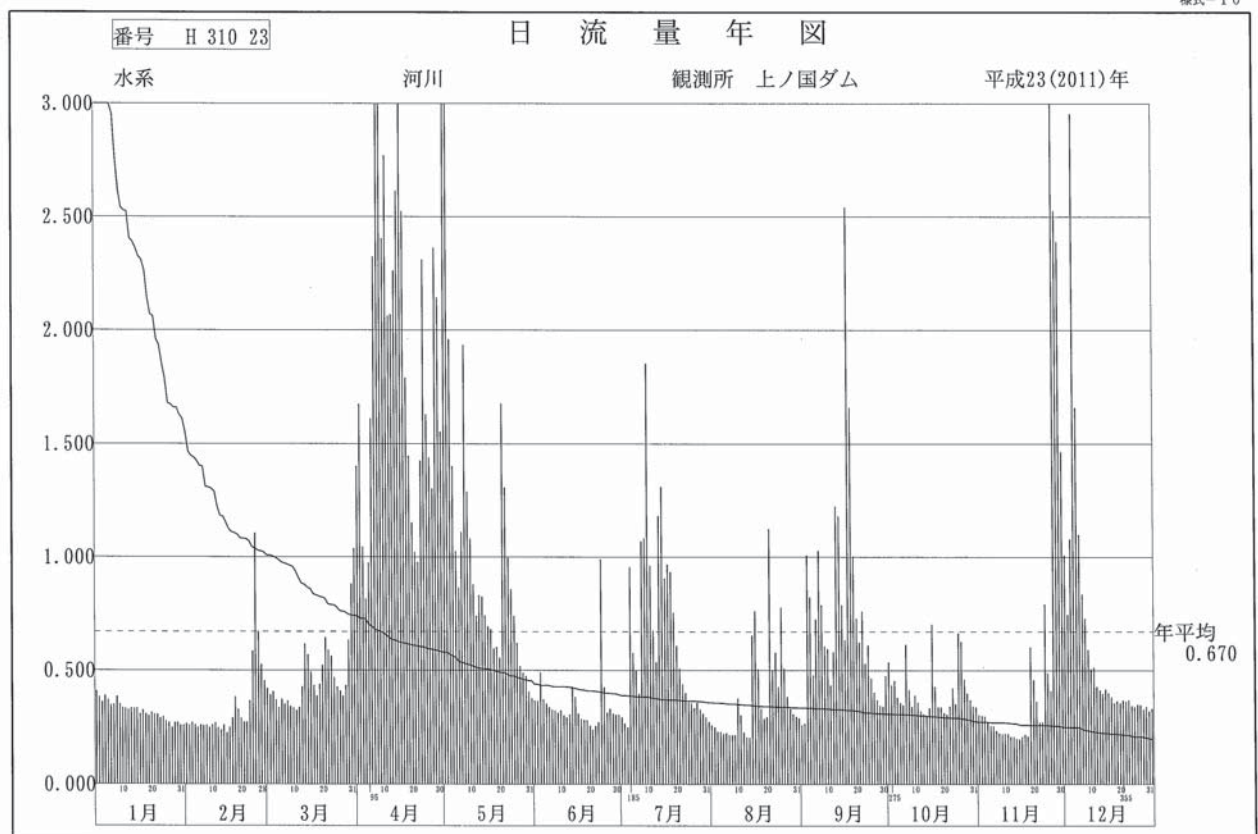


## 日流量年表

| 番 号                  |       | H 310 23        |       | 水 系        |        | 河 川               |        | 観測所 上ノ国ダム |        | 平成 23 ( 2011 ) 年             |        |        |        |                                 |  |               |  |    |  |
|----------------------|-------|-----------------|-------|------------|--------|-------------------|--------|-----------|--------|------------------------------|--------|--------|--------|---------------------------------|--|---------------|--|----|--|
| 日                    | 月     | 1               | 2     | 3          | 4      | 5                 | 6      | 7         | 8      | 9                            | 10     | 11     | 12     |                                 |  |               |  |    |  |
| 1                    | #     | 0.409           | 0.266 | 0.421      | 1.402  | 3.013             | 0.367  | 0.294     | 0.259  | 0.259                        | 0.536  | 0.304  | 1.008  |                                 |  |               |  |    |  |
| 2                    |       | 0.383           | 0.259 | 0.392      | 1.674  | 3.150             | 0.365  | 0.267     | 0.251  | 0.266                        | 0.434  | 0.300  | 0.746  |                                 |  |               |  |    |  |
| 3                    |       | 0.362           | 0.271 | 0.406      | 1.044  | 1.960             | 0.491  | 0.250     | 0.231  | 1.008                        | 0.454  | 0.298  | 1.080  |                                 |  |               |  |    |  |
| 4                    |       | 0.389           | 0.261 | 0.370      | 0.815  | 1.401             | 0.372  | 0.957     | 0.230  | 0.822                        | 0.381  | 0.269  | 2.955  |                                 |  |               |  |    |  |
| 5                    |       | 0.371           | 0.249 | 0.336      | 0.973  | 1.026             | 0.354  | 0.578     | 0.221  | 0.478                        | 0.357  | 0.255  | 1.659  |                                 |  |               |  |    |  |
| 半旬平均                 |       | 0.383           | 0.261 | 0.385      | 1.182  | 2.110             | 0.390  | 0.469     | 0.238  | 0.567                        | 0.432  | 0.285  | 1.490  |                                 |  |               |  |    |  |
| 6                    |       | 0.347           | 0.260 | 0.373      | 1.611  | 0.865             | 0.338  | 0.501     | 0.224  | 0.725                        | 0.347  | 0.255  | 1.099  |                                 |  |               |  |    |  |
| 7                    |       | 0.350           | 0.258 | 0.352      | 2.324  | 1.110             | 0.327  | 0.397     | 0.216  | 1.029                        | 0.614  | 0.235  | 0.835  |                                 |  |               |  |    |  |
| 8                    |       | 0.385           | 0.259 | 0.365      | 9.661  | 1.935             | 0.323  | 1.070     | 0.216  | 0.788                        | 0.414  | 0.224  | 0.728  |                                 |  |               |  |    |  |
| 9                    |       | 0.352           | 0.249 | 0.342      | 3.656  | 1.288             | 0.313  | 1.083     | 0.216  | 0.607                        | 0.340  | 0.220  | 0.591  |                                 |  |               |  |    |  |
| 10                   |       | 0.336           | 0.260 | 0.335      | 2.405  | 1.082             | 0.324  | 1.853     | 0.376  | 0.594                        | 0.389  | 0.222  | 0.506  |                                 |  |               |  |    |  |
| 半旬平均                 |       | 0.354           | 0.257 | 0.353      | 3.931  | 1.256             | 0.325  | 0.981     | 0.250  | 0.749                        | 0.421  | 0.231  | 0.752  |                                 |  |               |  |    |  |
| 11                   |       | 0.333           | 0.270 | 0.324      | 2.770  | 0.879             | 0.302  | 0.962     | 0.303  | 0.434                        | 0.358  | 0.220  | 0.512  |                                 |  |               |  |    |  |
| 12                   |       | 0.327           | 0.248 | 0.337      | 2.062  | 0.741             | 0.293  | 0.676     | 0.227  | 0.582                        | 0.321  | 0.209  | 0.428  |                                 |  |               |  |    |  |
| 13                   |       | 0.334           | 0.237 | 0.428      | 2.068  | 0.831             | 0.306  | 0.537     | 0.206  | 1.224                        | 0.308  | 0.209  | 0.413  |                                 |  |               |  |    |  |
| 14                   |       | 0.333           | 0.260 | 0.617      | 2.262  | 0.825             | 0.429  | 1.182     | 0.205  | 1.180                        | 0.299  | 0.200  | 0.398  |                                 |  |               |  |    |  |
| 15                   | 0.334 | 0.226           | 0.569 | 2.615      | 0.742  | 0.742             | 0.384  | 1.311     | 0.654  | 0.789                        | 0.335  | 0.198  | 0.417  |                                 |  |               |  |    |  |
| 半旬平均                 |       | 0.332           | 0.248 | 0.455      | 2.355  | 0.804             | 0.343  | 0.934     | 0.319  | 0.842                        | 0.324  | 0.207  | 0.434  |                                 |  |               |  |    |  |
| 16                   |       | 0.309           | 0.250 | 0.494      | 3.467  | 0.694             | 0.310  | 0.906     | 0.762  | 0.634                        | 0.702  | 0.209  | 0.400  |                                 |  |               |  |    |  |
| 17                   |       | 0.326           | 0.291 | 0.433      | 2.524  | 0.682             | 0.287  | 0.968     | 0.506  | 2.541                        | 0.428  | 0.218  | 0.383  |                                 |  |               |  |    |  |
| 18                   |       | 0.309           | 0.384 | 0.388      | 1.789  | 0.596             | 0.282  | 0.934     | 0.332  | 1.659                        | 0.339  | 0.210  | 0.356  |                                 |  |               |  |    |  |
