

Snow Survey and Water Supply Bulletin – January 1st, 2019

The January 1st snow survey is now complete. Data from 69 manual snow courses and 80 automated snow weather stations around the province (collected by the Ministry of Environment Snow Survey Program, BC Hydro and partners), and climate data from Environment and Climate Change Canada and the provincial Climate Related Monitoring Program have been used to form the basis of the following report¹.

Weather

Fall and early winter weather had been variable across the province. October featured near normal (-0.5 to 0.5 °C) temperatures across most of the province, with areas in south-west BC reaching between 1 to 2 °C above normal. Except for the Okanagan and South Interior, the province generally experienced below normal precipitation in October.

In early November, a series of storm events impacted south-west BC with heavy rain. The second half of the month featured more stable weather with less precipitation. Total monthly precipitation was generally near normal across the province. Temperatures were generally above normal (+1 to +2 °C) for southern BC, and well above normal (+1 to +5 °C) in central and northern BC.

A dramatic shift in weather patterns occurred in early/mid-December, bringing a series of Pacific storms. These caused significant precipitation across much of the province, particularly south-west BC. Precipitation anomalies for December were in the 120-160% of normal range in southern BC, and closer to normal in other areas of the province. Temperatures remained well above normal through December, with more modest temperature anomalies in south-west BC (+0.5 to +1.5 °C) and more significant anomalies in the BC Interior (+2 to +5 °C).

Snowpack

Snow basin indices for January 1st 2019 range from a low of 61% of normal in the Stikine to a high of 109% in the Upper Fraser West, Upper Fraser East and North Thompson (Table 1 and Figure 1). Generally, the province has near normal snow pack for January 1st, with the average of all snow measurements across the province at 96%. Below normal snowpack (60-80% of normal) is present in the Stikine, Nicola, and Liard. Near normal snowpacks (80-110%) are present throughout the rest of the province.

Early season snowpack was slow to develop this year, with near record low snowpack being observed at automated snow weather stations on December 1st. Rapid snow accumulation has occurred since mid-December in the wake of numerous storm events that have impacted the province. Much of the current snowpack has developed over the past 4 weeks.

Warmer temperatures in November and December created high freezing levels during several storm events. This led to precipitation as rain and in-season snowmelt in low- to

1. Every effort is made to ensure that data reported on these pages are accurate. However, in order to update the graphs and indices as quickly as possible, some data may have been estimated. Please note that data provided on these pages are preliminary and subject to revision upon review.

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mid-elevation areas. As a result, snowpack in low- to mid-elevations (<1100m) are proportionately lower than upper elevation locations.

Table 1 - BC Snow Basin Indices – January 1, 2019

| Basin | % of Normal | Basin | % of Normal |
|-------------------|-------------|------------------|-------------|
| Upper Fraser West | 109 | Boundary | 82 |
| Upper Fraser East | 109 | Similkameen | 93 |
| Nechako | 83 | South Coast | 94 |
| Middle Fraser | 102 | Vancouver Island | 89 |
| Lower Fraser | 92 | Central Coast | 99 |
| North Thompson | 109 | Skagit | 92 |
| South Thompson | 99 | Peace | 97 |
| Upper Columbia | 102 | Skeena-Nass | 87 |
| West Kootenay | 103 | Stikine | 61 |
| East Kootenay | 89 | Liard | 78 |
| Okanagan | 94 | Fraser | 95 |
| Nicola | 72 | British Columbia | 96 |

A note on Snow Basin Index calculations – In 2019, the River Forecast Centre is using a new method for calculating snow basin indices. The new method provides greater consistency in the calculations between basins, better utilizes all of the snow measurements that are taken during a survey period, and reduces the bias created from extremely high or low percent of normal values at individual survey locations that occur during the snow melt season. New snow basin indices are calculated based on the basin-average snow water equivalent value derived from the average of all measurements made within a basin, divided by the basin-averaged normal snow water equivalent for the same stations. The new calculation method may lead to slight differences in snow basin index values compared to values reported historically; these differences may be more significant in basins with limited measurements, in drier areas with less overall snowpack, and during the melt season when a shift in the timing of melt can lead to very large or small index values. The River Forecast Centre is re-analysing historic snow basin index values using the new method

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to allow for inter-annual comparison; these will be posted on the River Forecast Centre website when the analysis is complete.

Outlook

The Climate Prediction Centre (CPC) at the U.S. National Weather Service/NOAA has issued an El Niño watch and is forecasting a high likelihood of El Niño developing through this winter and continuing into the spring. Typically, El Niño is linked to warmer winters across British Columbia. During El Niño, snowpacks tend to be lower than normal; however, there has been a large range of variability in snowpack in BC during El Niño winters in the past (for example 2007 was following an El Niño winter and had significant snowpack across the province). Warm sea surface temperature anomalies have also persisted in the Pacific Ocean off the BC/Alaska coast, with a general weakening in the anomaly since mid-November. Warm temperature anomalies in the Pacific often have a similar or enhancing effect when they occur in phase with El Niño, as was the case in 2014-15 and 2015-16.

Seasonal weather forecasts from Environment and Climate Change Canada are indicating an increased likelihood of warmer than normal temperatures through the winter period.

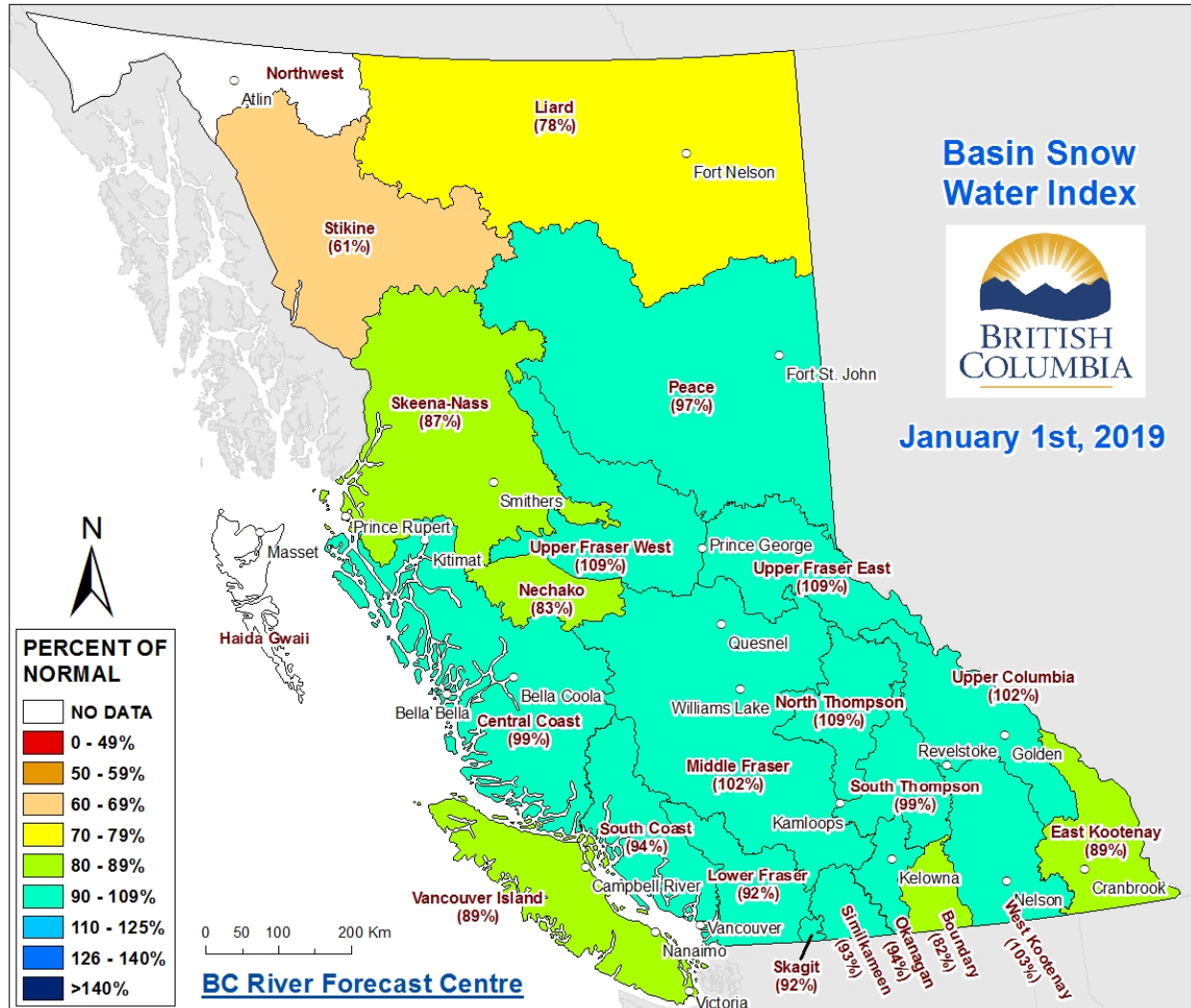
By early January, nearly half of the annual BC snowpack has typically accumulated. At this early stage in the season snow accumulation is looking typical across the province. With three or more months left for snow accumulation, seasonal snowpacks can still change significantly.

The River Forecast Centre will continue to monitor snowpack conditions and will provide an updated seasonal flood risk forecast in the February 1st 2019 bulletin, which is scheduled for release on February 8th.

