

**Nu-Metrics Traffic Analyzer Study  
Computer Generated Summary Report  
City: CARTERVILLE  
Street: JALC W/ENT @ GRNBRIAR**

A study of vehicle traffic was conducted with HI-STAR unit number 5268. The study was done in the EB COMB'D lane at JALC W/ENT @ GRNBRIAR in CARTERVILLE, IL in 100-WILLIAMSON county. The study began on Apr/15/2009 at 12:00:00 AM and concluded on Apr/22/2009 at 12:00:00 AM, lasting a total of 168.00 hours. Traffic statistics were recorded in 30 minute time periods. The total recorded volume showed 12359 vehicles passed through the location with a peak volume of 311 on Apr/20/2009 at [07:30-08:00] and a minimum volume of 0 on Apr/15/2009 at [23:00-23:30]. The AADT count for this study was 1,766.

**SPEED**

Chart 1 lists the values of the speed bins and the total traffic volume for each bin. At least half the vehicles were traveling in the 25 - 30 MPH range or lower. The average speed for all classified vehicles was 28 MPH with 26.39% vehicles exceeding the posted speed of 25 MPH. The HI-STAR found 1.12 percent of the total vehicles were traveling in excess of 55 MPH. The mode speed for this traffic study was 25MPH and the 85th percentile was 33.26 MPH.

|              |                |                |                |                |                |                |                |                |                |                |                |                |                |               |  |  |  |  |  |
|--------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|---------------|--|--|--|--|--|
| <<br>to<br>9 | 10<br>to<br>14 | 15<br>to<br>19 | 20<br>to<br>24 | 25<br>to<br>29 | 30<br>to<br>34 | 35<br>to<br>39 | 40<br>to<br>44 | 45<br>to<br>49 | 50<br>to<br>54 | 55<br>to<br>59 | 60<br>to<br>64 | 65<br>to<br>69 | 70<br>to<br>74 | 75<br>to<br>> |  |  |  |  |  |
| 0            | 174            | 641            | 2867           | 4217           | 1873           | 457            | 166            | 107            | 66             | 43             | 35             | 20             | 23             | 42            |  |  |  |  |  |

CHART 1

**CLASSIFICATION**

Chart 2 lists the values of the classification bins and the total traffic volume accumulated for each bin. Most of the vehicles classified during the study were Vans & Pickups. The number of Passenger Vehicles in the study was 0 which represents 0 percent of the total classified vehicles. The number of Vans & Pickups in the study was 10318 which represents 96 percent of the total classified vehicles. The number of Busses & Trucks in the study was 0 which represents 0 percent of the total classified vehicles. The number of Tractor Trailers in the study was 413 which represents 0 percent of the total classified vehicles.

|               |                |                |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|---------------|----------------|----------------|----------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| <<br>to<br>22 | 23<br>to<br>39 | 40<br>to<br>99 | 100<br>to<br>> |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10318         | 311            | 102            | 0              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

CHART 2

**HEADWAY**

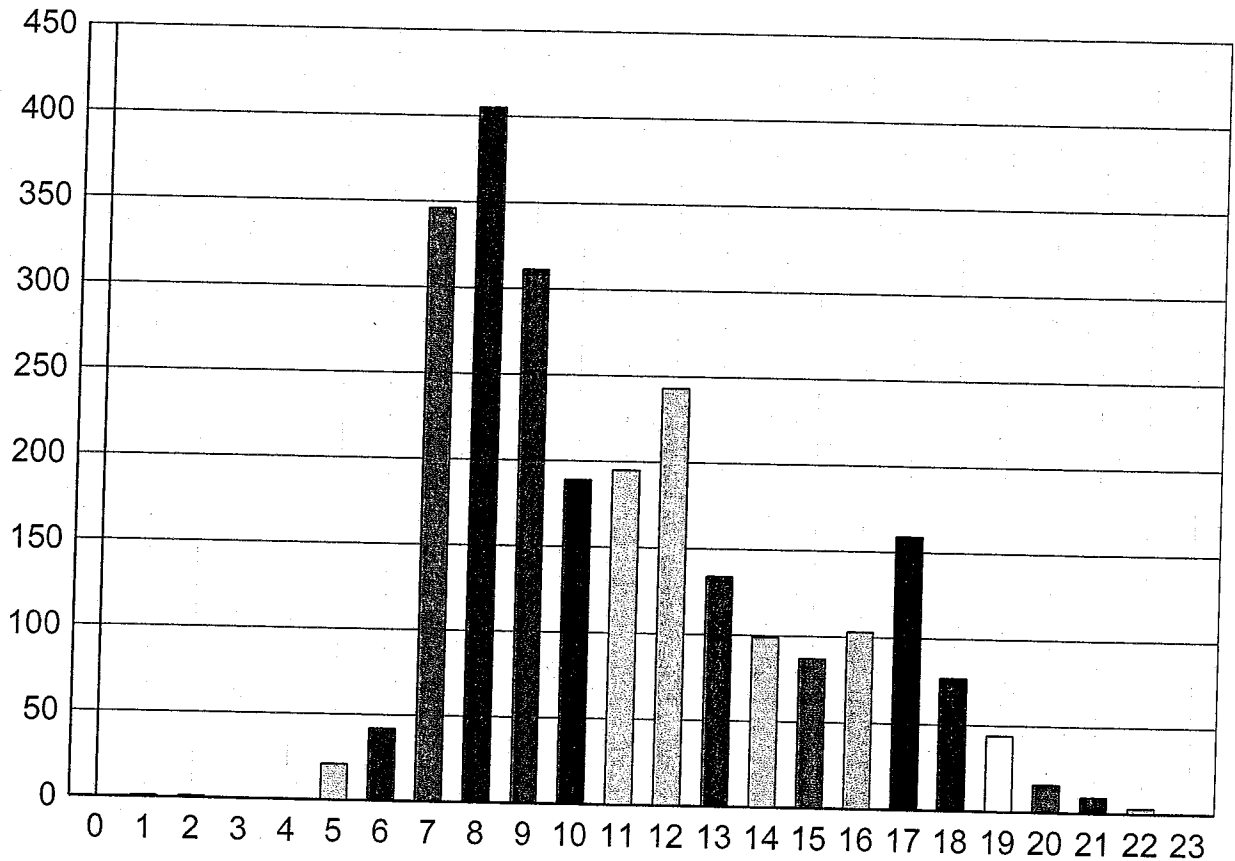
During the peak traffic period, on Apr/20/2009 at [07:30-08:00] the average headway between vehicles was 5.769 seconds. During the slowest traffic period, on Apr/15/2009 at [23:00-23:30] the average headway between vehicles was 1800 seconds.

