## Brandywine Road Speed Study FINAL REPORT

## City of Albuquerque

# Brandywine Road Speed Study Final Report 

## Albuquerque, New Mexico



City of Albuquerque
May, 2016

## Table of Contents

1. INTRODUCTION ..... 1
1.A. PROJECT PURPOSE ..... 1
1.B. PROJECT DESCRIPTION ..... 1
1.C. BACKGROUND OF SPEED LIMITS ..... 3
1.D. SETTING SPEED LIMITS ..... 3
2. EXISTING CONDITIONS ..... 5
2.A. COUNT LOCATIONS ..... 5
2.B. EXISTING CONDITIONS ..... 5
3. DATA ..... 7
3.A. AADT ..... 7
3.B. SPEED STUDY RESULTS ..... 7
3.C. CRASH DATA ..... 8
4. U.S. LIMITS SPEED LIMITS PROGRAM ..... 8
5. CONCLUSION ..... 9
Appendices ..... 10

## List of Tables

Table 3.A.1. Brandywine ADT. ..... 7
Table 3.B.1. Brandywine East Speed Study ..... 7
Table 3.B.2. Brandywine North Speed Study ..... 7
Table 3.B.3. Brandywine ADT $\geq 25 \mathrm{mph}$ ..... 8
Table 5.1. COA NMTP Traffic Calming Measures ..... 9

## List of Figures

FIGURE 1.B.1. PROJECT LIMITS.................................................................................................................................. 2
FIGURE 2.1. COUNT LOCATIONS............................................................................................................................. 6
FIGURE 2.2. EXISTING TYPICAL SECTION............................................................................................................. 6

## 1. INTRODUCTION

The City of Albuquerque - Department of Municipal Development (Traffic Engineering Design Division) has requested that Souder, Miller \& Associates conduct at speed study along Brandywine Road in northeast Albuquerque.

## 1.A. PROJECT PURPOSE

A speed study on Brandywine Road and Cherry Blossom Lane was conducted to determine the following:

- Evaluate the $85^{\text {th }}$ percentile speed along Brandywine Lane at two (2) locations
- Calculate average and daily peak hour traffic volumes from Brandywine Road

As part of this study, an evaluation and cataloging of existing roadway conditions, collection of historical ADT and crash data, and evaluation of survey data will be completed.

## 1.B. PROJECT DESCRIPTION

The project area will be a 0.22 mile section of Brandywine Road and Cherry Blossom Lane between Cherry Hills Drive and Old Orchard Lane, ending at Cherry Hills Drive and Old Orchard Lane. Figure 1.B.1. on page 2 displays the project limits.


FIGURE 1.B. 1
PROJECT LIMITS

## 1.C. BACKGROUND OF SPEED LIMITS

Speed limits are established on roadways of virtually all classifications, from interstate freeways to low volume local streets. The primary purpose of speed limits is to give motorists clear instruction as to what is a reasonable speed for them to drive at while traveling on a given roadway.

Among regulatory signage, speed limit signs arguably contain the most critical information that motorists need to be informed of while driving (next to stop signs, which are considered the highest impact regulatory sign). Drivers unfamiliar with a roadway often do not realize what characteristics the roadway has, and properly established speed limit signs give them the information they need to drive the roadway safely.

The NMDOT has guidelines for analyzing and establishing posted speed limits; the following text is based on one such example:

Realistic posted speed limits are of public importance for many reasons:

- They invite public compliance by conforming to the behavior or the driving majority
- They give clear reminders of safe and reasonable speeds to non-conforming violators
- They offer the most effective tool for law enforcement of safe driving
- They will minimize public antagonism toward law enforcement that results from unreasonable regulations

Improperly, or artificially low, posted speed limits can cause problems for state and local agencies for several reasons:

- They do not encourage voluntary compliance, since they do not reflect the behavior of the majority
- They make the behavior of the majority unlawful
- The maximize public antagonism toward law enforcement, since the perception is that the police are enforcing a "speed trap"
- The create a bad image for a community in the eyes of tourists / visitors


## 1.D. SETTING SPEED LIMITS

In accordance with Section 66-7-303 of the New Mexico Criminal and Traffic Law Manual, the speed limit on state highways shall be set by the Cabinet Secretary of the Department of Transportation, based on an engineering survey and traffic investigation that includes the following parameters.

- Spot speed studies (typically consisting of 100 vehicles)
- Roadway geometry/number of lanes
- Roadside environment and characteristics
- Building setbacks (if within a commercial business district)
- Driveway and intersection spacing/density
- Historical crash data for the roadway study area

Many speed limits are established using the theory of $85^{\text {th }}$ percentile. Out of the (typically) 100 vehicles surveyed, beginning with the fasted vehicle speed recorded the $15^{\text {th }}$ vehicle from that speed is determined to show where the $85^{\text {th }}$ percentile speed is. This is assuming that most drivers ( $85 \%$ ) drive within reasonable limits. The posted speed limit can be established and is usually the $5-\mathrm{mph}$ increment just below the $85^{\text {th }}$ percentile speed. For example, if the $85^{\text {th }}$ percentile speed
has been determined by an engineering survey to be 57 mph , the posted speed would be 55 mph . This method of posting speed limits allows for a reasonable posted speed limit that can be enforced by local agencies, without creating a speed trap.

For surveys with a different amount than 100 vehicles, the $85^{\text {th }}$ percentile speed is determined by the following formula: $100 / 15=\#$ of vehicles surveyed/X (where $x=$ the vehicle at the $85^{\text {th }}$ percentile). For example, a 50 vehicle survey would result in:

$$
\begin{gathered}
\frac{100}{15}=\frac{50}{x} \\
\text { Where } x=7.5, \text { or the } 8^{\text {th }} \text { vehicle in the survey }
\end{gathered}
$$

Other methods are frequently used to further analyze the posting of speed limits - these are the mode, median, and geometric mean:

- Mode is the most frequently clocked vehicle speed in a given survey. For example, in a 100 vehicle survey where 12 vehicles were clocked traveling 55 mph and no other speed was observed as frequently, the mode is 55 mph .
- Median is the numerical midpoint of a given survey. For example, in a survey of 100 vehicles, the speeds of the $50^{\text {th }}$ and $51^{\text {st }}$ vehicles are added and divided by 2 to obtain the median speed. If the $50^{\text {th }}$ vehicle of such a survey was traveling at 56 mph and the $51^{\text {st }}$ vehicle was also traveling at 56 mph , the resulting median would be $(56+56) \div 2=112 \div 2=56 \mathrm{mph}$
- Geometric mean is described as follows: "an average of a set of numbers that is calculated by multiplying all the numbers (" $n$ "), and taking the nth root of the total."

Formula for Geometric Mean:

$$
\begin{gathered}
\text { Geometric Mean }=\left(\left(X_{1}\right)\left(X_{2}\right) \ldots \ldots\left(X_{n}\right)\right)^{1 / N} \\
X=\text { Individual score (speed) } \\
\mathrm{N}=\text { Sample size (number of scores) }
\end{gathered}
$$

Geometric Mean Example:
Sample speeds $=51,52,55,58$, and 60 mph
Step 1:
$N=5$, the total number of values, $\frac{1}{N}=0.2$
Step 2:
Determine geometric mean using the formula.

$$
\text { Geometric Mean }=((51)(52)(55)(58)(60))^{0.2}=55.09 \mathrm{mph}
$$

In most cases, the geometric mean of a speed study will be of similar value of the median, often within 1 to 2 mph of either side of the median. In the above example, the median speed would be the third vehicle surveyed ( 55 mph ), and the geometric mean is 55.09 mph .

## 2. EXISTING CONDITIONS

## 2.A. COUNT LOCATIONS

The study area included two traffic/speed count locations which were at the following locations:

- Brandywine Road East
- Brandywine Road North

Figure 2.1. on page 6 displays the traffic count locations.

## 2.B. EXISTING CONDITIONS

Figure 2.2. on page 6 displays the existing typical section of Brandywine Road and Cherry Blossom Lane.
Also to be noted is the BOP and EOP intersection are three-legged intersections. Near the EOP of the Cherry Blossom Lane / Cherry Hills Drive is the additional intersection of Cherry Blossom Lane / Cherry Hills Loop. There are 31 driveways within the project area which provide access to residential homes. Also between the BOP and EOP is an approximate right angle curve where Brandywine Road turns northbound to Cherry Blossom Lane.


FIGURE 2.1.
COUNT LOCATIONS


FIGURE 2.2.

## 3. DATA

## 3.A. AADT

The AADT for the two (2) count locations are listed below in Table 3.A.1.

| Brandywine Road ADT |  |  |  |
| :---: | :---: | :---: | :---: |
| Count Location | WB / NB | EB / SB | ADT |
| Brandywine East | 110 | 126 | 236 |
| Brandywine North | 100 | 117 | 217 |
| Average | 105 | 121.5 | 226.5 |

Table 3.A.1.
The Brandywine Road project area ADT ranges from 217 to 236 vehicles per day.

