

Ministry of Transportation

WARS 2000

Wildlife Accident Reporting System

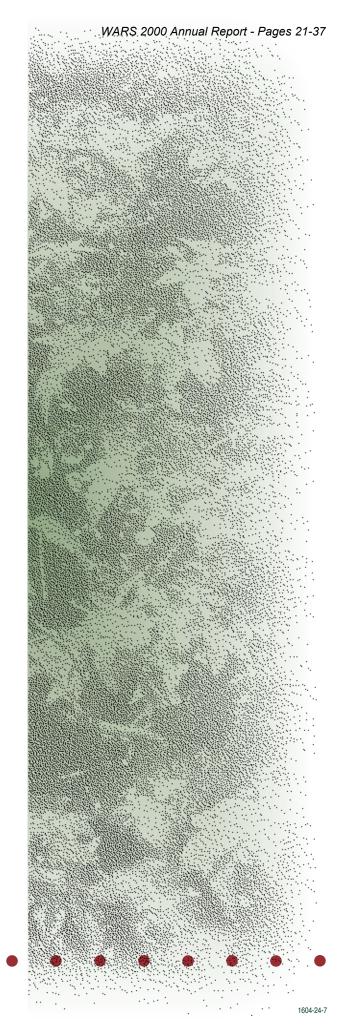
2000 Annual Report

(1991 to 2000 Synopsis)

Ministry of Transportation

Engineering Branch
Environmental Management Section

940 Blanshard Street
PO BOX 9850 STN PROV GOVT
Victoria, British Columbia V8W 9T5



WARS Wildlife Accident Reporting System

2000 Annual Report

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APPENDIX A

Wildlife Accident Reporting System (WARS) form H-107 (2001/06)

APPENDIX B

Ministry Maintenance Contract Areas

APPENDIX C

Wildlife Warning Reflector Installations (April 2001)

WILDLIFE ACCIDENT LOCATIONS

Wildlife Accident Location Reporting

Accurate reporting of wildlife accident locations is critical for effectively identifying and evaluating accident patterns. Historically, not all WARS report forms have been completed with diligence. In particular, the accuracy of accident locations has varied considerably. In 1995, 28% of the WARS report forms lacked valid segment numbers and 44% lacked valid km references. The situation is improving. In 2000, 20% of the report forms received lacked valid LKI segment numbers and 31% lacked valid LKI kilometre references.

Some confusion exists between the use of the Road Features Inventory (RFI) and the LKI systems for identifying wildlife accident locations. Ministry Maintenance Contractors use the RFI system for locating highway features and structures such as bridges, signs, etc. The WARS system uses the LKI system for locating wildlife accidents. Wildlife accidents reported with RFI references are often converted to LKI references by Ministry Maintenance Contractors staff or Ministry staff. Errors can occur during data conversion.

The impact of the lack of accurate location information on accident analysis has been compounded by earlier problematic data entry procedures at MoT Headquarters. Previously, if a kilometre reference was not reported for an accident, the value "0" was often entered into the WARS database for the kilometre reference. This reduced the quality of the WARS database location information by confusing accidents that occurred at the beginning of an LKI segment with those accidents with incomplete location information.

At this time, while it is very unlikely wildlife accidents occur uniformly along any segment of highway in British Columbia, the most accurate way to display accidents recorded in the WARS database provincially is by the LKI segment. Within each LKI segment, it is most probable certain locations experience higher than average wildlife-related accident rates. Such locations can only be identified when wildlife accidents are consistently reported with accurate and complete kilometre references. Ideally, Geographic Positioning System (GPS) devices could be used to establish much more accurate locations.

Wildlife Accident Location Rankings by Species

Wildlife-related motor vehicle accidents vary dramatically by location in British Columbia. Depending on where highways are located within specific wildlife habitats, accident rates vary for the different wild animal species. Table 8 shows the ten LKI segments of numbered Provincial highways with the highest accident rates per km per year, for deer, moose, elk, bear, sheep, coyote, and porcupines, for the period between 1991 and 2000.