**WEATHER**

The roadway surface temperature over the period of the study varied between 42.00 and 115.00 degrees F. The HI-STAR determined that the roadway surface was Dry 100.00% of the time.

## Time/Volume Graph

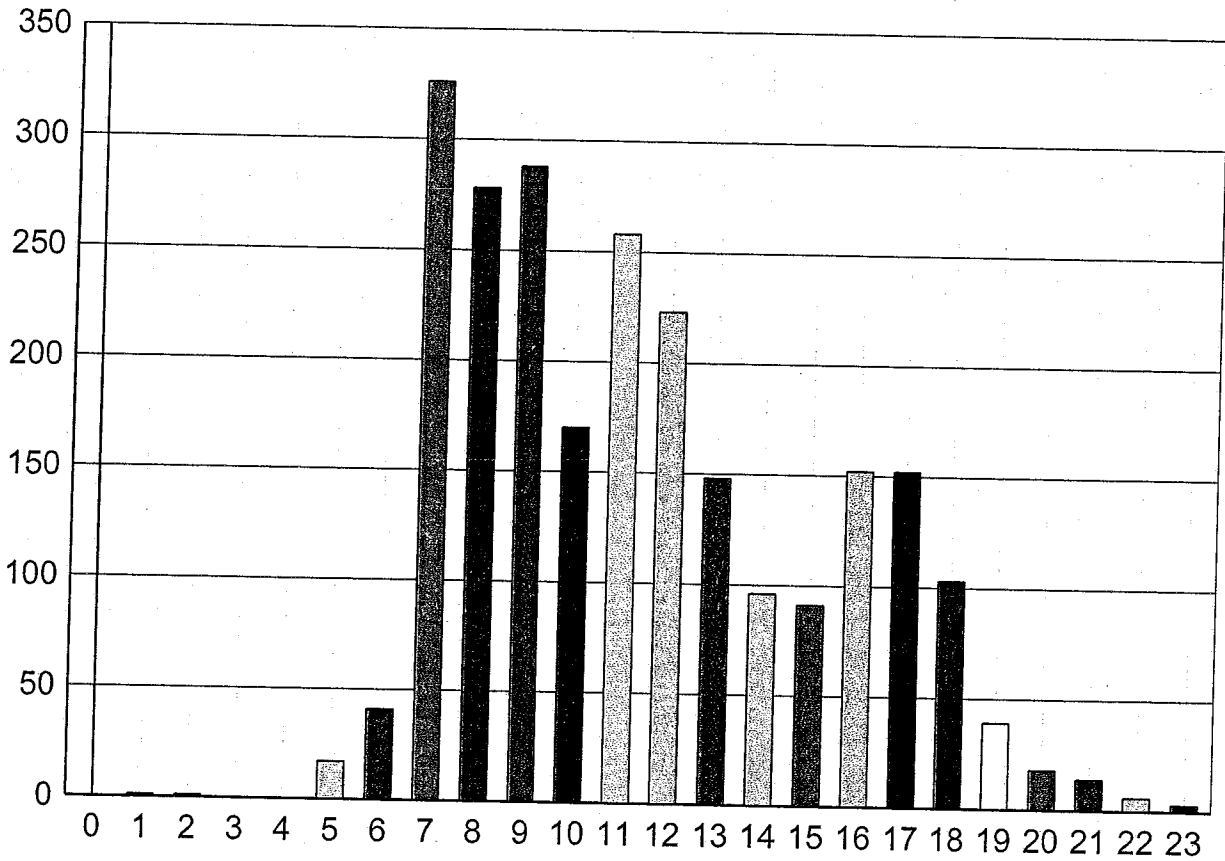
|   |  |  |
|---|--|--|
| HI-Star ID: 5268<br>Street: JALC W/ENT @ GRNBRIAR<br>State: IL<br>City: CARTERVILLE<br>County: 100-WILLIAMSON | Begin: Apr/15/2009 12:00:00 AM<br>Lane: EB COMB'D<br>Oper: JBH<br>Posted: 25<br>AADT Factor: 1 | End: Apr/22/2009 12:00:00 AM<br>Hours: 168.00<br>Period: 30<br>Raw Count: 12359<br>AADT Count: 1,766 |
|---|--|--|