| 19                   |       | 0.301           | 0.328 | 0.439      | 1.447  | 0.603             | 0.281  | 0.755     | 0.287  | 1.003                        | 0.338  | 0.603  | 0.365  |                                 |  |               |  |    |  |
| 20                   |       | 0.315           | 0.290 | 0.523      | 1.152  | 0.556             | 0.257  | 0.608     | 0.295  | 0.728                        | 0.313  | 0.458  | 0.357  |                                 |  |               |  |    |  |
| 半旬平均                 |       | 0.312           | 0.309 | 0.455      | 2.076  | 0.626             | 0.283  | 0.834     | 0.436  | 1.313                        | 0.424  | 0.340  | 0.372  |                                 |  |               |  |    |  |
| 21                   |       | 0.306           | 0.273 | 0.645      | 1.022  | 1.677             | 0.240  | 0.509     | 1.124  | 0.623                        | 0.306  | 0.363  | 0.368  |                                 |  |               |  |    |  |
| 22                   |       | 0.306           | 0.273 | 0.589      | 0.977  | 1.308             | 0.256  | 0.439     | 0.502  | 0.760                        | 0.342  | 0.271  | 0.364  |                                 |  |               |  |    |  |
| 23                   |       | 0.291           | 0.366 | 0.563      | 1.425  | 0.997             | 0.272  | 0.401     | 0.579  | 0.530                        | 0.422  | 0.273  | 0.370  |                                 |  |               |  |    |  |
| 24                   |       | 0.297           | 0.585 | 0.469      | 2.311  | 0.858             | 0.989  | 0.360     | 0.428  | 0.611                        | 0.352  | 0.792  | 0.344  |                                 |  |               |  |    |  |
| 25                   | 0.278 | 1.106           | 0.427 | 1.628      | 0.740  | 0.740             | 0.426  | 0.356     | 0.778  | 0.465                        | 0.664  | 0.488  | 0.339  |                                 |  |               |  |    |  |
| 半旬平均                 |       | 0.296           | 0.521 | 0.539      | 1.473  | 1.116             | 0.437  | 0.413     | 0.682  | 0.598                        | 0.417  | 0.437  | 0.357  |                                 |  |               |  |    |  |
| 26                   |       | 0.271           | 0.671 | 0.410      | 1.439  | 0.621             | 0.314  | 0.335     | 0.508  | 0.403                        | 0.626  | 0.409  | 0.350  |                                 |  |               |  |    |  |
| 27                   |       | 0.249           | 0.526 | 0.388      | 1.302  | 0.518             | 0.331  | 0.358     | 0.384  | 0.370                        | 0.460  | 3.374  | 0.348  |                                 |  |               |  |    |  |
| 28                   |       | 0.271           | 0.454 | 0.434      | 2.363  | 0.489             | 0.310  | 0.329     | 0.331  | 0.345                        | 0.399  | 2.527  | 0.328  |                                 |  |               |  |    |  |
| 29                   |       | 0.271           |       | 0.633      | 2.145  | 0.475             | 0.305  | 0.310     | 0.308  | 0.341                        | 0.369  | 2.390  | 0.341  |                                 |  |               |  |    |  |
| 30                   |       | 0.259           |       | 0.882      | 1.553  | 0.408             | 0.305  | 0.293     | 0.297  | 0.475                        | 0.341  | 1.465  | 0.321  |                                 |  |               |  |    |  |
| 31                   | 0.259 |                 | 1.038 |            | 0.377  |                   | 0.377  | 0.274     | 0.290  |                              | 0.338  |        | 0.332  |                                 |  |               |  |    |  |
| 半旬平均                 |       | 0.263           | 0.550 | 0.631      | 1.760  | 0.481             | 0.313  | 0.317     | 0.353  | 0.387                        | 0.422  | 2.033  | 0.337  |                                 |  |               |  |    |  |
| 月合計                  |       | 9.963           | 9.630 | 14.722     | 63.886 | 32.447            | 10.453 | 20.053    | 11.746 | 22.273                       | 12.626 | 17.668 | 19.041 |                                 |  |               |  |    |  |
| 月平均                  |       | 0.321           | 0.344 | 0.475      | 2.130  | 1.047             | 0.348  | 0.647     | 0.379  | 0.742                        | 0.407  | 0.589  | 0.614  |                                 |  |               |  |    |  |
| 比流量                  |       | 1.845           | 1.977 | 2.730      | 12.241 | 6.017             | 2.000  | 3.718     | 2.178  | 4.264                        | 2.339  | 3.385  | 3.529  |                                 |  |               |  |    |  |
| 総流出量×10 <sup>4</sup> |       | 0.860           | 0.832 | 1.272      | 5.521  | 2.804             | 0.902  | 1.733     | 1.015  | 1.923                        | 1.090  | 1.527  | 1.645  |                                 |  |               |  |    |  |
| 総流出高(mm)             |       | 49              | 48    | 73         | 317    | 161               | 52     | 100       | 58     | 111                          | 63     | 88     | 95     |                                 |  |               |  |    |  |
| 流域面積                 |       | km <sup>2</sup> |       | 年最大(ピーク)流量 |        | m <sup>3</sup> /s |        | 年最小流量     |        | m <sup>3</sup> /s            |        | 年総流出量  |        | ×10 <sup>4</sup> m <sup>3</sup> |  | 年総流出高         |  | mm |  |
|                      |       | 17.4            |       | 9.661      |        | ( 4月 8日 )         |        | 0.198     |        | (11月15日)                     |        | 21.124 |        | ×10 <sup>4</sup>                |  | 1214          |  |    |  |
| 観測方法                 |       | 観測機関            |       | 北海道        |        | 観測開始年             |        | 昭和 56 年   |        | * 日流量の月最大値を示す。# 日流量の月最小値を示す。 |        |        |        |                                 |  | 水研様式 流量-8 (改) |  |    |  |



