# LAWRENCE TRANSPORTATION DISADVANTAGED POPULATION

# Why was this Analysis Conducted?

Evaluating transportation disadvantage provides a data driven approach to understanding distribution of transportation networks, services, and projects. This data provides opportunities to create real choices in where people live and how people travel for all of our residents, across age, race and ethnicity, economic means, and ability.

# What Does it Mean to be Transportation Disadvantaged?

People who are transportation disadvantaged experience challenges achieving basic access to services, employment, and/or education. Not only do socio-demographic characteristics factor into being transportation disadvantaged, but also where people live and what travel options are available to them.

# **Transportation Disadvantaged Population Analysis**

An analysis was conducted for Transportation Disadvantaged Populations using several census data sets. These population characteristics include:

## Low-moderate income households

• People who have low-moderate income may not have the resources to own/maintain a personal vehicle, which on average costs \$6,060 - \$8,743 per year, and need to rely on public transit or others to provide rides.<sup>1</sup>

#### Minorities

• There is a link between ethnicity and pedestrian deaths. Minority populations are less likely to own a vehicle and more likely to walk, bicycle and/or use public transportation, resulting in greater exposure to the dangers of the street.<sup>2</sup>

## · Households with an individual with a mobility disability

 There is a legacy of infrastructure and systems that do not accommodate people with impaired mobility, thus causing people to have to expend more energy, time, and money to access services<sup>3</sup>

# People who have less than a high school education

• Having less than a high school education is linked to a variety of negative health impacts, including limited employment prospects, low wages, and poverty.<sup>4</sup>

<sup>1</sup> AAA. (2019). Your driving costs how much are you really paying to drive? <a href="https://exchange.aaa.com/wp-content/uploads/2019/09/AAA-Your-Driving-costs-2019.pdf">https://exchange.aaa.com/wp-content/uploads/2019/09/AAA-Your-Driving-costs-2019.pdf</a>. Utilizing data for driving 10,000 miles per year.

<sup>2</sup> Surface Transportation Policy Project. (2002). Mean streets. http://www.transact.org/wp-content/uploads/2014/04/Mean\_Streets\_2002.pdf

<sup>3</sup> Natural Resources Services - A Division of Redwood Community Action Agency. (2006). Humboldt county transportation-disadvantaged populations report (pp. 9–11). http://www.nrsrcaa.org/path/pdfs/HumCoTDPReport5\_06.pdf

<sup>4</sup> Office of Disease Prevention and Health Promotion. (2020). High school graduation | healthy people 2020. High School Graduation. <a href="https://www.healthypeople.gov/2020/topics-objectives/topic/social-determinants-health/interventions-resources/high-school-graduation#4">https://www.healthypeople.gov/2020/topics-objectives/topic/social-determinants-health/interventions-resources/high-school-graduation#4</a>. Accessed on May 11, 2021

### Single parent households

• Single parent households typically earn significantly less than two parent households and children in single parent households are more likely to live in poverty. Further, 33% of single parent families in 2013 were "food insecure".<sup>5</sup>

#### Households without vehicles

• When people do not have a personal vehicle they must walk, bike, use public transportation, or obtain a ride from others. This puts people in potential conflict with auto drivers unless the proper infrastructure is provided.

## Youth (under 18) and Senior citizens (65+)

• One of the most significant non-driving populations are those who are too young to be licensed to drive. Even being old enough to obtain a driver's license does not guarantee access to a vehicle, especially for youth from low-income families. Low-income children face an increased exposure to many risk factors since affordable housing is often located along high-speed, high-volume streets, in neighborhoods that lack parks, playgrounds and access to other safe places to play. The number of people over 65 is continually growing. Alternatives to driving are necessary for seniors as they loose the ability to drive due to either sight or mobility losses.<sup>6</sup>

The data sets referenced above are from the U.S. Census Bureau. The low-moderate income data is from the U.S. Department of Housing and Urban Development's Community Development Block Grant (HUD's CDBG) 2015 American Community Survey 5-year Estimates, while the rest of the data is from the 2018 American Community Survey 5-year Estimates.

The Lawrence average was found for each topic except for income, which was not categorized based on a Lawrence average because income data is provided by the U.S. Department of Housing and Urban Department and has a specific Community Development Block Grant (CDBG) threshold (areas with at least 51% of income considered low-moderate income).

One point was assigned if the block group was equal to or 20 percent higher than the Lawrence average. Two points were attributed if the block group was 20 percent to 40 percent of the Lawrence average. And three points were assigned if the block group was greater than 40 percent higher than the Lawrence average. This is shown in the table on the next page.

1 point2 points3 pointsEqual to or 20%20% - 40%Greater than 40%higher than...higher than...higher than...the Lawrence average

As the income data didn't have a Lawrence average the 27 block groups were split into three groups to match the point thresholds. The group with the highest amount of low-moderate income people received three points.