| Wed, Apr/15/2009  |    |                    |     |
|-------------------|----|--------------------|-----|
| (0) 12:00 - 12:59 | 0  | (6) 06:00 - 06:59  | 42  |
| (1) 01:00 - 01:59 | 1  | (7) 07:00 - 07:59  | 346 |
| (2) 02:00 - 02:59 | 1  | (8) 08:00 - 08:59  | 405 |
| (3) 03:00 - 03:59 | 0  | (9) 09:00 - 09:59  | 311 |
| (4) 04:00 - 04:49 | 0  | (10) 10:00 - 10:59 | 189 |
| (5) 05:00 - 05:59 | 21 | (11) 11:00 - 11:59 | 195 |
|                   |    | (12) 12:00 - 12:59 | 243 |
|                   |    | (13) 13:00 - 13:59 | 134 |
|                   |    | (14) 14:00 - 14:59 | 99  |
|                   |    | (15) 15:00 - 15:59 | 87  |
|                   |    | (16) 16:00 - 16:59 | 103 |
|                   |    | (17) 17:00 - 17:59 | 159 |
|                   |    | (18) 18:00 - 18:59 | 77  |
|                   |    | (19) 19:00 - 19:59 | 44  |
|                   |    | (20) 20:00 - 20:59 | 16  |
|                   |    | (21) 21:00 - 21:59 | 9   |
|                   |    | (22) 22:00 - 22:59 | 3   |
|                   |    | (23) 23:00 - 23:59 | 0   |

## Time/Volume Graph

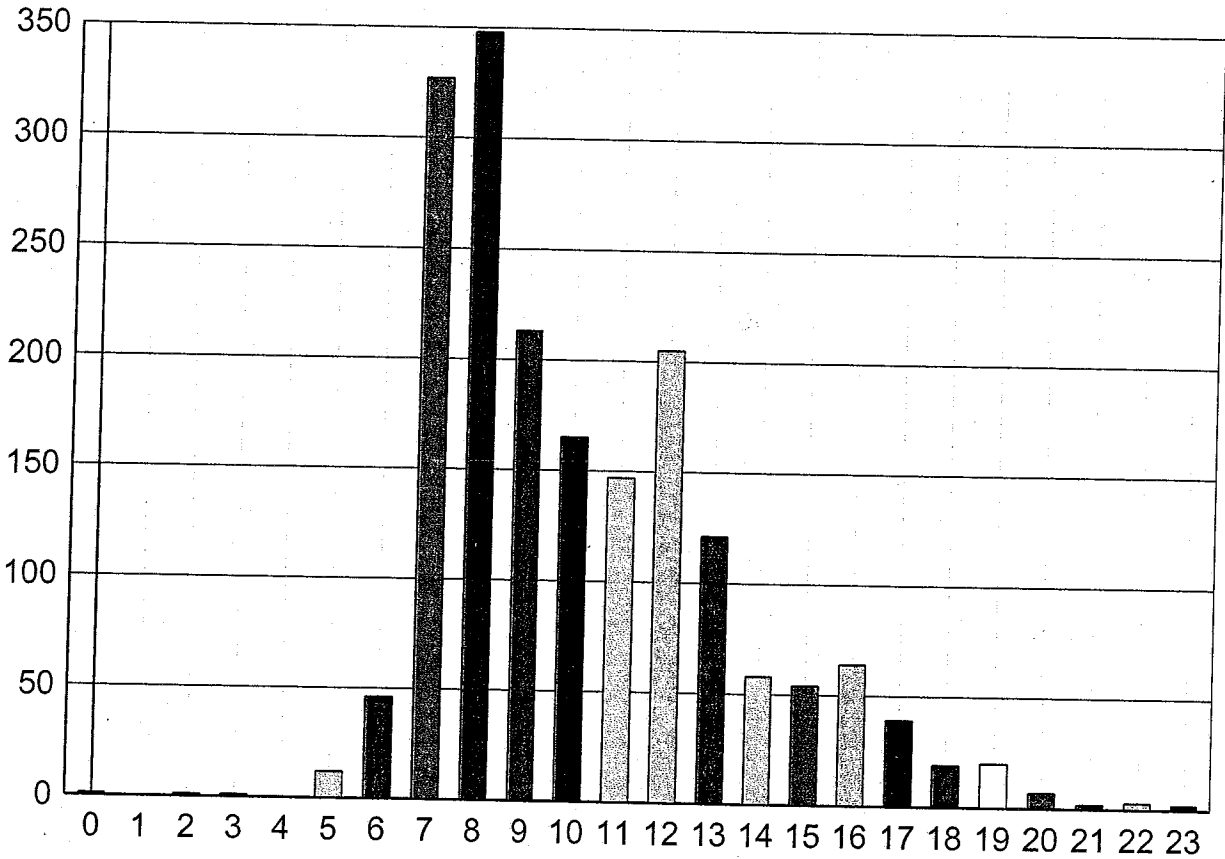
|   |  |  |
|---|--|--|
| HI-Star ID: 5268<br>Street: JALC W/ENT @ GRNBRIAR<br>State: IL<br>City: CARTERVILLE<br>County: 100-WILLIAMSON | Begin: Apr/15/2009 12:00:00 AM<br>Lane: EB COMB'D<br>Oper: JBH<br>Posted: 25<br>AADT Factor: 1 | End: Apr/22/2009 12:00:00 AM<br>Hours: 168.00<br>Period: 30<br>Raw Count: 12359<br>AADT Count: 1,766 |
|---|--|--|



