

**Nu-Metrics Traffic Analyzer Study**  
**Computer Generated Summary Report**  
**City: Stettler**  
**Street: 50 St.**  
**Location: By Cemetery**

A study of vehicle traffic was conducted with HI-STAR unit number 0001. The study was done in the Southbound lane at 50 St. in Stettler, AB in Stettler county. The study began on Oct-19-09 at 14:28 and concluded on Oct-27-09 at 09:27, lasting a total of 186.98 hours. Traffic statistics were recorded in 60 minute time periods. The total recorded volume showed 1326 vehicles passed through the location with a peak volume of 31 on Oct-22-09 at [14:28-15:28] and a minimum volume of 0 on Oct-20-09 at [22:28-23:28]. The AADT count for this study was 170.

**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 64 - 72 KM/H range or lower. The average speed for all classified vehicles was 64 KM/H with 89.22% vehicles exceeding the posted speed of 50 KM/H. The HI-STAR found 1.36 percent of the total vehicles were traveling in excess of 89 KM/H. The mode speed for this traffic study was 64KM/H and the 85th percentile was 76.86 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	>					
1	3	14	52	73	206	283	385	181	82	28	10	3	4	1					

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 741 which represents 56 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 585 which represents 44 percent of the total classified vehicles.

<	1.9	2.2	2.3	2.4	2.5	2.6	2.8	3.0	3.1	3.2	3.4	3.7	4.2	4.3					
to	to	to	to	to	to	to	to	to	to	to	to	to	to	to					
1.8	2.1	2.2	2.3	2.4	2.5	2.7	2.9	3.0	3.1	3.3	3.6	4.1	4.2	>					
10	0	15	0	28	0	61	0	98	0	0	154	130	245	585					

CHART 2

**HEADWAY**

During the peak traffic period, on Oct-22-09 at [14:28-15:28] the average headway between vehicles was 112.5 seconds. During the slowest traffic period, on Oct-20-09 at [22:28-23:28] 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.