## 日流量年表

番号 □ 315 23

水系 汐泊川

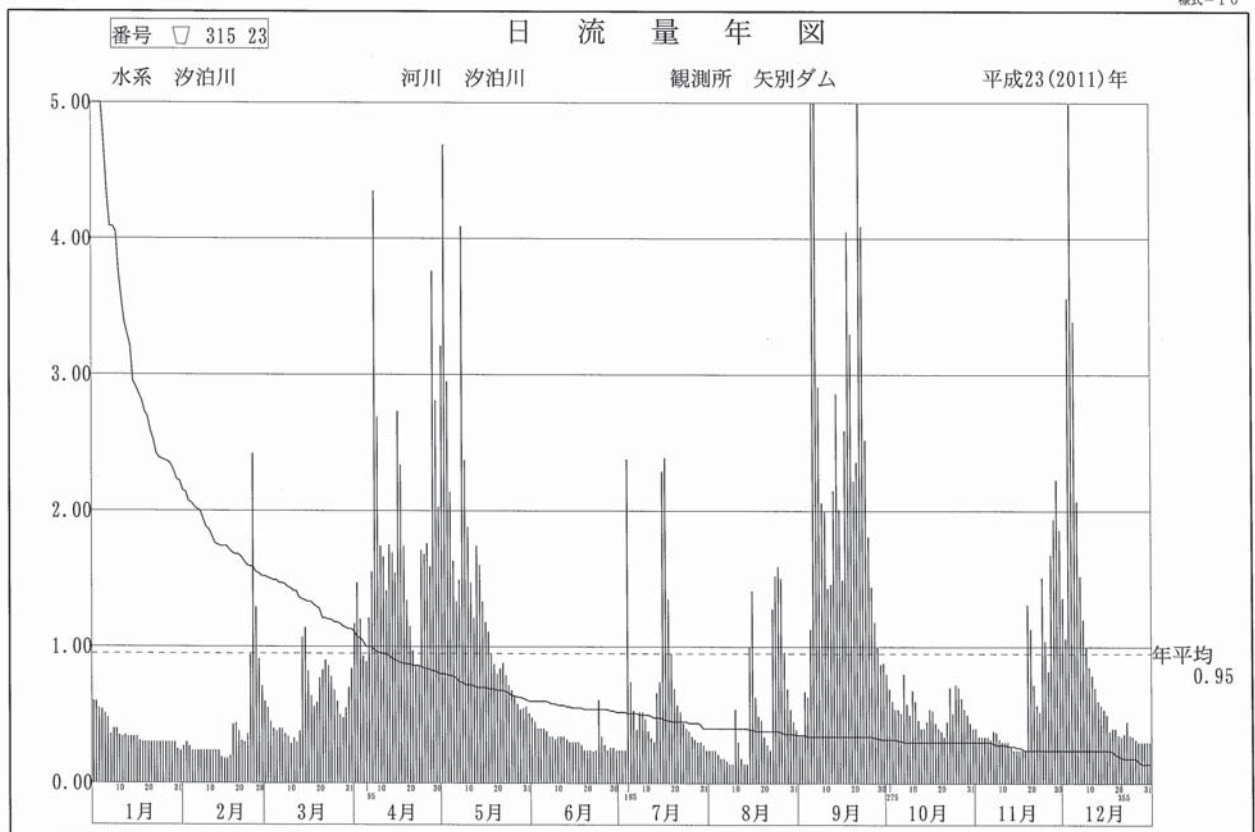
河川 汐泊川

観測所 矢別ダム

平成 23 ( 2011 ) 年

| 日                    | 1                    | 2     | 3                                      | 4     | 5     | 6                                  | 7     | 8     | 9                                     | 10    | 11       | 12    |
|----------------------|----------------------|-------|----------------------------------------|-------|-------|------------------------------------|-------|-------|---------------------------------------|-------|----------|-------|
| 1                    | 0.60                 | 0.27  | 0.60                                   | 1.17  | 3.21  | 0.48                               | 0.24  | 0.24  | 0.34                                  | 0.80  | 0.40     | 1.36  |
| 2                    | #                    | 0.30  | 0.55                                   | 1.47  | #     | 4.69                               | 0.45  | 0.24  | 0.34                                  | 0.69  | 0.34     | 1.06  |
| 3                    | 0.55                 | 0.27  | 0.45                                   | 1.20  | 2.95  | 0.40                               | 0.24  | 0.24  | 0.67                                  | 0.60  | 0.34     | 3.56  |
| 4                    | 0.54                 | 0.24  | 0.40                                   | 0.93  | 2.14  | 0.40                               | 0.24  | 0.21  | 0.63                                  | 0.54  | 0.34     | #     |
| 5                    | 0.51                 | 0.24  | 0.38                                   | 0.89  | 1.63  | 0.40                               | 0.74  | 0.18  | 1.13                                  | 0.54  | 0.34     | 3.39  |
| 半旬平均                 | 0.56                 | 0.26  | 0.48                                   | 1.13  | 2.92  | 0.43                               | 0.77  | 0.22  | 0.62                                  | 0.63  | 0.35     | 3.61  |
| 6                    | 0.48                 | 0.24  | 0.40                                   | 1.21  | 1.33  | 0.38                               | 0.53  | 0.18  | #                                     | 23.92 | 0.51     | 0.32  |
| 7                    | 0.36                 | 0.24  | 0.40                                   | 1.55  | 1.49  | 0.34                               | 0.39  | 0.16  | 5.21                                  | #     | 0.80     | 0.38  |
| 8                    | 0.40                 | 0.24  | 0.36                                   | #     | 4.35  | 4.09                               | 0.34  | 0.52  | 2.91                                  | 0.58  | 0.37     | 1.20  |
| 9                    | 0.40                 | 0.24  | 0.34                                   | 2.69  | 2.37  | 0.32                               | 0.52  | 0.14  | 2.06                                  | 0.50  | 0.32     | 1.00  |
| 10                   | 0.35                 | 0.24  | #                                      | 1.74  | 1.88  | 0.34                               | 0.47  | 0.54  | 2.00                                  | 0.68  | 0.30     | 0.85  |
| 半旬平均                 | 0.40                 | 0.24  | 0.36                                   | 2.31  | 2.23  | 0.34                               | 0.49  | 0.23  | 7.22                                  | 0.61  | 0.34     | 1.33  |
| 11                   | 0.34                 | 0.24  | 0.33                                   | 1.66  | 1.47  | 0.34                               | 0.38  | 0.30  | 1.43                                  | 0.60  | 0.30     | 0.79  |
| 12                   | 0.35                 | 0.24  | 0.30                                   | 1.41  | 1.21  | 0.34                               | 0.33  | 0.18  | 1.46                                  | 0.46  | 0.30     | 0.70  |
| 13                   | 0.34                 | 0.24  | 0.38                                   | 1.75  | 1.74  | 0.32                               | 0.30  | 0.14  | 2.15                                  | 0.40  | 0.27     | 0.60  |
| 14                   | 0.34                 | 0.19  | 1.07                                   | 1.69  | 1.60  | 0.30                               | 0.66  | #     | 2.86                                  | 0.40  | 0.24     | 0.57  |
| 15                   | 0.34                 | 0.18  | #                                      | 1.54  | 1.33  | 0.30                               | 0.74  | 1.00  | 2.01                                  | 0.45  | 0.24     | 0.54  |
| 半旬平均                 | 0.34                 | 0.22  | 0.64                                   | 1.61  | 1.47  | 0.32                               | 0.48  | 0.35  | 1.98                                  | 0.46  | 0.27     | 0.64  |
| 16                   | 0.34                 | #     | 0.18                                   | 2.73  | 1.18  | 0.30                               | 2.29  | 1.41  | 1.49                                  | 0.54  | 0.24     | 0.50  |
| 17                   | 0.31                 | 0.20  | 0.64                                   | 2.34  | 1.11  | 0.30                               | #     | 2.39  | 0.63                                  | 2.59  | 0.53     | 0.38  |
| 18                   | 0.30                 | 0.43  | 0.56                                   | 1.74  | 0.95  | 0.28                               | 1.35  | 0.49  | 4.05                                  | 0.44  | #        | 0.40  |
| 19                   | 0.30                 | 0.44  | 0.59                                   | 1.34  | 0.87  | 0.24                               | 0.95  | 0.46  | 3.30                                  | 0.40  | 1.31     | 0.40  |
| 20                   | 0.30                 | 0.38  | 0.77                                   | 1.15  | 0.80  | 0.24                               | 0.69  | 0.34  | 2.22                                  | 0.38  | 1.13     | 0.35  |
| 半旬平均                 | 0.31                 | 0.33  | 0.68                                   | 1.86  | 0.98  | 0.27                               | 1.53  | 0.67  | 2.73                                  | 0.46  | 0.63     | 0.41  |
| 21                   | 0.30                 | 0.31  | 0.83                                   | 0.97  | 0.84  | 0.24                               | 0.57  | 0.28  | 2.36                                  | #     | 0.34     | 0.34  |
| 22                   | 0.30                 | 0.30  | 0.90                                   | 0.86  | 0.88  | #                                  | 0.23  | 0.52  | 10.18                                 | 0.45  | 0.57     | 0.36  |
| 23                   | 0.30                 | 0.36  | 0.86                                   | #     | 0.86  | 0.79                               | 0.24  | 0.44  | 1.28                                  | 4.09  | 0.70     | 0.52  |
| 24                   | 0.30                 | 0.94  | 0.78                                   | 1.71  | 0.72  | #                                  | 0.61  | 0.40  | 1.52                                  | 2.52  | 0.51     | 1.51  |
| 25                   | 0.30                 | #     | 2.42                                   | 0.68  | 1.68  | 0.34                               | 0.38  | #     | 1.59                                  | 1.81  | 0.72     | 1.04  |
| 半旬平均                 | 0.30                 | 0.87  | 0.81                                   | 1.22  | 0.78  | 0.33                               | 0.46  | 0.98  | 4.19                                  | 0.54  | 0.87     | 0.37  |
| 26                   | 0.30                 | 1.29  | 0.60                                   | 1.76  | 0.64  | 0.28                               | 0.34  | 1.50  | 1.44                                  | 0.70  | 0.82     | 0.32  |
| 27                   | 0.30                 | 0.91  | 0.50                                   | 1.59  | 0.58  | 0.24                               | 0.32  | 0.96  | 1.18                                  | 0.62  | 1.68     | 0.30  |
| 28                   | 0.30                 | 0.71  | 0.48                                   | 3.76  | 0.54  | 0.26                               | 0.30  | 0.69  | 1.00                                  | 0.54  | 1.94     | 0.30  |
| 29                   | 0.30                 |       | 0.55                                   | 2.81  | 0.55  | 0.26                               | 0.30  | 0.54  | 0.87                                  | 0.50  | #        | 2.23  |
| 30                   | 0.25                 |       | 0.70                                   | 2.03  | 0.56  | 0.24                               | 0.28  | 0.45  | 0.88                                  | 0.44  | 1.86     | 0.30  |
| 31                   | #                    | 0.24  | 0.84                                   | #     | 0.51  | #                                  | 0.24  | 0.39  |                                       | 0.40  | #        | 0.30  |
| 半旬平均                 | 0.28                 | 0.97  | 0.61                                   | 2.39  | 0.56  | 0.26                               | 0.30  | 0.76  | 1.07                                  | 0.53  | 1.71     | 0.30  |
| 月合計                  | 11.24                | 12.48 | 18.49                                  | 52.58 | 45.33 | 9.75                               | 20.44 | 16.80 | 89.10                                 | 16.76 | 20.85    | 33.60 |
| 月平均                  | 0.36                 | 0.45  | 0.60                                   | 1.75  | 1.46  | 0.33                               | 0.66  | 0.54  | 2.97                                  | 0.54  | 0.70     | 1.08  |
| 比流量                  | 1.11                 | 1.38  | 1.85                                   | 5.38  | 4.49  | 1.02                               | 2.03  | 1.66  | 9.14                                  | 1.66  | 2.15     | 3.32  |
| 総流出量×10 <sup>6</sup> | 0.96                 | 1.09  | 1.61                                   | 4.54  | 3.91  | 0.86                               | 1.77  | 1.45  | 7.70                                  | 1.45  | 1.81     | 2.89  |
| 総流出高(mm)             | 30                   | 34    | 50                                     | 140   | 120   | 26                                 | 54    | 45    | 237                                   | 45    | 56       | 89    |
| 流域面積                 | 32.5 km <sup>2</sup> |       | 年最大(ピーク)流量 m <sup>3</sup> /s ( 9月 6日 ) |       |       | 年最小流量 m <sup>3</sup> /s ( 8月 14日 ) |       |       | 年総流出量 ×10 <sup>6</sup> m <sup>3</sup> |       | 年総流出高 mm |       |
|                      | 32.5                 |       | 23.92                                  |       |       | 0.14                               |       |       | 30.04                                 |       | 924      |       |

