

**Nu-Metrics Traffic Analyzer Study**  
**Computer Generated Summary Report**  
**City: Stettler**  
**Street: 50 Ave.**  
**Location: N of High School**

A study of vehicle traffic was conducted with HI-STAR unit number 0001. The study was done in the Westbound lane at 50 Ave. in Stettler, AB in Stettler county. The study began on Oct-08-09 at 10:42 and concluded on Oct-13-09 at 16:42, lasting a total of 126.00 hours. Traffic statistics were recorded in 60 minute time periods. The total recorded volume showed 7547 vehicles passed through the location with a peak volume of 196 on Oct-13-09 at [08:42-09:42] and a minimum volume of 0 on Oct-09-09 at [03:42-04:42]. The AADT count for this study was 1,438.

**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 32 - 40 KM/H range or lower. The average speed for all classified vehicles was 32 KM/H with 75.69% vehicles exceeding the posted speed of 30 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 32KM/H and the 85th percentile was 46.33 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	>					
29	6	22	46	24	15	1	1	0	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 Passenger Vehicles. The number of Passenger Vehicles in the study was 144 which represents 100 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 0 which represents 0 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	>					
70	0	21	0	22	0	31	0	0	0	0	0	0	0	0					

CHART 2

**HEADWAY**

During the peak traffic period, on Oct-13-09 at [08:42-09:42] the average headway between vehicles was 18.274 seconds. During the slowest traffic period, on Oct-09-09 at [03:42-04:42] 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.