AlexMoves - City of Alexandria Mobility Survey

Conducted by the NuStats Research Solutions, LLC
METHODOLOGY

In 2018 the City contracted with NuStats to collect data on travel behavior by Alexandria residents.

• Surveyors randomly sampled residents between fall 2018 and spring 2019.
• The survey, conducted by phone, included two parts:
  • Questions to compare with the City’s 2016 Resident Travel Survey
  • A 24-hour travel diary
KEY TAKEAWAYS

• Overall trip types and trip modes provide important baseline information

• Findings by zip code, age, and other variables can be found in the full report.
While a great amount of data exists about commute travel patterns through census data, less is known about travel behavior outside of commuting.

According to survey results, non-commute trips make up about 68% of all trips by Alexandria residents.
Trip Modes for All Trips

<table>
<thead>
<tr>
<th>Mode</th>
<th>Percentage</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drive</td>
<td>78%</td>
<td>41% Drive alone</td>
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<tr>
<td></td>
<td></td>
<td>34% Carpool</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2% Taxi/TNC</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1% Carshare</td>
</tr>
<tr>
<td>Transit</td>
<td>9%</td>
<td>4% Rail</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3% Bus</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2% Multiple Systems</td>
</tr>
<tr>
<td>Walk</td>
<td>14%</td>
<td></td>
</tr>
<tr>
<td>Bike</td>
<td>1%</td>
<td></td>
</tr>
</tbody>
</table>
Some questions enable comparisons between the City’s 2016 surveys.

Trend data will be more reliable over a longer period of time.
Encouraging Biking, Walking, and Transit

- If there were more crosswalks
- If there were more on-street bike lanes
- If the sidewalks and paths were in better condition
- If there was more off-street walking or multi-use paths/trails
- If there was more street lighting after dark
- If I had access to public or workplace showers

• In 2019, more respondents than in 2019 indicated that the factors above would encourage them to bike or walk.

• In both 2016 and 2019, travel time was the biggest factor limiting transit usage. Safety was considered a lesser issue in limiting transit usage.
More research needs to be conducted to verify the apparent shift from drop off/pick up to walking between the two surveys.
Both surveys captured a similar share of persons who have difficulties that may influence travel behavior.
38% of bicycle trips are more than 5 miles. A distance is typically seen as too far to bike for transportation. This finding could be due to the strong trail network in the area.

38% of drive alone trips are trips under 3 miles. Trips under 3 miles are typically seen as easier to transition to biking, walking, or transit trips with the right infrastructure, incentives, and information.

69% of all trips in Alexandria begin and end within the City. The City has a greater ability to improve mobility for trips fully within the City.
Average Travel Duration Per Mode

<25 MINUTES
Private Vehicle (as driver), Walk, Transportation Network Company (TNC), Carshare (Zipcar, Hertz On-Demand)

26 - 35 MINUTES
Drive Alone, Private Vehicle (as passenger), Metro Bus, Multiple Transit Systems, Taxi/Hired Car, Motorcycle/Moped/Motorized Scooter, Other

36 - 55 MINUTES
Dash, Bike, Carpool/Vanpool

>55 MINUTES
Rail
On average, men and women have different travel behaviors.

- Men reported biking at a rate 10X that of women.
- Men tend to use transit at a rate 2-3 times more than women.
- Women are much more likely to drive themselves or others.
Travel Mode by Gender

- Drive Alone: Male 35%, Female 45%
- Private Vehicle - as driver: Male 20%, Female 25%
- Private Vehicle - as passenger: Male 10%, Female 5%
- Public transportation - Rail: Male 3%, Female 2%
- Public transportation - Metro Bus: Male 2%, Female 1%
- Public transportation - Dash: Male 1%, Female 0.5%
- Public transportation - Multiple transit systems: Male 1%, Female 0.5%
- Transportation Network Company (TNC): Male 1%, Female 0.5%
- Taxi, other hired car service: Male 0.5%, Female 0.5%
- Carshare (Zipcar, Hertz On-Demand): Male 0.5%, Female 0.5%
- Bike: Male 0.5%, Female 0.5%
- Carpool/Vanpool: Male 0.5%, Female 0.5%
- Other: Male 0.5%, Female 0.5%
- Motorcycle/Moped/Motorized Scooter: Male 0.5%, Female 0.5%
- Male: 45% - Female: 45%
TRANSPORTATION USE IN THE LAST MONTH

When asked about how frequently residents use different modes:

- 41% reported that they use rail, DASH, MetroBus, or multiple systems daily
- 38% reported they drive alone daily
- 39% used Uber/Lyft a few times a month
- 5% bike for transportation at least a few times a month
TRANSPORTATION USE IN THE LAST MONTH: DRIVE ALONE

- Daily/Nearly daily: 58%
- Few times per week: 19%
- Few times per month: 9%
- One time: 1%
- None: 13%
TRANSPORTATION USE IN THE LAST MONTH: RAIL

- Daily/Nearly daily: 17%
- Few times per week: 9%
- Few times per month: 29%
- One time: 17%
- None: 29%
TRANSPORTATION USE IN THE LAST MONTH: DASH

- Daily/Nearly daily: 9%
- Few times per week: 3%
- Few times per month: 9%
- One time: 12%
- None: 67%
TRANSPORTATION USE IN THE LAST MONTH:
MULTIPLE TRANSIT SYSTEMS

- Daily/Nearly daily: 8%
- Few times per week: 5%
- Few times per month: 8%
- One time: 7%
- None: 73%
TRANSPORTATION USE IN THE LAST MONTH: METRO BUS

- Daily/Nearly daily: 7%
- Few times per week: 5%
- Few times per month: 9%
- One time: 10%
- None: 70%
TRANSPORTATION USE IN THE LAST MONTH: TRANSPORTATION NETWORK COMPANY

- Daily/Nearly daily: 2%
- Few times per week: 7%
- Few times per month: 39%
- One time: 15%
- None: 36%
TRANSPORTATION USE IN THE LAST MONTH: BIKESHARE

1% Daily/Nearly daily
1% Few times per week
3% Few times per month
3% One time
92% None
Thank you!

ALEXMOVES - CITY OF ALEXANDRIA MOBILITY SURVEY

The full report and appendices are available on the City’s Long Range Planning website.