水研様式 流量-8 (改)



## 日流量年表

番号 320 23

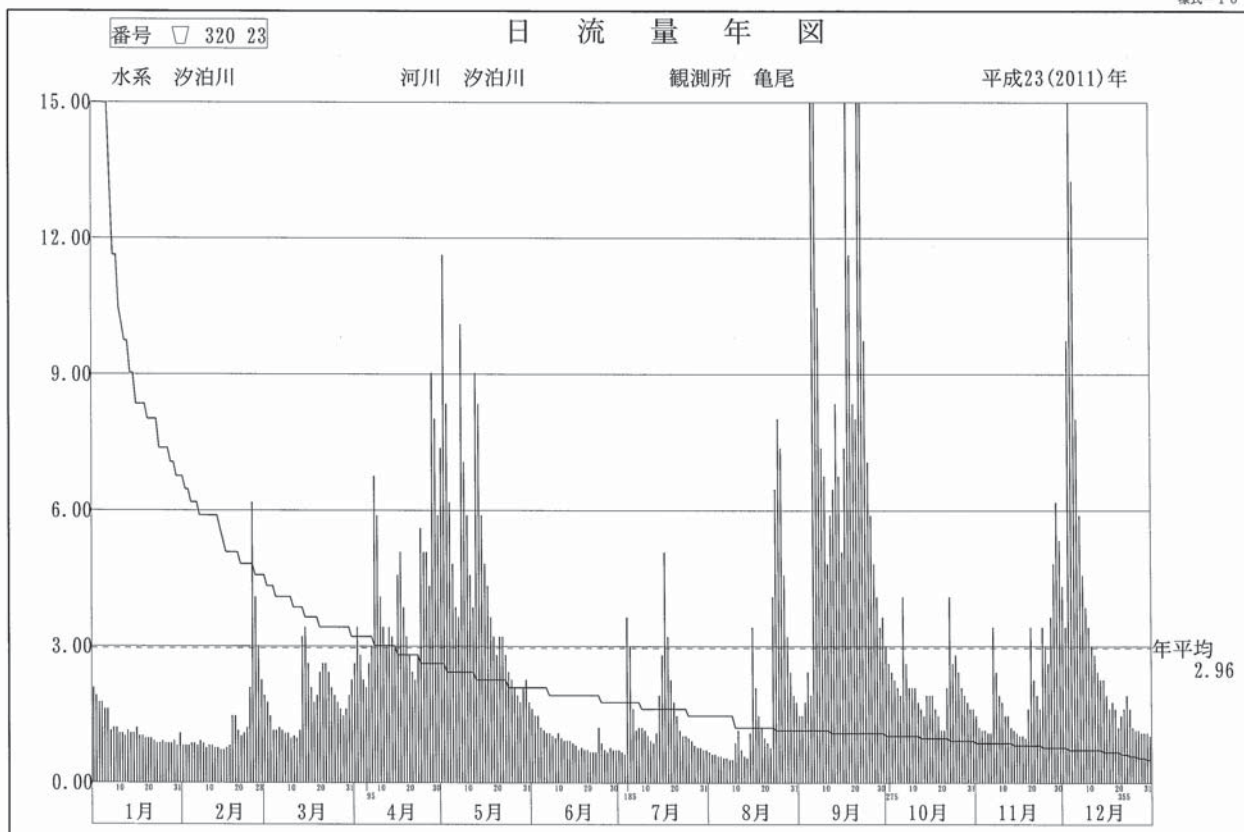
水系 汐泊川

河川 汐泊川

観測所 亀尾

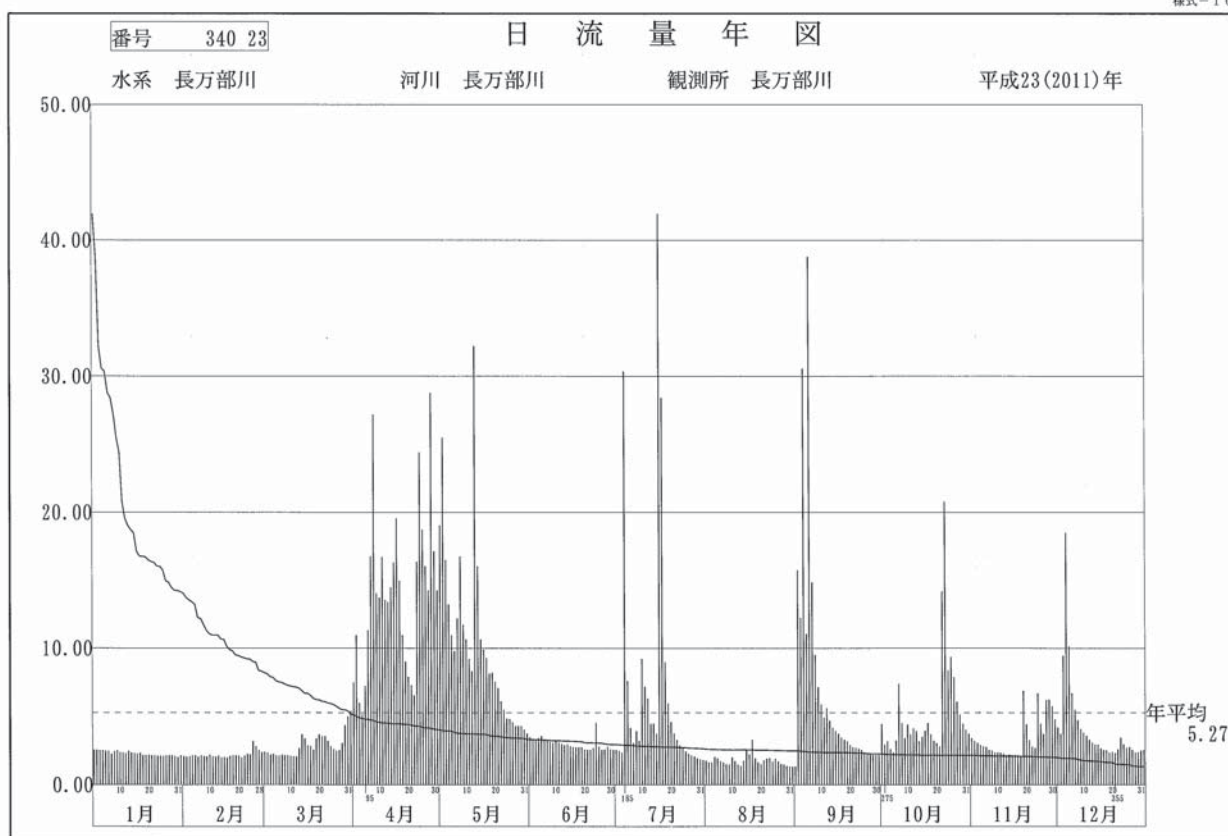
平成 23 ( 2011 ) 年

| 日                  | 1                   | 2     | 3                                  | 4      | 5                           | 6     | 7                               | 8     | 9             | 10    | 11    | 12     |
|--------------------|---------------------|-------|------------------------------------|--------|-----------------------------|-------|---------------------------------|-------|---------------|-------|-------|--------|
| 1                  | 2.09                | 0.82  | 1.92                               | 2.62   | 7.38                        | 1.62  | 0.72                            | 0.67  | 1.47          | 3.01  | 1.47  | 4.33   |
| 2                  | 1.92                | 0.82  | 1.77                               | 3.42   | 11.63                       | 1.47  | 0.67                            | 0.62  | 1.47          | 2.62  | 1.21  | 3.42   |
| 3                  | 1.77                | 0.82  | 1.47                               | 2.81   | 8.35                        | 1.47  | 0.62                            | 0.62  | 1.77          | 2.43  | 1.15  | 9.74   |
| 4                  | 1.77                | 0.87  | 1.15                               | 2.26   | 6.18                        | 1.21  | 3.64                            | 0.58  | 2.43          | 2.26  | 1.15  | 34.07  |
| 5                  | 1.62                | 0.87  | 1.15                               | 2.09   | 4.82                        | 1.15  | 3.01                            | 0.58  | 1.92          | 2.09  | 1.09  | 13.26  |
| 半旬平均               | 1.83                | 0.84  | 1.49                               | 2.64   | 7.67                        | 1.38  | 1.73                            | 0.61  | 1.81          | 2.48  | 1.21  | 12.96  |
| 6                  | 1.62                | 0.82  | 1.21                               | 2.62   | 3.86                        | 1.09  | 1.62                            | 0.54  | 65.46         | 1.92  | 1.09  | 8.02   |
| 7                  | 1.15                | 0.92  | 1.15                               | 3.01   | 3.64                        | 1.09  | 1.15                            | 0.54  | 19.80         | 4.09  | 3.42  | 5.89   |
| 8                  | 1.21                | 0.87  | 1.09                               | 6.76   | 10.10                       | 1.03  | 1.21                            | 0.50  | 10.47         | 2.62  | 2.43  | 4.57   |
| 9                  | 1.21                | 0.77  | 1.09                               | 5.89   | 7.07                        | 0.98  | 1.21                            | 0.50  | 7.38          | 2.09  | 1.92  | 3.86   |
| 10                 | 1.09                | 0.82  | 0.98                               | 4.09   | 5.89                        | 1.09  | 1.15                            | 0.87  | 6.76          | 2.09  | 1.77  | 3.42   |
| 半旬平均               | 1.26                | 0.84  | 1.10                               | 4.47   | 6.11                        | 1.06  | 1.27                            | 0.59  | 21.97         | 2.56  | 2.13  | 5.15   |
| 11                 | 1.09                | 0.82  | 1.03                               | 3.42   | 4.57                        | 0.98  | 1.03                            | 1.15  | 4.82          | 2.09  | 1.47  | 3.01   |
| 12                 | 1.03                | 0.77  | 0.98                               | 3.01   | 3.86                        | 0.92  | 0.92                            | 0.72  | 5.89          | 1.77  | 1.47  | 2.81   |
| 13                 | 1.15                | 0.77  | 1.15                               | 3.42   | 9.03                        | 0.92  | 0.87                            | 0.58  | 6.47          | 1.62  | 1.21  | 2.43   |
| 14                 | 1.09                | 0.72  | 3.21                               | 3.21   | 8.35                        | 0.92  | 1.09                            | 0.54  | 8.35          | 1.47  | 1.15  | 2.26   |
| 15                 | 1.09                | 0.72  | 3.42                               | 3.01   | 5.89                        | 0.87  | 1.92                            | 1.09  | 6.76          | 1.92  | 1.09  | 2.26   |
| 半旬平均               | 1.09                | 0.76  | 1.96                               | 3.21   | 6.34                        | 0.92  | 1.17                            | 0.82  | 6.46          | 1.77  | 1.28  | 2.55   |
| 16                 | 1.21                | 0.77  | 2.62                               | 4.57   | 4.82                        | 0.82  | 2.81                            | 3.42  | 5.08          | 1.92  | 1.03  | 1.92   |
| 17                 | 1.03                | 0.82  | 2.09                               | 5.08   | 4.33                        | 0.72  | 5.08                            | 2.09  | 7.38          | 1.92  | 1.03  | 1.62   |
| 18                 | 1.03                | 1.47  | 1.77                               | 3.86   | 3.64                        | 0.77  | 3.21                            | 1.47  | 14.99         | 1.62  | 0.98  | 1.77   |