Wildlife Accident Locations by Species Maps

The general locations of wildlife accidents for deer, moose, bear, elk, coyote, sheep and porcupine, reported by LKI segment numbers on numbered Provincial highways, are shown on Maps 5 through 18. Maps 5, 7, 9, 11, 13, 15, and 17 show the gross numbers of wildlife accidents reported on each segment from 1991 to 2000. Maps 6, 8, 10, 12, 14, 16, and 18 show wildlife accidents as distributed per kilometre per year between 1991 to 2000.

Table 8. Top Ten Wildlife Accident Location Rankings by Species (Accidents/km/year) (1991 to 2000)

| DEER | Rank | Highway | LKI Segment | Description | l ou mile (lene) | A a sid and a floor to a second | |
|-------|------|---------|-------------|---|------------------|---------------------------------|-------------|
| | 1 | 3 | 1325 | OSOYOOS - CASCADE | 147.21 | Accidents/km/year 1.683 | |
| | 2 | 97 | 1115 | KALEDEN (JCT 3A) - DROUGHT HILL I/C (JCT RTE 97C) | 57.61 | 1.486 | 2477 |
| | 3 | 49 | 1197 | DAWSON CREEK - ALBERTA | 57.61 15.81 | | 856 |
| | 4 | 33 | 1327 | ROCK CREEK - RUTLAND | 128.88 | 1.392 1.370 | 220 |
| | 5 | 3/93 | 1385 | CRANBROOK - ELKO | 52.94 | 1.215 | 1766 643 |
| | 6 | 3/95 | 1380 | YAHK - CRANBROOK | 71.94 | 1.154 | 830 |
| | 7 | 5A | 1710 | RTE 97C/5A ASPEN GROVE TO COLDWATER I/C | 23.65 | 0.888 | 210 |
| | 8 | 3A | 1363 | NELSON - BALFOUR | 33.90 | 0.876 | 297 |
| | 9 | 95A | 2115 | CRANBROOK - WASA | 55.40 | 0.850 | 471 |
| | 10 | 3 | 1375 | CRESTON - YAHK | 40.00 | 0.828 | 331 |
| MOOSE | | Highway | LKI Segment | Description | | Accidents/km/year | |
| | 1 | 97 | 1175 | DAWSON CREEK - FORT ST JOHN | 72.73 | 0.252 | 183 |
| | 2 | 16 | 1570 | PRINCE GEORGE: RTE 97 ON BYPASS - BOEING RD | 8.60 | 0.232 | 19 |
| | 3 | 16 | 1580 | DOME CREEK - TETE JAUNE | 146.27 | 0.158 | 231 |
| | 4 | 16 | 1590 | TETE JEUNE - ALBERTA | 76.99 | 0.155 | 119 |
| | 5 | 16 | 1540 | HOUSTON - BURNS LAKE | 81.28 | 0.116 | 94 |
| | 6 | 5 | 1780 | AVOLA - TETE JAUNE | 147.95 | 0.105 | 156 |
| | 7 | 16 | 1575 | PRINCE GEORGE - DOME CREEK | 120.19 | 0.104 | 125 |
| • | 8 | 97 | 1170 | CHETWYND - DAWSON CREEK | 100.02 | 0.103 | 103 |
| | 9 | 16 | 1520 | HAZELTON - HOUSTON | 131.69 | 0.980 | 1291 |
| | 10 | 97 | 1160 | PARSNIP RIVER - CHETWYND | 149.26 | 0.878 | 1311 |
| ELK | Rank | Highway | LKI Segment | Description | Length (km) | Accidents/km/year | |
| | 1 | 3/93 | 1385 | CRANBROOK - ELKO | 52.94 | 0.196 | 104 |
| | 2 | 3 | 1395 | ELKO - ALBERTA | 80.45 | 0.185 | 149 |
| | 3 | 93/95 | 2140 | WASA - RADIUM | 102.51 | 0.141 | 145 |
| | 4 | 3/95 | 1380 | YAHK - CRANBROOK | 71.94 | 0.115 | 83 |
| | 5 | 93/95 | 2135 | FORT STEELE - WASA | 31.66 | 0.114 | 36 |
| | 6 | 43 | 1397 | SPARWOOD - ELKFORD | 34.56 | 0.081 | 28 |
| | 7 | 3 | 1375 | CRESTON - YAHK | 40.00 | 0.080 | 32 |
| | 8 | 93 | 2150 | RADIUM - KOOTENAY PARK | 1.27 | 0.079 | 1 |
| | 9 | 41 | 1326 | USA BORDER - GRAND FORKS | 1.29 | 0.078 | 1 |
| | 10 | 95A | 2115 | CRANBROOK - WASA | 55.40 | 0.069 | 38 |
| BEAR | | Highway | LKI Segment | Description | Length (km) | Accidents/km/year | Total |
| | 1 | 1 | 0570 | MT LEHMAN - PEARDONVILLE U/P | 2.22 | 0.901 | 20 |
| | 2 | 3/6 | 1360 | SALMO - BURNT FLAT | 14.31 | 0.419 | 60 |
| | 3 | 3A | 1356 | OOTISCHENIA (CASTLEGAR) - S SLOCAN | 19.66 | 0.407 | 80 |