## 3.B. SPEED STUDY RESULTS

The results of the speed study are displayed below in Table 3.B.1. and Table 3.B.2.

| Brandywine Road East Speed Study |  |  |  |
| :---: | :---: | :---: | :---: |
| Speed (mph) | WB | EB | Total |
| Average | 18.5 | 20.3 | 19.4 |
| 10 mph Pace | $20.1-30.0$ | $20.1-30.0$ | $20.1-30.0$ |
| 50th Percentile | 21.4 | 22.4 | 21.9 |
| 67th Percentile | 22.9 | 24.3 | 23.6 |
| 85th Percentile | 26.8 | 28.0 | 27.5 |

Table 3.B.1.

| Brandywine Road North Speed Study |  |  |  |
| :---: | :---: | :---: | :---: |
| Speed (mph) | NB | SB | Total |
| Average | 14.2 | 14.7 | 14.4 |
| 10 mph Pace | $5.8-15.7$ | $5.4-15.3$ | $15.0-24.9$ |
| 50th Percentile | 12.0 | 12.7 | 14.6 |
| 67th Percentile | 14.1 | 20.6 | 20.3 |
| 85th Percentile | 22.9 | 23.2 | 23.1 |

Table 3.B.2.
When considering whether to establish a new posted speed limit or not, surveying the existing traffic speeds is crucial to determining a reasonable posted speed limit.

Before a posted speed limit can be adjusted, an analysis must be conducted to ascertain whether or not the speed limit can be adjusted without resulting in further increases of motorists' travel speeds. Motorists usually drive at speeds which they
perceive as safe, based on the observable roadway conditions. A flat and straight roadway may result in a different travel speed than the posted speed limit due to the driver's observation of the roadway condition.

In relation to Brandywine Road, the posted speed limit is 25 mph , roadway conditions are consistent; controlled access, satisfactory pavement conditions, two travel lanes, and on-street parking. The only unusual roadway condition is a curve near the middle of the project area. Table 3.B. 3 displays that 14 percent of the total ADT of the two count locations recorded speeds greater than the posted speed limit of 25 mph .

| Brandywine Road ADT $\geq 25 \mathrm{mph}$ |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Speed (mph) | $0-19.9$ | $20-24.9$ | $\geq 25$ | Avg. ADT |
| Brandywine North | 143 | 66 | 7.5 | 217 |
| Brandwine East | 83.5 | 92 | 54 | 230 |
| Total | 226.5 | 158 | 61.5 | 447 |
| \% Total | $51 \%$ | $35 \%$ | $14 \%$ | - |

Table 3.B.3.

## 3.C. CRASH DATA

Crash data was requested form the Mid-Region Council of Governments. The crash data requested showed there was one recorded crash in 2011 within the project area at the corner of Brandywine Road and Cherry Blossom Lane which was a property damage only crash resulting from driver inattention and backing into a parked car.

## 4. U.S. LIMITS SPEED LIMITS PROGRAM

U.S. Limits is an FHWA sponsored program used to analyze speed limits. This program calculates a recommended speed limit based on the criteria given, which is listed on the website as follows:

- Density of surrounding development (e.g. high density, low density, or rural);
- Frequency of roadside access (e.g. number of residential driveways, commercial, industrial, shopping, and special activity properties, and the number and type of intersection roads);
- Road function (e.g. traffic movement vs. access to abutting properties);
- Road characteristics (e.g. paved width, divided or undivided, lane width, number and lanes, and sight restrictions);
- Road conditions and important high speed road characteristics (e.g. interchange spacing, AADT, and shoulders);
- Existing vehicle operating speeds;
- Adjoining speed limits: and
- Any special conditions that may exist on the road section (e.g. adverse alignment, pedestrian and roadside activities, high crash rates, etc.)

This analysis was used for Brandywine Road and based on the data entered into http://www.uslimits.com for the above-listed categories, the program concluded that a 20 mph was warranted for the corridor. The output sheet is shown in

Appendix C - U.S. Limits Output. The recommended speed limit of 20 mph was warranted due to the single crash in 2011 which was a result driver inattention.

## 5. CONCLUSION

After evaluating the volume and speed data within the project area, it is concluded that only $14 \%$ of the traffic is exceeding 25 mph , the stand alone reported crash may not have been corrected with traffic calming, and the $85^{\text {th }}$ percentile speed of traffic is not exceeding the posted speed limit by 5 mph or more at both count locations. In order to meet criteria for traffic calming measures as outlined in the City of Albuquerque's Neighborhood Traffic Management Program, at least two (2) of the following threshold criteria must be met:

| COA NMTP Traffic Calming Measures |  |
| :---: | :---: |
| Item | Description |
| 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 | $25 \%$ of peak-hour traffic is non-local cut-through traffic (not studied) |
| 4 | 85th percentile speeds exceeds the posted speed limit by 5 mph or more |
| Figure 5.1. |  |

Based on the data collected, Brandywine Road DOES NOT meet any of the criteria outlined to warrant traffic calming.

## Appendices

- Appendix A - USLIMITS2 Speed Zoning Report
- Appendix B - Volume and Speed Data
- Appendix C - Crash Data


## Appendix A



## USLIMITS2 Speed Zoning Report

## Project Name: Brandywine Speed Study

Analyst: Souder, Miller \& Associates

## Basic Project Information

Project Number: 9044.00
Route Name: Brandywine Road
From: Old Orchard Lane
To: Cherry Hills Drive
State: New Mexico
County: Bernalillo County
City: Albuquerque city
Route Type: Road Section in Developed Area
Route Status: Existing

## Roadway Information

Section Length: . 22 mile(s)
Statutory Speed Limit: 25 mph
Adverse Alignment: No
One-Way Street: No
Divided/Undivided: Undivided
Number of Through Lanes: 2
Area Type: Residential-Subdivision
Number of Driveways: 31
Number of Signals: 0

Date: 05-06-2016

## Crash Data Information

Crash Data Years: 1.08
Crash AADT: 236 veh/day
Total Number of Crashes: 1
Total Number of Injury Crashes: 0
Section Crash Rate: 4871 per 100 MVM
Section Injury Crash Rate: 0 per 100 MVM
Crash Rate Average for Similar Roads: 366
Injury Rate Average for Similar Roads: 101

## Traffic Information

85th Percentile Speed: 26 mph
50th Percentile Speed: 19 mph
AADT: 236 veh/day
On Street Parking and Usage: Not High
Pedestrian / Bicyclist Activity: High

## Recommended Speed Limit:



Note: The section crash rate of 4871 per 100 MVM is more than 30 percent above the average for similar roads (366) but below the critical rate (6243). A comprehensive crash study should be undertaken to identify engineering and traffic control deficiencies and appropriate corrective actions. The speed limit should only be reduced as a last measure after all other treatments have either been tried or ruled out.

## Appendix B

## Special Speed Study Report: Brandywine East

## Station ID : Brandywine East

Info Line 1 : West of Old Orchard Ln
Info Line 2 : Albuquerque
GPS Lat/Lon:
DB File : BRAND 1 WB.DB

Last Connected Device Type : Apollo
Version Number : 1.45
Serial Number: 93883
Number of Lanes : 1
Posted Speed Limit :

## Lane \#1 Configuration

| \# | Dir. | Information | Vehicle Sensors | Sensor Spacing | Loop Length |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1. | Westbound | $\mathrm{Ax}-\mathrm{Ax}$ | 4.0 ft | 6.0 ft |  |


| Lane \#1 Special Speed Study Data From: 00:00-04/26/2016 To: 23:59-04/27/2016 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Date Time | $\begin{array}{r} \# 1 \\ 0- \\ 19.9 \end{array}$ | $\begin{aligned} & \# 2 \\ & 20- \\ & 24.9 \end{aligned}$ | $\begin{aligned} & \# 3 \\ & 25- \\ & 29.9 \end{aligned}$ | $\begin{gathered} \# 4 \\ 30- \\ 34.9 \end{gathered}$ | $\begin{gathered} \text { \#5 } \\ 35- \\ 39.9 \end{gathered}$ | $\begin{gathered} \# 6 \\ 40- \\ 44.9 \end{gathered}$ | $\begin{aligned} & \# 7 \\ & 45- \\ & 49.9 \end{aligned}$ | $\begin{aligned} & \# 8 \\ & 50- \\ & 54.9 \end{aligned}$ | $\begin{aligned} & \# 9 \\ & 55- \\ & 59.9 \end{aligned}$ | $\begin{gathered} \# 10 \\ 60- \\ 64.9 \end{gathered}$ | $\begin{gathered} \# 11 \\ 65- \\ 69.9 \end{gathered}$ | $\begin{gathered} \# 12 \\ 70- \\ 74.9 \end{gathered}$ | $\begin{gathered} \# 13 \\ 75- \\ 79.9 \end{gathered}$ | $\begin{gathered} \# 14 \\ 80- \\ 84.9 \end{gathered}$ | $\begin{gathered} \# 15 \\ 85- \\ 89.9 \end{gathered}$ | \#16 <br> Other | Total |
| 04/26/16 00:00 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Tue 01:00 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 02:00 | 0 | 0 | 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 | 0 | 0 |
| 04:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 05:00 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 06:00 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 07:00 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 08:00 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 09:00 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 10:00 | 1 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 11:00 | 4 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 |
| 12:00 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 13:00 | 1 | 6 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 |
| 14:00 | 2 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| 15:00 | 4 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 |
| 16:00 | 8 | 4 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 13 |
| 17:00 | 5 | 2 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 |
| 18:00 | 5 | 5 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 12 |
| 19:00 | 5 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 |
| 20:00 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 21:00 | 1 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| 22:00 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 23:00 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| Daily Total : | 41 | 45 | 14 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 103 |
| Percent: | 40\% | 44\% | 14\% | 3\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% |  |
| Cum. Percent: | 40\% | 83\% | 97\% | 100\% | 100\% | 100\% | 100\% | 100\% | 100\% | 100\% | 100\% | 100\% | 100\% | 100\% | 100\% | 100\% |  |
| Average : | 2 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
|  |  | verage | Speed | 18.5 | mph |  | 0\% Sp | ed : 2 | 1.7 mp |  | $\begin{aligned} & 67 \% \\ & 10 \mathrm{mp} \end{aligned}$ | Speed <br> Pac | $\begin{aligned} & \text { : } 22.9 \\ & \text { e: } 21.1 \end{aligned}$ | $\begin{aligned} & \text { mph } \\ & -31.0 \end{aligned}$ | $\begin{array}{r} 8! \\ (57.3 \% \end{array}$ | 5\% Spe | $\text { : } 27.2 \mathrm{mph}$ |


