

MCKENZIE AVE
2023-10-25

between
to

BORDEN AND BLENKINSOP
2023-11-01



The data presented here is for information purposes only and should not be considered authoritative for construction, geotechnical, engineering, navigational, legal, or other site-specific uses. Please note that small datasets may skew the calculation of the hourly 85th percentile speed. The information shared is owned by the Transportation Division of the Engineering Department at the District of Saanich. Accuracy is not guaranteed.

This document contains:

Overview

Vehicle Volume Summary

Vehicle Speed Summary

Vehicle Classification Summary

Note:

Vehicle volumes in the Westbound direction during the weekday afternoon peak hour of 3pm to 4pm were significantly affected by queuing through the corridor. This led to the counter under reporting the number of vehicles observed during the 3pm to 4pm period by as much as 40%. Other periods were also affected by queuing but not to the same extent as the 3pm to 4pm window.

Data from the weekday 3pm to 4pm hour has been removed. On October 30th, an audit of the count location was performed using a Miovision Scout VCU and Miovision processing. The data from this audit has been used to replace the October 30th data. This allows for the calculations on the Vehicle Volume Summary sheet to be completed. Given there is only one day of data for the 3pm to 4pm window, it is recommended that the following turning movement counts be reviewed in conjunction with the data in this report:

McKenzie Ave & Blenkinsop Rd - November 9, 2023

McKenzie Ave & Borden St - October 17, 2023

McKenzie Ave & Cedar Hill Cross Road - March 2, 2023

Attached to this report is a copy of the audit referenced above which took place between 10am and 4pm on October 30th, 2023.

Vehicle classification, speed summary, and the sites Per Vehicle File have not been adjusted. The classification and speed summaries are not expected to vary significantly and the Miovision output does not allow for the per vehicle file to be updated accurately.

Overview

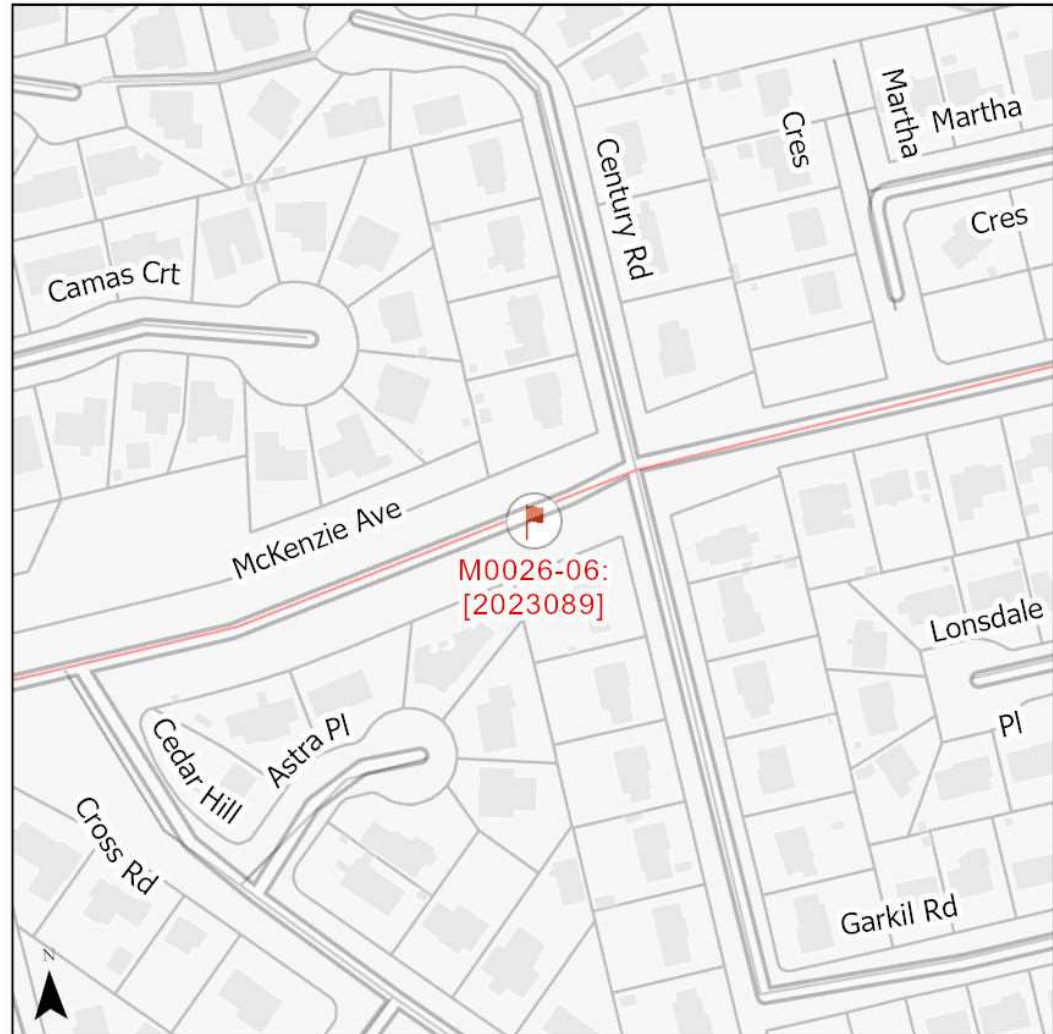
MCKENZIE AVE between BORDEN AND BLENKINSOP
2023-10-25 to 2023-11-01



