

**Nu-Metrics Traffic Analyzer Study  
Computer Generated Summary Report**

**City: Stettler**

**Street: 62 St.**

**Location: by the Spray Park**

A study of vehicle traffic was conducted with HI-STAR unit number 0001. The study was done in the Northbound lane at 62 St. in Stettler, AB in Stettler county. The study began on Aug-06-09 at 14:05 and concluded on Aug-12-09 at 10:07, lasting a total of 140.03 hours. Traffic statistics were recorded in 60 minute time periods. The total recorded volume showed 3462 vehicles passed through the location with a peak volume of 85 on Aug-11-09 at [23:05-00:05] and a minimum volume of 0 on Aug-07-09 at [03:05-04:05]. The AADT count for this study was 593.

**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 48 - 56 KM/H range or lower. The average speed for all classified vehicles was 47 KM/H with 97.80% vehicles exceeding the posted speed of 30 KM/H. The HI-STAR found 0.03 percent of the total vehicles were traveling in excess of 89 KM/H. The mode speed for this traffic study was 48KM/H and the 85th percentile was 59.86 KM/H.

|    |    |     |     |     |     |     |     |    |    |    |     |     |     |     |  |  |  |  |  |
|----|----|-----|-----|-----|-----|-----|-----|----|----|----|-----|-----|-----|-----|--|--|--|--|--|
| <  | 16 | 24  | 32  | 40  | 48  | 56  | 64  | 72 | 80 | 89 | 97  | 105 | 113 | 121 |  |  |  |  |  |
| to | to | to  | to  | to  | to  | to  | to  | to | to | to | to  | to  | to  | to  |  |  |  |  |  |
| 15 | 23 | 31  | 39  | 47  | 55  | 63  | 71  | 79 | 88 | 96 | 104 | 112 | 120 | >   |  |  |  |  |  |
| 48 | 28 | 242 | 674 | 822 | 909 | 454 | 214 | 56 | 12 | 2  | 1   | 0   | 0   | 0   |  |  |  |  |  |

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 Passenger Vehicles. The number of Passenger Vehicles in the study was 1778 which represents 51 percent of the total classified vehicles. The number of Vans & Pickups in the study was 795 which represents 23 percent of the total classified vehicles. The number of Busses & Trucks in the study was 796 which represents 23 percent of the total classified vehicles. The number of Tractor Trailers in the study was 93 which represents 3 percent of the total classified vehicles.

|     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |  |  |  |  |  |
|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|--|--|--|--|--|
| <   | 3.1 | 4.6 | 6.1 | 7.6 | 9.1  | 10.7 | 12.2 | 13.7 | 15.2 | 16.8 | 18.3 | 19.8 | 21.3 | 22.9 |  |  |  |  |  |
| to  | to  | to  | to  | to  | to   | to   | to   | to   | to   | to   | to   | to   | to   | to   |  |  |  |  |  |
| 3.0 | 4.5 | 6.0 | 7.5 | 9.0 | 10.6 | 12.1 | 13.6 | 15.1 | 16.7 | 18.2 | 19.7 | 21.2 | 22.8 | >    |  |  |  |  |  |
| 866 | 124 | 788 | 795 | 576 | 184  | 36   | 23   | 19   | 24   | 17   | 6    | 3    | 1    | 0    |  |  |  |  |  |

CHART 2

**HEADWAY**

During the peak traffic period, on Aug-11-09 at [23:05-00:05] the average headway between vehicles was 41.86 seconds. During the slowest traffic period, on Aug-07-09 at [03:05-04:05] the average headway between vehicles was 3600 seconds.

**WEATHER**

The roadway surface temperature over the period of the study varied between 0.00 and 0.00 degrees C. The HI-STAR determined that the roadway surface was Dry 100.00% of the time.