| Date Time | $\begin{array}{r} \# 1 \\ 0- \\ 19.9 \end{array}$ | $\begin{aligned} & \text { \#2 } \\ & 20- \\ & 24.9 \end{aligned}$ | $\begin{aligned} & \# 3 \\ & 25- \\ & 29.9 \end{aligned}$ | $\begin{aligned} & \# 4 \\ & 30- \\ & 34.9 \end{aligned}$ | $\begin{aligned} & \# 5 \\ & 35- \\ & 39.9 \end{aligned}$ | $\begin{aligned} & \text { \#6 } \\ & 40- \\ & 44.9 \end{aligned}$ | $\begin{aligned} & \# 7 \\ & 45- \\ & 49.9 \end{aligned}$ | $\begin{aligned} & \# 8 \\ & 50- \\ & 54.9 \end{aligned}$ | $\begin{aligned} & \# 9 \\ & 55- \\ & 59.9 \end{aligned}$ | $\begin{gathered} \# 10 \\ 60- \\ 64.9 \end{gathered}$ | $\begin{array}{r} \# 11 \\ 65- \\ 69.9 \end{array}$ | $\begin{gathered} \# 12 \\ 70- \\ 74.9 \end{gathered}$ | $\begin{gathered} \# 13 \\ 75- \\ 79.9 \end{gathered}$ | $\begin{gathered} \# 14 \\ 80- \\ 84.9 \end{gathered}$ | $\begin{gathered} \# 15 \\ 85- \\ 89.9 \end{gathered}$ | \#16 <br> Other | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 04/27/16 00:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wed 01:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 02:00 | 0 | 0 | 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 | 0 | 0 |
| 04:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 05:00 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 06:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:00 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 08:00 | 2 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| 09:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10:00 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 11:00 | 2 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| 12:00 | 1 | 5 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 |
| 13:00 | 4 | 3 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 |
| 14:00 | 3 | 1 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 |
| 15:00 | 4 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 |
| 16:00 | 9 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 14 |
| 17:00 | 9 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 12 |
| 18:00 | 5 | 6 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 12 |
| 19:00 | 2 | 7 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 |
| 20:00 | 4 | 4 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 |
| 21:00 | 1 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 22:00 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 23:00 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| Daily Total : | 46 | 46 | 17 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 113 |
| Percent : | 41\% | 41\% | 15\% | 4\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% |  |
| Cum. Percent : | 41\% | 81\% | 96\% | 100\% | 100\% | 100\% | 100\% | 100\% | 100\% | 100\% | 100\% | 100\% | 100\% | 100\% | 100\% | 100\% |  |
| Average : | 2 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
|  | Average Speed 18.5 mph |  |  |  |  | 50\% Speed : 21.7 mph |  |  |  |  | 67\% Speed : $22.9 \mathrm{mph} \quad 85 \%$ Speed : 27.2 mph 10mph Pace: 21.1-31.0 (55.8\%) |  |  |  |  |  |  |

## Lane \#3 Configuration

| \# | Dir. | Information | Vehicle Sensors | Sensor Spacing | Loop Length |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 3. | Eastbound | $\mathrm{Ax}-\mathrm{Ax}$ | 4.0 ft | 6.0 ft |  |

## Lane \#3 Special Speed Study Data From: 00:00-04/26/2016 To: 23:59-04/27/2016

| Date Time | $\begin{array}{r} \# 1 \\ 0- \\ 19.9 \end{array}$ | $\begin{gathered} \# 2 \\ 20- \\ 24.9 \end{gathered}$ | $\begin{aligned} & \# 3 \\ & 25- \\ & 29.9 \end{aligned}$ | $\begin{gathered} \# 4 \\ 30- \\ 34.9 \end{gathered}$ | $\begin{gathered} \text { \#5 } \\ 35- \\ 39.9 \end{gathered}$ | $\begin{aligned} & \# 6 \\ & 40- \\ & 44.9 \end{aligned}$ | $\begin{aligned} & \# 7 \\ & 45- \\ & 49.9 \end{aligned}$ | $\begin{gathered} \# 8 \\ 50- \\ 54.9 \end{gathered}$ | $\begin{gathered} \# 9 \\ 55- \\ 59.9 \end{gathered}$ | $\begin{array}{r} \# 10 \\ 60- \\ 64.9 \end{array}$ | \#11 <br> 65 - <br> 69.9 | $\begin{gathered} \# 12 \\ 70- \\ 74.9 \end{gathered}$ | \#13 <br> 75 - <br> 79.9 | $\begin{gathered} \# 14 \\ 80- \\ 84.9 \end{gathered}$ | $\begin{gathered} \# 15 \\ 85- \\ 89.9 \end{gathered}$ | \#16 <br> Other | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 04/26/16 00:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Tue 01:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 02:00 | 0 | 0 | 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 | 0 | 0 |
| 04:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 05:00 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 06:00 | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 07:00 | 6 | 3 | 3 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 14 |
| 08:00 | 4 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 |
| 09:00 | 2 | 3 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 |
| 10:00 | 1 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| 11:00 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 12:00 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 13:00 | 2 | 4 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 |
| 14:00 | 2 | 3 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| 15:00 | 3 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| 16:00 | 2 | 4 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 |
| 17:00 | 3 | 2 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 |
| 18:00 | 3 | 3 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 |
| 19:00 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 20:00 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 21:00 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 22:00 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 23:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Daily Total : | 36 | 37 | 22 | 5 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 101 |
| Percent : | 36\% | 37\% | 22\% | 5\% | 0\% | 1\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% |  |
| Cum. Percent: | 36\% | 72\% | 94\% | 99\% | 99\% | 100\% | 100\% | 100\% | 100\% | 100\% | 100\% | 100\% | 100\% | 100\% | 100\% | 100\% |  |
| Average : | 2 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
|  | Average Speed 19.8 mph |  |  |  |  | 50\% Speed : 22.2 mph |  |  |  |  | 67\% Speed : $23.3 \mathrm{mph} \quad 85 \%$ Speed : 27.6 mph <br> 10mph Pace: 21.4-31.3 (58.4\%) |  |  |  |  |  |  |



|  |  | $\# 1$ | $\# 2$ | $\# 3$ | $\# 4$ | $\# 5$ | $\# 6$ | $\# 7$ | $\# 8$ | $\# 9$ | $\# 10$ | $\# 11$ | $\# 12$ | $\# 13$ | $\# 14$ | $\# 15$ | $\# 16$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $0-$ | $20-$ | $25-$ | $30-$ | $35-$ | $40-$ | $45-$ | $50-$ | $55-$ | $60-$ | $65-$ | $70-$ | $75-$ | $80-$ | $85-$ |  |  |  |
| Date | Time | 19.9 | 24.9 | 29.9 | 34.9 | 39.9 | 44.9 | 49.9 | 54.9 | 59.9 | 64.9 | 69.9 | 74.9 | 79.9 | 84.9 | 89.9 | Other | Total |

## Special Speed Study Summary: Brandywine East

| Description | $\begin{array}{r} \# 1 \\ 0- \\ 19.9 \end{array}$ | $\begin{aligned} & \# 2 \\ & 20- \\ & 24.9 \end{aligned}$ | $\begin{gathered} \text { \#3 } \\ 25- \\ 29.9 \\ \hline \end{gathered}$ | $\begin{gathered} \# 4 \\ 30- \\ 34.9 \end{gathered}$ | $\begin{gathered} \text { \#5 } \\ 35- \\ 39.9 \end{gathered}$ | $\begin{aligned} & \# 6 \\ & 40- \\ & 44.9 \end{aligned}$ | $\begin{aligned} & \# 7 \\ & 45- \\ & 49.9 \end{aligned}$ | $\begin{gathered} \# 8 \\ 50- \\ 54.9 \end{gathered}$ | $\begin{gathered} \text { \#9 } \\ 55- \\ 59.9 \end{gathered}$ | $\begin{array}{r} \# 10 \\ 60- \\ 64.9 \\ \hline \end{array}$ | \#11 <br> 65 - <br> 69.9 | $\begin{array}{r} \# 12 \\ 70- \\ 74.9 \\ \hline \end{array}$ | \#13 <br> 75 - <br> 79.9 | $\begin{gathered} \# 14 \\ 80- \\ 84.9 \end{gathered}$ | $\begin{gathered} \# 15 \\ 85- \\ 89.9 \\ \hline \end{gathered}$ | \#16 <br> Other | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Grand Total \#1: | 87 | 91 | 31 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 216 |
| Percent : | 40\% | 42\% | 14\% | 3\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% |  |
| Cum. Percent: | 40\% | 82\% | 97\% | 100\% | 100\% | 100\% | 100\% | 100\% | 100\% | 100\% | 100\% | 100\% | 100\% | 100\% | 100\% | 100\% |  |
| Average : | 2 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| ADT $=108$ |  | erage | Speed | 18.5 | mph |  | \% Sp | ed : 21 | 1.4 mp |  | $\begin{aligned} & 67 \% \\ & 10 \mathrm{mp} \end{aligned}$ | Speed <br> Pac | $\begin{aligned} & : 22.9 \\ & 20.1 \end{aligned}$ | $\begin{aligned} & \mathrm{mph} \\ & -30.0 \end{aligned}$ | $\begin{array}{r} 85 \\ (56.5 \% \end{array}$ |  | $26.8 \mathrm{mph}$ |
| Grand Total \#3: | 80 | 93 | 51 | 18 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 243 |
| Percent : | 33\% | 38\% | 21\% | 7\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% |  |
| Cum. Percent : | 33\% | 71\% | 92\% | 100\% | 100\% | 100\% | 100\% | 100\% | 100\% | 100\% | 100\% | 100\% | 100\% | 100\% | 100\% | 100\% |  |
| Average : | 2 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| ADT $=121$ |  | verage | Speed | 20.3 | mph |  | \% Spe | ed : 22 | 2.4 mp |  | $\begin{aligned} & 67 \% \\ & 10 \mathrm{mp} \end{aligned}$ | Speed <br> Pace | $\begin{aligned} & : 24.3 \\ & 20.1 \end{aligned}$ | $\begin{aligned} & \mathrm{mph} \\ & -30.0 \end{aligned}$ | $\begin{array}{r} 85 \\ (59.3 \% \end{array}$ |  | $28.0 \mathrm{mph}$ |
| Comb. Total : | 167 | 184 | 82 | 25 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 459 |
| Percent : | 36\% | 40\% | 18\% | 5\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% |  |
| Cum. Percent: | 36\% | 76\% | 94\% | 100\% | 100\% | 100\% | 100\% | 100\% | 100\% | 100\% | 100\% | 100\% | 100\% | 100\% | 100\% | 100\% |  |
| Average : | 3 | 4 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 |
| ADT $=229$ | Average Speed 19.4 mph |  |  |  |  | 50\% Speed : 21.9 mph |  |  |  |  | $\begin{aligned} & \text { 67\% Speed : } 23.6 \mathrm{mph} \quad 85 \% \text { Speed : } 27.5 \mathrm{mph} \\ & \text { 10mph Pace: } 20.1-30.0(58.0 \%) \end{aligned}$ |  |  |  |  |  |  |