BC River Forecast Centre
January 8, 2019

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Figure 1: Basin Snow Water Index – January 1st, 2019



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| 2019 Automated Snow Weather Station/Manual Snow Survey Data | | | | January | | | | | Historic Snow Water Equivalent (mm) | | | | | |
|---|-------------------|-------------------|------------------|------------------------|---------|----------|------|------------------------|-------------------------------------|---------------|--------------|--------------|-----------------------|-----------------|
| Station ID | Name | Basin | Elevation (masl) | Survey Date YYYY-MM-DD | SD (cm) | SWE (mm) | Code | SWE % 1981-2010 Normal | 2018 SWE (mm) | 2017 SWE (mm) | Minimum (mm) | Maximum (mm) | 1981-2010 Normal (mm) | Years of Record |
| 1A01P | Yellowhead Lake | Upper Fraser East | 1847 | 2019-01-01 | 111 | | | | 350 | 204 | 184 | 428 | 296 | 21 |
| 1A02P | McBride Upper | Upper Fraser East | 1608 | 2019-01-01 | 98 | 219 | | 111% | 228 | 142 | 121 | 387 | 198 | 26 |
| 1A03P | Barkerville | Upper Fraser East | 1483 | 2019-01-01 | 85 | 173 | | 112% | 121 | 114 | 21 | 312 | 154 | 43 |
| 1A05 | LONGWORTH (UPPER) | Upper Fraser East | 1693 | | N | N | N | | | 202 | 114 | 422 | 411 | 22 |
| 1A05P | Longworth Upper | Upper Fraser East | 1740 | 2019-01-01 | 194 | 485 | | | 347 | 192 | | | | 2 |
| 1A06A | HANSARD | Upper Fraser East | 622 | | NS | NS | NS | | | | | | | |
| 1A10 | PRINCE GEORGE A | Upper Fraser East | 684 | 2019-01-03 | 38 | 86 | | 146% | 45 | 31 | 0 | 156 | 59 | 49 |
| 1A11 | PACIFIC LAKE | Upper Fraser East | 756 | | N | N | N | | 358 | 186 | 56 | 577 | 303 | 30 |
| 1A12 | KAZA LAKE | Upper Fraser West | 1247 | | N | N | N | | | 96 | 92 | 371 | 182 | 34 |
| 1A12P | Kaza Lake | Upper Fraser West | 1248 | 2019-01-01 | 77 | 209 | | | 174 | 116 | 136 | 174 | | 2 |
| 1A14P | Hedrick Lake | Upper Fraser East | 1118 | 2019-01-01 | 135 | 359 | | 103% | 330 | 234 | 143 | 641 | 348 | 18 |
| 1A15 | KNUDSEN LAKE | Upper Fraser East | 1598 | | N | N | N | | | 261 | 125 | 821 | 427 | 23 |
| 1A15P | Knudsen Lake | Upper Fraser East | 1601 | 2019-01-01 | 126 | 270 | | | 363 | 311 | 311 | 363 | | 2 |
| 1A16 | BURNS LAKE | Upper Fraser West | 820 | 2019-01-07 | 48 | 68 | | 96% | 74 | 46 | 10 | 192 | 71 | 37 |
| 1A17P | Revolution Creek | Upper Fraser East | 1676 | 2019-01-01 | 156 | 399 | | 106% | 373 | 203 | 184 | 814 | 377 | 33 |
| 1A19P | Dome Mountain | Upper Fraser East | 1768 | 2019-01-01 | 131 | 337 | | 91% | 248 | 215 | 171 | 581 | 372 | 12 |
| 1A23 | BIRD CREEK | Upper Fraser West | 1196 | | NS | NS | NS | | | | 72 | 174 | 174 | 4 |
| 1B01 | MOUNT WELLS | Nechako | 1489 | | NS | NS | NS | | | | 220 | 465 | 465 | 4 |
| 1B01P | Mount Wells | Nechako | 1489 | 2019-01-01 | | 276 | | 87% | 290 | 330 | 131 | 516 | 316 | 26 |
| 1B02 | TAHTSA LAKE | Nechako | 1319 | | NS | NS | NS | | | | 444 | 1084 | 1084 | 4 |
| 1B02P | Tahtsa Lake | Nechako | 1319 | 2019-01-01 | | 572 | | 83% | 617 | 704 | 369 | 1168 | 693 | 26 |
| 1B05 | SKINS LAKE | Nechako | 877 | 2019-01-02 | 28 | 53 | | 98% | 72 | 48 | 0 | 127 | 54 | 27 |
| 1B06 | MOUNT SWANNELL | Nechako | 1596 | | NS | NS | NS | | | | 134 | 247 | 247 | 4 |
| 1B07 | NUTLI LAKE | Nechako | 1502 | | NS | NS | NS | | | | 173 | 527 | 527 | 4 |
| 1B08P | Mount Pondosy | Nechako | 1413 | 2019-01-01 | | 355 | | 79% | 340 | 293 | 204 | 670 | 448 | 26 |
| 1C01 | BROOKMERE | Middle Fraser | 994 | | NS | NS | NS | | | | 22 | 170 | 97 | 12 |
| 1C05 | MCGILLIVRAY PASS | Middle Fraser | 1715 | 2018-12-31 | 114 | 273 | | 100% | 257 | 250 | 140 | 458 | 274 | 20 |
| 1C05P | McGillivray Pass | Middle Fraser | 1766 | 2019-01-01 | | 285 | | | 271 | | 271 | 271 | | 1 |
| 1C06 | PAVILION | Middle Fraser | 1209 | | NS | NS | NS | | | | 0 | 80 | 32 | 9 |
| 1C08 | NAZKO | Middle Fraser | 1029 | | NS | NS | NS | | | | 0 | 92 | 41 | 27 |
| 1C09A | HIGHLAND VALLEY | Middle Fraser | 1547 | | NS | NS | NS | | | | 12 | 104 | 51 | 12 |
| 1C12P | Green Mountain | Middle Fraser | 1766 | 2019-01-01 | | 492 | | 105% | 392 | 336 | 268 | 780 | 469 | 24 |
| 1C13A | HORSEFLY MOUNTAIN | Middle Fraser | 1612 | | NS | NS | NS | | | | | | | |
| 1C14 | BRALORNE | Middle Fraser | 1382 | 2018-12-31 | 31 | 72 | | 89% | 90 | 70 | 0 | 158 | 81 | 19 |
| 1C14P | Bralorne | Middle Fraser | 1382 | 2019-01-01 | 46 | 110 | | | 119 | | 119 | 119 | | 1 |
| 1C17 | MOUNT TIMOTHY | Middle Fraser | 1632 | 2019-01-01 | 39 | 68 | | 43% | | 90 | 38 | 350 | 160 | 17 |
| 1C18P | Mission Ridge | Middle Fraser | 1903 | 2019-01-01 | | 210 | | 80% | 280 | 259 | 148 | 659 | 261 | 48 |