Location Map

| Metric | EB | WB | Combined |
|-----------------------------------|-------|-------|----------|
| Average Traffic Volume (weekdays) | 13083 | 16715 | 29797 |
| Average Speed (km/h) | 49 | 48 | 49 |

| Weather Information | Value |
|---------------------|---------|
| Minimum Temperature | -1.1 °C |
| Maximum Temperature | 10.5 °C |
| Total Precipitation | 0.0 mm |



Vehicle Volume Summary

Start Date: 2023-10-25
 Start Time: 2:00:00 PM
 Station ID: M0026-06



*Data collection started on Wednesday October 25, 2023 at 2 PM and ended Wednesday November 1, 2023 at 1 PM

Location: MCKENZIE AVE Between BORDEN AND BLENKINSOP

*** or Red Text represents data replaced/removed.

| DATE: | 2023-10-30 | | 2023-10-31 | | *2023-10-25 / 2023-11-01 | | 2023-10-26 | | 2023-10-27 | | ** represents missing data | | WK AVG | WK AVG | HOURLY |
|----------------------------|--------------|--------------|--------------|--------------|--------------------------|--------------|--------------|------------------------|--------------|------------------------|----------------------------|--|--------------|---------------------------|--------|
| Time: | MON | WB | TUE | WB | WED | WB | THURS | WB | FRI | WB | EB | WB | CH 1+2 | % | |
| 12-1 AM | 65 | 81 | 60 | 62 | 52 | 90 | 53 | 75 | 58 | 72 | 58 | 76 | 134 | 0.4% | |
| 1-2 AM | 20 | 30 | 30 | 56 | 30 | 63 | 31 | 60 | 28 | 53 | 28 | 52 | 80 | 0.3% | |
| 2-3 AM | 26 | 27 | 18 | 26 | 27 | 31 | 18 | 26 | 11 | 19 | 20 | 26 | 46 | 0.2% | |
| 3-4 AM | 19 | 33 | 24 | 32 | 29 | 32 | 30 | 38 | 27 | 39 | 26 | 35 | 61 | 0.2% | |
| 4-5 AM | 46 | 45 | 39 | 52 | 48 | 59 | 35 | 50 | 34 | 39 | 40 | 49 | 89 | 0.3% | |
| 5-6 AM | 89 | 167 | 94 | 178 | 97 | 197 | 97 | 145 | 98 | 161 | 95 | 170 | 265 | 0.9% | |
| 6-7 AM | 279 | 402 | 311 | 464 | 290 | 451 | 292 | 439 | 282 | 440 | 291 | 439 | 730 | 2.4% | |
| 7-8 AM | 699 | 846 | 678 | 879 | 653 | 914 | 713 | 888 | 619 | 844 | 672 | 874 | 1547 | 5.2% | |
| 8-9 AM | 1085 | 1274 | 1088 | 1243 | 1027 | 1266 | 1014 | 1326 | 1012 | 1226 | 1045 | 1267 | 2312 | 7.8% | |
| 9-10 AM | 895 | 955 | 867 | 1006 | 900 | 977 | 884 | 869 | 808 | 1057 | 871 | 973 | 1844 | 6.2% | |
| 10-11 AM | 755 | 982 | 825 | 1063 | 778 | 955 | 748 | 856 | 807 | 1111 | 783 | 993 | 1776 | 6.0% | |
| 11-12 PM | 855 | 1134 | 791 | 1055 | 836 | 1152 | 799 | 739 | 806 | 1140 | 817 | 1044 | 1861 | 6.2% | |
