3% | 307 |
| I do not walk for recreation purposes. | 3.9% | 20 |
| Other | 3.9% | 20 |
| | Total | 518 |

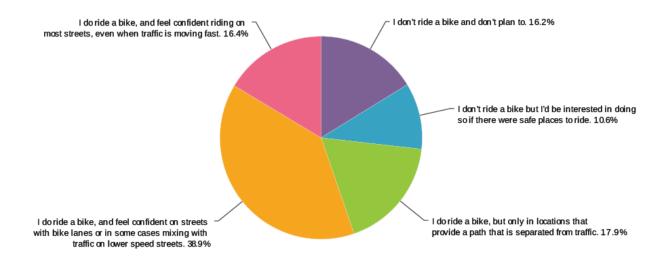
Question 10: What types of improvements would encourage you to walk more? (Select up to five answers)

| , | | |
|---|-------|-----|
| Better/more sidewalks | 42.8% | 214 |
| Better/more trails | 33.2% | 166 |
| Lower vehicle speeds | 22.4% | 112 |
| More traffic calming infrastructure (ex. curb extensions, speed bumps, etc.) | 26.8% | 134 |
| More pedestrian crossing signals at intersections | 28.4% | 142 |
| Improved street lighting | 26.4% | 132 |
| More crosswalks at intersections | 17.4% | 87 |
| More crosswalks in the middle of the block (not at an intersection) | 17.2% | 86 |
| Better maintenance of existing sidewalks and paths | 33.6% | 168 |
| Employer incentives to walk to work | 4.0% | 20 |
| Increased traffic enforcement for safer driving and biking around pedestrians | 35.6% | 178 |
| Better sidewalk and trail connections to transit stops/stations | 25.6% | 128 |
| More trees, shade, benches or other amenities along my route | 26.2% | 131 |
| Other | 17.0% | 85 |
| | Total | 500 |

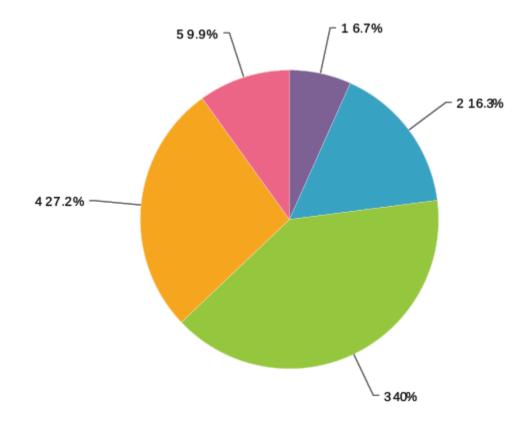
Question 11: Have you ridden a bicycle in the City of Alexandria in the past year?

| Yes | 70.1% | | 366 |
|-----|-------|-------|---------|
| No | 29.9% | Total | 156 |

Question 12: What statement best describes you?



Question 13: In your opinion, how "bicycle friendly" is the City of Alexandria? Please rate using the following scale. 1 – Very Poor. The City has very poor conditions for bicycling. Most places I want to travel by bicycle feel unsafe or uncomfortable. 5 – Excellent. Alexandria has excellent conditions for bicycling. Most places I bike feel safe and comfortable.



Question 14: Have any of the following circumstances prevented you from bicycling or limited the amount that you bike in Alexandria? (Select up to five answers)

| I am physically limited from biking. | 4.8% | | 23 |
|--|-------|-------|-----|
| I don't own a bicycle. | 17.6% | | 84 |
| I own a bicycle, but it's not in riding condition. | 5.0% | | 24 |
| I cannot safely access trails. | 7.1% | | 34 |
| There are no bicycle-friendly roads or trails near my home. | 14.5% | | 69 |
| There are no Capital Bikeshare stations that are convenient to me. | 19.7% | | 94 |
| I cannot afford a bicycle or Capital Bikeshare membership. | 1.1% | | 5 |
| I am uncomfortable sharing the road with cars and trucks that are driving fast. | 53.9% | | 257 |
| There are too many barriers to biking (wide intersections, highways, streams, etc.). | 22.6% | | 108 |
| It would take me too long to bike to the places I need to go. | 21.4% | | 102 |
| There are no showers or changing rooms at my work/school. | 13.4% | | 64 |
| There are no bicycle racks or other safe places to park my bike. | 15.9% | | 76 |
| I have concerns about crime or personal safety. | 12.0% | | 57 |
| I need a car for work purposes. | 14.5% | | 69 |
| I often have heavy or bulky items to carry. | 28.3% | | 135 |
| Other | 14.9% | | 71 |
| | | Total | 477 |

Question 15: How often do you use a bicycle for these kinds of trips during seasons with good weather?

| | Several times a week | A few times a month | A few times a year | Never | Responses |
|------------------------|----------------------|---------------------|--------------------|---------------------|-----------|
| Work | 119 23.3% | 44 8.6% | 48 9.4% | 299 58.6% | 510 |
| School | 8 1.9% | 12 2.8% | 11 2.6% | 395 92.7% | 426 |
| Errands/Grocery Store | 52 10.2% | 112 22.0% | 93 18.3% | 251 49.4% | 508 |
| Metro Station/Bus Stop | 30 6.1% | 54 11.0% | 56 11.4% | 352 71.5% | 492 |
| Entertainment/Movies | 18 3.7% | 57 11.6% | 70 14.2% | 347 70.5% | 492 |
| Coffee/Meal Out | 32 6.3% | 93 18.5% | 104 20.6% | 275 54.6% | 504 |
| Exercise/Recreation | 153 29.6% | 136 26.3% | 93 18.0% | 135 26.1% | 517 |