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| Station ID | Name | Basin | Elevation (masl) | Survey Date YYYY-MM-DD | SD (cm) | SWE (mm) | Code | SWE % 1981-2010 Normal | 2018 SWE (mm) | 2017 SWE (mm) | Minimum (mm) | Maximum (mm) | 1981-2010 Normal (mm) | Years of Record |
| 1C19 | GNAWED MOUNTAIN | Middle Fraser | 1617 | NS | NS | NS | NS | | | | 24 | 93 | 53 | 6 |
| 1C20P | Boss Mountain Mine | Middle Fraser | 1477 | 2019-01-01 | 129 | 321 | | 100% | 169 | 225 | 191 | 495 | 322 | 24 |
| 1C21 | BIG CREEK | Middle Fraser | 1130 | NS | NS | NS | NS | | | | 10 | 68 | 32 | 27 |
| 1C22 | PUNTZI MOUNTAIN | Middle Fraser | 939 | NS | NS | NS | NS | | 36 | 26 | 0 | 106 | 36 | 38 |
| 1C23 | PENFOLD CREEK | Middle Fraser | 1687 | NS | NS | NS | NS | | | | 525 | 525 | | 1 |
| 1C25 | LAC LE JEUNE (UPPER) | Middle Fraser | 1471 | 2019-01-02 | 29 | 54 | | 78% | 84 | 80 | 10 | 146 | 69 | 40 |
| 1C28 | DUFFEY LAKE | Middle Fraser | 1253 | NS | NS | NS | NS | | | | | | | |
| 1C29 | SHOVELNOSE MOUNTAIN | Middle Fraser | 1456 | NS | NS | NS | NS | | | | | | | |
| 1C29P | Shovelnose Moutain | Middle Fraser | 1460 | 2019-01-01 | 38 | 108 | | | | | | | | |
| 1C32 | DEADMAN RIVER | Middle Fraser | 1463 | NS | NS | NS | NS | | | | 30 | 141 | 65 | 7 |
| 1C33A | GRANITE MOUNTAIN | Middle Fraser | 1175 | 2018-12-31 | 40 | 97 | | 104% | 62 | 60 | 46 | 124 | 93 | 10 |
| 1C37 | BRALORNE(UPPER) | Middle Fraser | 1980 | N | N | N | N | | 338 | 328 | 116 | 504 | 309 | 19 |
| 1C38 | DOWNTON LAKE (UPPER) | Middle Fraser | 1884 | N | N | N | N | | 396 | 434 | 272 | 690 | 489 | 19 |
| 1C38P | Downton Lake Upper | Middle Fraser | 1829 | 2019-01-01 | | 487 | | | 390 | 419 | 390 | 451 | | 2 |
| 1C39 | BRIDGE GLACIER (LOWER) | Middle Fraser | 1393 | 2018-12-31 | 141 | 388 | | 130% | 306 | 276 | 74 | 466 | 298 | 19 |
| 1C40 | TYAUGHTON | Middle Fraser | 1946 | 2018-12-31 | 101 | 264 | | 108% | 264 | 206 | 92 | 418 | 244 | 18 |
| 1C40P | North Tyaughton | Middle Fraser | 1969 | 2019-01-01 | | 224 | | | 239 | 184 | 174 | 239 | | 2 |
| 1C41P | Yanks Peak East | Middle Fraser | 1683 | 2019-01-01 | 154 | 508 | | 128% | 319 | 304 | 207 | 510 | 397 | 21 |
| 1C42 | CAVERHILL LAKE | Middle Fraser | 1400 | NS | NS | NS | NS | | | | | | | |
| 1D06P | Tenquille Lake | Lower Fraser | 1669 | 2019-01-01 | 211 | 552 | | 114% | 503 | 532 | 285 | 817 | 485 | 17 |
| 1D08 | STAVE LAKE | Lower Fraser | 1211 | 2018-12-31 | 173 | 600 | | 104% | 602 | 646 | 112 | 976 | 578 | 21 |
| 1D09 | WAHLEACH LAKE | Lower Fraser | 1395 | 2018-12-31 | 63 | 180 | | 75% | | 250 | 46 | 417 | 240 | 22 |
| 1D09P | Wahleach Lake Upper | Lower Fraser | 1408 | 2019-01-01 | | 314 | | 71% | 648 | 308 | 214 | 650 | 442 | 26 |
| 1D10 | NAHATLATCH RIVER | Lower Fraser | 1530 | N | N | N | N | | 504 | 438 | 219 | 975 | 585 | 22 |
| 1D16 | DICKSON LAKE | Lower Fraser | 1147 | 2018-12-31 | 137 | 430 | | 70% | 604 | 806 | 274 | 1196 | 616 | 19 |
| 1D17P | Chilliwack River | Lower Fraser | 1621 | 2019-01-01 | 187 | 691 | | 105% | 662 | 620 | 353 | 1165 | 658 | 26 |
| 1D18P | Disappointment Lake | Lower Fraser | 1050 | 2019-01-01 | 172 | 501 | | | | | | | | |
| 1D19P | Spuzzum Creek | Lower Fraser | 1197 | 2019-01-01 | 170 | 598 | | 90% | 613 | 595 | 198 | 1268 | 662 | 19 |
| 1E01B | BLUE RIVER | North Thompson | 673 | 2018-12-31 | 78 | 135 | | 91% | 86 | 122 | 0 | 263 | 149 | 26 |
| 1E02P | Mount Cook | North Thompson | 1574 | 2019-01-01 | 248 | 723 | | 116% | 510 | 513 | 420 | 901 | 621 | 18 |
| 1E03A | TROPHY MOUNTAIN | North Thompson | 1907 | NS | NS | NS | NS | | | | | | | |
| 1E05 | KNOUFF LAKE | North Thompson | 1189 | NS | NS | NS | NS | | | | | | | |
| 1E07 | ADAMS RIVER | North Thompson | 1769 | NS | NS | NS | NS | | | | 205 | 475 | 324 | 13 |
| 1E08P | Azure River | North Thompson | 1625 | 2019-01-01 | 204 | | | | 567 | 538 | 356 | 780 | 593 | 21 |
| 1E10P | Kostal Lake | North Thompson | 1760 | 2019-01-01 | 144 | 472 | | 105% | 322 | 398 | 271 | 615 | 448 | 33 |
| 1E14P | Cook Creek | North Thompson | 1280 | 2019-01-01 | 125 | | | | | | | | | 1 |
| 1F01A | ABERDEEN LAKE | South Thompson | 1262 | 2018-12-27 | 30 | 38 | | 40% | | | 61 | 106 | 94 | 5 |

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| Station ID | Name | Basin | Elevation (masl) | Survey Date YYYY-MM-DD | SD (cm) | SWE (mm) | Code | SWE % 1981-2010 Normal | 2018 SWE (mm) | 2017 SWE (mm) | Minimum (mm) | Maximum (mm) | 1981-2010 Normal (mm) | Years of Record |
| 1F02 | ANGLEMONT | South Thompson | 1168 | NS | NS | NS | NS | | | | 164 | 164 | 164 | 2 |
| 1F03P | Park Mountain | South Thompson | 1857 | 2019-01-01 | 128 | 389 | | 92% | 340 | | 256 | 632 | 421 | 33 |
| 1F04P | Enderby | South Thompson | 1950 | 2019-01-01 | 182 | 500 | | | 448 | 552 | 448 | 552 | | 2 |
| 1F06P | Celista Mountain | South Thompson | 1533 | 2019-01-01 | 165 | 482 | | 103% | 363 | 357 | 307 | 577 | 468 | 13 |
| 2A01A | CANOE RIVER | Upper Columbia | 866 | NS | NS | NS | NS | | | | 29 | 86 | 48 | 5 |
| 2A02 | GLACIER | Upper Columbia | 1249 | 2018-12-28 | 107 | 330 | | 109% | 234 | 208 | 147 | 519 | 304 | 39 |
| 2A03A | FIELD | Upper Columbia | 1310 | NS | NS | NS | NS | | | | 38 | 127 | 80 | 11 |
| 2A06P | Mount Revelstoke | Upper Columbia | 1770 | 2019-01-01 | | 616 | | 105% | 488 | 600 | 303 | 861 | 587 | 25 |
| 2A07 | KICKING HORSE | Upper Columbia | 1648 | 2018-12-27 | 69 | 159 | | 108% | 130 | 90 | 66 | 257 | 147 | 35 |
| 2A11 | BEAVERFOOT | Upper Columbia | 1924 | 2018-12-28 | 41 | 70 | | 65% | 96 | 80 | 52 | 215 | 108 | 29 |
| 2A14 | MOUNT ABBOT | Upper Columbia | 2031 | 2019-01-02 | 222 | 710 | | 122% | 568 | 522 | 298 | 1065 | 584 | 27 |
| 2A16 | GOLDSTREAM | Upper Columbia | 1914 | 2018-12-27 | 192 | 546 | | 93% | 530 | 626 | 355 | 906 | 588 | 29 |
| 2A17 | FIDELITY MOUNTAIN | Upper Columbia | 1852 | 2018-12-26 | 197 | 625 | | 105% | 530 | 490 | 331 | 1228 | 596 | 37 |
| 2A18 | KEYSTONE CREEK | Upper Columbia | 1839 | 2018-12-27 | 141 | 366 | | 90% | 370 | 385 | 217 | 577 | 405 | 28 |
| 2A18P | Keystone Creek | Upper Columbia | 1850 | 2019-01-01 | | 500 | | | 415 | 518 | 415 | 518 | | 2 |
| 2A19 | VERMONT CREEK | Upper Columbia | 1533 | 2018-12-28 | 85 | 184 | | 89% | 207 | 185 | 91 | 328 | 207 | 28 |
| 2A21P | Molson Creek | Upper Columbia | 1930 | 2019-01-01 | | 602 | | 107% | 625 | 484 | 286 | 1072 | 563 | 37 |
| 2A22 | SUNBEAM LAKE | Upper Columbia | 2066 | 2018-12-27 | 158 | 435 | | 92% | 493 | 466 | 243 | 1131 | 471 | 29 |
| 2A23 | BUSH RIVER | Upper Columbia | 1982 | 2018-12-27 | 145 | 393 | | 94% | 408 | 399 | 216 | 940 | 417 | 29 |
| 2A25 | KIRBYVILLE LAKE | Upper Columbia | 1739 | 2018-12-27 | 218 | 607 | | 99% | 525 | 620 | 273 | 1472 | 613 | 30 |
| 2A27 | DOWNIE SLIDE (LOWER) | Upper Columbia | 964 | 2018-12-27 | 116 | 308 | | 103% | 194 | 230 | 166 | 504 | 298 | 28 |
| 2A29 | DOWNIE SLIDE (UPPER) | Upper Columbia | 1628 | 2018-12-27 | 245 | 734 | | 104% | 642 | 664 | 335 | 1022 | 706 | 28 |
| 2A30P | Colpitti Creek | Upper Columbia | 2131 | 2019-01-01 | | 438 | | | 491 | 465 | 465 | 491 | | 2 |
| 2A31P | Caribou Creek Upper | Upper Columbia | 2201 | 2019-01-01 | | 446 | | | 511 | 484 | 484 | 511 | | 2 |
| 2A32P | Wildcat Creek | Upper Columbia | 2122 | 2019-01-01 | | 370 | | | 295 | 258 | 271 | 271 | | 2 |
| 2B02A | FARRON | Lower Columbia | 1229 | 2018-12-27 | 63 | 142 | | 97% | 148 | 110 | 40 | 330 | 146 | 26 |
| 2B05 | WHATSHAN (UPPER) | Lower Columbia | 1476 | 2018-12-31 | 105 | 255 | | 79% | 267 | 191 | 169 | 543 | 323 | 29 |
| 2B06P | Barnes Creek | Lower Columbia | 1595 | 2019-01-01 | | 180 | | 68% | 250 | 130 | 158 | 405 | 265 | 25 |
| 2B07 | KOCH CREEK | Lower Columbia | 1813 | 2018-12-31 | 140 | 348 | | 101% | 307 | 336 | 170 | 473 | 346 | 28 |
| 2B08P | St. Leon Creek | Lower Columbia | 1822 | 2019-01-01 | | 548 | | 112% | 475 | 501 | 221 | 855 | 488 | 25 |
| 2B09 | RECORD MOUNTAIN | Lower Columbia | 1906 | 2019-01-04 | 114 | 338 | | 106% | 318 | 324 | 134 | 575 | 319 | 27 |
| 2C01 | SINCLAIR PASS | East Kootenay | 1374 | NS | NS | NS | NS | | | | 25 | 107 | 54 | 12 |
| 2C04 | SULLIVAN MINE | East Kootenay | 1580 | 2018-12-30 | 54 | 182 | | 146% | 152 | 84 | 29 | 226 | 125 | 30 |
| 2C07 | FERNIE EAST | East Kootenay | 1213 | 2018-12-30 | 58 | 123 | | 93% | 149 | 112 | 28 | 330 | 132 | 32 |
| 2C09Q | Morrissey Ridge | East Kootenay | 1966 | 2019-01-01 | | 215 | | 70% | 200 | 212 | 124 | 706 | 306 | 38 |
| 2C10P | Moyie Mountain | East Kootenay | 1840 | 2019-01-01 | 56 | 153 | | 89% | 193 | 180 | 76 | 354 | 172 | 39 |
| 2C14P | Floe Lake | East Kootenay | 2110 | 2019-01-01 | | 327 | | 93% | 325 | 396 | 173 | 503 | 352 | 25 |