| Thu, Apr/16/2009  |    |                    |     |                    |     |                    |     |
|-------------------|----|--------------------|-----|--------------------|-----|--------------------|-----|
| (0) 12:00 - 12:59 | 0  | (6) 06:00 - 06:59  | 41  | (12) 12:00 - 12:59 | 223 | (18) 18:00 - 18:59 | 103 |
| (1) 01:00 - 01:59 | 1  | (7) 07:00 - 07:59  | 326 | (13) 13:00 - 13:59 | 148 | (19) 19:00 - 19:59 | 39  |
| (2) 02:00 - 02:59 | 1  | (8) 08:00 - 08:59  | 278 | (14) 14:00 - 14:59 | 96  | (20) 20:00 - 20:59 | 18  |
| (3) 03:00 - 03:59 | 0  | (9) 09:00 - 09:59  | 288 | (15) 15:00 - 15:59 | 91  | (21) 21:00 - 21:59 | 14  |
| (4) 04:00 - 04:49 | 0  | (10) 10:00 - 10:59 | 170 | (16) 16:00 - 16:59 | 152 | (22) 22:00 - 22:59 | 6   |
| (5) 05:00 - 05:59 | 17 | (11) 11:00 - 11:59 | 258 | (17) 17:00 - 17:59 | 152 | (23) 23:00 - 23:59 | 3   |

## Time/Volume Graph

|   |  |  |
|---|--|--|
| HI-Star ID: 5268<br>Street: JALC W/ENT @ GRNBRIAR<br>State: IL<br>City: CARTERVILLE<br>County: 100-WILLIAMSON | Begin: Apr/15/2009 12:00:00 AM<br>Lane: EB COMB'D<br>Oper: JBH<br>Posted: 25<br>AADT Factor: 1 | End: Apr/22/2009 12:00:00 AM<br>Hours: 168.00<br>Period: 30<br>Raw Count: 12359<br>AADT Count: 1,766 |
|---|--|--|



