

**Nu-Metrics Traffic Analyzer Study  
 Computer Generated Summary Report  
 City: Stettler  
 Street: 44 Ave  
 Location: S of SRC**

A study of vehicle traffic was conducted with HI-STAR unit number 0001. The study was done in the Eastbound lane at 44 Ave in Stettler, AB in Stettler county. The study began on Sep-16-09 at 13:42 and concluded on Sep-23-09 at 14:22, lasting a total of 168.67 hours. Traffic statistics were recorded in 60 minute time periods. The total recorded volume showed 11827 vehicles passed through the location with a peak volume of 174 on Sep-21-09 at [07:42-08:42] and a minimum volume of 0 on Sep-17-09 at [01:42-02:42]. The AADT count for this study was 1,683.

**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 56 - 64 KM/H range or lower. The average speed for all classified vehicles was 51 KM/H with 65.66% vehicles exceeding the posted speed of 50 KM/H. The HI-STAR found 0.01 percent of the total vehicles were traveling in excess of 89 KM/H. The mode speed for this traffic study was 56KM/H and the 85th percentile was 63.25 KM/H.

< to 15	16 to 23	24 to 31	32 to 39	40 to 47	48 to 55	56 to 63	64 to 71	72 to 79	80 to 88	89 to 96	97 to 104	105 to 112	113 to 120	121 to >					
4	15	609	2433	1000	3107	3184	1214	220	36	4	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 Tractor Trailers. The number of Passenger Vehicles in the study was 3808 which represents 32 percent of the total classified vehicles. The number of Vans & Pickups in the study was 0 which represents 0 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 8019 which represents 68 percent of the total classified vehicles.

< to 1.8	1.9 to 2.1	2.2 to 2.2	2.3 to 2.3	2.4 to 2.4	2.5 to 2.5	2.6 to 2.7	2.8 to 2.9	3.0 to 3.0	3.1 to 3.1	3.2 to 3.3	3.4 to 3.6	3.7 to 4.1	4.2 to 4.2	4.3 to >					
47	0	14	0	15	0	32	0	76	0	0	343	646	2635	8019					

**CHART 2**

**HEADWAY**

During the peak traffic period, on Sep-21-09 at [07:42-08:42] the average headway between vehicles was 20.571 seconds. During the slowest traffic period, on Sep-17-09 at [01:42-02:42] 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.