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| Station ID | Name | Basin | Elevation (masl) | Survey Date YYYY-MM-DD | SD (cm) | SWE (mm) | Code | SWE % 1981-2010 Normal | 2018 SWE (mm) | 2017 SWE (mm) | Minimum (mm) | Maximum (mm) | 1981-2010 Normal (mm) | Years of Record |
| 2C15 | MOUNT ASSINIBOINE | East Kootenay | 2230 | 2018-12-28 | 107 | 251 | | 94% | 331 | 286 | 111 | 567 | 267 | 29 |
| 2C16 | MOUNT JOFFRE | East Kootenay | 1763 | 2018-12-28 | 58 | 107 | | 64% | 160 | 98 | 73 | 364 | 166 | 29 |
| 2C17 | THUNDER CREEK | East Kootenay | 2062 | 2018-12-28 | 52 | 99 | | 79% | 154 | 115 | 61 | 276 | 126 | 29 |
| 2D02 | FERGUSON | West Kootenay | 929 | 2019-01-02 | 115 | 300 | | 117% | 199 | 125 | 93 | 409 | 256 | 34 |
| 2D03 | SANDON | West Kootenay | 1072 | NS | NS | NS | NS | | | | 157 | 157 | 157 | 2 |
| 2D04 | NELSON | West Kootenay | 952 | 2018-12-27 | 58 | 144 | | 86% | 108 | 87 | 61 | 366 | 167 | 51 |
| 2D05 | GRAY CREEK (LOWER) | West Kootenay | 1558 | NS | NS | NS | NS | | | | 69 | 372 | 205 | 23 |
| 2D06 | CHAR CREEK | West Kootenay | 1290 | 2019-01-01 | 82 | 221 | | 92% | 264 | 118 | 110 | 480 | 239 | 30 |
| 2D07A | DUNCAN LAKE NO. 2 | West Kootenay | 662 | NS | NS | NS | NS | | | | | | | 0 |
| 2D08P | East Creek | West Kootenay | 2004 | 2019-01-01 | NS | 503 | | 114% | 411 | 443 | 206 | 858 | 442 | 37 |
| 2D09 | MOUNT TEMPLEMAN | West Kootenay | 1879 | N | N | N | N | | | 447 | 277 | 902 | 496 | 29 |
| 2D10 | GRAY CREEK (UPPER) | West Kootenay | 1926 | NS | NS | NS | NS | | | | 222 | 612 | 358 | 16 |
| 2D14P | Redfish Creek | West Kootenay | 2086 | 2019-01-01 | 200 | 624 | | 121% | 551 | 704 | 401 | 751 | 514 | 16 |
| 2E01 | MONASHEE PASS | Kettle | 1387 | 2018-12-31 | 69 | 140 | | 86% | 152 | 92 | 84 | 239 | 163 | 34 |
| 2E02 | CARMI | Kettle | 1254 | NS | NS | NS | NS | | | | 86 | 102 | | 3 |
| 2E03 | BIG WHITE MOUNTAIN | Kettle | 1672 | NS | NS | NS | NS | | | | 112 | 326 | 235 | 17 |
| 2E07P | Grano Creek | Kettle | 1874 | 2019-01-01 | 88 | 177 | | 79% | 229 | 189 | 143 | 315 | 225 | 20 |
| 2F01A | TROUT CREEK (West) | Okanagan | 1430 | NS | NS | NS | NS | | | | 68 | 140 | | 3 |
| 2F01P | Trout Creek West | Okanagan | 1420 | 2019-01-01 | 37 | 83 | | | 126 | | 126 | 126 | | 1 |
| 2F02 | SUMMERLAND RESERVOIR | Okanagan | 1304 | 2019-01-02 | 39 | 102 | | 102% | 147 | 104 | 42 | 198 | 100 | 48 |
| 2F03 | MC CULLOCH | Okanagan | 1266 | NS | NS | NS | NS | | | | 28 | 144 | 78 | 28 |
| 2F04 | GRAYSTOKE LAKE | Okanagan | 1818 | 2019-01-03 | 70 | 162 | | 110% | 202 | 128 | 96 | 282 | 147 | 13 |
| 2F05P | Mission Creek | Okanagan | 1794 | 2019-01-01 | 90 | 219 | | 96% | 221 | 176 | 104 | 398 | 227 | 48 |
| 2F07 | POSTILL LAKE | Okanagan | 1358 | NS | NS | NS | NS | | | | | | | 0 |
| 2F08P | Greyback Reservoir | Okanagan | 1550 | 2019-01-01 | 42 | 81 | | | 137 | 102 | 102 | 137 | | 2 |
| 2F09 | WHITEROCKS MOUNTAIN | Okanagan | 1789 | NS | NS | NS | NS | | | | 122 | 447 | 271 | 20 |
| 2F10P | Silver Star Mountain | Okanagan | 1839 | 2019-01-01 | 146 | 418 | | | 359 | 314 | 314 | 359 | | 2 |
| 2F11 | ISINTOK LAKE | Okanagan | 1651 | 2019-01-02 | 26 | 58 | | 84% | 117 | 77 | 16 | 196 | 69 | 48 |
| 2F12 | MOUNT KOBAN | Okanagan | 1817 | 2018-12-30 | 47 | 87 | | 63% | 170 | 70 | 28 | 261 | 139 | 38 |
| 2F13 | ESPERON CR (UPPER) | Okanagan | 1634 | NS | NS | NS | NS | | | | | | | |
| 2F14 | ESPERON CR (MIDDLE) | Okanagan | 1440 | NS | NS | NS | NS | | | | | | | |
| 2F18P | Brenda Mine | Okanagan | 1453 | 2019-01-01 | | 130 | | 70% | 151 | 125 | 85 | 304 | 185 | 25 |
| 2F19 | OOYAMA LAKE | Okanagan | 1365 | NS | NS | NS | NS | | | | | | | |
| 2F20 | VASEUX CREEK | Okanagan | 1403 | NS | NS | NS | NS | | | | 32 | 117 | 56 | 19 |
| 2F21 | BOULEAU LAKE | Okanagan | 1405 | NS | NS | NS | NS | | | | 160 | 351 | | 2 |
| 2F23 | MACDONALD LAKE | Okanagan | 1742 | NS | NS | NS | NS | | | | 81 | 328 | 189 | 16 |
| 2F24 | ISLAHT LAKE | Okanagan | 1492 | NS | NS | NS | NS | | | | | | | |