| 12-1 PM | 860 | 1127 | 844 | 1088 | 804 | 1122 | 863 | 532 | 848 | 1244 | 844 | 1023 | 1866 | 6.3% | |
| 1-2 PM | 756 | 1148 | 818 | 1163 | ** | ** | 810 | 1002 | 851 | 1233 | 809 | 1137 | 1945 | 6.5% | |
| 2-3 PM | 840 | 1155 | 911 | 1181 | 865 | 1189 | 851 | 1152 | 888 | 1067 | 871 | 1149 | 2020 | 6.8% | |
| 3-4 PM | 951 | 1276 | 948 | *** | 970 | *** | 957 | *** | 905 | *** | 946 | 1276 | 2222 | 7.5% | |
| 4-5 PM | 1042 | 1334 | 1016 | 1298 | 1051 | 1122 | 1049 | 908 | 1052 | 1228 | 1042 | 1178 | 2220 | 7.5% | |
| 5-6 PM | 1013 | 1204 | 933 | 1196 | 1071 | 916 | 1048 | 1262 | 1005 | 1209 | 1014 | 1157 | 2171 | 7.3% | |
| 6-7 PM | 800 | 1070 | 739 | 912 | 850 | 1151 | 934 | 1177 | 891 | 1102 | 843 | 1082 | 1925 | 6.5% | |
| 7-8 PM | 662 | 878 | 582 | 777 | 640 | 912 | 657 | 895 | 740 | 836 | 656 | 860 | 1516 | 5.1% | |
| 8-9 PM | 463 | 685 | 515 | 800 | 490 | 756 | 520 | 844 | 581 | 710 | 514 | 759 | 1273 | 4.3% | |
| 9-10 PM | 341 | 484 | 404 | 643 | 380 | 562 | 446 | 616 | 463 | 603 | 407 | 582 | 988 | 3.3% | |
| 10-11 PM | 181 | 238 | 251 | 315 | 221 | 268 | 234 | 356 | 319 | 441 | 241 | 324 | 565 | 1.9% | |
| 11-12 AM | 122 | 141 | 140 | 189 | 137 | 164 | 136 | 189 | 216 | 271 | 150 | 191 | 341 | 1.1% | |
| LANES | 12864 | 16716 | 12926 | 15678 | 12246 | 14349 | 13219 | 14444 | 13349 | 16145 | 13083 | 16715 | 29797 | 100.0% | |
| TOTAL | 29580 | | 28604 | | 26595 | | 27663 | | 29494 | | 29797 | | | | |
| | MON | WB | TUE | WB | WED | WB | THURS | WB | FRI | WB | WK AVG | | | | |
| MAX. 7 - 9 am PEAK | 2312 | | 7.8% | | between | 8-9 AM | | 11978 | | 6 HR TOTAL | | 2 HOUR PEAK INTERVALS | | | |
| MAX. 7 - 11 am PEAK | 2312 | | 7.8% | | between | 8-9 AM | | 8250 | | 4 HR TOTAL | | 2 HR AM (7 - 9 AM) VEH / HR VEH / 2HR 2 HR % 7-8 AM 1547 3859 13.0% 8-9 AM 2312 | | | |
| MAX. 11 am - 1 pm | 1866 | | 6.3% | | between | 12-1 PM | | 24 HOUR FACTORS | | 2 HR NOON (11 - | | VEH / HR 2 HR % 11-12 PM 1861 3728 12.5% 12-1 PM 1866 | | | |
| MAX. 11 am - 3 pm | 2020 | | 6.8% | | between | 2-3 PM | | | | 2.49 | | 6-24 HR FACT. | | 2 HR PM (4 - 6 PM) | |
| MAX. 4 - 6 pm PEAK | 2220 | | 7.5% | | between | 4-5 PM | | 3.61 | | 4-24 HR FACT. | | VEH / HR VEH / 2HR 2 HR % 4-5 PM 2220 4391 14.7% 5-6 PM 2171 | | | |
| MAX. 3 - 6 pm PEAK | 2222 | | 7.5% | | between | 3-4 PM | | | | | | | | | |