| 19                 | 0.98                | 1.47  | 1.92                               | 3.21   | 3.21                        | 0.72  | 2.26                            | 1.21  | 11.63         | 1.47  | 1.62  | 1.62   |
| 20                 | 0.98                | 1.15  | 2.43                               | 2.81   | 2.81                        | 0.72  | 1.77                            | 0.98  | 8.35          | 1.15  | 3.42  | 1.21   |
| 半旬平均               | 1.05                | 1.14  | 2.17                               | 3.91   | 3.76                        | 0.75  | 3.03                            | 1.83  | 9.49          | 1.62  | 1.62  | 1.63   |
| 21                 | 0.98                | 1.03  | 2.62                               | 2.43   | 3.21                        | 0.67  | 1.47                            | 0.87  | 8.02          | 1.15  | 2.26  | 1.47   |
| 22                 | 0.92                | 1.09  | 2.62                               | 2.26   | 3.21                        | 0.67  | 1.15                            | 0.77  | 28.89         | 2.09  | 1.92  | 1.62   |
| 23                 | 0.87                | 1.21  | 2.43                               | 2.81   | 2.81                        | 0.67  | 1.03                            | 4.09  | 14.99         | 4.09  | 1.62  | 1.92   |
| 24                 | 0.87                | 2.09  | 2.09                               | 5.61   | 2.43                        | 1.21  | 1.03                            | 6.47  | 9.74          | 2.62  | 3.42  | 1.62   |
| 25                 | 0.92                | 6.18  | 1.92                               | 5.08   | 2.26                        | 0.87  | 0.98                            | 8.02  | 7.07          | 2.81  | 3.01  | 1.21   |
| 半旬平均               | 0.91                | 2.32  | 2.34                               | 3.64   | 2.78                        | 0.82  | 1.13                            | 4.04  | 13.74         | 2.55  | 2.45  | 1.57   |
| 26                 | 0.87                | 4.09  | 1.77                               | 5.08   | 2.09                        | 0.72  | 0.92                            | 7.38  | 5.89          | 2.43  | 2.62  | 1.15   |
| 27                 | 0.87                | 3.01  | 1.62                               | 4.33   | 1.92                        | 0.67  | 0.82                            | 4.57  | 4.82          | 2.09  | 3.64  | 1.15   |
| 28                 | 0.87                | 2.26  | 1.47                               | 9.03   | 1.77                        | 0.77  | 0.77                            | 3.21  | 4.09          | 1.92  | 4.82  | 1.09   |
| 29                 | 0.92                |       | 1.62                               | 8.02   | 2.09                        | 0.72  | 0.77                            | 2.43  | 3.42          | 1.77  | 6.18  | 1.09   |
| 30                 | 0.82                |       | 1.92                               | 5.89   | 2.26                        | 0.72  | 0.72                            | 1.92  | 3.64          | 1.62  | 5.34  | 1.09   |
| 31                 | 1.09                |       | 2.26                               |        | 1.77                        | 0.72  | 0.72                            | 1.77  |               | 1.62  |       | 1.03   |
| 半旬平均               | 0.91                | 3.12  | 1.78                               | 6.47   | 1.98                        | 0.72  | 0.79                            | 3.55  | 4.37          | 1.91  | 4.52  | 1.10   |
| 月合計                | 36.13               | 38.84 | 55.94                              | 121.71 | 145.25                      | 28.25 | 46.34                           | 60.77 | 289.22        | 66.38 | 66.00 | 125.93 |
| 月平均                | 1.17                | 1.39  | 1.80                               | 4.06   | 4.69                        | 0.94  | 1.49                            | 1.96  | 9.64          | 2.14  | 2.20  | 4.06   |
| 比流量                | 1.00                | 1.19  | 1.54                               | 3.47   | 4.01                        | 0.80  | 1.27                            | 1.67  | 8.23          | 1.83  | 1.88  | 3.47   |
| 総流出量 $\times 10^4$ | 3.13                | 3.36  | 4.82                               | 10.52  | 12.56                       | 2.44  | 3.99                            | 5.25  | 24.99         | 5.73  | 5.70  | 10.87  |
| 総流出量(mm)           | 27                  | 29    | 41                                 | 90     | 107                         | 21    | 34                              | 45    | 213           | 49    | 49    | 93     |
| 流域面積               | 117.1 $\text{km}^2$ |       | 年最大 (ピーク) 流量 $\text{m}^3/\text{s}$ |        | 年最小流量 $\text{m}^3/\text{s}$ |       | 年総流出量 $\times 10^4 \text{ m}^3$ |       | 年総流出高         |       |       |        |
| 観測方法               | 観測機関                |       | 年最大 (ピーク) 流量 ( 9月 6日)              |        | 年最小流量 ( 8月 9日)              |       | 年総流出量 93.36                     |       | 年総流出高 797 mm  |       |       |        |
| 観測方法               | 観測機関                |       | 観測開始年                              |        | 昭和 51 年                     |       | * 日流量の月最大値を示す。# 日流量の月最小値を示す。    |       | 水研様式 流量-8 (改) |       |       |        |