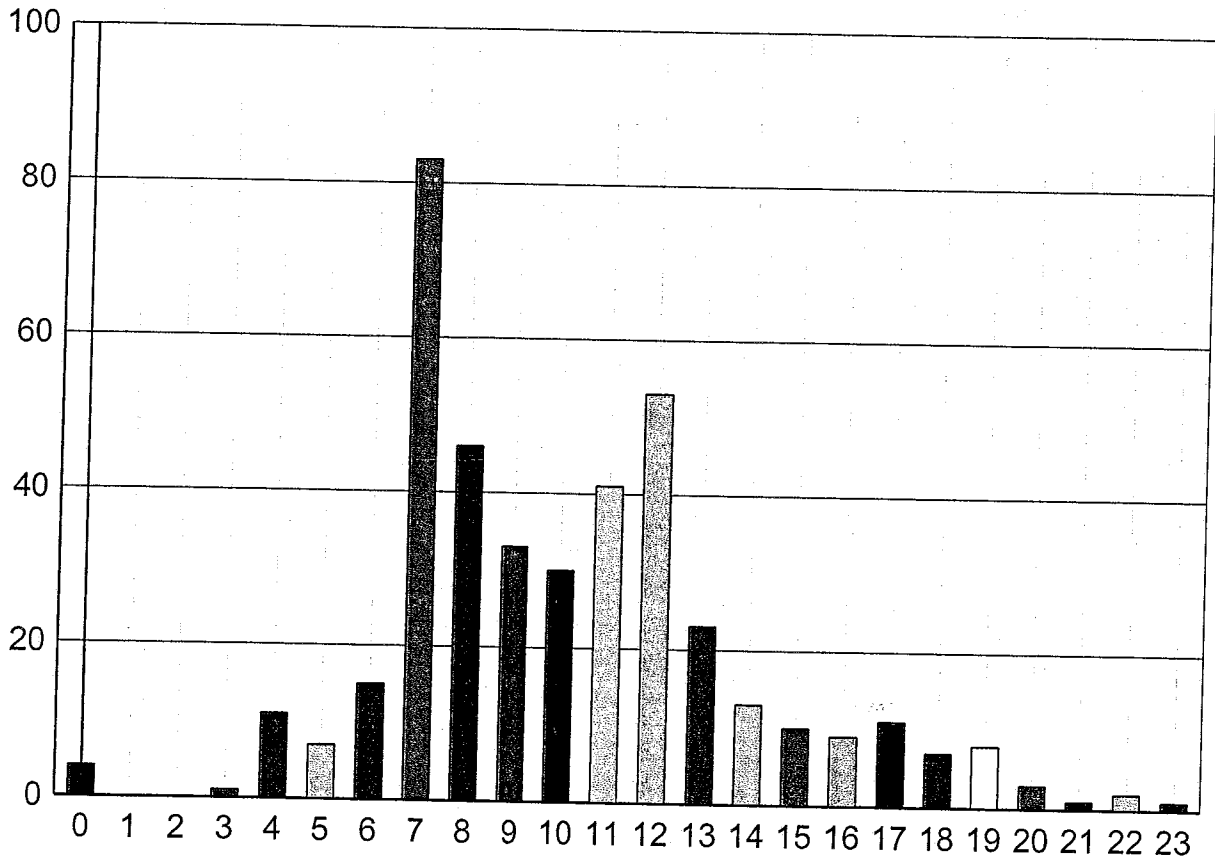
| Fri, Apr/17/2009  |    |                    |     |                    |     |                    |    |
|-------------------|----|--------------------|-----|--------------------|-----|--------------------|----|
| (0) 12:00 - 12:59 | 1  | (6) 06:00 - 06:59  | 46  | (12) 12:00 - 12:59 | 205 | (18) 18:00 - 18:59 | 19 |
| (1) 01:00 - 01:59 | 0  | (7) 07:00 - 07:59  | 327 | (13) 13:00 - 13:59 | 121 | (19) 19:00 - 19:59 | 20 |
| (2) 02:00 - 02:59 | 1  | (8) 08:00 - 08:59  | 348 | (14) 14:00 - 14:59 | 58  | (20) 20:00 - 20:59 | 7  |
| (3) 03:00 - 03:59 | 1  | (9) 09:00 - 09:59  | 213 | (15) 15:00 - 15:59 | 54  | (21) 21:00 - 21:59 | 2  |
| (4) 04:00 - 04:49 | 0  | (10) 10:00 - 10:59 | 165 | (16) 16:00 - 16:59 | 64  | (22) 22:00 - 22:59 | 3  |
| (5) 05:00 - 05:59 | 12 | (11) 11:00 - 11:59 | 147 | (17) 17:00 - 17:59 | 39  | (23) 23:00 - 23:59 | 2  |

## Time/Volume Graph

HI-Star ID: 5268  
 Street: JALC W/ENT @ GRNBRIAR  
 State: IL  
 City: CARTERVILLE  
 County: 100-WILLIAMSON

Begin: Apr/15/2009 12:00:00 AM  
 Lane: EB COMB'D  
 Oper: JBH  
 Posted: 25  
 AADT Factor: 1

End: Apr/22/2009 12:00:00 AM  
 Hours: 168.00  
 Period: 30  
 Raw Count: 12359  
 AADT Count: 1,766