Speed Percent vs. Time (all lanes)

$40.1 \%$
Speed Bin Chart (all lanes combined)


## Special Speed Study Report: Brandywine North

## Station ID : Brandywine North

Info Line 1 : South of Cherry Hills Lp
Info Line 2 : Albuquerque
GPS Lat/Lon:
DB File : BRAND NOR 1SB.DB

Last Connected Device Type : Apollo
Version Number: 1.63
Serial Number: 21495
Number of Lanes: 1
Posted Speed Limit :

## Lane \#1 Configuration

| $\#$ | Dir. | Information | Vehicle Sensors | Sensor Spacing | Loop Length |
| :---: | :--- | :--- | :---: | :---: | :---: |
| 1. | Southbound | $\mathrm{Ax}-\mathrm{Ax}$ | 4.0 ft | 6.0 ft |  |


| Lane \#1 Special Speed Study Data From: 00:00-04/26/2016 To: 23:59-04/27/2016 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Date Time | $\begin{array}{r} \# 1 \\ 0- \\ 19.9 \end{array}$ | $\begin{aligned} & \text { \#2 } \\ & 20- \\ & 24.9 \end{aligned}$ | $\begin{aligned} & \# 3 \\ & 25- \\ & 29.9 \end{aligned}$ | $\begin{gathered} \# 4 \\ 30- \\ 34.9 \end{gathered}$ | $\begin{gathered} \# 5 \\ 35- \\ 39.9 \end{gathered}$ | $\begin{aligned} & \text { \#6 } \\ & 40- \\ & 44.9 \end{aligned}$ | $\begin{aligned} & \# 7 \\ & 45- \\ & 49.9 \end{aligned}$ | $\begin{aligned} & \# 8 \\ & 50- \\ & 54.9 \end{aligned}$ | $\begin{aligned} & \# 9 \\ & 55- \\ & 59.9 \end{aligned}$ | $\begin{gathered} \# 10 \\ 60- \\ 64.9 \end{gathered}$ | $\begin{array}{r} \# 11 \\ 65- \\ 69.9 \end{array}$ | $\begin{gathered} \# 12 \\ 70- \\ 74.9 \end{gathered}$ | $\begin{gathered} \# 13 \\ 75- \\ 79.9 \end{gathered}$ | $\begin{gathered} \# 14 \\ 80- \\ 84.9 \end{gathered}$ | $\begin{gathered} \# 15 \\ 85- \\ 89.9 \end{gathered}$ | \#16 <br> Other | Total |
| 04/26/16 00:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Tue 01:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 02:00 | 0 | 0 | 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 | 0 | 0 |
| 04:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 05:00 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 06:00 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 07:00 | 5 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 |
| 08:00 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 09:00 | 1 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 |
| 10:00 | 7 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 |
| 11:00 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| 12:00 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| 13:00 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| 14:00 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 15:00 | 4 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| 16:00 | 7 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 |
| 17:00 | 6 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 |
| 18:00 | 7 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 |
| 19:00 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 20:00 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 21:00 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 22:00 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 23:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Daily Total : | 65 | 29 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 95 |
| Percent: | 68\% | 31\% | 1\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% |  |
| Cum. Percent: | 68\% | 99\% | 100\% | 100\% | 100\% | 100\% | 100\% | 100\% | 100\% | 100\% | 100\% | 100\% | 100\% | 100\% | 100\% | 100\% |  |
| Average : | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
|  |  | verage | Speed | 14.0 | mph |  | 5\% Spe | ed : 10 | 0.9 mp |  | $\begin{aligned} & 67 \% \\ & 10 \mathrm{mp} \end{aligned}$ | Speed <br> Pac | $\begin{gathered} 11.9 \\ 8.0 \end{gathered}$ | $\begin{gathered} \text { mph } \\ -17.9 \end{gathered}$ | $\begin{array}{r} 8 \\ 68.4 \% \end{array}$ |  | : 22.6 mph |


| Date Time | $\begin{array}{r} \text { \#1 } \\ 0- \\ 19.9 \end{array}$ | $\begin{aligned} & \text { \#2 } \\ & 20- \\ & 24.9 \end{aligned}$ | $\begin{aligned} & \# 3 \\ & 25- \\ & 29.9 \end{aligned}$ | $\begin{gathered} \# 4 \\ 30- \\ 34.9 \end{gathered}$ | $\begin{aligned} & \text { \#5 } \\ & 35- \\ & 39.9 \end{aligned}$ | $\begin{aligned} & \# 6 \\ & 40- \\ & 44.9 \end{aligned}$ | $\begin{aligned} & \# 7 \\ & 45- \\ & 49.9 \end{aligned}$ | $\begin{aligned} & \text { \#8 } \\ & 50- \\ & 54.9 \end{aligned}$ | $\begin{aligned} & \# 9 \\ & 55- \\ & 59.9 \end{aligned}$ | $\begin{gathered} \# 10 \\ 60- \\ 64.9 \end{gathered}$ | $\begin{gathered} \# 11 \\ 65- \\ 69.9 \end{gathered}$ | $\begin{gathered} \# 12 \\ 70- \\ 74.9 \end{gathered}$ | $\begin{gathered} \# 13 \\ 75- \\ 79.9 \end{gathered}$ | $\begin{gathered} \# 14 \\ 80- \\ 84.9 \end{gathered}$ | $\begin{gathered} \# 15 \\ 85- \\ 89.9 \end{gathered}$ | \#16 <br> Other | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 04/27/16 00:00 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| Wed 01:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 02:00 | 0 | 0 | 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 | 0 | 0 |
| 04:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 05:00 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 06:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:00 | 4 | 6 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 12 |
| 08:00 | 3 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 |
| 09:00 | 3 | 5 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 |
| 10:00 | 7 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 |
| 11:00 | 3 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| 12:00 | 5 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 |
| 13:00 | 5 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 |
| 14:00 | 3 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 |
| 15:00 | 7 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 16 |
| 16:00 | 12 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 15 |
| 17:00 | 5 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 |
| 18:00 | 13 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 14 |
| 19:00 | 5 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 |
| 20:00 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 21:00 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 22:00 | 2 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| 23:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Daily Total : | 85 | 47 | 6 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 139 |
| Percent: | 61\% | 34\% | 4\% | 0\% | 1\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% |  |
| Cum. Percent: | 61\% | 95\% | 99\% | 99\% | 100\% | 100\% | 100\% | 100\% | 100\% | 100\% | 100\% | 100\% | 100\% | 100\% | 100\% | 100\% |  |
| Average : | 4 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
|  | Average Speed 15.2 mph |  |  |  |  | 50\% Speed : 11.7 mph |  |  |  |  | ```67% Speed : 21.6 mph 85% Speed : 23.1 mph 10mph Pace: 7.4-17.3 (61.2%)``` |  |  |  |  |  |  |

## Lane \#3 Configuration

| \# | Dir. | Information | Vehicle Sensors | Sensor Spacing | Loop Length |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 3. | Northbound | Ax-Ax | 4.0 ft | 6.0 ft |  |