| 1 | 4 | 1 | 0950 | SALMON ARM - SICAMOUS | 27.19 | 0.331 | 90 |
|-----------|---|--|--|--|--|---|--|
| | 5 | 19 | 2395 | BEAVER COVE - BEAR COVE | 48.56 | 0.329 | 160 |
| | 6 | 3 | 1395 | ELKO - ALBERTA | 80.45 | 0.323 | 260 |
| | 7 | 1 | 0905 | JCT OLD RTE 3 (HOPE) - RTE 12 (LYTTON) | 108.54 | 0.313 | 340 |
| | 8 | 22 | 1340 | TRAIL - CASTLEGAR | 26.48 | 0.302 | 80 |
| | 9 | 5A | 1710 | RTE 97C/5A ASPEN GROVE TO COLDWATER I/C | 23.65 | 0.296 | 70 |
| | 10 | 16 | 1580 | DOME CREEK - TETE JAUNE | 146.27 | 0.273 | 399 |
| SHEEP | Rank | Highway | LKI Segment | Description | | Accidents/km/year | Total |
| | 1 | 1 | 0915 | SPENCES BRIDGE - JCTN RTE 97C (N ASHCROFT ACCESS LOOP) | 44.34 | 0.090 | 40 |
| | 2 | 97 | 1110 | OSOYOOS - KALEDEN JCT | 47.09 | 0.019 | 9 |
| | 3 | 3 | 1395 | ELKO - ALBERTA | 80.45 | 0.016 | 13 |
| | 4 | 3 | 1365 | BURNT FLAT - CRESTON | 66.70 | 0.015 | 10 |
| | 5 | 97 | 1115 | KALEDEN (JCT 3A) - DROUGHT HILL I/C (JCT RTE 97C) | 57.61 | 0.007 | 4 |
| | 6 | 1 | 0985 | GLACIER PARK - GOLDEN | 56.06 | 0.005 | 3 |
| | 7 | 3 | 1320 | KEREMEOS - OSOYOOS | 46.16 | 0.004 | 2 |
| | 8 | 31 | 1367 | BALFOUR - LARDEAU | 75.59 | 0.004 | 3 |
| | 9 | 93/95 | 2140 | WASA - RADIUM | 102.51 | 0.004 | 4 |
| | 10 | 3 | 1310 | PRINCETON - KEREMEOS | 67.31 | 0.003 | 2 |
| COYOTE | Rank | Highway | LKI Segment | Description | | Accidents/km/year | |
| | 1 | 1 | 0570 | MT LEHMAN - PEARDONVILLE U/P | 2.22 | 1.892 | 42 |
| | 2 | 10 | 3120 | GLOVER RD - SPRINGBROOK RD | 3.61 | 0.111 | 4 |
| | 3 | 1 | 0920 | CACHE CREEK - JCT RTE 5 (AFTON) KAMLOOPS | 71.99 | 0.082 | 59 |
| | 4 | 5A | 1710 | RTE 97C/5A ASPEN GROVE TO COLDWATER I/C | 23.65 | 0.063 | 15 |
| | | | 11.19 | | | | |
| | 5 | 1 | 0575 | BRIDAL FALLS - RTE 11 | 43.51 | 0.053 | 23 |
| | 5 6 | 1 11 | 0575 2744 | S JCTN BYPASS (RTE 1A)/RTE 11 - RTE 7 (MISSION) | 43.51 9.99 | 0.053 0.050 | 23 5 |
| | | 1 | 0575 | | 43.51 9.99 57.61 | 0.053 0.050 0.043 | 23 5 25 |
| | 6 | 1 11 | 0575 2744 | S JCTN BYPASS (RTE 1A)/RTE 11 - RTE 7 (MISSION) | 43.51 9.99 57.61 55.21 | 0.053 0.050 0.043 0.042 | 23 5 25 23 |