Vehicle Speed Summary

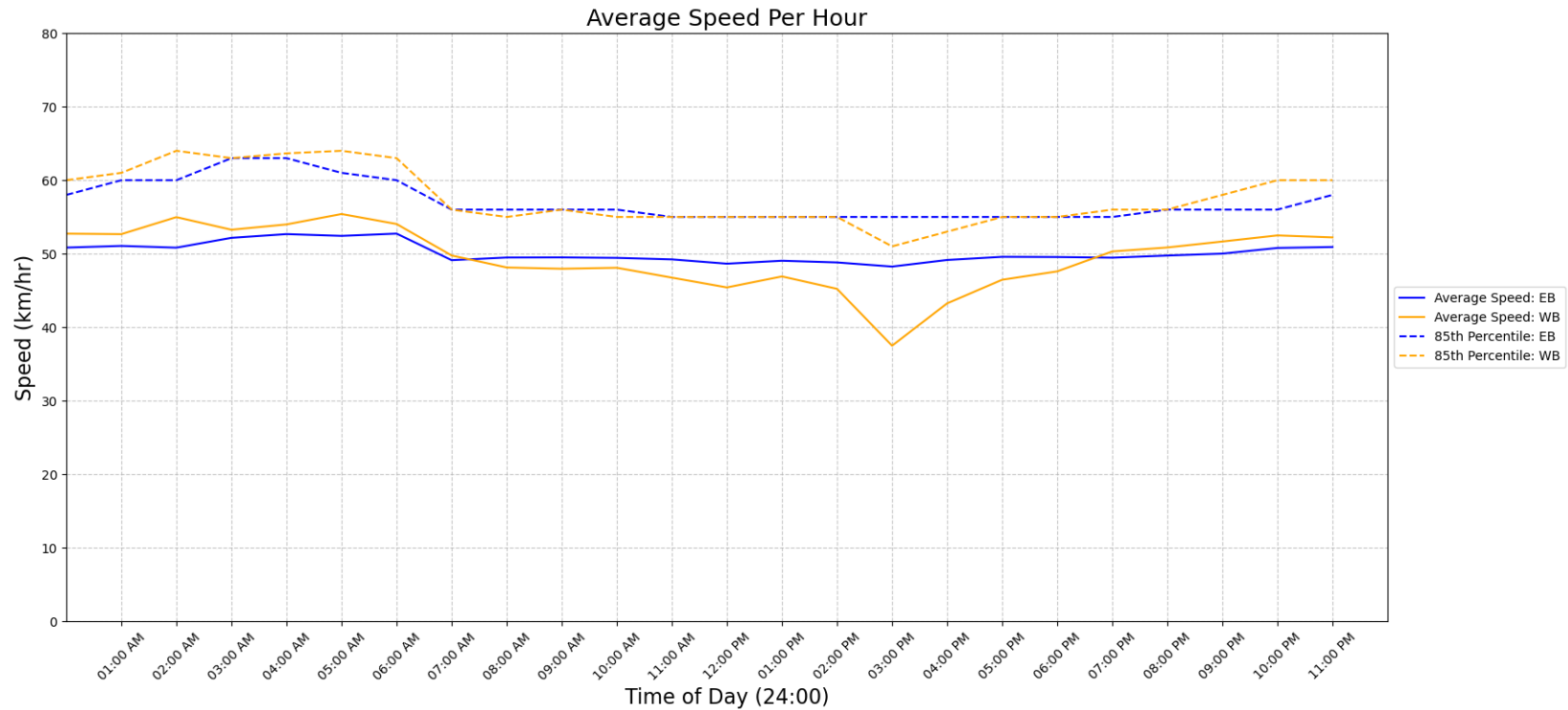


Station ID: M0026-06
 Location: MCKENZIE AVE Between BORDEN AND BLENKINSOP
 Dates: 2023-10-25 to 2023-11-01

| Bin Number | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
|---------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------|
| Bin Speeds | 1-20 | 21-25 | 26-30 | 31-35 | 36-40 | 41-45 | 46-50 | 51-55 | 56-60 | 61-65 | 66-70 | 71-80 | 81-90 | 91-9999 |
| Count Total | 3673 | 882 | 1467 | 5946 | 16600 | 30170 | 62898 | 48423 | 23005 | 6237 | 1631 | 576 | 38 | 20 |
| Percent Total | 2% | 0% | 1% | 3% | 8% | 15% | 31% | 24% | 11% | 3% | 1% | 0% | 0% | 0% |

| Movements | Above 30 km/h | Above 40 km/h | Above 50 km/h |
|-----------|---------------|---------------|---------------|
| EB | 100% | 92% | 41% |
| WB | 95% | 81% | 39% |
| Combined | 97% | 86% | 40% |

| Movements | Average Speed | 85th Percentile Speed | 95th Percentile Speed |
|-----------|---------------|-----------------------|-----------------------|
| EB | 49 km/h | 56 km/h | 60 km/h |
| W/B | 47 km/h | 56 km/h | 60 km/h |
| Combined | 48 km/h | 56 km/h | 60 km/h |



Vehicle Class Summary

Station ID M0026-06
