

**Nu-Metrics Traffic Analyzer Study  
Computer Generated Summary Report  
City: Stettler  
Street: 40 Ave.  
Location: N of LDS Church**

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A study of vehicle traffic was conducted with HI-STAR unit number 0001. The study was done in the Westbound lane at 40 Ave. in Stettler, AB in Stettler county. The study began on Oct-28-09 at 10:05 and concluded on Nov-06-09 at 10:37, lasting a total of 216.53 hours. Traffic statistics were recorded in 60 minute time periods. The total recorded volume showed 6000 vehicles passed through the location with a peak volume of 87 on Oct-28-09 at [18:05-19:05] and a minimum volume of 0 on Oct-29-09 at [03:05-04:05]. The AADT count for this study was 665.

**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 40 - 48 KM/H range or lower. The average speed for all classified vehicles was 41 KM/H with 10.62% 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 40KM/H and the 85th percentile was 47.28 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	>					
15	17	203	2186	2942	618	16	3	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 Tractor Trailers. The number of Passenger Vehicles in the study was 1841 which represents 31 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 4159 which represents 69 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	>					
14	0	1	0	3	0	4	0	13	0	0	93	251	1462	4159					

CHART 2

**HEADWAY**

During the peak traffic period, on Oct-28-09 at [18:05-19:05] the average headway between vehicles was 40.909 seconds. During the slowest traffic period, on Oct-29-09 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.