## Lane \#3 Special Speed Study Data From: 00:00-04/26/2016 To: 23:59-04/27/2016

| Date Time | $\begin{array}{r} \# 1 \\ 0- \\ 19.9 \end{array}$ | $\begin{aligned} & \text { \#2 } \\ & 20- \\ & 24.9 \end{aligned}$ | $\begin{aligned} & \# 3 \\ & 25- \\ & 29.9 \end{aligned}$ | $\begin{aligned} & \# 4 \\ & 30- \\ & 34.9 \end{aligned}$ | $\begin{gathered} \# 5 \\ 35- \\ 39.9 \end{gathered}$ | $\begin{aligned} & \# 6 \\ & 40- \\ & 44.9 \end{aligned}$ | $\begin{aligned} & \# 7 \\ & 45- \\ & 49.9 \end{aligned}$ | $\begin{aligned} & \# 8 \\ & 50- \\ & 54.9 \end{aligned}$ | $\begin{aligned} & \# 9 \\ & 55- \\ & 59.9 \end{aligned}$ | $\begin{gathered} \# 10 \\ 60- \\ 64.9 \end{gathered}$ | \#11 <br> 65 - <br> 69.9 | $\begin{gathered} \# 12 \\ 70- \\ 74.9 \end{gathered}$ | $\begin{gathered} \# 13 \\ 75- \\ 79.9 \end{gathered}$ | $\begin{gathered} \# 14 \\ 80- \\ 84.9 \end{gathered}$ | \#15 <br> 85 - <br> 89.9 | \#16 <br> Other | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 04/26/16 00:00 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Tue 01:00 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 02:00 | 0 | 0 | 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 | 0 | 0 |
| 04:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 05:00 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 06:00 | 2 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 |
| 07:00 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 08:00 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 09:00 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 10:00 | 8 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 |
| 11:00 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| 12:00 | 5 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 |
| 13:00 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| 14:00 | 2 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| 15:00 | 5 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 |
| 16:00 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| 17:00 | 5 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 |
| 18:00 | 7 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 |
| 19:00 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| 20:00 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 21:00 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 22:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 23:00 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Daily Total : | 65 | 26 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 93 |
| Percent : | 70\% | 28\% | 2\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% |  |
| Cum. Percent : | 70\% | 98\% | 100\% | 100\% | 100\% | 100\% | 100\% | 100\% | 100\% | 100\% | 100\% | 100\% | 100\% | 100\% | 100\% | 100\% |  |
| Average : | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
|  | Average Speed 13.9 mph |  |  |  |  | 50\% Speed : 10.9 mph |  |  |  |  | 67\% Speed : $11.9 \mathrm{mph} \quad 85 \%$ Speed : 22.6 mph 10mph Pace: 8.0-17.9 (69.9\%) |  |  |  |  |  |  |


| Date Time | $\begin{array}{r} \# 1 \\ 0- \\ 19.9 \end{array}$ | $\begin{aligned} & \text { \#2 } \\ & 20- \\ & 24.9 \end{aligned}$ | $\begin{aligned} & \text { \#3 } \\ & 25- \\ & 29.9 \end{aligned}$ | $\begin{gathered} \# 4 \\ 30- \\ 34.9 \end{gathered}$ | $\begin{aligned} & \text { \#5 } \\ & 35- \\ & 39.9 \end{aligned}$ | $\begin{aligned} & \# 6 \\ & 40- \\ & 44.9 \end{aligned}$ | $\begin{aligned} & \# 7 \\ & 45- \\ & 49.9 \end{aligned}$ | $\begin{aligned} & \text { \#8 } \\ & 50- \\ & 54.9 \end{aligned}$ | $\begin{aligned} & \# 9 \\ & 55- \\ & 59.9 \end{aligned}$ | $\begin{gathered} \# 10 \\ 60- \\ 64.9 \end{gathered}$ | $\begin{gathered} \# 11 \\ 65- \\ 69.9 \end{gathered}$ | $\begin{gathered} \# 12 \\ 70- \\ 74.9 \end{gathered}$ | $\begin{gathered} \# 13 \\ 75- \\ 79.9 \end{gathered}$ | $\begin{gathered} \# 14 \\ 80- \\ 84.9 \end{gathered}$ | $\begin{gathered} \# 15 \\ 85- \\ 89.9 \end{gathered}$ | \#16 <br> Other | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 04/27/16 00:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wed 01:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 02:00 | 0 | 0 | 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 | 0 | 0 |
| 04:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 05:00 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 06:00 | 1 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 07:00 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| 08:00 | 4 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 |
| 09:00 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 10:00 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 11:00 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 12:00 | 5 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 |
| 13:00 | 5 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 |
| 14:00 | 4 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| 15:00 | 2 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| 16:00 | 12 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 14 |
| 17:00 | 7 | 3 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 |
| 18:00 | 5 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 |
| 19:00 | 5 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| 20:00 | 3 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| 21:00 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 22:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 23:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Daily Total : | 71 | 30 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 106 |
| Percent : | 67\% | 28\% | 4\% | 1\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% |  |
| Cum. Percent: | 67\% | 95\% | 99\% | 100\% | 100\% | 100\% | 100\% | 100\% | 100\% | 100\% | 100\% | 100\% | 100\% | 100\% | 100\% | 100\% |  |
| Average : | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
|  | Average Speed 14.4 mph |  |  |  |  | 50\% Speed : 11.1 mph |  |  |  |  | 67\% Speed : 12.2 mph 85\% Speed : 22.8 mph <br> 10mph Pace: 7.8-17.7 (67.0\%) |  |  |  |  |  |  |


|  |  | $\# 1$ | $\# 2$ | $\# 3$ | $\# 4$ | $\# 5$ | $\# 6$ | $\# 7$ | $\# 8$ | $\# 9$ | $\# 10$ | $\# 11$ | $\# 12$ | $\# 13$ | $\# 14$ | $\# 15$ | $\# 16$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | $0-$ | $20-$ | $25-$ | $30-$ | $35-$ | $40-$ | $45-$ | $50-$ | $55-$ | $60-$ | $65-$ | $70-$ | $75-$ | $80-$ | $85-$ |  |  |
| Date | Time | 19.9 | 24.9 | 29.9 | 34.9 | 39.9 | 44.9 | 49.9 | 54.9 | 59.9 | 64.9 | 69.9 | 74.9 | 79.9 | 84.9 | 89.9 | Other | Total |

## Special Speed Study Summary: Brandywine North

| Description | $\begin{array}{r} \# 1 \\ 0- \\ 19.9 \end{array}$ | $\begin{aligned} & \text { \#2 } \\ & 20- \\ & 24.9 \end{aligned}$ | $\begin{gathered} \# 3 \\ 25 \\ 29.9 \end{gathered}$ | $\begin{aligned} & \# 4 \\ & 30- \\ & 34.9 \end{aligned}$ | $\begin{aligned} & \# 5 \\ & 35- \\ & 39.9 \end{aligned}$ | $\begin{aligned} & \# 6 \\ & 40- \\ & 44.9 \end{aligned}$ | $\begin{aligned} & \# 7 \\ & 45- \\ & 49.9 \end{aligned}$ | $\begin{aligned} & \# 8 \\ & 50- \\ & 54.9 \end{aligned}$ | $\begin{aligned} & \# 9 \\ & 55- \\ & 59.9 \end{aligned}$ | $\begin{gathered} \# 10 \\ 60- \\ 64.9 \end{gathered}$ | $\begin{array}{r} \# 11 \\ 65- \\ 69.9 \end{array}$ | $\begin{gathered} \# 12 \\ 70- \\ 74.9 \end{gathered}$ | $\begin{gathered} \# 13 \\ 75- \\ 79.9 \end{gathered}$ | $\begin{gathered} \# 14 \\ 80- \\ 84.9 \end{gathered}$ | $\begin{gathered} \# 15 \\ 85- \\ 89.9 \end{gathered}$ | \#16 <br> Other | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Grand Total \#1: | 150 | 76 | 7 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 234 |
| Percent: | 64\% | 32\% | 3\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% |  |
| Cum. Percent: | 64\% | 97\% | 100\% | 100\% | 100\% | 100\% | 100\% | 100\% | 100\% | 100\% | 100\% | 100\% | 100\% | 100\% | 100\% | 100\% |  |
| Average : | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| ADT $=117$ |  | rage | Speed | 14.7 | mph |  | \% Sp | ed : 1 | . 7 m |  | $\begin{aligned} & 67 \% \\ & 10 \mathrm{mph} \end{aligned}$ | Speed <br> Pace | $\begin{aligned} & : 20.6 \\ & e: 5.4 \end{aligned}$ | mph <br> - 15.3 | $\begin{array}{r} 8 \\ (64.1 \% \end{array}$ | $5 \% \mathrm{Sp}$ | $\text { : } 23.2 \mathrm{mph}$ |
| Grand Total \#3: | 136 | 56 | 6 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 199 |
| Percent : | 68\% | 28\% | 3\% | 1\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% |  |
| Cum. Percent: | 68\% | 96\% | 99\% | 100\% | 100\% | 100\% | 100\% | 100\% | 100\% | 100\% | 100\% | 100\% | 100\% | 100\% | 100\% | 100\% |  |
| Average : | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| ADT $=99$ |  | verage | Speed | 14.2 | mph |  | \% Sp | ed : 12 | 2.0 mp |  | $\begin{aligned} & \text { 67\% } \\ & \text { 10mp } \end{aligned}$ | Speed <br> Pace | $\begin{gathered} \text { : } 14.1 \\ e: 5.8 \end{gathered}$ | $\begin{aligned} & \text { mph } \\ & -15.7 \end{aligned}$ | $\begin{array}{r} 8 \\ 68.3 \% \end{array}$ |  | : 22.9 mph |
| Comb. Total : | 286 | 132 | 13 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 433 |
| Percent : | 66\% | 30\% | 3\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% |  |
| Cum. Percent: | 66\% | 97\% | 100\% | 100\% | 100\% | 100\% | 100\% | 100\% | 100\% | 100\% | 100\% | 100\% | 100\% | 100\% | 100\% | 100\% |  |
| Average : | 6 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 |
| ADT $=216$ | Average Speed |  |  | 14.4 mph |  | 50\% Speed : 14.6 mph |  |  |  |  | 67\% Speed : $20.3 \mathrm{mph} \quad 85 \%$ Speed : 23.1 mph 10mph Pace: 15.0-24.9 (45.3\%) |  |  |  |  |  |  |