 Location: MCKENZIE AVE Between BORDEN AND BLENKINSOP
 Dates: 2023-10-25 to 2023-11-01



| Classification | Motorcycle | Car & Light Goods Vehicles | Buses & Single Unit Truck | Trailer Truck | Multi-trailer truck |
|----------------|-------------|----------------------------|---------------------------|------------------|---------------------|
| Length | 0m to 2.00m | 2.01m to 7.00m | 7.00m to 15.20m | 15.20m to 22.50m | 22.51m to 999m |

| Movement | Classification | | | | | Total |
|---------------------|----------------|----------------------------|---------------------------|---------------|---------------------|---------|
| | Motorcycle | Car & Light Goods Vehicles | Buses & Single Unit Truck | Trailer Truck | Multi-trailer truck | |
| EB | 1500 | 80362 | 6262 | 302 | 40 | 88466 |
| WB | 9985 | 94777 | 7802 | 438 | 98 | 113100 |
| Total | 11485 | 175139 | 14064 | 740 | 138 | 201566 |
| Percentage of Total | 5.70% | 86.89% | 6.98% | 0.37% | 0.07% | 100.00% |

McKenzie Ave - Borden to Blenkinsop - Oct 30... - ATR

Mon Oct 30, 2023

Full Length (10 AM-4 PM)

All Classes (Motorcycles, Lights, Single-Unit Trucks, Articulated Trucks, Buses)