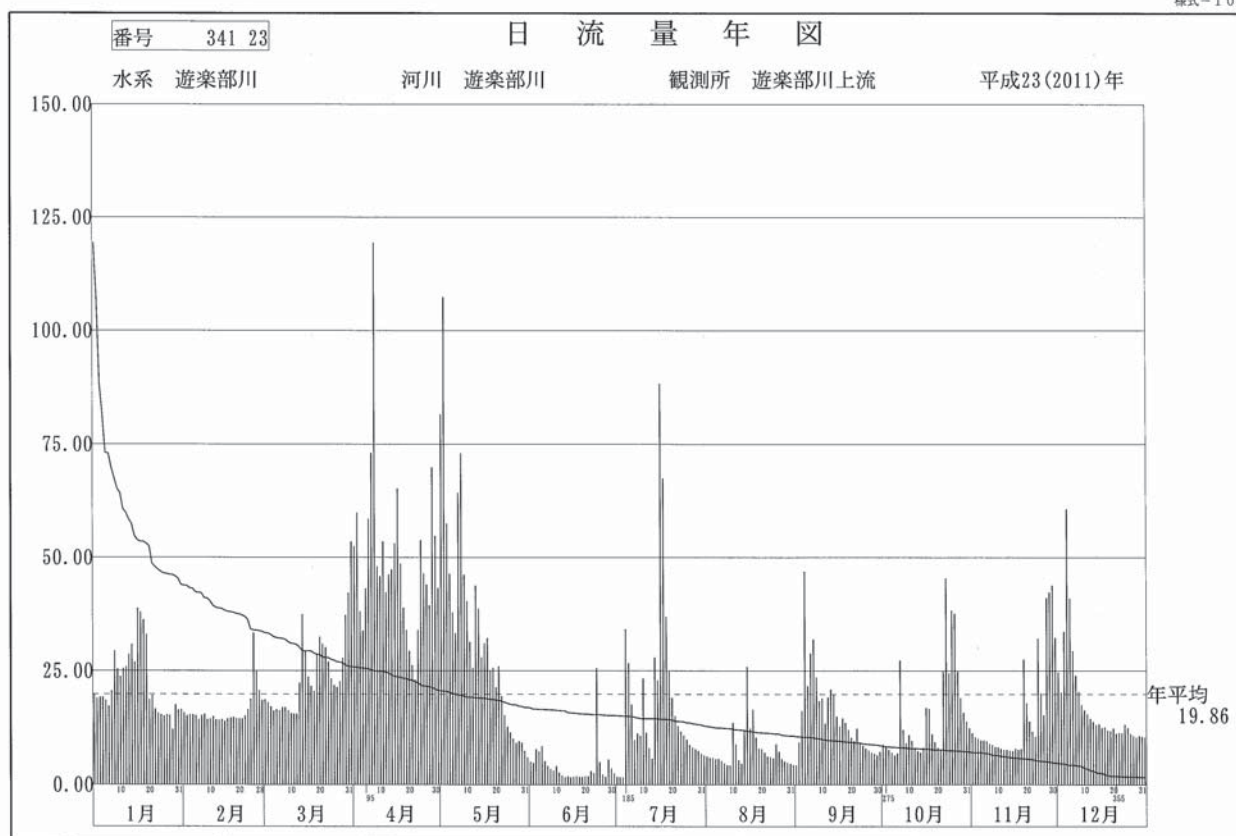
## 日流量年表

| 番 号                  | 340 23               | 水 系   | 長万部川       | 河 川    | 長万部川                                    | 観測所   | 長万部川   | 平成 23 ( 2011 ) 年 |                                       |        |                              |        |
|----------------------|----------------------|-------|------------|--------|-----------------------------------------|-------|--------|------------------|---------------------------------------|--------|------------------------------|--------|
| 日                    | 1                    | 2     | 3          | 4      | 5                                       | 6     | 7      | 8                | 9                                     | 10     | 11                           | 12     |
| 1                    | 2.55                 | 2.10  | 2.41       | 7.48   | 19.03                                   | 3.48  | 2.55   | 1.76             | 1.33                                  | 4.43   | 3.41                         | 4.18   |
| 2                    | 2.55                 | 2.06  | 2.35       | 10.96  | 25.49                                   | 3.28  | 2.48   | 1.63             | 15.75                                 | 2.94   | 3.20                         | 3.72   |
| 3                    | 2.51                 | 2.07  | 2.20       | 5.98   | 16.49                                   | 3.30  | 2.35   | 1.64             | 12.23                                 | 3.19   | 3.06                         | 9.45   |
| 4                    | 2.51                 | 2.16  | 2.26       | 5.15   | 13.22                                   | 3.41  | 30.36  | 2.03             | 30.55                                 | 2.60   | 2.90                         | 18.49  |
| 5                    | 2.48                 | 2.15  | 2.16       | 7.22   | 10.95                                   | 3.56  | 7.60   | 1.93             | 11.05                                 | 2.35   | 2.79                         | 10.14  |
| 半旬平均                 | 2.52                 | 2.11  | 2.28       | 7.36   | 17.04                                   | 3.41  | 9.07   | 1.80             | 14.18                                 | 3.10   | 3.07                         | 9.20   |
| 6                    | 2.48                 | 2.05  | 2.14       | 11.30  | 9.79                                    | 3.31  | 4.15   | 1.73             | 38.78                                 | 3.23   | 2.76                         | 6.69   |
| 7                    | 2.26                 | 2.16  | 2.19       | 16.77  | 12.19                                   | 3.23  | 3.07   | 1.63             | 14.85                                 | 7.37   | 2.55                         | 5.49   |
| 8                    | 2.44                 | 2.09  | 2.16       | 27.19  | 16.75                                   | 3.15  | 3.94   | 1.50             | 9.50                                  | 4.52   | 2.50                         | 4.73   |
| 9                    | 2.53                 | 2.08  | 2.15       | 14.04  | 11.72                                   | 3.06  | 3.23   | 1.48             | 7.14                                  | 3.41   | 2.35                         | 4.07   |
| 10                   | 2.38                 | 2.19  | 2.10       | 13.72  | 10.65                                   | 3.25  | 9.22   | 2.01             | 5.86                                  | 4.40   | 2.35                         | 3.81   |
| 半旬平均                 | 2.42                 | 2.11  | 2.15       | 16.60  | 12.22                                   | 3.20  | 4.72   | 1.67             | 15.23                                 | 4.59   | 2.50                         | 4.96   |
| 11                   | 2.35                 | 2.07  | 2.08       | 16.72  | 9.20                                    | 3.08  | 7.18   | 1.73             | 4.89                                  | 3.70   | 2.34                         | 3.59   |
| 12                   | 2.29                 | 2.06  | 2.07       | 13.54  | 8.31                                    | 2.99  | 6.31   | 1.48             | 5.59                                  | 4.12   | 2.29                         | 3.30   |
| 13                   | 2.48                 | 2.12  | 2.67       | 13.40  | 32.22                                   | 2.90  | 4.45   | 1.37             | 4.69                                  | 3.93   | 2.17                         | 3.07   |
| 14                   | 2.35                 | 2.01  | 3.69       | 14.47  | 16.02                                   | 2.95  | 4.47   | 1.74             | 4.17                                  | 3.17   | 2.20                         | 2.94   |
| 15                   | 2.32                 | 2.03  | 3.38       | 16.31  | 10.66                                   | 2.83  | 3.72   | 2.52             | 3.93                                  | 3.50   | 2.16                         | 2.93   |
| 半旬平均                 | 2.36                 | 2.06  | 2.78       | 14.89  | 15.28                                   | 2.95  | 5.23   | 1.77             | 4.65                                  | 3.68   | 2.23                         | 3.17   |
| 16                   | 2.26                 | 1.99  | 2.88       | 19.57  | 9.89                                    | 2.76  | 41.94  | 2.22             | 3.73                                  | 3.95   | 2.18                         | 2.66   |
| 17                   | 2.33                 | 2.09  | 2.83       | 14.96  | 9.28                                    | 2.73  | 28.42  | 3.29             | 3.45                                  | 4.51   | 2.16                         | 2.54   |
| 18                   | 2.16                 | 2.16  | 2.57       | 10.96  | 8.13                                    | 2.74  | 8.98   | 1.94             | 3.29                                  | 3.70   | 2.09                         | 2.52   |