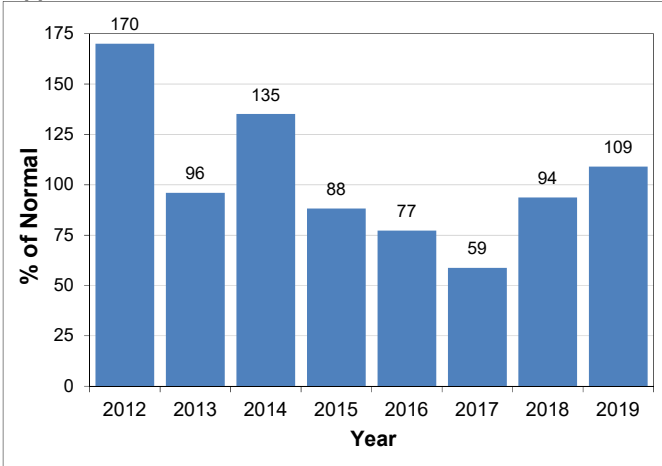
| 2019 Automated Snow Weather Station/Manual Snow Survey Data | | | | January | | | | | Historic Snow Water Equivalent (mm) | | | | | |
|---|------------------------|------------------|------------------|------------------------|---------|----------|------|------------------------|-------------------------------------|---------------|--------------|--------------|-----------------------|-----------------|
| Station ID | Name | Basin | Elevation (masl) | Survey Date YYYY-MM-DD | SD (cm) | SWE (mm) | Code | SWE % 1981-2010 Normal | 2018 SWE (mm) | 2017 SWE (mm) | Minimum (mm) | Maximum (mm) | 1981-2010 Normal (mm) | Years of Record |
| 2F25 | POSTILL LAKE UPPER | Okanagan | 1500 | NS | NS | NS | NS | | | | | | | |
| 2G03P | Blackwall Peak | Similkameen | 1934 | 2019-01-01 | 133 | 353 | | 93% | 426 | 333 | 108 | 923 | 379 | 50 |
| 2G04 | LOST HORSE MOUNTAIN | Similkameen | 1988 | NS | NS | NS | NS | | | | 54 | 120 | 93 | 7 |
| 2G05 | MISSEZULA MOUNTAIN | Similkameen | 1602 | NS | NS | NS | NS | | | | 21 | 197 | 96 | 15 |
| 2G06 | HAMILTON HILL | Similkameen | 1477 | NS | NS | NS | NS | | | | 55 | 313 | 168 | 15 |
| 3A01 | GROUSE MOUNTAIN | South Coast | 1126 | 2018-12-28 | 153 | 476 | | 98% | 566 | 732 | 24 | 878 | 485 | 29 |
| 3A02 | POWELL RIVER (UPPER) | South Coast | 1002 | NS | NS | NS | NS | | | | | | | |
| 3A05 | POWELL RIVER (LOWER) | South Coast | 882 | NS | NS | NS | NS | | | | | | | |
| 3A09 | PALISADE LAKE | South Coast | 898 | NS | NS | NS | NS | | | | 86 | 334 | 334 | 3 |
| 3A09P | Palisade Lake | South Coast | 900 | 2019-01-01 | 130 | 475 | | | | | | | | |
| 3A10 | DOG MOUNTAIN | South Coast | 1007 | 2018-12-28 | 144 | 414 | | 85% | 520 | 754 | 78 | 879 | 488 | 24 |
| 3A19 | ORCHID LAKE | South Coast | 1178 | 2018-12-27 | 225 | 660 | | 89% | 829 | 808 | 180 | 1360 | 739 | 27 |
| 3A20 | CALLAGHAN CREEK | South Coast | 1009 | NS | NS | NS | NS | | | | 100 | 638 | 289 | 13 |
| 3A22P | Nostetuko River | South Coast | 1457 | 2019-01-01 | 76 | 221 | | 86% | 254 | 169 | 32 | 544 | 258 | 29 |
| 3A24P | Mosley Creek Upper | South Coast | 1655 | 2019-01-01 | 69 | 178 | | 92% | 216 | 181 | 85 | 491 | 194 | 29 |
| 3A25P | Squamish River Upper | South Coast | 1387 | 2019-01-01 | 266 | 789 | | 106% | 740 | 584 | 391 | 1160 | 742 | 28 |
| 3A26 | CHAPMAN CREEK | South Coast | 1022 | NS | NS | NS | NS | | | | | | | |
| 3A27 | EDWARDS LAKE | South Coast | 1070 | NS | NS | NS | NS | | | | | | | |
| 3A28P | Tetrahedron | South Coast | 1420 | 2019-01-01 | 216 | 601 | | | | | | | | |
| 3B01 | FORBIDDEN PLATEAU | Vancouver Island | 1110 | 2018-12-30 | 195 | 640 | | 103% | 535 | 619 | 0 | 1287 | 621 | 31 |
| 3B02A | MOUNT COKELY | Vancouver Island | 1267 | NS | NS | NS | NS | | | | | | | |
| 3B04 | ELK RIVER | Vancouver Island | 270 | 2018-12-30 | 5 | 18 | | 37% | 65 | 123 | 0 | 264 | 49 | 30 |
| 3B10 | UPPER THELWOOD LAKE | Vancouver Island | 1014 | NS | NS | NS | NS | | | | 546 | 734 | 587 | 5 |
| 3B17P | Wolf River Upper | Vancouver Island | 1422 | 2019-01-01 | | 540 | | 97% | 584 | 518 | 43 | 1057 | 555 | 36 |
| 3B18 | WOLF RIVER (MIDDLE) | Vancouver Island | 1050 | 2018-12-30 | 77 | 224 | | 85% | 68 | 310 | 0 | 774 | 262 | 24 |
| 3B19 | WOLF RIVER (LOWER) | Vancouver Island | 615 | 2018-12-30 | 54 | 134 | | 83% | | 204 | 0 | 388 | 161 | 23 |
| 3B23P | Jump Creek | Vancouver Island | 1134 | 2019-01-01 | 97 | 325 | | 71% | | 460 | 63 | 1025 | 459 | 21 |
| 3B24P | Heather Mountain Upper | Vancouver Island | 1190 | 2019-01-01 | 108 | 434 | | | 558 | 661 | 558 | 661 | | 2 |
| 3B26P | Mount Arrowsmith | Vancouver Island | 1465 | 2019-01-01 | 148 | 402 | | | 376 | 373 | 373 | 376 | | 2 |
| 3C07 | WEDEENE RIVER SOUTH | North Coast | 196 | NS | NS | NS | NS | | | | 242 | 242 | 242 | 2 |
| 3C08P | Burnt Bridge Creek | North Coast | 1329 | 2019-01-01 | 137 | 427 | | 100% | 337 | 279 | 139 | 702 | 429 | 20 |
| 3D01C | SUMALLO RIVER WEST | Skagit | 801 | N | N | N | N | | | | 47 | 82 | | 2 |
| 3D02 | LIGHTNING LAKE | Skagit | 1254 | NS | NS | NS | NS | | | | | | | |
| 3D03A | KLESILKWA | Skagit | 1134 | 2018-12-31 | 42 | 113 | | 92% | 78 | 135 | 0 | 386 | 123 | 21 |
| 4A02P | Pine Pass | Peace | 1386 | 2019-01-01 | 190 | 540 | | 98% | 472 | 101 | 241 | 1016 | 549 | 29 |
| 4A03 | WARE (UPPER) | Peace | 1563 | 2019-01-03 | 67 | 128 | | 85% | 161 | 92 | 64 | 248 | 151 | 29 |
| 4A03P | Ware Upper | Peace | 1565 | 2019-01-01 | 67 | 127 | | | 139 | 68 | 68 | 139 | | 2 |

