



August 2018
Revised October 2018

CITY OF ALBUQUERQUE
CASA GRANDE AVE -
SIERRA GRANDE AVE TO UPLAND DR
SPEED STUDY

NTMP P803000
TASK 2.9

WILSON
& COMPANY
ENGINEERS & ARCHITECTS

City of Albuquerque

**Casa Grande Avenue -
Sierra Grande Avenue to Upland Drive**

SPEED STUDY

NTMP P803000
NTP #3 - Task 2.9
WCI 1810002203

August 2018
Revised **October 2018**



October 29, 2018



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Appendix A – Traffic Data

Introduction

This report documents the speed study analysis on Casa Grande Avenue from Sierra Grande Avenue to Upland Drive in Albuquerque, New Mexico. The purpose of this project is to collect and analyze the traffic volumes, speed, and safety of Casa Grande Avenue, a two-way street, from Sierra Grande Avenue to Upland Drive to determine if it meets the traffic calming criterion described in the *City of Albuquerque (COA) Neighborhood Traffic Management Program (NTMP)*, February 2015, and the *Institute of Transportation Engineers (ITE) Traffic Engineering Handbook*, 6th Edition.

Project Area and Background

The Casa Grande Avenue project is located in Albuquerque, New Mexico and is approximately 0.29 miles (1535 feet) in length. Casa Grande Avenue is a two-lane, undivided local street that runs north-south from Sierra Grande Avenue at the west end, and curves at Casa Grande Place to run east-west to Upland Drive. Sierra Grande Avenue is a two-lane, undivided local street that runs east-west and intersects the west end of Casa Grande Avenue at a T-intersection. Upland Drive is two-lane, undivided local street that runs north-south and intersects the east end of Casa Grande Avenue at a T-intersection. See [Figure 1](#) for a map of the project area.



Figure 1: Project Area and Existing Traffic Volumes

Task 2.9: Casa Grande Avenue from Sierra Grande Avenue to Upland Drive

A request has been made to the City of Albuquerque to determine if traffic calming is appropriate for this location. Wilson & Company was tasked by the City of Albuquerque to determine if Casa Grande Avenue from Sierra Grande Avenue to Upland Drive warrants traffic calming measures.

Existing Conditions

Traffic Conditions

Casa Grande Avenue is an urban local collector road with an Average Daily Traffic (ADT) of 270 vehicles, which includes less than 1% heavy vehicles (buses and trucks), and an existing speed limit of 25 mph. See [Appendix A](#) for further information.

Traffic Volumes

Existing tube count data (volume, speed, and class) was collected for 48-hours on Wednesday, June 13, 2018 and Thursday, June 14, 2018. See [Figure 1](#) for the peak hour volumes. The full traffic count data can be found in [Appendix A](#).

Safety

Crash Data

Historical crash data was provided by the City of Albuquerque. Three years (2017, 2016, and 2015) of crash data were obtained to evaluate the existing safety condition of Casa Grande Avenue from Sierra Grande Avenue to Upland Drive. See [Table 1](#) for a crash summary.

Table 1: Crash Summary

| Crash Date | Crash Intersecting Street | Crash Primary Street | Crash Analysis | Severity | Contributing Factors | Crash Correct with Traffic Calming |
|------------|---------------------------|-----------------------|-------------------|--------------------|--|------------------------------------|
| 3/12/2017 | Upland Drive NW | Casa Grande Avenue NE | Shrubs/Vegetation | Damage 500 or more | Driver inattention, Passed stop sign, Under influence of alcohol | No |

Crash Analysis

The following observations were concluded from the review of the three years (2017, 2016, and 2015) of crash data (1 total crash) in the project limits:

- The crash occurred in clear conditions;
- The crash resulted in property damage;
- The crash was influenced by alcohol;
- The crash did not result in a non-fatal injury; and
- The crash occurred during the night.

Speed

Speed data was collected on Casa Grande Avenue for a 48-hour period. See [Table 2](#) for the 85th-Percentile speeds for Casa Grande Avenue.

Table 2: 85th-Percentile Speed

| Location | 85 th -Percentile Speed |
|-----------|------------------------------------|
| Westbound | 28 mph |
| Eastbound | 24 mph |

See [Table 3](#) for the 10 mph pace speeds for Casa Grande Avenue.