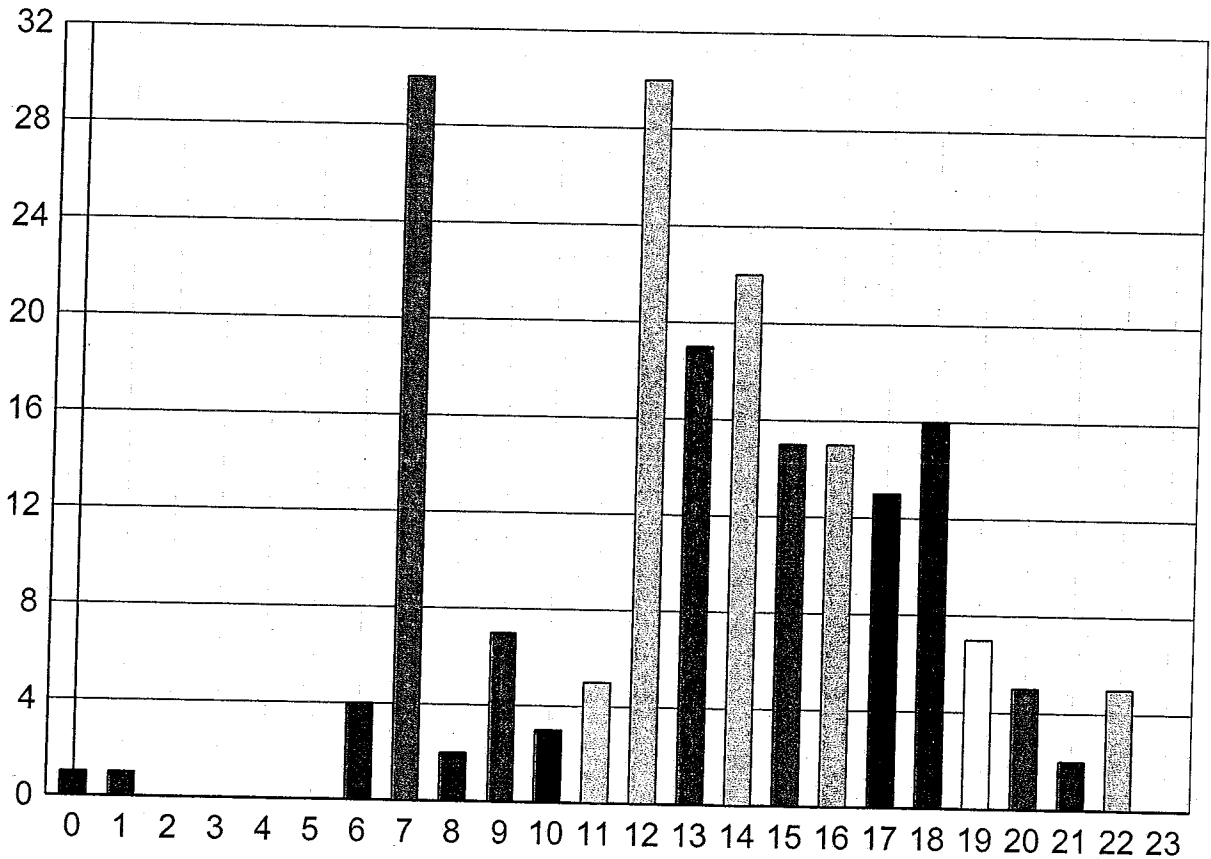


Sat, Apr/18/2009

|                   |    |                    |    |                    |    |                    |   |
|-------------------|----|--------------------|----|--------------------|----|--------------------|---|
| (0) 12:00 - 12:59 | 4  | (6) 06:00 - 06:59  | 15 | (12) 12:00 - 12:59 | 53 | (18) 18:00 - 18:59 | 7 |
| (1) 01:00 - 01:59 | 0  | (7) 07:00 - 07:59  | 83 | (13) 13:00 - 13:59 | 23 | (19) 19:00 - 19:59 | 8 |
| (2) 02:00 - 02:59 | 0  | (8) 08:00 - 08:59  | 46 | (14) 14:00 - 14:59 | 13 | (20) 20:00 - 20:59 | 3 |
| (3) 03:00 - 03:59 | 1  | (9) 09:00 - 09:59  | 33 | (15) 15:00 - 15:59 | 10 | (21) 21:00 - 21:59 | 1 |
| (4) 04:00 - 04:49 | 11 | (10) 10:00 - 10:59 | 30 | (16) 16:00 - 16:59 | 9  | (22) 22:00 - 22:59 | 2 |
| (5) 05:00 - 05:59 | 7  | (11) 11:00 - 11:59 | 41 | (17) 17:00 - 17:59 | 11 | (23) 23:00 - 23:59 | 1 |

## Time/Volume Graph

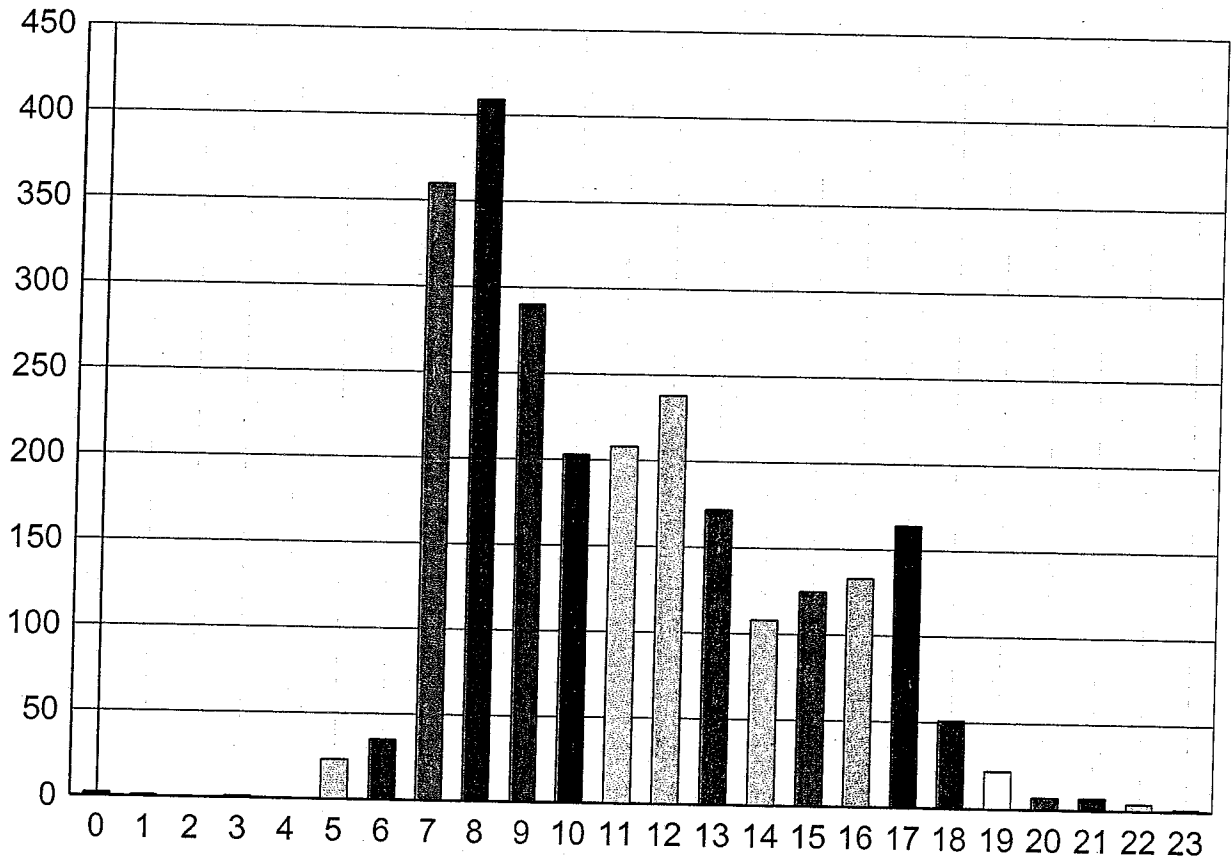
|   |  |  |
|---|--|--|
| HI-Star ID: 5268<br>Street: JALC W/ENT @ GRNBRIAR<br>State: IL<br>City: CARTERVILLE<br>County: 100-WILLIAMSON | Begin: Apr/15/2009 12:00:00 AM<br>Lane: EB COMB'D<br>Oper: JBH<br>Posted: 25<br>AADT Factor: 1 | End: Apr/22/2009 12:00:00 AM<br>Hours: 168.00<br>Period: 30<br>Raw Count: 12359<br>AADT Count: 1,766 |
|---|--|--|