| 2019 Automated Snow Weather Station/Manual Snow Survey Data | | | | January | | | | | Historic Snow Water Equivalent (mm) | | | | | |
|---|---------------------|-------------|------------------|------------------------|---------|----------|------|------------------------|-------------------------------------|---------------|--------------|--------------|-----------------------|-----------------|
| Station ID | Name | Basin | Elevation (masl) | Survey Date YYYY-MM-DD | SD (cm) | SWE (mm) | Code | SWE % 1981-2010 Normal | 2018 SWE (mm) | 2017 SWE (mm) | Minimum (mm) | Maximum (mm) | 1981-2010 Normal (mm) | Years of Record |
| 4A04 | WARE (LOWER) | Peace | 969 | 2019-01-03 | 56 | 100 | | 91% | 115 | 46 | 52 | 240 | 110 | 27 |
| 4A04P | Ware Lower | Peace | 971 | 2019-01-01 | 54 | 116 | | | 117 | 134 | 117 | 134 | | 2 |
| 4A05 | GERMANSEN (UPPER) | Peace | 1489 | 2019-01-04 | 93 | 231 | | 124% | 184 | 115 | 93 | 364 | 186 | 36 |
| 4A06 | TUTIZZI LAKE | Peace | 1043 | 2019-01-04 | 70 | 140 | | 99% | 144 | 69 | 72 | 223 | 142 | 28 |
| 4A07 | LADY LAURIER LAKE | Peace | 1460 | 2019-01-03 | 94 | 223 | | 76% | 260 | 178 | 140 | 472 | 295 | 35 |
| 4A09 | PULPIT LAKE | Peace | 1331 | | N | N | N | | 170 | 136 | 130 | 398 | 235 | 29 |
| 4A09P | Pulpit Lake | Peace | 1331 | 2019-01-01 | 74 | 187 | | 75% | 129 | 110 | 110 | 344 | 250 | 28 |
| 4A10 | FREDRICKSON LAKE | Peace | 1323 | 2019-01-04 | 68 | 146 | | 114% | 65 | 70 | 54 | 250 | 128 | 29 |
| 4A11 | TRYGVE LAKE | Peace | 1409 | 2019-01-03 | 83 | 177 | | 86% | 158 | 121 | 119 | 299 | 207 | 33 |
| 4A12 | TSAYDAYCHI LAKE | Peace | 1173 | 2019-01-04 | 105 | 256 | | 118% | 245 | 148 | 128 | 393 | 217 | 36 |
| 4A13 | PHILIP LAKE | Peace | 1013 | 2019-01-04 | 86 | 209 | | 136% | 128 | | 48 | 288 | 154 | 36 |
| 4A16 | MORFEE MOUNTAIN | Peace | 1427 | 2019-01-04 | 153 | 434 | | 102% | 299 | 239 | 199 | 710 | 425 | 29 |
| 4A18 | MOUNT SHEBA | Peace | 1480 | | N | N | N | | 444 | 279 | 106 | 793 | 438 | 24 |
| 4A20 | MONKMAN CREEK | Peace | 1566 | 2018-12-27 | 90 | 218 | | 79% | 381 | | 107 | 546 | 277 | 24 |
| 4A20P | Monkman Creek | Peace | 1570 | 2019-01-01 | | 240 | | | | | | | | |
| 4A21 | MOUNT STEARNS | Peace | 1514 | 2019-01-03 | 46 | 79 | | 96% | 87 | 92 | 14 | 151 | 82 | 29 |
| 4A25 | FORT ST. JOHN A | Peace | 692 | 2019-01-07 | 53 | 84 | | 162% | 82 | 50 | 0 | 134 | 52 | 33 |
| 4A27P | Kwadacha North | Peace | 1554 | 2019-01-01 | 73 | 146 | | | 173 | 80 | 80 | 173 | | 2 |
| 4A30P | Aiken Lake | Peace | 1061 | 2019-01-01 | 48 | 129 | | 93% | 96 | 117 | 71 | 262 | 138 | 33 |
| 4A31P | Crying Girl Prairie | Peace | 1358 | 2019-01-01 | | 133 | | | 125 | 75 | 75 | 125 | | 2 |
| 4A33P | Muskwa-Kechika | Peace | 1196 | 2019-01-01 | | 69 | | | 69 | 301 | 69 | 301 | | 2 |
| 4A34P | Dowling Creek | Peace | 1456 | 2019-01-01 | | 210 | | | 461 | 78 | 78 | 461 | | 2 |
| 4B01 | KIDPRICE LAKE | Skeena-Nass | 1415 | | NS | NS | NS | | | | 369 | 894 | 894 | 4 |
| 4B02 | JOHANSON LAKE | Skeena-Nass | 1480 | 2019-01-04 | 75 | 164 | | 98% | 121 | 103 | 84 | 282 | 167 | 33 |
| 4B03A | HUDSON BAY MTN. | Skeena-Nass | 1452 | 2019-01-03 | 104 | 274 | | 104% | 290 | 218 | 135 | 470 | 264 | 35 |
| 4B04 | CHAPMAN LAKE | Skeena-Nass | 1485 | | NS | NS | NS | | | | | | | |
| 4B06 | TACHEK CREEK | Skeena-Nass | 1133 | | NS | NS | NS | | | | | | | |
| 4B07 | MCKENDRICK CREEK | Skeena-Nass | 1048 | | NS | NS | NS | | | | | | | |
| 4B08 | MOUNT CRONIN | Skeena-Nass | 1491 | | NS | NS | NS | | | | | | | |
| 4B10 | NINGUNSAW PASS | Nass | 647 | | NS | NS | NS | | | | 277 | 277 | | 2 |
| 4B11A | BEAR PASS | Nass | 437 | | NS | NS | NS | | 170 | | | | | 1 |
| 4B12P | Granduc Mine | Skeena-Nass | 790 | 2019-01-01 | 281 | | | | | 157 | 157 | 157 | | 1 |
| 4B13A | TERRACE A | Skeena-Nass | 219 | | NS | NS | NS | | 58 | 46 | 0 | 264 | 73 | 32 |
| 4B14 | EQUITY MINE | Skeena-Nass | 1434 | | NS | NS | NS | | | | 118 | 228 | 166 | 11 |
| 4B15 | LU LAKE | Skeena-Nass | 1296 | | NS | NS | NS | | | | 96 | 182 | 130 | 11 |
| 4B15P | Lu Lake | Skeena-Nass | 1308 | 2019-01-01 | 66 | 153 | | 109% | 163 | 204 | 41 | 291 | 141 | 20 |
| 4B16P | Shedin Creek | Skeena-Nass | 1320 | 2019-01-01 | 126 | 317 | | 75% | 279 | 441 | 195 | 598 | 425 | 22 |

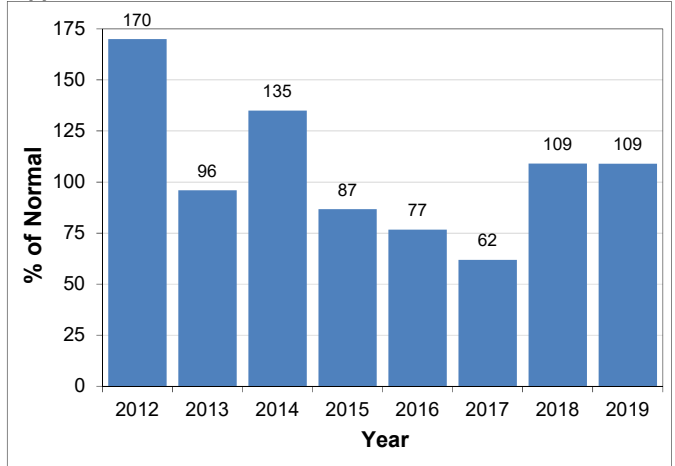
| 2019 Automated Snow Weather Station/Manual Snow Survey Data | | | | January | | | | | Historic Snow Water Equivalent (mm) | | | | | |
|---|---|-------------|------------------|------------------------|---------|----------|------|------------------------|-------------------------------------|---------------|--------------|--------------|-----------------------|-----------------|
| Station ID | Name | Basin | Elevation (masl) | Survey Date YYYY-MM-DD | SD (cm) | SWE (mm) | Code | SWE % 1981-2010 Normal | 2018 SWE (mm) | 2017 SWE (mm) | Minimum (mm) | Maximum (mm) | 1981-2010 Normal (mm) | Years of Record |
| 4B17P | Tsai Creek | Skeena-Nass | 1360 | 2019-01-01 | 209 | 532 | | 89% | 456 | 165 | 302 | 983 | 599 | 20 |
| 4B18P | Cedar-Kiteen | Skeena-Nass | 912 | 2019-01-01 | 108 | 218 | | 71% | | 72 | 72 | 568 | 307 | 16 |
| 4C01 | SIKANNI LAKE | Liard | 1390 | 2019-01-03 | 64 | 113 | | 78% | 140 | 71 | 44 | 257 | 145 | 34 |
| 4C01P | Sikanni Lake | Liard | 1400 | 2019-01-01 | 60 | 119 | | | 161 | 109 | 109 | 161 | | 2 |
| 4C02 | SUMMIT LAKE | Liard | 1291 | | NS | NS | NS | | | | 58 | 58 | | 3 |
| 4C03 | DEASE LAKE | Liard | 805 | | NS | NS | NS | | | | 20 | 168 | 68 | 38 |
| 4C05 | FORT NELSON AIRPORT | Liard | 368 | | NS | NS | NS | | | | 15 | 112 | 57 | 45 |
| 4C15 | JADE CITY | Liard | 943 | | NS | NS | NS | | | | | | | |
| 4D01 | TELEGRAPH CREEK | Stikine | 490 | | NS | NS | NS | | | | | | | |
| 4D02 | ISKUT | Stikine | 931 | | NS | NS | NS | | | | 76 | 76 | | 2 |
| 4D11P | Kinaskan Lake | Stikine | 1020 | 2019-01-01 | 43 | 123 | | 61% | 96 | | 94 | 97 | 202 | 22 |
| 4E02B | ATLIN LAKE | Yukon | 730 | | NS | NS | NS | | | | | | | 1 |
| Code | Description | | | | | | | | | | | | | |
| A | Sampling problems were encountered | | | | | | | | | | | | | |
| B | Early or late sampling | | | | | | | | | | | | | |
| C | Early or late sampling w/problems encountered | | | | | | | | | | | | | |
| E | Estimate | | | | | | | | | | | | | |
| N | Scheduled, but not sampled | | | | | | | | | | | | | |
| NA | Not available | | | | | | | | | | | | | |
| NS | Not scheduled | | | | | | | | | | | | | |
| SD | Snow Depth | | | | | | | | | | | | | |
| SWE | Snow Water Equivalent | | | | | | | | | | | | | |
| T | Trace Amount | | | | | | | | | | | | | |