| | 6 7 | 1 11 97 1 7 | 0575 2744 1115 0550 2710 | S JCTN BYPASS (RTE 1A)/RTE 11 - RTE 7 (MISSION) KALEDEN (JCT 3A) - DROUGHT HILL I/C (JCT RTE 97C) RTE 1: 264TH ST - MT LEHMAN BURNABY - PORT COQUITLAM | 43.51 9.99 57.61 55.21 21.13 | 0.053 0.050 0.043 0.042 0.033 | 23 5 25 23 7 |
| | 6 7 8 | 1 11 97 1 | 0575 2744 1115 0550 | S JCTN BYPASS (RTE 1A)/RTE 11 - RTE 7 (MISSION) KALEDEN (JCT 3A) - DROUGHT HILL I/C (JCT RTE 97C) RTE 1: 264TH ST - MT LEHMAN | 43.51 9.99 57.61 55.21 21.13 3.37 | 0.053 0.050 0.043 0.042 0.033 0.030 | 23 5 25 23 7 1 |
| PORCUPINE | 6 7 8 9 10 | 1 11 97 1 7 | 0575 2744 1115 0550 2710 2742 | S JCTN BYPASS (RTE 1A)/RTE 11 - RTE 7 (MISSION) KALEDEN (JCT 3A) - DROUGHT HILL I/C (JCT RTE 97C) RTE 1: 264TH ST - MT LEHMAN BURNABY - PORT COQUITLAM | 43.51 9.99 57.61 55.21 21.13 3.37 Length (km) | 0.053 0.050 0.043 0.042 0.033 0.030 Accidents/km/year | 23 5 25 23 7 1 |
| PORCUPINE | 6 7 8 9 10 | 1 11 97 1 7 | 0575 2744 1115 0550 2710 2742 LKI Segment 1505 | S JCTN BYPASS (RTE 1A)/RTE 11 - RTE 7 (MISSION) KALEDEN (JCT 3A) - DROUGHT HILL I/C (JCT RTE 97C) RTE 1: 264TH ST - MT LEHMAN BURNABY - PORT COQUITLAM HUNTINGDON CUSTOMS: RTE 1 (ABBOTSFORD) | 43.51 9.99 57.61 55.21 21.13 3.37 Length (km) 150.64 | 0.053 0.050 0.043 0.042 0.033 0.030 Accidents/km/year 0.088 | 23 5 25 23 7 1 Total 133 |
| PORCUPINE | 6 7 8 9 10 Rank | 1 11 97 1 7 11 Highway 16 1 | 0575 2744 1115 0550 2710 2742 LKI Segment 1505 0570 | S JCTN BYPASS (RTE 1A)/RTE 11 - RTE 7 (MISSION) KALEDEN (JCT 3A) - DROUGHT HILL I/C (JCT RTE 97C) RTE 1: 264TH ST - MT LEHMAN BURNABY - PORT COQUITLAM HUNTINGDON CUSTOMS: RTE 1 (ABBOTSFORD) Description | 43.51 9.99 57.61 55.21 21.13 3.37 Length (km) 150.64 2.22 | 0.053 0.050 0.043 0.042 0.033 0.030 Accidents/km/year 0.088 0.045 | 23 5 25 23 7 1 Total 133 1 |
| PORCUPINE | 6 7 8 9 10 Rank 1 | 1 11 97 1 7 11 Highway 16 | 0575 2744 1115 0550 2710 2742 LKI Segment 1505 | S JCTN BYPASS (RTE 1A)/RTE 11 - RTE 7 (MISSION) KALEDEN (JCT 3A) - DROUGHT HILL I/C (JCT RTE 97C) RTE 1: 264TH ST - MT LEHMAN BURNABY - PORT COQUITLAM HUNTINGDON CUSTOMS: RTE 1 (ABBOTSFORD) Description PRINCE RUPERT - TERRACE | 43.51 9.99 57.61 55.21 21.13 3.37 Length (km) 150.64 2.22 93.53 | 0.053 0.050 0.043 0.042 0.033 0.030 Accidents/km/year 0.088 | 23 5 25 23 7 1 Total 133 1 42 |