Table 3: 10 mph Pace Speed

| Location | 10 mph Pace Speed |
|-----------|-------------------|
| Westbound | 21-30 mph |
| Eastbound | 16-25 mph |

Speed data can be found in the traffic counts located in [Appendix A](#). The 85th-percentile speed does not exceed the posted speed limit by 5 mph or more (25 mph) for both westbound and eastbound Casa Grande Avenue.

Typical Sections

Casa Grande Avenue is a 28-ft wide roadway with curb and gutter and sidewalks on both sides ranging from 3.5 feet to 4 feet wide. On-street parking is also available on both sides of the roadway. See [Figure 3](#) and [4](#) for photos of the existing Casa Grande Avenue, and [Figure 5](#) for the existing typical section along Casa Grande Avenue.



Figure 2: Casa Grande Ave. Speed Limit

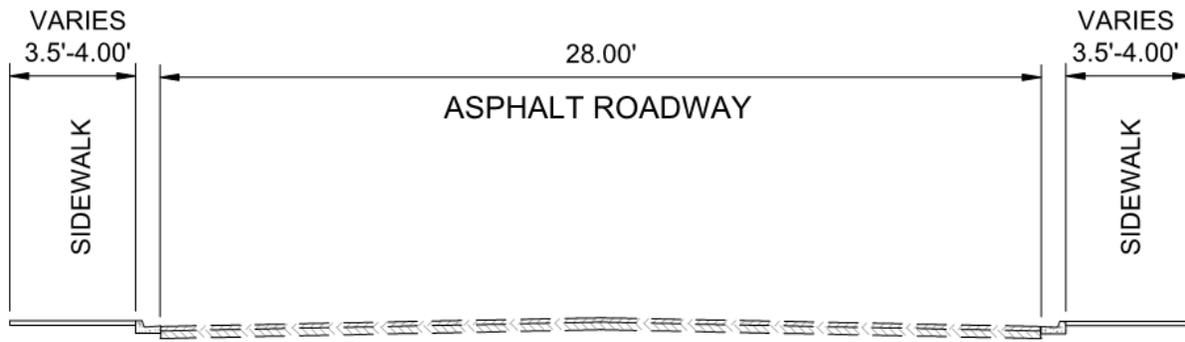
Task 2.9: Casa Grande Avenue from Sierra Grande Avenue to Upland Drive



Figure 3: Casa Grande Avenue looking east



Figure 4: Casa Grande Avenue looking west



NOT TO SCALE

Figure 5: Casa Grande Avenue Existing Typical Section

NTMP Traffic Calming Criteria

In order to meet the traffic calming criterion described in the *COA NTMP*, two or more of the following threshold criteria must be met:

1. Reported crashes in the past 3 years that could be corrected with traffic calming
2. Peak-hour traffic volume greater than 400 vehicles in one direction
3. 25 percent of peak-hour traffic is non-local cut-through traffic
4. 85th-percentile speed exceeds the posted speed limit by 5 mph or more

Summary of Results

Out of the only crash that was reported in the past 3 years, it could not have been corrected with traffic calming. The peak-hour traffic volumes for Casa Grande Avenue were less than 400 vehicles for both eastbound and westbound directions. The 85th-percentile speed does not exceed the posted speed limit by 5mph. See [Table 4](#) for the summary of results for Casa Grande Avenue from Sierra Grande Avenue to Upland Drive.

Table 4: Summary of Results

| COA NMTP Threshold Criteria | Warranted? |
|---|-------------|
| 1. Reported crashes in the past 3 years that could be corrected with traffic calming | No |
| 2. Peak-hour traffic volume greater than 400 vehicles in one direction | No |
| 3. 25 percent of peak-hour traffic is non-local cut-through traffic | Not studied |
| 4. 85 th -percentile speed exceeds the posted speed limit by 5 mph or more | No |

Recommendations

After analyzing the crash, volume, and speed data, it was determined that Casa Grande Avenue from Sierra Grande Avenue to Upland Drive meets none of the four (4) criteria and, therefore, **does not** meet the minimum traffic calming criterion as described in the *COA NTMP* at this time.