Snow Basin Index Graphs - January 1, 2019

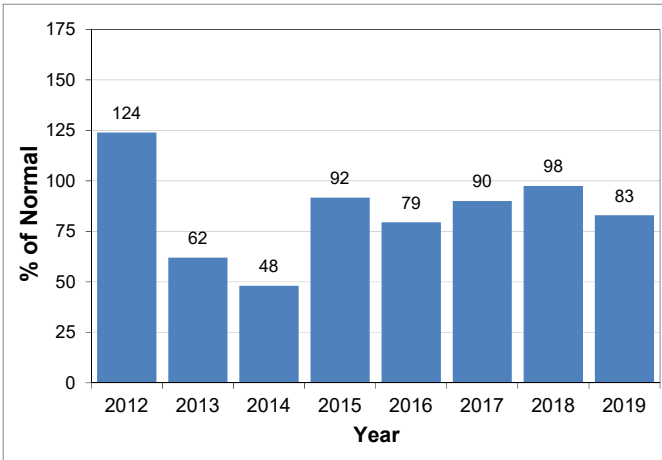
Upper Fraser West



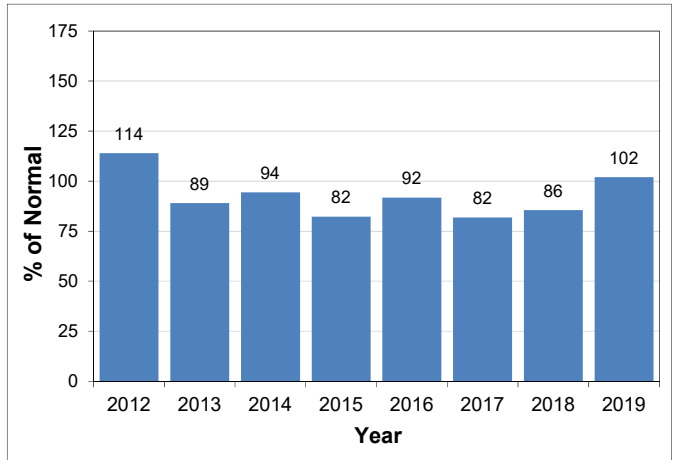
Upper Fraser East



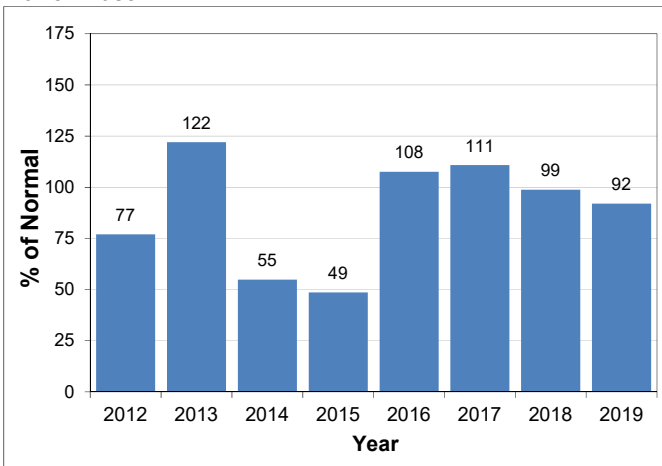
Nechako



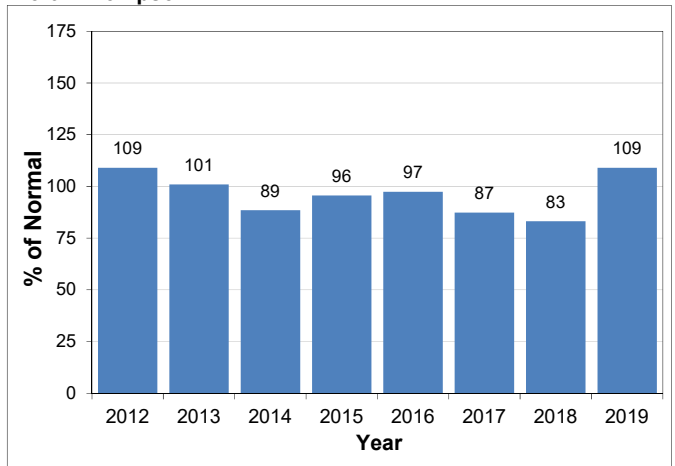
Middle Fraser



Lower Fraser

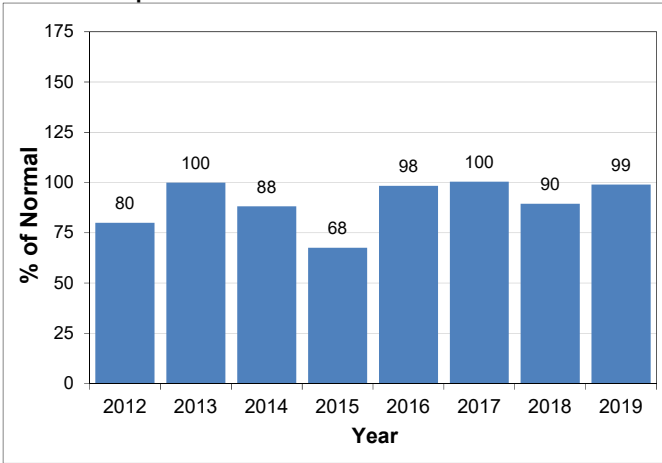


North Thompson

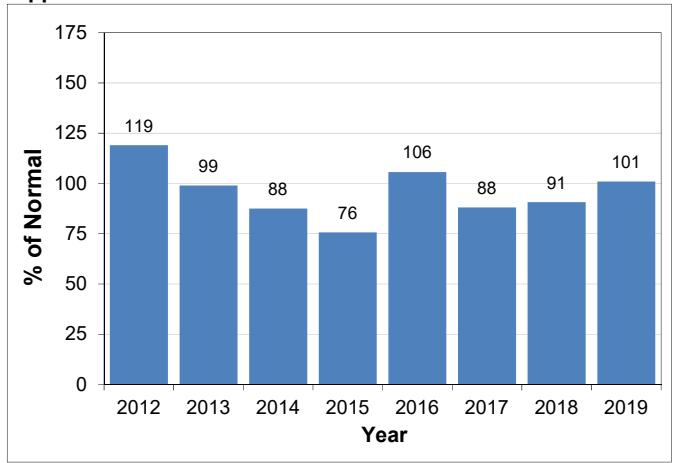


Snow Basin Index Graphs - January 1, 2019

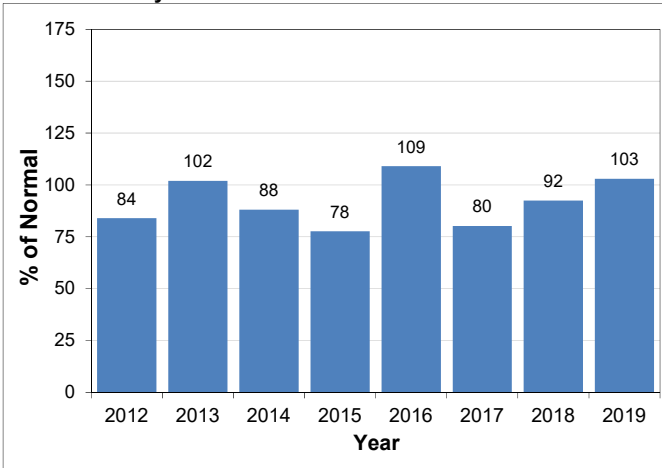
South Thompson



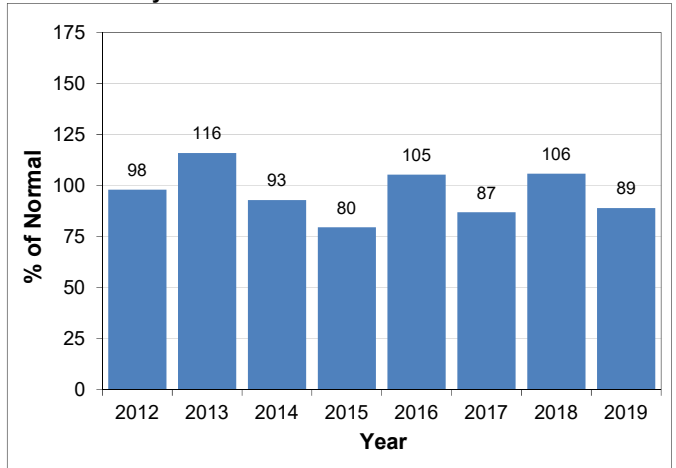
Upper Columbia



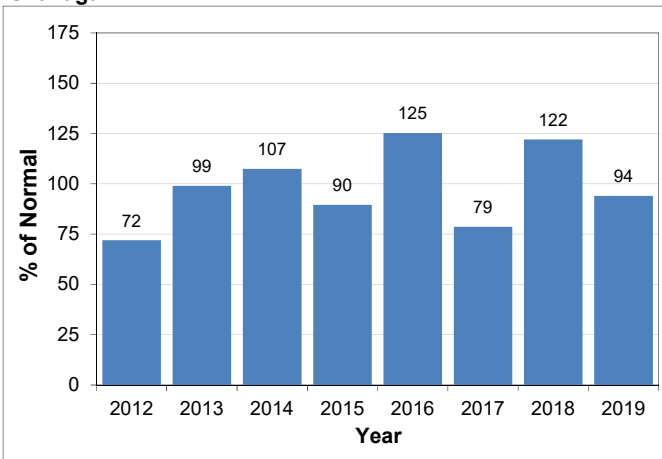
West Kootenay



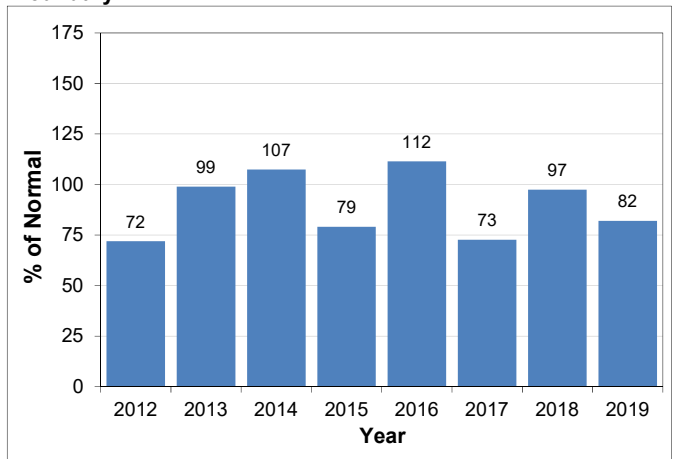