| PORCUPINE | 6 7 8 9 10 Rank 1 2 | 1 97 1 7 11 Highway 16 1 37 | 0575 2744 1115 0550 2710 2742 LKI Segment 1505 0570 3730 1520 | S JCTN BYPASS (RTE 1A)/RTE 11 - RTE 7 (MISSION) KALEDEN (JCT 3A) - DROUGHT HILL I/C (JCT RTE 97C) RTE 1: 264TH ST - MT LEHMAN BURNABY - PORT COQUITLAM HUNTINGDON CUSTOMS: RTE 1 (ABBOTSFORD) Description PRINCE RUPERT - TERRACE MT LEHMAN - PEARDONVILLE U/P | 43.51 9.99 57.61 55.21 21.13 3.37 Length (km) 150.64 2.22 93.53 131.69 | 0.053 0.050 0.043 0.042 0.033 0.030 Accidents/km/year 0.088 0.045 0.045 0.045 | 23 5 25 23 7 1 Total 133 1 42 56 |
| PORCUPINE | 6 7 8 9 10 Rank 1 2 3 | 1 11 97 1 7 11 Highway 16 1 37 16 37 | 0575 2744 1115 0550 2710 2742 LKI Segment 1505 0570 3730 | S JCTN BYPASS (RTE 1A)/RTE 11 - RTE 7 (MISSION) KALEDEN (JCT 3A) - DROUGHT HILL I/C (JCT RTE 97C) RTE 1: 264TH ST - MT LEHMAN BURNABY - PORT COQUITLAM HUNTINGDON CUSTOMS: RTE 1 (ABBOTSFORD) Description PRINCE RUPERT - TERRACE MT LEHMAN - PEARDONVILLE U/P MEZIADIN LAKE JCT - NORTH BELL IRVING | 43.51 9.99 57.61 55.21 21.13 3.37 Length (km) 150.64 2.22 93.53 131.69 58.87 | 0.053 0.050 0.043 0.042 0.033 0.030 Accidents/km/year 0.088 0.045 0.045 0.043 0.043 | 23 5 25 23 7 1 Total 133 1 42 56 22 |
| PORCUPINE | 6 7 8 9 10 Rank 1 2 3 4 | 1 11 97 1 7 11 Highway 16 1 37 16 37 | 0575 2744 1115 0550 2710 2742 LKI Segment 1505 0570 3730 1520 | S JCTN BYPASS (RTE 1A)/RTE 11 - RTE 7 (MISSION) KALEDEN (JCT 3A) - DROUGHT HILL I/C (JCT RTE 97C) RTE 1: 264TH ST - MT LEHMAN BURNABY - PORT COQUITLAM HUNTINGDON CUSTOMS: RTE 1 (ABBOTSFORD) Description PRINCE RUPERT - TERRACE MT LEHMAN - PEARDONVILLE U/P MEZIADIN LAKE JCT - NORTH BELL IRVING HAZELTON - HOUSTON | 43.51 9.99 57.61 55.21 21.13 3.37 Length (km) 150.64 2.22 93.53 131.69 58.87 75.96 | 0.053 0.050 0.043 0.042 0.033 0.030 Accidents/km/year 0.088 0.045 0.045 0.045 0.043 0.037 0.028 | 23 5 25 23 7 1 Total 133 1 42 56 22 21 |