Appendix A – Traffic Data

Wilson & Company
 4401 Masthead Street NE, Suite 150
 Albuquerque NM, 87109

Site Code: CASAGRANDE
 Station ID:

Latitude: 0' 0.0000 Undefined

| Start Time | 11-Jun-18 | | Tue | | Wed | | Thu | | Fri | | Sat | | Sun | | Week Average | |
|------------|-----------|----|-----|----|-------|-------|-------|-------|-----|----|-----|----|-----|----|--------------|-------|
| | EB | WB | EB | WB | EB | WB | EB | WB | EB | WB | EB | WB | EB | WB | EB | WB |
| 12:00 AM | * | * | * | * | 0 | 1 | 1 | 0 | * | * | * | * | * | * | 0 | 0 |
| 01:00 | * | * | * | * | 1 | 1 | 2 | 1 | * | * | * | * | * | * | 2 | 1 |
| 02:00 | * | * | * | * | 0 | 0 | 2 | 0 | * | * | * | * | * | * | 1 | 0 |
| 03:00 | * | * | * | * | 1 | 0 | 0 | 1 | * | * | * | * | * | * | 0 | 0 |
| 04:00 | * | * | * | * | 1 | 0 | 1 | 0 | * | * | * | * | * | * | 1 | 0 |
| 05:00 | * | * | * | * | 1 | 0 | 0 | 0 | * | * | * | * | * | * | 0 | 0 |
| 06:00 | * | * | * | * | 0 | 6 | 0 | 4 | * | * | * | * | * | * | 0 | 5 |
| 07:00 | * | * | * | * | 2 | 3 | 2 | 7 | * | * | * | * | * | * | 2 | 5 |
| 08:00 | * | * | * | * | 5 | 13 | 5 | 6 | * | * | * | * | * | * | 5 | 10 |
| 09:00 | * | * | * | * | 7 | 9 | 11 | 12 | * | * | * | * | * | * | 9 | 10 |
| 10:00 | * | * | * | * | 8 | 9 | 6 | 6 | * | * | * | * | * | * | 7 | 8 |
| 11:00 | * | * | * | * | 5 | 6 | 11 | 5 | * | * | * | * | * | * | 8 | 6 |
| 12:00 PM | * | * | * | * | 11 | 8 | 16 | 14 | * | * | * | * | * | * | 14 | 11 |
| 01:00 | * | * | * | * | 10 | 5 | 14 | 11 | * | * | * | * | * | * | 12 | 8 |
| 02:00 | * | * | * | * | 13 | 8 | 13 | 5 | * | * | * | * | * | * | 13 | 6 |
| 03:00 | * | * | * | * | 11 | 12 | 11 | 7 | * | * | * | * | * | * | 11 | 10 |
| 04:00 | * | * | * | * | 15 | 5 | 9 | 13 | * | * | * | * | * | * | 12 | 9 |
| 05:00 | * | * | * | * | 16 | 7 | 15 | 9 | * | * | * | * | * | * | 16 | 8 |
| 06:00 | * | * | * | * | 8 | 9 | 10 | 8 | * | * | * | * | * | * | 9 | 8 |
| 07:00 | * | * | * | * | 9 | 2 | 12 | 5 | * | * | * | * | * | * | 10 | 4 |
| 08:00 | * | * | * | * | 12 | 2 | 10 | 2 | * | * | * | * | * | * | 11 | 2 |
| 09:00 | * | * | * | * | 3 | 5 | 2 | 5 | * | * | * | * | * | * | 2 | 5 |
| 10:00 | * | * | * | * | 3 | 2 | 2 | 1 | * | * | * | * | * | * | 2 | 2 |
| 11:00 | * | * | * | * | 3 | 0 | 1 | 3 | * | * | * | * | * | * | 2 | 2 |
| Lane Day | 0 | 0 | 0 | 0 | 145 | 113 | 156 | 125 | 0 | 0 | 0 | 0 | 0 | 0 | 149 | 120 |
| AM Peak | - | - | - | - | 10:00 | 08:00 | 09:00 | 09:00 | - | - | - | - | - | - | 09:00 | 08:00 |
| Vol. | - | - | - | - | 8 | 13 | 11 | 12 | - | - | - | - | - | - | 9 | 10 |
| PM Peak | - | - | - | - | 17:00 | 15:00 | 12:00 | 12:00 | - | - | - | - | - | - | 17:00 | 12:00 |
| Vol. | - | - | - | - | 16 | 12 | 16 | 14 | - | - | - | - | - | - | 16 | 11 |

| | | | | | | | | |
|-------------|---------|----------|-----|-----|---|---|---|-----|
| Comb. Total | 0 | 0 | 258 | 281 | 0 | 0 | 0 | 269 |
| ADT | ADT 270 | AADT 270 | | | | | | |

Wilson & Company
 4401 Masthead Street NE, Suite 150
 Albuquerque NM, 87109

Site Code: CaSAGRANDE
 Station ID:

Latitude: 0' 0.0000 South

EB

| Start Time | 1 | 16 | 21 | 26 | 31 | 36 | 41 | 46 | 51 | 56 | 61 | 66 | 71 | 76 | Total | Pace Speed | Number in Pace |
|--------------|-----------|-----------|-----------|-----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|------------|------------|----------------|
| | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 | 60 | 65 | 70 | 75 | 999 | | | |
| 06/13/18 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | * | * |
| 01:00 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 14-23 | 1 |
| 02:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | * | * |
| 03:00 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | * | 1 |
| 04:00 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | * | 1 |
| 05:00 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 14-23 | 1 |
| 06:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | * | * |
| 07:00 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | * | 1 |
| 08:00 | 2 | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 11-20 | 3 |
| 09:00 | 3 | 0 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 21-30 | 4 |
| 10:00 | 4 | 0 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 21-30 | 4 |
| 11:00 | 0 | 2 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 16-25 | 4 |
| 12 PM | 2 | 2 | 4 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 | 19-28 | 7 |
| 13:00 | 3 | 2 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 21-30 | 5 |
| 14:00 | 4 | 1 | 5 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 13 | 21-30 | 7 |
| 15:00 | 4 | 3 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 | 16-25 | 7 |
| 16:00 | 4 | 3 | 6 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 15 | 16-25 | 9 |
| 17:00 | 9 | 3 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 16 | 1-10 | 6 |
| 18:00 | 3 | 1 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 16-25 | 5 |
| 19:00 | 3 | 2 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 16-25 | 6 |
| 20:00 | 9 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 12 | 6-15 | 6 |
| 21:00 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 13-22 | 2 |
| 22:00 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | * | 2 |
| 23:00 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 13-22 | 2 |
| Total | 58 | 23 | 48 | 15 | 1 | 0 | 145 | | |
| Percent | 40.0% | 15.9% | 33.1% | 10.3% | 0.7% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | | | |
| AM Peak | 10:00 | 08:00 | 09:00 | 08:00 | | | | | | | | | | | 10:00 | | |
| Vol. | 4 | 2 | 3 | 1 | | | | | | | | | | | 8 | | |
| PM Peak | 17:00 | 15:00 | 16:00 | 12:00 | 14:00 | | | | | | | | | | 17:00 | | |
| Vol. | 9 | 3 | 6 | 3 | 1 | | | | | | | | | | 16 | | |

Site Code: CaSAGRANDE
 Station ID:

Latitude: 0' 0.0000 South

EB

| Start Time | 1 | 16 | 21 | 26 | 31 | 36 | 41 | 46 | 51 | 56 | 61 | 66 | 71 | 76 | Total | Pace Speed | Number in Pace |
|--------------|------------|-----------|-----------|-----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|------------|------------|----------------|
| | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 | 60 | 65 | 70 | 75 | 999 | | | |
| 06/14/18 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 9-18 | 1 |
| 01:00 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 15-24 | 2 |
| 02:00 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | * | 1 |
| 03:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | * | * |
| 04:00 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | * | 1 |
| 05:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | * | * |
| 06:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | * | * |
| 07:00 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 8-17 | 1 |
| 08:00 | 2 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 21-30 | 3 |
| 09:00 | 6 | 2 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 | 14-23 | 5 |
| 10:00 | 3 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 15-24 | 3 |
| 11:00 | 10 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 | 1-10 | 7 |
| 12 PM | 6 | 0 | 7 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 16 | 21-30 | 10 |
| 13:00 | 9 | 2 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 14 | 6-15 | 6 |
| 14:00 | 10 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 13 | 1-10 | 7 |
| 15:00 | 8 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 | 8-17 | 5 |
| 16:00 | 5 | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 21-30 | 4 |
| 17:00 | 7 | 3 | 2 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 15 | 15-24 | 5 |
| 18:00 | 3 | 3 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 16-25 | 5 |
| 19:00 | 7 | 3 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 12 | 12-21 | 5 |
| 20:00 | 2 | 5 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 16-25 | 7 |
| 21:00 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 8-17 | 1 |
| 22:00 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | * | 1 |
| 23:00 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | * | 1 |
| Total | 86 | 21 | 33 | 16 | 0 | 156 | | |
| Percent | 55.1% | 13.5% | 21.2% | 10.3% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | | | |
| AM Peak | 11:00 | 09:00 | 08:00 | 02:00 | | | | | | | | | | | 09:00 | | |
| Vol. | 10 | 2 | 3 | 1 | | | | | | | | | | | 11 | | |
| PM Peak | 14:00 | 20:00 | 12:00 | 12:00 | | | | | | | | | | | 12:00 | | |
| Vol. | 10 | 5 | 7 | 3 | | | | | | | | | | | 16 | | |
| Total | 144 | 44 | 81 | 31 | 1 | 0 | 301 | | |
| Percent | 47.8% | 14.6% | 26.9% | 10.3% | 0.3% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | | | |

15th Percentile : 4 MPH
 50th Percentile : 15 MPH
 85th Percentile : 24 MPH
 95th Percentile : 27 MPH

Stats
 10 MPH Pace Speed : 16-25 MPH
 Number in Pace : 125
 Percent in Pace : 41.5%
 Number of Vehicles > 25 MPH : 32
 Percent of Vehicles > 25 MPH : 10.6%
 Mean Speed(Average) : 16 MPH

Site Code: CaSAGRANDE
 Station ID:

Latitude: 0' 0.0000 South

WB

| Start Time | 1 | 16 | 21 | 26 | 31 | 36 | 41 | 46 | 51 | 56 | 61 | 66 | 71 | 76 | Total | Pace Speed | Number in Pace |
|----------------|--------------|--------------|--------------|--------------|--------------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|------------|--------------|----------------|
| | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 | 60 | 65 | 70 | 75 | 999 | | | |
| 06/13/18 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 19-28 | 1 |
| 01:00 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 9-18 | 1 |
| 02:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | * | * |
| 03:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | * | * |
| 04:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | * | * |
| 05:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | * | * |
| 06:00 | 0 | 0 | 4 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 20-29 | 6 |
| 07:00 | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 8-17 | 1 |
| 08:00 | 2 | 1 | 4 | 5 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 13 | 21-30 | 9 |
| 09:00 | 0 | 2 | 3 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 21-30 | 5 |
| 10:00 | 0 | 0 | 3 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 21-30 | 9 |
| 11:00 | 0 | 1 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 19-28 | 5 |
| 12 PM | 1 | 3 | 1 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 16-25 | 4 |
| 13:00 | 0 | 2 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 14-23 | 3 |
| 14:00 | 2 | 1 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 21-30 | 5 |
| 15:00 | 2 | 0 | 6 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 12 | 21-30 | 8 |
| 16:00 | 1 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 15-24 | 4 |
| 17:00 | 1 | 2 | 1 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 26-35 | 3 |
| 18:00 | 2 | 0 | 3 | 3 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 21-30 | 6 |
| 19:00 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 19-28 | 2 |
| 20:00 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 19-28 | 2 |
| 21:00 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 16-25 | 5 |
| 22:00 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 15-24 | 1 |
| 23:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | * | * |
| Total | 14 | 16 | 42 | 32 | 8 | 1 | 0 | 113 | | |
| Percent | 12.4% | 14.2% | 37.2% | 28.3% | 7.1% | 0.9% | 0.0% | | | |
| AM Peak | 07:00 | 09:00 | 06:00 | 10:00 | 09:00 | | | | | | | | | | | 08:00 | |
| Vol. | 2 | 2 | 4 | 6 | 2 | | | | | | | | | | | 13 | |
| PM Peak | 14:00 | 12:00 | 15:00 | 18:00 | 15:00 | 18:00 | | | | | | | | | | 15:00 | |
| Vol. | 2 | 3 | 6 | 3 | 2 | 1 | | | | | | | | | | 12 | |

Site Code: CaSAGRANDE
 Station ID:

Latitude: 0' 0.0000 South

| WB | Start Time | 1 | 16 | 21 | 26 | 31 | 36 | 41 | 46 | 51 | 56 | 61 | 66 | 71 | 76 | Total | Pace Speed | Number in Pace |
|----------|----------------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|------|-------|------------|----------------|
| 06/14/18 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | * | * |
| | 01:00 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 14-23 | 1 |
| | 02:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | * | * |
| | 03:00 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 19-28 | 1 |
| | 04:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | * | * |
| | 05:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | * | * |
| | 06:00 | 0 | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 20-29 | 4 |
| | 07:00 | 0 | 3 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 15-24 | 5 |
| | 08:00 | 0 | 0 | 3 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 21-30 | 6 |
| | 09:00 | 2 | 1 | 4 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 12 | 20-29 | 7 |
| | 10:00 | 0 | 0 | 4 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 20-29 | 6 |
| | 11:00 | 1 | 2 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 16-25 | 3 |
| | 12 PM | 2 | 4 | 7 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 14 | 16-25 | 11 |
| | 13:00 | 1 | 1 | 6 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 | 21-30 | 8 |
| | 14:00 | 0 | 1 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 19-28 | 4 |
| | 15:00 | 2 | 2 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 15-24 | 5 |
| | 16:00 | 3 | 3 | 2 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 13 | 20-29 | 7 |
| | 17:00 | 1 | 3 | 2 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 15-24 | 5 |
| | 18:00 | 0 | 2 | 3 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 21-30 | 5 |
| | 19:00 | 0 | 1 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 19-28 | 4 |
| | 20:00 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 20-29 | 2 |
| | 21:00 | 1 | 0 | 1 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 21-30 | 4 |
| | 22:00 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 14-23 | 1 |
| | 23:00 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 15-24 | 2 |
| | Total | 14 | 23 | 48 | 36 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 125 | | |
| | Percent | 11.2% | 18.4% | 38.4% | 28.8% | 3.2% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | | | |
| | AM Peak | 09:00 | 07:00 | 09:00 | 08:00 | 09:00 | | | | | | | | | | 09:00 | | |
| | Vol. | 2 | 3 | 4 | 3 | 2 | | | | | | | | | | 12 | | |
| | PM Peak | 16:00 | 12:00 | 12:00 | 16:00 | 13:00 | | | | | | | | | | 12:00 | | |
| | Vol. | 3 | 4 | 7 | 5 | 1 | | | | | | | | | | 14 | | |
| | Total | 28 | 39 | 90 | 68 | 12 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 238 | | |
| | Percent | 11.8% | 16.4% | 37.8% | 28.6% | 5.0% | 0.4% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | | | |

15th Percentile : 15 MPH
 50th Percentile : 22 MPH
 85th Percentile : 28 MPH
 95th Percentile : 30 MPH

Stats
 10 MPH Pace Speed : 21-30 MPH
 Number in Pace : 158
 Percent in Pace : 66.4%
 Number of Vehicles > 25 MPH : 81
 Percent of Vehicles > 25 MPH : 34.0%
 Mean Speed(Average) : 22 MPH

Site Code: CaSAGRANDE
 Station ID:

Latitude: 0' 0.0000 South

EB, WB

| Start Time | Bikes | Cars & Trailer | 2 Axle Long | Buses | 2 Axle 6 Tire | 3 Axle Single | 4 Axle Single | <5 Axl Double | 5 Axle Double | >6 Axl Double | <6 Axl Multi | 6 Axle Multi | >6 Axl Multi | Not Classe | Total |
|--------------|-------|----------------|-------------|-------|---------------|---------------|---------------|---------------|---------------|---------------|--------------|--------------|--------------|------------|-------|
| 06/13/18 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 01:00 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 02:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 03:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| 04:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| 05:00 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 06:00 | 0 | 4 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| 07:00 | 0 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| 08:00 | 0 | 9 | 5 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 3 | 18 |
| 09:00 | 0 | 9 | 4 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 16 |
| 10:00 | 0 | 12 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 17 |
| 11:00 | 0 | 9 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 |
| 12 PM | 2 | 11 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 19 |
| 13:00 | 0 | 10 | 3 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 15 |
| 14:00 | 0 | 12 | 3 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 21 |
| 15:00 | 0 | 10 | 4 | 0 | 2 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 6 | 23 |
| 16:00 | 0 | 11 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 20 |
| 17:00 | 0 | 9 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 23 |
| 18:00 | 0 | 10 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 17 |
| 19:00 | 0 | 7 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 11 |
| 20:00 | 0 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 14 |
| 21:00 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 8 |
| 22:00 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 5 |
| 23:00 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 3 |
| Total | 2 | 145 | 41 | 0 | 7 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 60 | 258 |
| Percent | 0.8% | 56.2% | 15.9% | 0.0% | 2.7% | 0.0% | 0.0% | 1.2% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 23.3% | |
| AM Peak Vol. | | 10:00 | 08:00 | | 09:00 | | | 06:00 | | | | | | 10:00 | 08:00 |
| PM Peak Vol. | 12:00 | 14:00 | 16:00 | | 15:00 | | | 15:00 | | | | | | 17:00 | 15:00 |
| | 2 | 12 | 5 | | 2 | | | 1 | | | | | | 9 | 23 |



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