Speed Percent vs. Time (all lanes)



## Basic Volume Reportz Brandywine East

## Station ID : Brandywine East

Info Line 1 : West of Old Orchard Ln
Info Line 2 : Albuquerque
GPS Lat/Lon:
DB File : BRAND 1 WB.DB

Last Connected Device Type: Apollo
Version Number : 1.45
Serial Number : 93883
Number of Lanes : 1
Posted Speed Limit:

| Lane \#1 Configuration |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| \# Dir. Information | Volume Mode | Volume Sensors | Divide By 2 | Comment |
| 1. Westbound |  |  |  |  |


| Lane \#1 Basic Volume Data From: 00:00-04/26/2016 To: 23:59-04/27/2016 |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Date | Time | :00 | :15 | :30 | :45 | Total |  |  |  |  |  |
| 04/26/16 | 00:00 | 0 | 0 | 0 | 1 | 1 |  |  |  |  |  |
| Tue | 01:00 | 0 | 0 | 0 | 1 | 1 |  |  |  |  |  |
|  | 02:00 | 0 | 0 | 0 | 0 | 0 |  |  |  |  |  |
|  | 03:00 | 0 | 0 | 0 | 0 | 0 |  |  |  |  |  |
|  | 04:00 | 0 | 0 | 0 | 0 | 0 |  |  |  |  |  |
|  | 05:00 | 0 | 1 | 0 | 0 | 1 |  |  |  |  |  |
|  | 06:00 | 0 | 1 | 0 | 0 | 1 |  |  |  |  |  |
|  | 07:00 | 3 | 0 | 1 | 0 | 4 |  |  |  |  |  |
|  | 08:00 | 0 | 2 | 0 | 1 | 3 |  |  |  |  |  |
|  | 09:00 | 1 | 0 | 1 | 1 | 3 |  |  |  |  |  |
|  | 10:00 | 2 | 0 | 1 | 1 | 4 |  |  |  |  |  |
|  | 11:00 | 1 | 3 | 4 | 1 | 9 |  |  |  |  |  |
|  | 12:00 | 0 | 1 | 1 | 0 | 2 |  |  |  |  |  |
|  | 13:00 | 5 | 1 | 2 | 0 | 8 |  |  |  |  |  |
|  | 14:00 | 2 | 1 | 2 | 0 | 5 |  |  |  |  |  |
|  | 15:00 | 3 | 0 | 1 | 5 | 9 |  |  |  |  |  |
|  | 16:00 | 1 | 4 | 4 | 4 | 13 |  |  |  |  |  |
|  | 17:00 | 5 | 1 | 0 | 4 | 10 |  |  |  |  |  |
|  | 18:00 | 5 | 2 | 2 | 3 | 12 |  |  |  |  |  |
|  | 19:00 | 2 | 3 | 2 | 1 | 8 |  |  |  |  |  |
|  | 20:00 | 1 | 1 | 1 | 0 | 3 |  |  |  |  |  |
|  | 21:00 | 1 | 1 | 0 | 3 | 5 |  |  |  |  |  |
|  | 22:00 | 0 | 0 | 0 | 1 | 1 |  |  |  |  |  |
|  | 23:00 | 0 | 1 | 1 | 0 | 2 |  |  |  |  |  |
| Day Total |  |  |  |  |  | 105 |  |  |  |  |  |
|  | AM Total : |  | (25.7\%) | Peak | AM Hour | r : 10:45 = | 9 (8.6\%) | Peak | AM Factor : 0.562 | Average Period : | 1.1 |
|  | PM Total : |  | 74.3\%) | Pea | PM Hour | r : 16:15 = | $17 \text { (16.2\%) }$ |  | PM Factor : 0.850 | Average Hour : | 4.4 |


| Date | Time | :00 | :15 | :30 | :45 | Total |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 04/27/16 | 00:00 | 0 | 0 | 0 | 0 | 0 |  |  |  |  |
| Wed | 01:00 | 0 | 0 | 0 | 0 | 0 |  |  |  |  |
|  | 02:00 | 0 | 0 | 0 | 0 | 0 |  |  |  |  |
|  | 03:00 | 0 | 0 | 0 | 0 | 0 |  |  |  |  |
|  | 04:00 | 0 | 0 | 0 | 0 | 0 |  |  |  |  |
|  | 05:00 | 1 | 0 | 0 | 0 | 1 |  |  |  |  |
|  | 06:00 | 0 | 0 | 0 | 0 | 0 |  |  |  |  |
|  | 07:00 | 0 | 0 | 2 | 1 | 3 |  |  |  |  |
|  | 08:00 | 1 | 1 | 3 | 0 | 5 |  |  |  |  |
|  | 09:00 | 0 | 0 | 0 | 0 | 0 |  |  |  |  |
|  | 10:00 | 0 | 0 | 1 | 0 | 1 |  |  |  |  |
|  | 11:00 | 3 | 0 | 2 | 0 | 5 |  |  |  |  |
|  | 12:00 | 3 | 1 | 2 | 3 | 9 |  |  |  |  |
|  | 13:00 | 2 | 2 | 2 | 3 | 9 |  |  |  |  |
|  | 14:00 | 1 | 0 | 6 | 1 | 8 |  |  |  |  |
|  | 15:00 | 1 | 1 | 3 | 2 | 7 |  |  |  |  |
|  | 16:00 | 6 | 1 | 3 | 4 | 14 |  |  |  |  |
|  | 17:00 | 2 | 7 | 3 | 0 | 12 |  |  |  |  |
|  | 18:00 | 3 | 4 | 0 | 5 | 12 |  |  |  |  |
|  | 19:00 | 1 | 5 | 2 | 3 | 11 |  |  |  |  |
|  | 20:00 | 5 | 2 | 0 | 2 | 9 |  |  |  |  |
|  | 21:00 | 0 | 1 | 2 | 1 | 4 |  |  |  |  |
|  | 22:00 | 1 | 1 | 0 | 0 | 2 |  |  |  |  |
|  | 23:00 | 1 | 0 | 0 | 1 | 2 |  |  |  |  |
| Day Total |  |  |  |  |  | 114 |  |  |  |  |
|  | AM Total |  | 13.2\%) |  | AM Ho | : 07:45 = | 6 (5.3\%) | Peak AM Factor : 0.500 | Average Period : | 1.2 |
|  | PM Total |  | 86.8\%) |  | PM Hour | : 16:30 = | 16 (14.0\%) | Peak PM Factor : 0.571 | Average Hour : | 4.8 |

## Lane \#3 Configuration

| \# | Dir. Information | Volume Mode | Volume Sensors | Divide By 2 |
| :--- | :--- | :--- | :--- | :--- |


| Lane \#3 Basic Volume Data From: 00:00-04/26/2016 To: 23:59-04/27/2016 |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Date | Time | :00 | :15 | :30 | :45 | Total |  |  |  |  |
| 04/26/16 | 00:00 | 0 | 0 | 0 | 0 | 0 |  |  |  |  |
| Tue | 01:00 | 0 | 0 | 0 | 0 | 0 |  |  |  |  |
|  | 02:00 | 0 | 0 | 0 | 0 | 0 |  |  |  |  |
|  | 03:00 | 0 | 0 | 0 | 0 | 0 |  |  |  |  |
|  | 04:00 | 0 | 0 | 0 | 0 | 0 |  |  |  |  |
|  | 05:00 | 0 | 1 | 1 | 0 | 2 |  |  |  |  |
|  | 06:00 | 0 | 2 | 0 | 1 | 3 |  |  |  |  |
|  | 07:00 | 6 | 1 | 4 | 6 | 17 |  |  |  |  |
|  | 08:00 | 2 | 2 | 3 | 0 | 7 |  |  |  |  |
|  | 09:00 | 1 | 2 | 4 | 1 | 8 |  |  |  |  |
|  | 10:00 | 1 | 0 | 0 | 4 | 5 |  |  |  |  |
|  | 11:00 | 1 | 0 | 1 | 2 | 4 |  |  |  |  |
|  | 12:00 | 0 | 1 | 0 | 2 | 3 |  |  |  |  |
|  | 13:00 | 3 | 2 | 0 | 3 | 8 |  |  |  |  |
|  | 14:00 | 2 | 3 | 0 | 1 | 6 |  |  |  |  |
|  | 15:00 | 0 | 1 | 2 | 3 | 6 |  |  |  |  |
|  | 16:00 | 2 | 0 | 4 | 3 | 9 |  |  |  |  |
|  | 17:00 | 5 | 2 | 0 | 1 | 8 |  |  |  |  |
|  | 18:00 | 2 | 2 | 1 | 5 | 10 |  |  |  |  |
|  | 19:00 | 2 | 1 | 0 | 0 | 3 |  |  |  |  |
|  | 20:00 | 0 | 1 | 1 | 0 | 2 |  |  |  |  |
|  | 21:00 | 0 | 2 | 0 | 2 | 4 |  |  |  |  |
|  | 22:00 | 0 | 0 | 1 | 0 | 1 |  |  |  |  |
|  | 23:00 | 0 | 0 | 0 | 0 | 0 |  |  |  |  |
| Day Total |  |  |  |  |  | 106 |  |  |  |  |
|  | AM Total : PM Total : |  | $\begin{aligned} & 43.4 \%) \\ & 56.6 \%) \end{aligned}$ |  | AM Ho PM Hour | $\begin{aligned} & : 07: 00= \\ & : 16: 30= \end{aligned}$ | $\begin{aligned} & 17 \text { (16.0\%) } \\ & 14 \text { (13.2\%) } \end{aligned}$ | $\begin{aligned} & \text { Peak AM Factor : } 0.708 \\ & \text { Peak PM Factor : } 0.700 \end{aligned}$ | Average Period : Average Hour : | $\begin{aligned} & 1.1 \\ & 4.4 \end{aligned}$ |