All Channels

ID: 1158173, Location: 48.471118, -123.356294



McElhanney

Provided by: McElhanney Kamloops
970 McMaster Way, 310, Kamloops, BC, V2C 6K2, CA

| Leg Direction | East Westbound | | | West Eastbound | | | Int |
|-----------------------------|----------------|--------|--------------|----------------|--------|--------------|--------------|
| | Lane 1 | Lane 2 | App | Lane 1 | Lane 2 | App | |
| Time | | | | | | | |
| 2023-10-30 10:00AM | 456 | 368 | 824 | 221 | 514 | 735 | 1559 |
| 11:00AM | 552 | 431 | 983 | 251 | 630 | 881 | 1864 |
| 12:00PM | 524 | 451 | 975 | 262 | 640 | 902 | 1877 |
| 1:00PM | 538 | 474 | 1012 | 237 | 603 | 840 | 1852 |
| 2:00PM | 536 | 470 | 1006 | 280 | 642 | 922 | 1928 |
| 3:00PM | 577 | 699 | 1276 | 325 | 717 | 1042 | 2318 |
| Total | 3183 | 2893 | 6076 | 1576 | 3746 | 5322 | 11398 |
| % Approach | 52.4% | 47.6% | - | 29.6% | 70.4% | - | - |
| % Total | 27.9% | 25.4% | 53.3% | 13.8% | 32.9% | 46.7% | - |
| Motorcycles | 9 | 14 | 23 | 5 | 10 | 15 | 38 |
| % Motorcycles | 0.3% | 0.5% | 0.4% | 0.3% | 0.3% | 0.3% | 0.3% |
| Lights | 2940 | 2814 | 5754 | 1464 | 3612 | 5076 | 10830 |
| % Lights | 92.4% | 97.3% | 94.7% | 92.9% | 96.4% | 95.4% | 95.0% |
| Single-Unit Trucks | 131 | 42 | 173 | 44 | 87 | 131 | 304 |
| % Single-Unit Trucks | 4.1% | 1.5% | 2.8% | 2.8% | 2.3% | 2.5% | 2.7% |
| Articulated Trucks | 34 | 7 | 41 | 18 | 21 | 39 | 80 |
| % Articulated Trucks | 1.1% | 0.2% | 0.7% | 1.1% | 0.6% | 0.7% | 0.7% |
| Buses | 69 | 16 | 85 | 45 | 16 | 61 | 146 |
| % Buses | 2.2% | 0.6% | 1.4% | 2.9% | 0.4% | 1.1% | 1.3% |

McKenzie Ave - Borden to Blenkinsop - Oct 30... - ATR
Mon Oct 30, 2023
Full Length (10 AM-4 PM)
All Classes (Motorcycles, Lights, Single-Unit Trucks, Articulated Trucks, Buses)
All Channels
ID: 1158173, Location: 48.471118, -123.356294



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McKenzie Ave - Borden to Blenkinsop - Oct 30... - ATR

Mon Oct 30, 2023

AM Peak (10 AM - 11 AM)

All Classes (Motorcycles, Lights, Single-Unit Trucks, Articulated Trucks, Buses)

All Channels

ID: 1158173, Location: 48.471118, -123.356294



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970 McMaster Way, 310, Kamloops, BC, V2C 6K2, CA