| Sun, Apr/19/2009  |   |                    |    |
|-------------------|---|--------------------|----|
| (0) 12:00 - 12:59 | 1 | (6) 06:00 - 06:59  | 4  |
| (1) 01:00 - 01:59 | 1 | (7) 07:00 - 07:59  | 30 |
| (2) 02:00 - 02:59 | 0 | (8) 08:00 - 08:59  | 2  |
| (3) 03:00 - 03:59 | 0 | (9) 09:00 - 09:59  | 7  |
| (4) 04:00 - 04:49 | 0 | (10) 10:00 - 10:59 | 3  |
| (5) 05:00 - 05:59 | 0 | (11) 11:00 - 11:59 | 5  |
|                   |   | (12) 12:00 - 12:59 | 30 |
|                   |   | (13) 13:00 - 13:59 | 19 |
|                   |   | (14) 14:00 - 14:59 | 22 |
|                   |   | (15) 15:00 - 15:59 | 15 |
|                   |   | (16) 16:00 - 16:59 | 15 |
|                   |   | (17) 17:00 - 17:59 | 13 |
|                   |   | (18) 18:00 - 18:59 | 16 |
|                   |   | (19) 19:00 - 19:59 | 7  |
|                   |   | (20) 20:00 - 20:59 | 5  |
|                   |   | (21) 21:00 - 21:59 | 2  |
|                   |   | (22) 22:00 - 22:59 | 5  |
|                   |   | (23) 23:00 - 23:59 | 0  |

## Time/Volume Graph

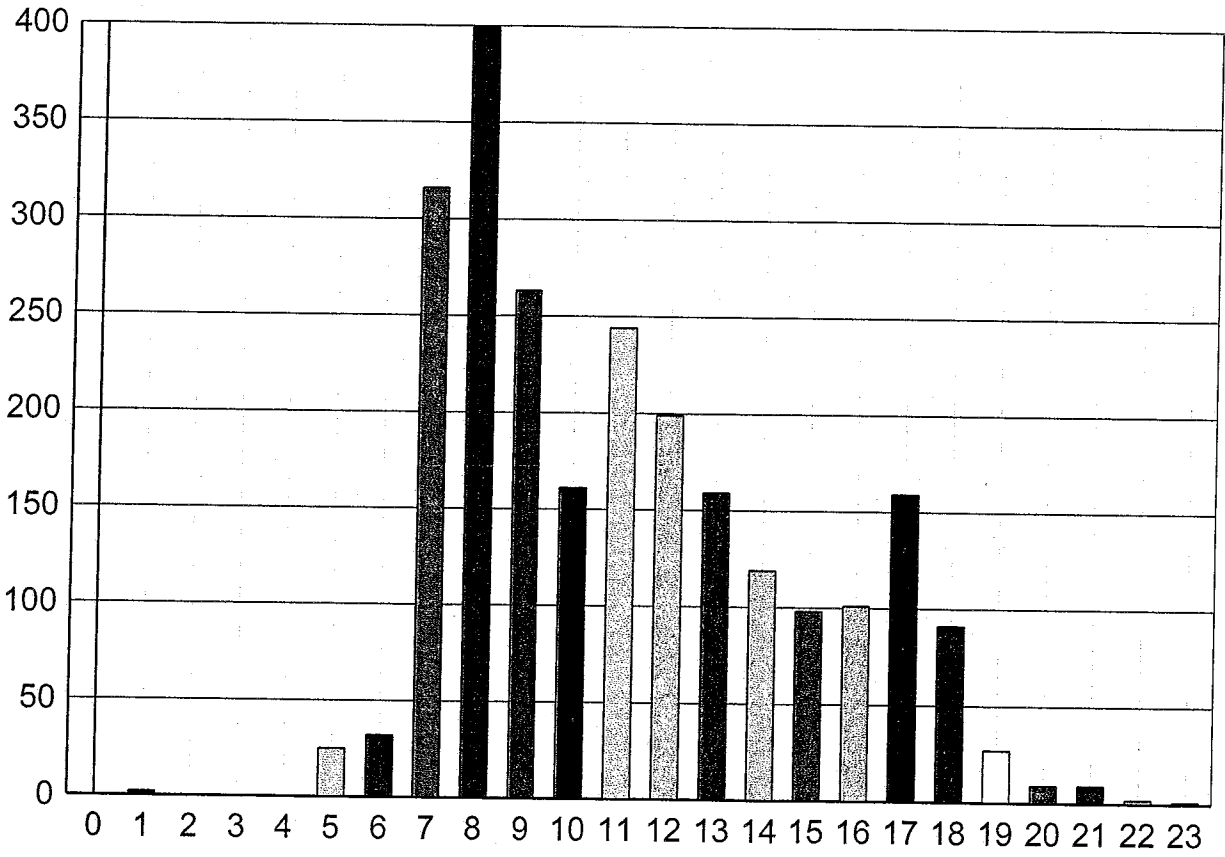
|   |  |  |
|---|--|--|
| HI-Star ID: 5268<br>Street: JALC W/ENT @ GRNBRIAR<br>State: IL<br>City: CARTERVILLE<br>County: 100-WILLIAMSON | Begin: Apr/15/2009 12:00:00 AM<br>Lane: EB COMB'D<br>Oper: JBH<br>Posted: 25<br>AADT Factor: 1 | End: Apr/22/2009 12:00:00 AM<br>Hours: 168.00<br>Period: 30<br>Raw Count: 12359<br>AADT Count: 1,766 |
|---|--|--|



