

# Claremore Neighborhood Project

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# Introduction

- There are multiple factors that need to be taken into account when deciding to move to a new area.
- One of these factors is the distance that would need to be driven to places that are important to the new home owners.

# Introduction

- This report looks at 14 neighborhoods around Claremore, OK and searches for how many venues are located at various Euclidian distances from the center of each neighborhoods and then looks at driving distance between the center of each neighborhood and selected points in Claremore as well as the neighboring city of Tulsa, OK.

# Objective

- The objective is to see how the distances that need to be driven to various venues around a neighborhood as well as to specific destinations in Claremore and Tulsa vary from one neighborhood to another.
- This is one factor that could be important in the selection of a neighborhood to live in.

# Data Needed

- The breakdown of the town into neighborhoods.
- The latitude and longitude of the center of the neighborhoods as estimated by choosing the midpoint of the neighborhood.
- The latitude and longitude of specific locations in Claremore and in Tulsa.

# Methodology

- Using the *Google distance matrix API*, the driving distance between the center of each neighborhood and specific destinations in Claremore and Tulsa was acquired.
- Then the estimated frequency of driving to the various locations was used to calculate the estimated monthly mileage.
- The neighborhoods were ranked according to the mileage to the specific locations.

# Methodology

- Using the [FourSquare.com API](#), the venues located within 1, 2, 3, 5, and 10 miles from the center of each neighborhood were calculated.
- To get the number of unique venues for each distance calculated, the number from the lower distances was subtracted from the distance of interest.

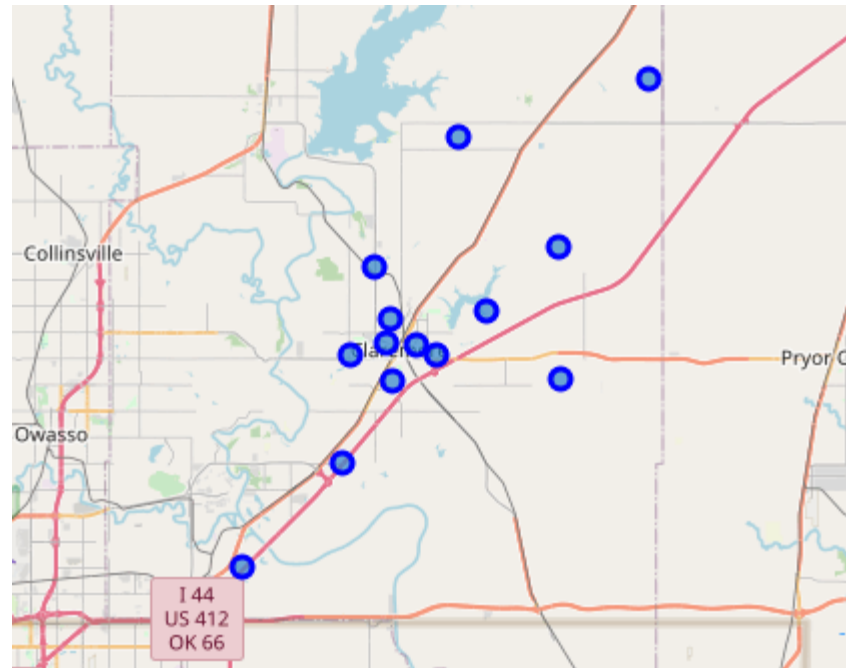
# Methodology

- Then the distance traveled to and from the closest 30 venues was calculated.
- This mileage was then added to the mileage to the specific locations in Claremore and Tulsa to get a final mileage



# Results

- Map of the neighborhoods in Claremore



# Results

- Rank of neighborhoods in terms of monthly mileage to specific locations in Claremore and Tulsa OK.

Neighborhood	Miles
Catoosa	1220
City Center	1260
Verdigris	1280
Rogers State U / Route 88	1380
Route 20 / N Lake Rd	1448
Choctaw Ave / E 6th St	1464
Archer Dr / S Chambers	1508
W Blue Starr / N Moore	1600
Eastland dr / Blue Starr Dr	1772
Sageeyah / Degroat	1784
Tiawah/Justice	1964
Sequoyah	2116
Bushyhead	2460
Foyil	2888

# Results

- Numbers of venues in each of the neighborhoods in Claremore

	Miles	Venue_1_mile	Venue_2_miles	Venue_3_miles	Venue_5_miles	Venue_10_miles
Neighborhood						
Catoosa	1220	6.0	14	40	50	100
City Center	1260	32.0	75	74	70	84
Verdigris	1280	4.0	8	21	66	85
Rogers State U / Route 88	1380	6.0	68	70	67	99
Route 20 / N Lake Rd	1448	6.0	46	68	71	70
Choctaw Ave / E 6th St	1464	33.0	65	72	69	75
Archer Dr / S Chambers	1508	48.0	68	72	66	79
W Blue Starr / N Moore	1600	22.0	50	71	66	74
Eastland dr / Blue Starr Dr	1772	1.0	4	15	56	73
Sageeyah / Degroat	1784	3.0	2	22	69	75
Tiawah/Justice	1964	0.0	5	6	10	85
Sequoyah	2116	1.0	1	7	11	71
Bushyhead	2460	0.0	1	3	5	55
Foyil	2888	0.0	1	1	5	12

# Results

- Mileage from driving to the 30 closest venues and total mileage for each neighborhood.

	Miles	mileage	total
Neighborhood			
Catoosa	1220	70	1290
City Center	1260	30	1290
Verdigris	1280	96	1376
Rogers State U / Route 88	1380	54	1434
Route 20 / N Lake Rd	1448	54	1502
Choctaw Ave / E 6th St	1464	30	1494
Archer Dr / S Chambers	1508	30	1538
W Blue Starr / N Moore	1600	38	1638
Eastland dr / Blue Starr Dr	1772	115	1887
Sageeyah / Degroat	1784	95	1879
Tiawah/Justice	1964	233	2197
Sequoyah	2116	229	2345
Bushyhead	2460	268	2728
Foyil	2888	92	2980

# Discussion

- The further a neighborhood is from Claremore (and Tulsa), the fewer the venues are available.
- For specific locations in Claremore and Tulsa, the further away a neighborhood is, the more driving needs to be done.

# Discussion

- The distance to the 30 closest venues increases as the distance of the neighborhoods from Claremore and Tulsa increases.
- The ranking of the neighborhoods in terms of total distance driven doesn't change appreciably when the venue distances are added to the specific location mileage.

# Conclusion

- Choice of neighborhood to live in is based on many factors, but a prime one is distance to the specific locations that one needs to travel to. If one wants to live out in the “country” then one should plan on driving more than if they lived in the “city.”

# Conclusion

- Before choosing a place to live, an estimate of the miles that would need to be driven to specific locations as well as the number and type of venues close by needs to be estimated to see if that is something that is acceptable to the prospective home owners.