| 19                   | 2.16                 | 2.16  | 3.39       | 9.01   | 8.19                                    | 2.74  | 5.95   | 1.65             | 3.16                                  | 3.20   | 6.88                         | 2.35   |
| 20                   | 2.18                 | 2.12  | 3.67       | 7.90   | 7.53                                    | 2.56  | 4.59   | 1.49             | 2.91                                  | 3.04   | 4.42                         | 2.39   |
| 半旬平均                 | 2.22                 | 2.10  | 3.07       | 12.48  | 8.60                                    | 2.71  | 17.98  | 2.12             | 3.31                                  | 3.68   | 3.55                         | 2.49   |
| 21                   | 2.16                 | 2.00  | 3.55       | 7.28   | 7.07                                    | 2.55  | 3.76   | 1.77             | 2.76                                  | 2.81   | 3.26                         | 2.32   |
| 22                   | 2.16                 | 2.12  | 3.55       | 6.54   | 6.10                                    | 2.55  | 3.27   | 1.91             | 2.71                                  | 14.16  | 2.78                         | 2.59   |
| 23                   | 2.12                 | 2.26  | 3.21       | 16.37  | 5.48                                    | 2.68  | 2.89   | 1.94             | 2.63                                  | 20.79  | 2.69                         | 3.44   |
| 24                   | 2.12                 | 2.22  | 2.82       | 24.42  | 4.84                                    | 4.52  | 2.65   | 1.69             | 2.54                                  | 8.37   | 6.69                         | 2.96   |
| 25                   | 2.10                 | 3.19  | 2.61       | 18.73  | 4.80                                    | 2.79  | 2.45   | 1.92             | 2.37                                  | 9.35   | 4.45                         | 2.71   |
| 半旬平均                 | 2.13                 | 2.36  | 3.15       | 14.67  | 5.66                                    | 3.02  | 3.00   | 1.85             | 2.60                                  | 11.10  | 3.97                         | 2.80   |
| 26                   | 2.16                 | 2.82  | 2.49       | 16.04  | 4.56                                    | 2.55  | 2.26   | 1.71             | 2.32                                  | 7.86   | 3.72                         | 2.75   |
| 27                   | 2.16                 | 2.55  | 2.54       | 14.24  | 4.29                                    | 2.57  | 2.15   | 1.52             | 2.20                                  | 6.08   | 6.21                         | 2.55   |
| 28                   | 2.16                 | 2.38  | 3.05       | 28.78  | 4.30                                    | 2.79  | 2.07   | 1.48             | 2.18                                  | 5.13   | 6.23                         | 2.35   |
| 29                   | 2.09                 |       | 4.36       | 17.13  | 4.28                                    | 2.59  | 1.93   | 1.37             | 2.18                                  | 4.46   | 5.75                         | 2.37   |
| 30                   | 2.02                 |       | 4.99       | 14.25  | 4.03                                    | 2.55  | 1.85   | 1.32             | 2.21                                  | 4.02   | 4.78                         | 2.50   |
| 31                   | 2.15                 |       | 5.41       |        | 3.76                                    |       | 1.80   | 1.33             |                                       | 3.73   |                              | 2.54   |
| 半旬平均                 | 2.12                 | 2.58  | 3.81       | 18.09  | 4.20                                    | 2.61  | 2.01   | 1.46             | 2.22                                  | 5.21   | 5.34                         | 2.51   |
| 月合計                  | 70.97                | 61.46 | 89.93      | 420.43 | 319.22                                  | 89.45 | 212.04 | 54.73            | 210.95                                | 162.02 | 103.32                       | 128.14 |
| 月平均                  | 2.29                 | 2.20  | 2.90       | 14.01  | 10.30                                   | 2.88  | 6.84   | 1.77             | 7.03                                  | 5.23   | 3.44                         | 4.13   |
| 比流量                  | 2.57                 | 2.47  | 3.25       | 15.72  | 11.56                                   | 3.34  | 7.68   | 1.99             | 7.89                                  | 5.87   | 3.86                         | 4.64   |
| 総流出量×10 <sup>3</sup> | 6.13                 | 5.32  | 7.77       | 36.31  | 27.59                                   | 7.72  | 18.32  | 4.74             | 18.22                                 | 14.01  | 8.92                         | 11.06  |
| 総流出高(mm)             | 69                   | 60    | 87         | 408    | 310                                     | 87    | 206    | 53               | 204                                   | 157    | 100                          | 124    |
| 流域面積                 | 89.1 km <sup>2</sup> |       | 年最大(ピーク)流量 |        | 129.55 m <sup>3</sup> /s ( 7月16日22時20分) |       | 年最小流量  |                  | 1.32 m <sup>3</sup> /s ( 9月 1日22時 0分) |        | 年総流出量                        |        |
| 観測方法                 | 流速計                  |       | 観測機関       |        | 北海道                                     |       | 観測開始年  |                  | 平成 10 年                               |        | * 日流量の月最大値を示す。* 日流量の月最小値を示す。 |        |
| 水研様式 流量-8 (改)        |                      |       |            |        |                                         |       |        |                  |                                       |        |                              |        |