| Mon, Apr/20/2009  |    |                    |     |                    |     |                    |    |
|-------------------|----|--------------------|-----|--------------------|-----|--------------------|----|
| (0) 12:00 - 12:59 | 2  | (6) 06:00 - 06:59  | 35  | (12) 12:00 - 12:59 | 238 | (18) 18:00 - 18:59 | 51 |
| (1) 01:00 - 01:59 | 1  | (7) 07:00 - 07:59  | 360 | (13) 13:00 - 13:59 | 172 | (19) 19:00 - 19:59 | 22 |
| (2) 02:00 - 02:59 | 0  | (8) 08:00 - 08:59  | 409 | (14) 14:00 - 14:59 | 108 | (20) 20:00 - 20:59 | 7  |
| (3) 03:00 - 03:59 | 1  | (9) 09:00 - 09:59  | 290 | (15) 15:00 - 15:59 | 125 | (21) 21:00 - 21:59 | 7  |
| (4) 04:00 - 04:49 | 0  | (10) 10:00 - 10:59 | 203 | (16) 16:00 - 16:59 | 133 | (22) 22:00 - 22:59 | 4  |
| (5) 05:00 - 05:59 | 23 | (11) 11:00 - 11:59 | 208 | (17) 17:00 - 17:59 | 164 | (23) 23:00 - 23:59 | 1  |

## Time/Volume Graph

|   |  |  |
|---|--|--|
| HI-Star ID: 5268<br>Street: JALC W/ENT @ GRNBRIAR<br>State: IL<br>City: CARTERVILLE<br>County: 100-WILLIAMSON | Begin: Apr/15/2009 12:00:00 AM<br>Lane: EB COMB'D<br>Oper: JBH<br>Posted: 25<br>AADT Factor: 1 | End: Apr/22/2009 12:00:00 AM<br>Hours: 168.00<br>Period: 30<br>Raw Count: 12359<br>AADT Count: 1,766 |
|---|--|--|



| Tue, Apr/21/2009  |    |                    |     |                    |     |                    |    |
|-------------------|----|--------------------|-----|--------------------|-----|--------------------|----|
| (0) 12:00 - 12:59 | 0  | (6) 06:00 - 06:59  | 32  | (12) 12:00 - 12:59 | 199 | (18) 18:00 - 18:59 | 91 |
| (1) 01:00 - 01:59 | 2  | (7) 07:00 - 07:59  | 316 | (13) 13:00 - 13:59 | 159 | (19) 19:00 - 19:59 | 27 |
| (2) 02:00 - 02:59 | 0  | (8) 08:00 - 08:59  | 399 | (14) 14:00 - 14:59 | 119 | (20) 20:00 - 20:59 | 9  |
| (3) 03:00 - 03:59 | 0  | (9) 09:00 - 09:59  | 263 | (15) 15:00 - 15:59 | 98  | (21) 21:00 - 21:59 | 9  |
| (4) 04:00 - 04:49 | 0  | (10) 10:00 - 10:59 | 161 | (16) 16:00 - 16:59 | 101 | (22) 22:00 - 22:59 | 2  |
| (5) 05:00 - 05:59 | 25 | (11) 11:00 - 11:59 | 244 | (17) 17:00 - 17:59 | 159 | (23) 23:00 - 23:59 | 1  |