| Date | Time | :00 | :15 | :30 | :45 | Total |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 04/27/16 | 00:00 | 1 | 0 | 1 | 0 | 2 |  |  |  |  |
| Wed | 01:00 | 0 | 0 | 0 | 0 | 0 |  |  |  |  |
|  | 02:00 | 0 | 0 | 0 | 0 | 0 |  |  |  |  |
|  | 03:00 | 0 | 0 | 0 | 0 | 0 |  |  |  |  |
|  | 04:00 | 0 | 0 | 0 | 0 | 0 |  |  |  |  |
|  | 05:00 | 1 | 0 | 0 | 0 | 1 |  |  |  |  |
|  | 06:00 | 1 | 1 | 0 | 0 | 2 |  |  |  |  |
|  | 07:00 | 7 | 3 | 4 | 7 | 21 |  |  |  |  |
|  | 08:00 | 1 | 3 | 2 | 2 | 8 |  |  |  |  |
|  | 09:00 | 0 | 3 | 3 | 2 | 8 |  |  |  |  |
|  | 10:00 | 0 | 2 | 1 | 0 | 3 |  |  |  |  |
|  | 11:00 | 1 | 3 | 1 | 3 | 8 |  |  |  |  |
|  | 12:00 | 1 | 2 | 0 | 1 | 4 |  |  |  |  |
|  | 13:00 | 1 | 2 | 0 | 4 | 7 |  |  |  |  |
|  | 14:00 | 3 | 1 | 4 | 0 | 8 |  |  |  |  |
|  | 15:00 | 1 | 4 | 6 | 6 | 17 |  |  |  |  |
|  | 16:00 | 4 | 4 | 1 | 5 | 14 |  |  |  |  |
|  | 17:00 | 1 | 0 | 1 | 2 | 4 |  |  |  |  |
|  | 18:00 | 5 | 5 | 3 | 2 | 15 |  |  |  |  |
|  | 19:00 | 4 | 1 | 1 | 0 | 6 |  |  |  |  |
|  | 20:00 | 1 | 1 | 1 | 2 | 5 |  |  |  |  |
|  | 21:00 | 1 | 2 | 0 | 2 | 5 |  |  |  |  |
|  | 22:00 | 1 | 3 | 1 | 2 | 7 |  |  |  |  |
|  | 23:00 | 0 | 0 | 0 | 0 | 0 |  |  |  |  |
| Day Total |  |  |  |  |  | 145 |  |  |  |  |
|  | AM Total |  | (36.6\%) |  | AM Ho | : 07:00 = | 21 (14.5\%) | Peak AM Factor : 0.750 | Average Period : | 1.5 |
|  | PM Total |  | (63.4\%) |  | PM Hour | : $15: 15=$ | 20 (13.8\%) | Peak PM Factor : 0.833 | Average Hour : | 6.0 |

## Basic Volume Summary: Brandywine East

Grand Total For Data From: 00:00-04/26/2016 To: 23:59-04/27/2016

| Lane | Total Count |  | \# Of Days | ADT | Avg. Period | Avg. Hour | AM Total \& Percent | PM Total \& Percent |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| \#1. | 219 | (46.6\%) | 2.00 | 110 | 1.1 | 4.6 | 42 (19.2\%) | 177 (80.8\%) |
| \#3. | 251 | (53.4\%) | 2.00 | 126 | 1.3 | 5.2 | 99 (39.4\%) | 152 (60.6\%) |
| ALL | 470 |  | 2.00 | 236 | 2.4 | 9.8 | 141 (30.0\%) | 329 (70.0\%) |


| Lane | Peak AM Hour | Date | Peak AM Factor | Peak PM Hour | Date | Peak PM Factor |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :--- |
| \#1. | $10: 45=$ | 9 | $04 / 26 / 2016$ | 0.562 | $16: 15=$ | 17 | $04 / 26 / 2016$ |
| \#3. | $07: 00=$ | 21 | $04 / 27 / 2016$ | 0.750 | $15: 15=$ | 20 | $04 / 27 / 2016$ |

## Basic Volume Report: Brandywine North

## Station ID : Brandywine North

Info Line 1 : South of Cherry Hills Lp
Info Line 2 : Albuquerque
GPS Lat/Lon:
DB File : BRAND NOR 1SB.DB

Last Connected Device Type : Apollo
Version Number : 1.63
Serial Number : 21495
Number of Lanes : 1
Posted Speed Limit :

| Lane \#1 Configuration |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| \# Dir. Information | Volume Mode | Volume Sensors | Divide By 2 | Comment |
| 1. Southbound |  |  |  |  |


| Lane \#1 Basic Volume Data From: 00:00-04/26/2016 To: 23:59-04/27/2016 |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Date | Time | :00 | :15 | :30 | :45 | Total |  |  |  |  |
| 04/26/16 | 00:00 | 0 | 0 | 0 | 0 | 0 |  |  |  |  |
| Tue | 01:00 | 0 | 0 | 0 | 0 | 0 |  |  |  |  |
|  | 02:00 | 0 | 0 | 0 | 0 | 0 |  |  |  |  |
|  | 03:00 | 0 | 0 | 0 | 0 | 0 |  |  |  |  |
|  | 04:00 | 0 | 0 | 0 | 0 | 0 |  |  |  |  |
|  | 05:00 | 0 | 0 | 1 | 0 | 1 |  |  |  |  |
|  | 06:00 | 0 | 2 | 1 | 0 | 3 |  |  |  |  |
|  | 07:00 | 3 | 0 | 2 | 3 | 8 |  |  |  |  |
|  | 08:00 | 0 | 1 | 3 | 0 | 4 |  |  |  |  |
|  | 09:00 | 1 | 2 | 3 | 1 | 7 |  |  |  |  |
|  | 10:00 | 1 | 3 | 1 | 3 | 8 |  |  |  |  |
|  | 11:00 | 1 | 2 | 1 | 2 | 6 |  |  |  |  |
|  | 12:00 | 1 | 2 | 0 | 2 | 5 |  |  |  |  |
|  | 13:00 | 0 | 3 | 0 | 2 | 5 |  |  |  |  |
|  | 14:00 | 0 | 3 | 0 | 1 | 4 |  |  |  |  |
|  | 15:00 | 1 | 0 | 5 | 0 | 6 |  |  |  |  |
|  | 16:00 | 4 | 1 | 3 | 1 | 9 |  |  |  |  |
|  | 17:00 | 6 | 2 | 0 | 2 | 10 |  |  |  |  |
|  | 18:00 | 1 | 3 | 1 | 4 | 9 |  |  |  |  |
|  | 19:00 | 1 | 2 | 0 | 0 | 3 |  |  |  |  |
|  | 20:00 | 0 | 1 | 2 | 0 | 3 |  |  |  |  |
|  | 21:00 | 0 | 1 | 0 | 2 | 3 |  |  |  |  |
|  | 22:00 | 0 | 0 | 1 | 0 | 1 |  |  |  |  |
|  | 23:00 | 0 | 0 | 0 | 0 | 0 |  |  |  |  |
| Day Total |  |  |  |  |  | 95 |  |  |  |  |
|  | AM Total : |  | (38.9\%) |  | AM Hour | : 07:00 = | 8 (8.4\%) | Peak AM Factor : 0.667 | Average Period : | 1.0 |
|  | PM Total : |  | 61.1\%) |  | PM Hour | : $16: 30=$ | 12 (12.6\%) | Peak PM Factor : 0.500 | Average Hour : | 4.0 |


| Date | Time | $: 00$ | $: 15$ | $: 30$ | $: 45$ | Total |  |
| :---: | :--- | :--- | :--- | :--- | :--- | :--- | :---: |
| 04/27/16 | $00: 00$ | 1 | 0 | 1 | 0 | 2 |  |
| Wed | $01: 00$ | 0 | 0 | 0 | 0 | 0 |  |
|  | $02: 00$ | 0 | 0 | 0 | 0 | 0 |  |
|  | $03: 00$ | 0 | 0 | 0 | 0 | 0 |  |
|  | $04: 00$ | 0 | 0 | 0 | 0 | 0 |  |
|  | $05: 00$ | 1 | 0 | 0 | 0 | 1 |  |
|  | $06: 00$ | 0 | 0 | 0 | 0 | 0 |  |
|  | $07: 00$ | 5 | 2 | 2 | 3 | 12 |  |
|  | $08: 00$ | 0 | 3 | 2 | 3 | 8 |  |
|  | $09: 00$ | 0 | 4 | 4 | 1 | 9 |  |
|  | $10: 00$ | 2 | 4 | 1 | 1 | 8 |  |
|  | $11: 00$ | 1 | 3 | 0 | 2 | 6 |  |
|  | $12: 00$ | 1 | 3 | 1 | 2 | 7 |  |
|  | $13: 00$ | 1 | 1 | 2 | 3 | 7 |  |
|  | $14: 00$ | 2 | 1 | 4 | 0 | 7 |  |
|  | $15: 00$ | 1 | 4 | 7 | 4 | 16 |  |
|  | $16: 00$ | 5 | 5 | 1 | 4 | 15 |  |
|  | $17: 00$ | 3 | 1 | 2 | 2 | 8 |  |
|  | $18: 00$ | 4 | 6 | 3 | 1 | 14 |  |
|  | $19: 00$ | 4 | 3 | 0 | 0 | 7 |  |
|  | $20: 00$ | 1 | 1 | 1 | 0 | 3 |  |
|  | $21: 00$ | 1 | 1 | 0 | 2 | 4 |  |
| $22: 00$ | 1 | 2 | 1 | 1 | 5 |  |  |
| $23: 00$ | 0 | 0 | 0 | 0 | 0 |  |  |
|  |  |  |  |  | 139 |  |  |