| Leg Direction | East Westbound | | | West Eastbound | | | Int |
|-----------------------------|----------------|--------|-------|----------------|--------|-------|-------|
| | Lane 1 | Lane 2 | App | Lane 1 | Lane 2 | App | |
| Time | | | | | | | |
| 2023-10-30 10:00AM | 112 | 92 | 204 | 44 | 114 | 158 | 362 |
| 10:15AM | 121 | 88 | 209 | 59 | 129 | 188 | 397 |
| 10:30AM | 111 | 108 | 219 | 67 | 135 | 202 | 421 |
| 10:45AM | 112 | 80 | 192 | 51 | 136 | 187 | 379 |
| Total | 456 | 368 | 824 | 221 | 514 | 735 | 1559 |
| % Approach | 55.3% | 44.7% | - | 30.1% | 69.9% | - | - |
| % Total | 29.2% | 23.6% | 52.9% | 14.2% | 33.0% | 47.1% | - |
| PHF | 0.942 | 0.852 | 0.941 | 0.825 | 0.945 | 0.910 | 0.926 |
| Motorcycles | 1 | 1 | 2 | 0 | 0 | 0 | 2 |
| % Motorcycles | 0.2% | 0.3% | 0.2% | 0% | 0% | 0% | 0.1% |
| Lights | 419 | 357 | 776 | 200 | 489 | 689 | 1465 |
| % Lights | 91.9% | 97.0% | 94.2% | 90.5% | 95.1% | 93.7% | 94.0% |
| Single-Unit Trucks | 20 | 8 | 28 | 12 | 16 | 28 | 56 |
| % Single-Unit Trucks | 4.4% | 2.2% | 3.4% | 5.4% | 3.1% | 3.8% | 3.6% |
| Articulated Trucks | 10 | 1 | 11 | 3 | 9 | 12 | 23 |
| % Articulated Trucks | 2.2% | 0.3% | 1.3% | 1.4% | 1.8% | 1.6% | 1.5% |
| Buses | 6 | 1 | 7 | 6 | 0 | 6 | 13 |
| % Buses | 1.3% | 0.3% | 0.8% | 2.7% | 0% | 0.8% | 0.8% |

McKenzie Ave - Borden to Blenkinsop - Oct
30... - ATR
Mon Oct 30, 2023
AM Peak (10 AM - 11 AM)
All Classes (Motorcycles, Lights, Single-Unit
Trucks, Articulated Trucks, Buses)
All Channels
ID: 1158173, Location: 48.471118, -123.356294



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970 McMaster Way, 310, Kamloops, BC, V2C 6K2, CA



McKenzie Ave - Borden to Blenkinsop - Oct

30... - ATR

Mon Oct 30, 2023

Midday Peak (12:15 PM - 1:15 PM)

All Classes (Motorcycles, Lights, Single-Unit Trucks, Articulated Trucks, Buses)

All Channels

ID: 1158173, Location: 48.471118, -123.356294



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| Leg Direction | East Westbound | | | West Eastbound | | | Int |
|-----------------------------|----------------|--------|-------|----------------|--------|-------|-------|
| | Lane 1 | Lane 2 | App | Lane 1 | Lane 2 | App | |
| Time | | | | | | | |
| 2023-10-30 12:15PM | 134 | 129 | 263 | 76 | 163 | 239 | 502 |
| 12:30PM | 127 | 101 | 228 | 69 | 163 | 232 | 460 |
| 12:45PM | 136 | 113 | 249 | 65 | 178 | 243 | 492 |
| 1:00PM | 134 | 120 | 254 | 61 | 154 | 215 | 469 |
| Total | 531 | 463 | 994 | 271 | 658 | 929 | 1923 |
| % Approach | 53.4% | 46.6% | - | 29.2% | 70.8% | - | - |
| % Total | 27.6% | 24.1% | 51.7% | 14.1% | 34.2% | 48.3% | - |
| PHF | 0.976 | 0.897 | 0.945 | 0.891 | 0.924 | 0.956 | 0.958 |
| Motorcycles | 4 | 3 | 7 | 2 | 0 | 2 | 9 |
| % Motorcycles | 0.8% | 0.6% | 0.7% | 0.7% | 0% | 0.2% | 0.5% |
| Lights | 492 | 453 | 945 | 250 | 630 | 880 | 1825 |
| % Lights | 92.7% | 97.8% | 95.1% | 92.3% | 95.7% | 94.7% | 94.9% |
| Single-Unit Trucks | 26 | 5 | 31 | 10 | 21 | 31 | 62 |
| % Single-Unit Trucks | 4.9% | 1.1% | 3.1% | 3.7% | 3.2% | 3.3% | 3.2% |
| Articulated Trucks | 0 | 0 | 0 | 3 | 2 | 5 | 5 |
| % Articulated Trucks | 0% | 0% | 0% | 1.1% | 0.3% | 0.5% | 0.3% |
| Buses | 9 | 2 | 11 | 6 | 5 | 11 | 22 |
| % Buses | 1.7% | 0.4% | 1.1% | 2.2% | 0.8% | 1.2% | 1.1% |