Question 16: If you ride a bicycle for transportation purposes in Alexandria, what motivates you to do so? (Select up to three answers)

| It is easier or faster than other transportation modes. | 35.2% | 162 |
|--|-------|-----|
| It saves me money. | 30.7% | 141 |
| It is good exercise. | 58.0% | 267 |
| I feel like I'm helping the environment. | 23.9% | 110 |
| It's a nice way to spend time with friends/family. | 8.5% | 39 |
| I don't have any other way to get around. | 1.3% | 6 |
| I do not ride a bicycle for transportation purposes in Alexandria. | 36.1% | 166 |
| Other | 3.9% | 18 |
| | Total | 460 |

Question 17: If you ride a bicycle for recreation purposes in Alexandria, what motivates you to do so? (Select up to three answers)

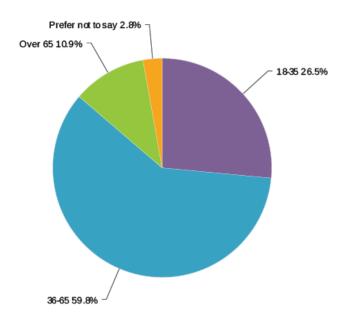
| It is easier or more enjoyable than other types of recreation. | 39.7% | 192 |
|--|-------|-----|
| It saves me money. | 13.8% | 67 |
| It is good exercise. | 75.8% | 367 |
| I feel like I'm helping the environment. | 18.4% | 89 |
| It's a nice way to spend time with friends/family. | 29.1% | 141 |
| I do not ride a bicycle for recreation purposes in Alexandria. | 20.5% | 99 |
| Other | 2.7% | 13 |
| | Total | 484 |

Question 18: What types of improvements would encourage you to ride a bicycle more often? (Select up to five)

| Better/more bike lanes | 59.4% | 277 |
|---|-------|-----|
| Better/more trails | 46.8% | 218 |
| Lower vehicle speeds or less traffic | 36.3% | 169 |
| Improved bicycle connections to transit stops/stations | 28.1% | 131 |
| Better/more bike racks or bike parking options | 25.5% | 119 |
| Skills classes on how to ride in traffic | 8.2% | 38 |
| Education for drivers about how to respectfully share the road | 29.2% | 136 |
| Increased traffic enforcement for safer driving around bicyclists | 34.3% | 160 |
| Improved road maintenance (e.g. filling potholes) | 31.1% | 145 |
| Better/more bicycle racks on buses | 3.0% | 14 |
| Showers and/or lockers at work | 11.4% | 53 |
| More Capital Bikeshare stations around Alexandria | 19.1% | 89 |
| Other | 17.0% | 79 |
| | Total | 466 |

Questions 19 and 20 were related to home and work zip codes. Due to the large number of zip codes, the answers are not shown in this summary.

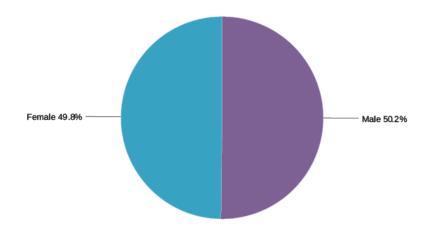
Question 21: What is your age?



Question 22: Other than yourself, are there any members of your household: (Check all that apply)

| Under age 18 | 70.6% | | 120 |
|--------------|-------|-------|-----|
| Over age 65 | 32.9% | | 56 |
| | | Total | 170 |

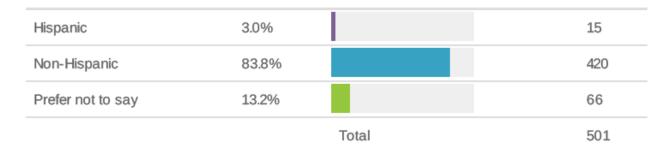
Question 23: What is your gender?



Question 24: What is your race?

| White | 84.8% | 445 |
|---|-------|-----|
| African-American | 3.1% | 16 |
| Asian | 1.9% | 10 |
| American Indian or Alaska Native | 0.6% | 3 |
| Native Hawaiian or Other Pacific Islander | 0.0% | 0 |
| Prefer not to say | 8.6% | 45 |
| Other | 2.9% | 15 |
| | Total | 525 |

Question 25: What is your ethnicity?



Question 26: What is the primary language spoken in your home?

| English | 99.2% | | 519 |
|---------|-------|-------|-----|
| Spanish | 0.0% | | 0 |
| Other | 0.8% | | 4 |
| | | Total | 523 |

Question 27: What is your estimated household income?

| Less than \$20,000 | 1.7% | 8 |
|------------------------|-------|-----|
| \$20,001 to \$40,000 | 3.3% | 16 |
| \$40,001 to \$60,000 | 3.8% | 18 |
| \$60,001 to \$80,000 | 8.4% | 40 |
| \$80,001 to \$100,000 | 11.5% | 55 |
| \$100,001 to \$120,000 | 15.2% | 73 |
| More than \$120,000 | 56.2% | 269 |
| | Total | 479 |