| AM Total : | $46(33.1 \%)$ | Peak AM Hour : 07:00 $=$ | $12(8.6 \%)$ | Peak AM Factor : 0.600 | Average Period: | 1.4 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| PM Total : | $93(66.9 \%)$ | Peak PM Hour : 15:30 $=$ | $21(15.1 \%)$ | Peak PM Factor : 0.750 | Average Hour : | 5.8 |


| Lane \#3 Configuration |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
| \# | Dir. | Information | Volume Mode | Volume Sensors |
| 3. | Divide By 2 | Comment |  |  |


| Lane \#3 Basic Volume Data From: 00:00-04/26/2016 To: 23:59-04/27/2016 |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Date | Time | :00 | :15 | :30 | :45 | Total |  |  |  |  |  |
| 04/26/16 | 00:00 | 0 | 0 | 0 | 1 | 1 |  |  |  |  |  |
| Tue | 01:00 | 0 | 0 | 0 | 1 | 1 |  |  |  |  |  |
|  | 02:00 | 0 | 0 | 0 | 0 | 0 |  |  |  |  |  |
|  | 03:00 | 0 | 0 | 0 | 0 | 0 |  |  |  |  |  |
|  | 04:00 | 0 | 0 | 0 | 0 | 0 |  |  |  |  |  |
|  | 05:00 | 0 | 1 | 0 | 0 | 1 |  |  |  |  |  |
|  | 06:00 | 0 | 3 | 3 | 1 | 7 |  |  |  |  |  |
|  | 07:00 | 1 | 1 | 1 | 1 | 4 |  |  |  |  |  |
|  | 08:00 | 0 | 2 | 0 | 1 | 3 |  |  |  |  |  |
|  | 09:00 | 1 | 0 | 1 | 2 | 4 |  |  |  |  |  |
|  | 10:00 | 2 | 3 | 2 | 2 | 9 |  |  |  |  |  |
|  | 11:00 | 1 | 2 | 2 | 0 | 5 |  |  |  |  |  |
|  | 12:00 | 2 | 2 | 2 | 1 | 7 |  |  |  |  |  |
|  | 13:00 | 2 | 0 | 3 | 0 | 5 |  |  |  |  |  |
|  | 14:00 | 2 | 0 | 2 | 1 | 5 |  |  |  |  |  |
|  | 15:00 | 3 | 1 | 1 | 2 | 7 |  |  |  |  |  |
|  | 16:00 | 1 | 2 | 1 | 1 | 5 |  |  |  |  |  |
|  | 17:00 | 3 | 1 | 1 | 3 | 8 |  |  |  |  |  |
|  | 18:00 | 2 | 3 | 2 | 2 | 9 |  |  |  |  |  |
|  | 19:00 | 0 | 2 | 2 | 1 | 5 |  |  |  |  |  |
|  | 20:00 | 1 | 1 | 1 | 0 | 3 |  |  |  |  |  |
|  | 21:00 | 2 | 1 | 0 | 0 | 3 |  |  |  |  |  |
|  | 22:00 | 0 | 0 | 0 | 0 | 0 |  |  |  |  |  |
|  | 23:00 | 0 | 1 | 0 | 0 | 1 |  |  |  |  |  |
| Day Total |  |  |  |  |  | 93 |  |  |  |  |  |
|  | AM Total : |  | (37.6\%) |  | AM Hour | : 09:45 = |  |  | $k$ AM Factor : 0.750 |  | $1.0$ |
|  | PM Total : |  | (62.4\%) | Pea | PM Hour | : 17:45 = | $10 \text { (10.8\%) }$ | Peak | k PM Factor : 0.833 | Average Hour : | 3.9 |


| Date | Time | $: 00$ | $: 15$ | $: 30$ | $: 45$ | Total |  |
| :---: | :--- | :--- | :--- | :--- | :--- | :--- | :---: |
| 04/27/16 | $00: 00$ | 0 | 0 | 0 | 0 | 0 |  |
| Wed | $01: 00$ | 0 | 0 | 0 | 0 | 0 |  |
|  | $02: 00$ | 0 | 0 | 0 | 0 | 0 |  |
|  | $03: 00$ | 0 | 0 | 0 | 0 | 0 |  |
|  | $04: 00$ | 0 | 0 | 0 | 0 | 0 |  |
|  | $05: 00$ | 1 | 0 | 0 | 0 | 1 |  |
|  | $06: 00$ | 0 | 1 | 1 | 2 | 4 |  |
|  | $07: 00$ | 0 | 1 | 3 | 1 | 5 |  |
|  | $08: 00$ | 1 | 0 | 5 | 1 | 7 |  |
|  | $09: 00$ | 1 | 2 | 0 | 1 | 4 |  |
|  | $10: 00$ | 1 | 0 | 2 | 1 | 4 |  |
|  | $11: 00$ | 3 | 0 | 0 | 1 | 4 |  |
|  | $12: 00$ | 3 | 2 | 1 | 3 | 9 |  |
|  | $13: 00$ | 3 | 0 | 1 | 4 | 8 |  |
|  | $14: 00$ | 2 | 0 | 4 | 0 | 6 |  |
|  | $15: 00$ | 1 | 2 | 0 | 3 | 6 |  |
|  | $16: 00$ | 4 | 4 | 2 | 4 | 14 |  |
|  | $17: 00$ | 2 | 4 | 4 | 1 | 11 |  |
|  | $18: 00$ | 2 | 3 | 1 | 2 | 8 |  |
|  | $19: 00$ | 0 | 3 | 1 | 2 | 6 |  |
|  | $20: 00$ | 1 | 2 | 0 | 2 | 5 |  |
|  | $21: 00$ | 0 | 2 | 1 | 1 | 4 |  |
| $22: 00$ | 0 | 0 | 0 | 0 | 0 |  |  |
| $23: 00$ | 0 | 0 | 0 | 0 | 0 |  |  |
|  |  |  |  |  | 106 |  |  |


| AM Total : | $29(27.4 \%)$ | Peak AM Hour : 08:30 $=$ | $9(8.5 \%)$ | Peak AM Factor : 0.450 | Average Period: | 1.1 |
| :--- | :---: | :---: | :---: | :---: | ---: | :--- |
| PM Total : | $77(72.6 \%)$ | Peak PM Hour : $16: 00=$ | $14(13.2 \%)$ | Peak PM Factor : 0.875 | Average Hour: | 4.4 |

## Basic Volume Summary: Brandywine North

Grand Total For Data From: 00:00-04/26/2016 To: 23:59-04/27/2016

| Lane | Total Count | \# Of Days | ADT | Avg. Period | Avg. Hour | AM Total \& Percent | PM Total \& Percent |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| \#1. | 234 (54.0\%) | 2.00 | 117 | 1.2 | 4.9 | 83 (35.5\%) | 151 (64.5\%) |
| \#3. | 199 (46.0\%) | 2.00 | 100 | 1.0 | 4.1 | 64 (32.2\%) | 135 (67.8\%) |
| ALL | 433 | 2.00 | 217 | 2.2 | 9.0 | 147 (33.9\%) | 286 (66.1\%) |


| Lane | Peak AM Hour | Date | Peak AM Factor |  | Peak PM Hour | Date | Peak PM Factor |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| \#1. | $07: 00=$ | 12 | $04 / 27 / 2016$ | 0.600 |  | $15: 30=$ | 21 |
| \#3. | $09: 45=$ | 9 | $04 / 26 / 2016$ | 0.750 | $04 / 27 / 2016$ | 0.750 |  |

## Appendix C

Mid-Region Council of Governments Crash Records from Brandywine Road

| REPORT | DATE | MONTH | DY |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 23249052 | 2/4/2011 | 2 | 4 | 2011 | 1030 | 10 | Friday |
| COUNTY | CITY | AGENCY | $\begin{aligned} & \text { ASTREET } \\ & 8601 \end{aligned}$ | BSTREET | ROUTE | MILEPOST | VNUM |
| Bernalillo | Albuquerqu e | Driver Report | BRANDYWI NE RD NE | UNKNOWN NOT GIVEN |  | 0.00 | 2 |
| TOTAL | KILLED | CLASSA | CLASSB | CLASSC | UNHURT | SEVERITY <br> Property <br> Damage | CLASS |
| 2 | 0 | 0 | 0 | 0 | 2 | Only Crash | Parked Vehicle |
| TOPCFACC | ANALYSIS | ALCINV | DRUGINV | PEDINV | MCINV | PECINV | TRKINV |
| Driver Inattention | Back Into Parked | None Indicated | None Indicated | Not Involved | Not Involved | Not Involved | Not Involved |
| HZINV <br> Not | LIGHT | WEATHER | HITRUN | DOTPROP | MAXDAM | MAXENF | SYSTEM |
| Involved | Daylight | Clear | Yes |  | Other Veh |  | Urban |
| FUNCTCL | ELEMENT | ROADREL | CHARACT | GRADE | FEET | MILES | IDRECT |
| Urban Local | NonIntersection | Off The <br> Roadway | Straight | Level | 9998 | 0.00 | U |