| PORCUPINE | 6 7 8 9 10 Rank 1 2 3 4 5 | 1 11 97 1 7 11 Highway 16 1 37 16 37 37 | 0575 2744 1115 0550 2710 2742 LKI Segment 1505 0570 3730 1520 1514 3710 1570 | S JCTN BYPASS (RTE 1A)/RTE 11 - RTE 7 (MISSION) KALEDEN (JCT 3A) - DROUGHT HILL I/C (JCT RTE 97C) RTE 1: 264TH ST - MT LEHMAN BURNABY - PORT COQUITLAM HUNTINGDON CUSTOMS: RTE 1 (ABBOTSFORD) Description PRINCE RUPERT - TERRACE MT LEHMAN - PEARDONVILLE U/P MEZIADIN LAKE JCT - NORTH BELL IRVING HAZELTON - HOUSTON KITIMAT - TERRACE KITWANGA - CRANBERRY JCT PRINCE GEORGE: RTE 97 ON BYPASS - BOEING RD | 43.51 9.99 57.61 55.21 21.13 3.37 Length (km) 150.64 2.22 93.53 131.69 58.87 75.96 8.60 | 0.053 0.050 0.043 0.042 0.033 0.030 Accidents/km/year 0.088 0.045 0.045 0.045 0.043 0.037 0.028 0.023 | 23 5 25 23 7 1 Total 133 1 42 56 22 21 2 |
| PORCUPINE | 6 7 8 9 10 Rank 1 2 3 4 5 6 | 1 11 97 1 7 11 Highway 16 1 37 16 37 16 37 | 0575 2744 1115 0550 2710 2742 LKI Segment 1505 0570 3730 1520 1514 3710 1570 1510 | S JCTN BYPASS (RTE 1A)/RTE 11 - RTE 7 (MISSION) KALEDEN (JCT 3A) - DROUGHT HILL I/C (JCT RTE 97C) RTE 1: 264TH ST - MT LEHMAN BURNABY - PORT COQUITLAM HUNTINGDON CUSTOMS: RTE 1 (ABBOTSFORD) Description PRINCE RUPERT - TERRACE MT LEHMAN - PEARDONVILLE U/P MEZIADIN LAKE JCT - NORTH BELL IRVING HAZELTON - HOUSTON KITIMAT - TERRACE KITWANGA - CRANBERRY JCT | 43.51 9.99 57.61 55.21 21.13 3.37 Length (km) 150.64 2.22 93.53 131.69 58.87 75.96 8.60 90.73 | 0.053 0.050 0.043 0.042 0.033 0.030 Accidents/km/year 0.088 0.045 0.045 0.045 0.045 0.043 0.037 0.028 0.023 0.021 | 23 5 25 23 7 1 Total 133 1 42 56 22 21 2 |
| PORCUPINE | 6 7 8 9 10 Rank 1 2 3 4 5 6 7 | 1 11 97 1 7 11 Highway 16 1 37 16 37 37 | 0575 2744 1115 0550 2710 2742 LKI Segment 1505 0570 3730 1520 1514 3710 1570 | S JCTN BYPASS (RTE 1A)/RTE 11 - RTE 7 (MISSION) KALEDEN (JCT 3A) - DROUGHT HILL I/C (JCT RTE 97C) RTE 1: 264TH ST - MT LEHMAN BURNABY - PORT COQUITLAM HUNTINGDON CUSTOMS: RTE 1 (ABBOTSFORD) Description PRINCE RUPERT - TERRACE MT LEHMAN - PEARDONVILLE U/P MEZIADIN LAKE JCT - NORTH BELL IRVING HAZELTON - HOUSTON KITIMAT - TERRACE KITWANGA - CRANBERRY JCT PRINCE GEORGE: RTE 97 ON BYPASS - BOEING RD | 43.51 9.99 57.61 55.21 21.13 3.37 Length (km) 150.64 2.22 93.53 131.69 58.87 75.96 8.60 | 0.053 0.050 0.043 0.042 0.033 0.030 Accidents/km/year 0.088 0.045 0.045 0.045 0.043 0.037 0.028 0.023 | 23 5 25 23 7 1 Total 133 1 42 56 22 21 2 |