East Kootenay



Okanagan

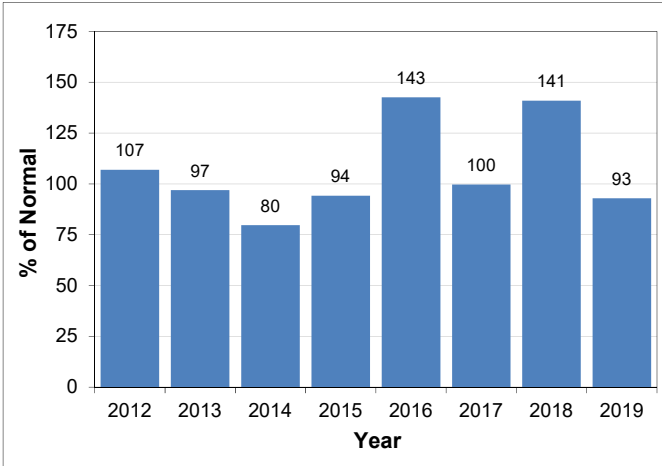


Boundary

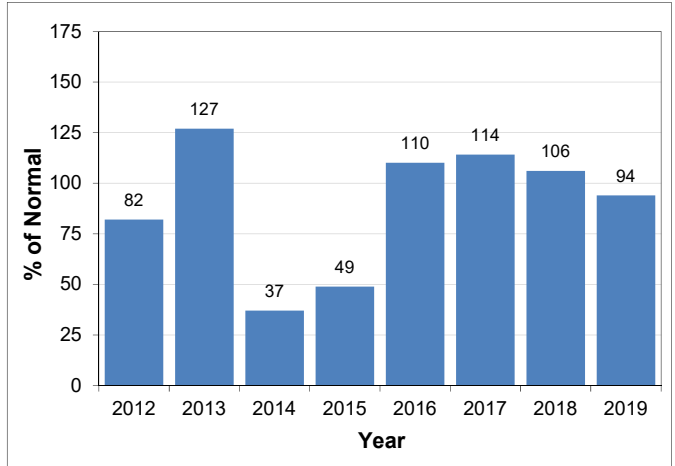


Snow Basin Index Graphs - January 1, 2019

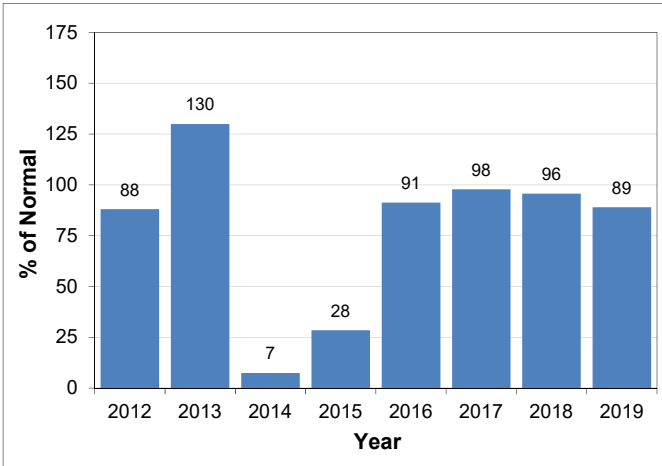
Similkameen



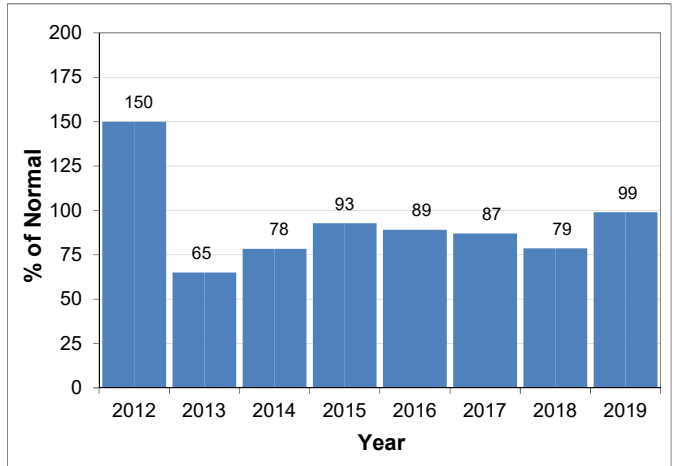
South Coast



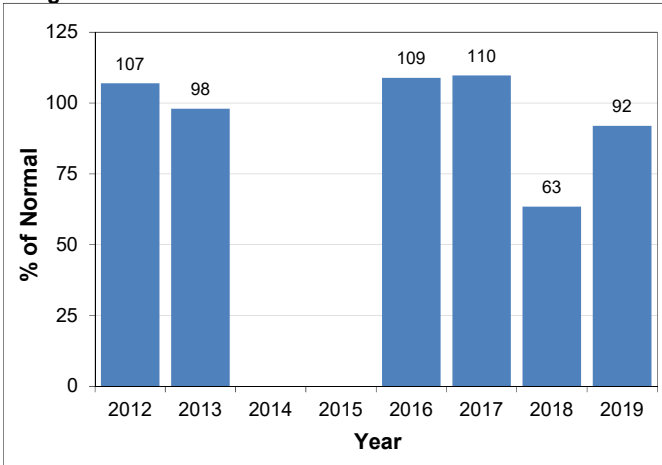
Vancouver Island



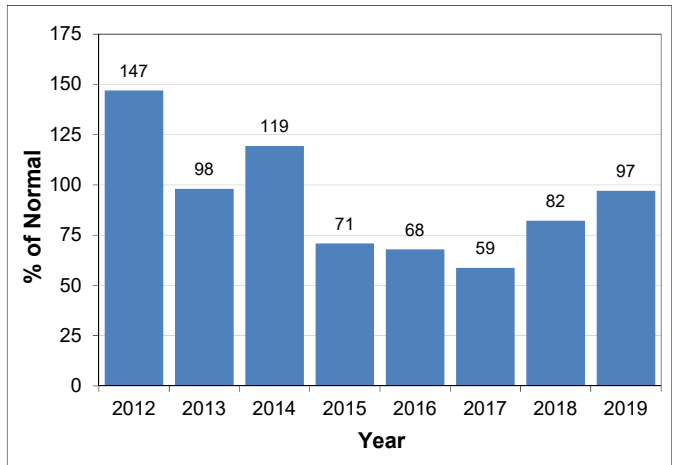
Central Coast



Skagit

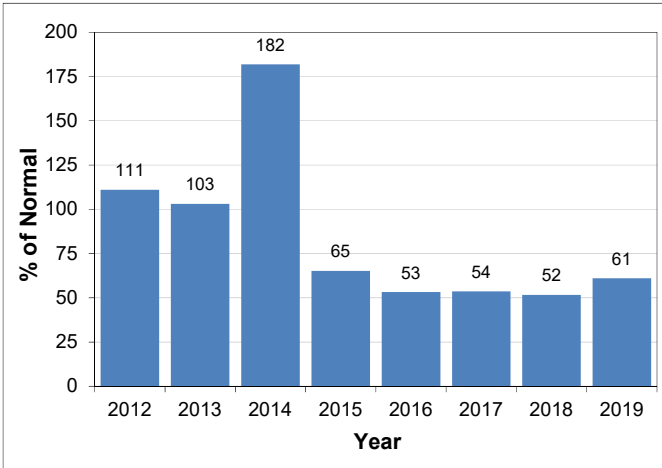


Peace

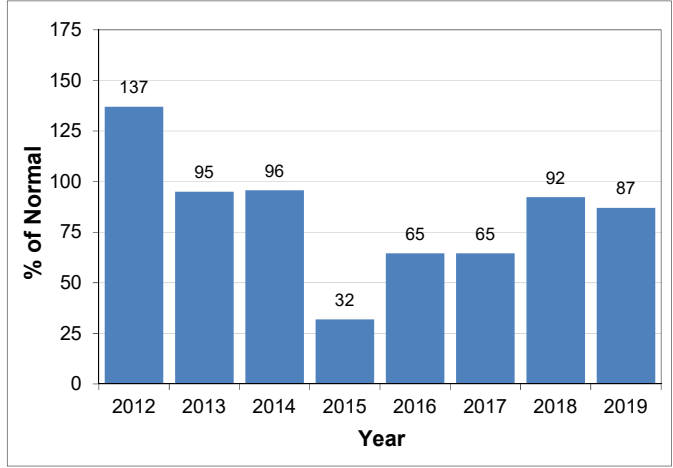


Snow Basin Index Graphs - January 1, 2019

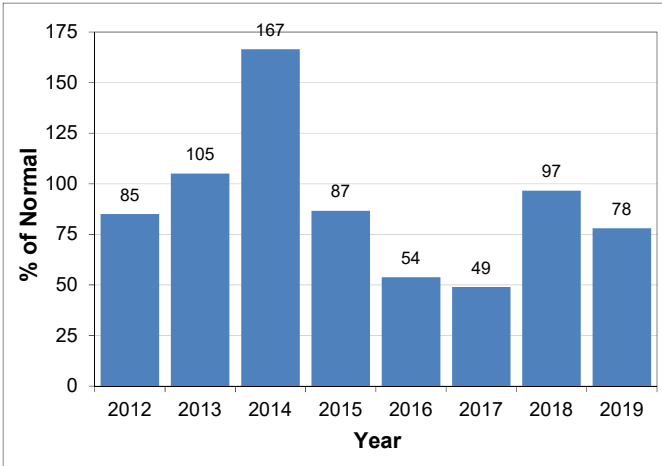
Stikine



Skeena-Nass



Liard



Northwest

