

**Nu-Metrics Traffic Analyzer Study**  
**Computer Generated Summary Report**  
**City: Stettler**  
**Street: 50A Ave.**  
**Location: East of 60 St.**

A study of vehicle traffic was conducted with HI-STAR unit number 0001. The study was done in the Westbound lane at 50A Ave. in Stettler, AB in Stettler county. The study began on May/22/13 at 13:09 and concluded on Jun/01/13 at 11:08, lasting a total of 237.98 hours. Traffic statistics were recorded in 60 minute time periods. The total recorded volume showed 2752 vehicles passed through the location with a peak volume of 35 on May/29/13 at [16:09-17:09] and a minimum volume of 0 on May/23/13 at [01:09-02:09]. The AADT count for this study was 278.

**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 46 KM/H with 46.55% vehicles exceeding the posted speed of 50 KM/H. The HI-STAR found 0.00 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 54.59 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 | >   |  |  |  |  |
| 45 | 28 | 114 | 337 | 947 | 1053 | 202 | 25 | 1  | 0  | 0  | 0   | 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 Tractor Trailers. The number of Pedestrians/Bikes in the study was 49 which represents 2 percent of the total classified vehicles. The number of Passenger Vehicles in the study was 0 which represents 0 percent of the total classified vehicles. The number of Trucks in the study was 1329 which represents 48 percent of the total classified vehicles. The number of Tractor Trailers in the study was 1374 which represents 50 percent of the total classified vehicles.

|     |     |      |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|-----|-----|------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| <   | 2.2 | 5.0  | 12.0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| to  | to  | to   | to   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2.1 | 4.9 | 11.9 | >    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 49  | 0   | 1329 | 1374 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

CHART 2

**HEADWAY**

During the peak traffic period, on May/29/13 at [16:09-17:09] the average headway between vehicles was 100 seconds. During the slowest traffic period, on May/23/13 at [01:09-02:09] 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.