<sup>5</sup> The rise of single parent households. (2019, October 21). AU Online. https://online.aurora.edu/single-parent-households. Accessed on May 11, 2021

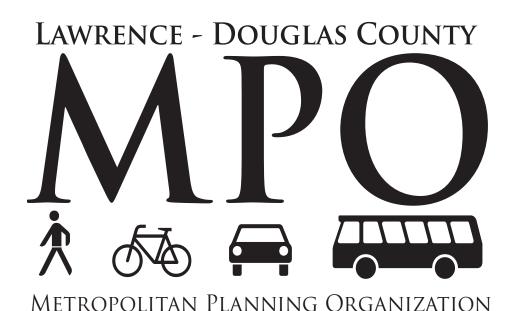
<sup>6</sup> Natural Resources Services - A Division of Redwood Community Action Agency. (2006). Humboldt county transportation-disadvantaged populations report (pp. 16-20). http://www.nrsrcaa.org/path/pdfs/HumCoTDPReport5\_06.pdf.

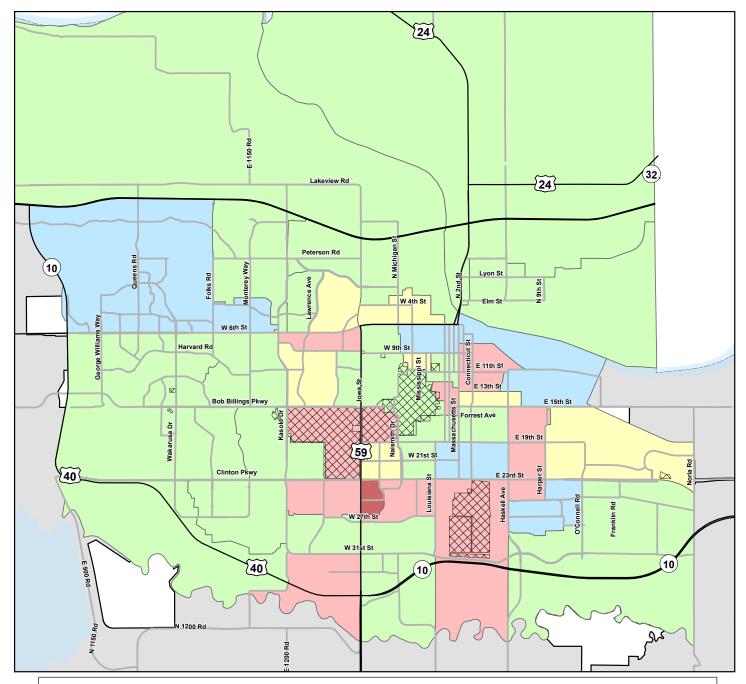
Topic	Lawrence Average	1 Point			2 Points			3 Points	
Low-moderate CDBG income		51.0%	to	62.4%	62.5%	to	78.9%	Greater than	79.0%
Minority	14.7%	14.7%	to	34.6%	34.7%	to	54.6%	Greater than	54.7%
Households with an individual with a mobility disability	19.7%	19.7%	to	39.6%	39.7%	to	59.6%	Greater than	59.7%
Less than high school diploma	4.6%	4.6%	to	24.5%	24.6%	to	44.5%	Greater than	44.6%
Single parent household	32.0%	32.0%	to	51.9%	52.0%	to	71.9%	Greater than	72.0%
Households without vehicles	7.6%	7.6%	to	27.5%	27.6%	to	47.5%	Greater than	47.6%
Youth (under 18)	16.3%	16.3%	to	36.2%	36.3%	to	56.2%	Greater than	56.3%
Senior citizens (65+)	10.5%	10.5%	to	30.4%	30.5%	to	50.4%	Greater than	50.5%

Source: 2018 American Community Survey 5-year Estimates for all metrics except income and 2015 American Community Survey 5-year Estimates for CDBG Income. Updated on 9/9/2021 to include 53 block groups.

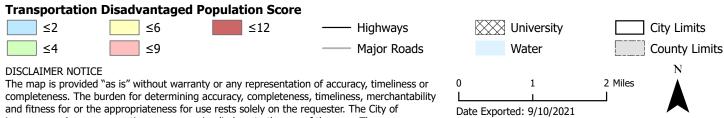
Transportation Disadvantaged Population Scores which are higher correlates to additional scrutiny necessary to ensure these populations are not disproportionately affected. The map on the next page shows the final result of the points assigned to different areas.

To learn more about the Transportation Disadvantaged Population analysis visit: <a href="https://lawrenceks.org/mpo/transportation-disadvantaged">https://lawrenceks.org/mpo/transportation-disadvantaged</a>.





Transportation Disadvantaged Population scoring is comprised of US Census Bureau American Community Survey (ACS) data and Community Development Block Group (CDBG) income data. 2018 ACS data includes: people who have a disability, people who have less than a high school education, minorities, single parent households, zero vehicle households, and population under 18 and over 65. Higher points indicate a greater deviation from the regional average.



and fitness for or the appropriateness for use rests solely on the requester. The City of
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acknowledges and accepts the limitations of the map, including the fact that the map is

Date Exported: 9/10/2021
Source: 2018 ACS 5-yr Est. for all except for income &
2015 ACS 5-yr Est. for HUD provided CDBG Income
Produced: Lawrence-Douglas County MPO

dynamic and is in a constant state of maintenance, correction and update.