McKenzie Ave - Borden to Blenkinsop - Oct 30... - ATR
Mon Oct 30, 2023
Midday Peak (12:15 PM - 1:15 PM)
All Classes (Motorcycles, Lights, Single-Unit Trucks, Articulated Trucks, Buses)
All Channels
ID: 1158173, Location: 48.471118, -123.356294



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970 McMaster Way, 310, Kamloops, BC, V2C 6K2, CA



McKenzie Ave - Borden to Blenkinsop - Oct 30... - ATR

Mon Oct 30, 2023

PM Peak (3 PM - 4 PM) - Overall Peak Hour

All Classes (Motorcycles, Lights, Single-Unit Trucks, Articulated Trucks, Buses)

All Channels

ID: 1158173, Location: 48.471118, -123.356294



McElhanney

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970 McMaster Way, 310, Kamloops, BC, V2C 6K2, CA

| Leg Direction | East Westbound | | | West Eastbound | | | Int |
|-----------------------------|----------------|--------|-------|----------------|--------|-------|-------|
| | Lane 1 | Lane 2 | App | Lane 1 | Lane 2 | App | |
| Time | | | | | | | |
| 2023-10-30 3:00PM | 174 | 180 | 354 | 85 | 197 | 282 | 636 |
| 3:15PM | 133 | 164 | 297 | 71 | 166 | 237 | 534 |
| 3:30PM | 140 | 188 | 328 | 80 | 175 | 255 | 583 |
| 3:45PM | 130 | 167 | 297 | 89 | 179 | 268 | 565 |
| Total | 577 | 699 | 1276 | 325 | 717 | 1042 | 2318 |
| % Approach | 45.2% | 54.8% | - | 31.2% | 68.8% | - | - |
| % Total | 24.9% | 30.2% | 55.0% | 14.0% | 30.9% | 45.0% | - |
| PHF | 0.829 | 0.930 | 0.901 | 0.913 | 0.910 | 0.924 | 0.911 |
| Motorcycles | 1 | 2 | 3 | 2 | 4 | 6 | 9 |
| % Motorcycles | 0.2% | 0.3% | 0.2% | 0.6% | 0.6% | 0.6% | 0.4% |
| Lights | 532 | 684 | 1216 | 310 | 705 | 1015 | 2231 |
| % Lights | 92.2% | 97.9% | 95.3% | 95.4% | 98.3% | 97.4% | 96.2% |
| Single-Unit Trucks | 22 | 8 | 30 | 1 | 4 | 5 | 35 |
| % Single-Unit Trucks | 3.8% | 1.1% | 2.4% | 0.3% | 0.6% | 0.5% | 1.5% |
| Articulated Trucks | 4 | 2 | 6 | 1 | 1 | 2 | 8 |
| % Articulated Trucks | 0.7% | 0.3% | 0.5% | 0.3% | 0.1% | 0.2% | 0.3% |
| Buses | 18 | 3 | 21 | 11 | 3 | 14 | 35 |
| % Buses | 3.1% | 0.4% | 1.6% | 3.4% | 0.4% | 1.3% | 1.5% |

McKenzie Ave - Borden to Blenkinsop - Oct 30... - ATR
Mon Oct 30, 2023
PM Peak (3 PM - 4 PM) - Overall Peak Hour
All Classes (Motorcycles, Lights, Single-Unit Trucks, Articulated Trucks, Buses)
All Channels
ID: 1158173, Location: 48.471118, -123.356294



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