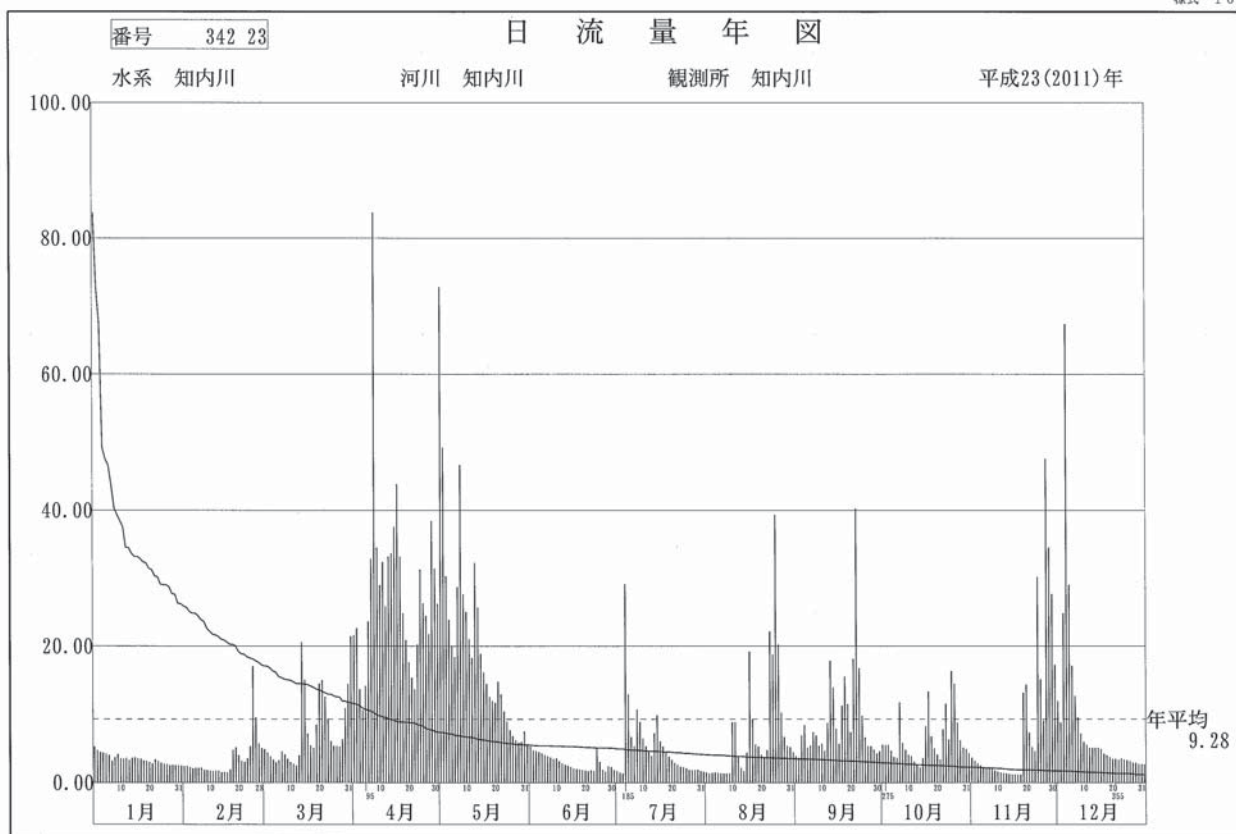
## 日流量年表

| 番 号                          | 341 23                |        | 水 系 遊楽部川   |         | 河 川 遊楽部川                                |        | 観測所 遊楽部川上流 |        | 平成 23 ( 2011 ) 年                      |        |        |        |
|------------------------------|-----------------------|--------|------------|---------|-----------------------------------------|--------|------------|--------|---------------------------------------|--------|--------|--------|
| 日 月                          | 1                     | 2      | 3          | 4       | 5                                       | 6      | 7          | 8      | 9                                     | 10     | 11     | 12     |
| 1                            | 19.81                 | 15.76  | 18.71      | 52.49   | 81.56                                   | 5.04   | 1.77       | 6.20   | 4.33                                  | 8.80   | 11.32  | 24.66  |
| 2                            | 18.97                 | 15.16  | 18.09      | 59.92   | 107.36                                  | 4.78   | 1.69       | 5.87   | 9.31                                  | 8.35   | 10.43  | 20.24  |
| 3                            | 19.21                 | 15.38  | 17.17      | 38.08   | 57.44                                   | 7.80   | 1.61       | 5.87   | 16.22                                 | 7.66   | 10.13  | 33.65  |
| 4                            | 19.21                 | 15.38  | 16.23      | 33.82   | 46.41                                   | 7.28   | 34.18      | 5.62   | 46.87                                 | 7.02   | 9.73   | 60.74  |
| 5                            | 18.54                 | 15.16  | 16.53      | 43.16   | 37.85                                   | 8.44   | 26.70      | 5.69   | 21.65                                 | 6.44   | 9.70   | 40.97  |
| 半旬平均                         | 19.15                 | 15.37  | 17.35      | 45.49   | 66.12                                   | 6.67   | 13.19      | 5.85   | 19.68                                 | 7.65   | 10.26  | 36.05  |
| 6                            | 17.24                 | 14.37  | 16.33      | 58.48   | 33.28                                   | 5.20   | 17.64      | 5.19   | 28.85                                 | 6.91   | 9.49   | 29.37  |
| 7                            | 20.58                 | 15.23  | 16.96      | 73.06   | 64.25                                   | 4.11   | 9.79       | 4.68   | 31.93                                 | 27.31  | 8.99   | 23.99  |
| 8                            | 29.40                 | 15.50  | 16.96      | 119.40  | 73.01                                   | 3.48   | 11.27      | 4.31   | 23.57                                 | 12.02  | 8.71   | 20.46  |
| 9                            | 25.40                 | 14.35  | 16.29      | 47.98   | 46.20                                   | 3.10   | 10.74      | 4.25   | 18.29                                 | 9.15   | 8.31   | 17.53  |
| 10                           | 23.75                 | 14.45  | 15.68      | 45.87   | 40.44                                   | 4.08   | 23.31      | 13.58  | 18.95                                 | 10.88  | 8.20   | 16.41  |
| 半旬平均                         | 23.27                 | 14.78  | 16.44      | 68.96   | 51.44                                   | 3.99   | 14.55      | 6.40   | 24.32                                 | 13.25  | 8.74   | 21.55  |
| 11                           | 25.53                 | 14.99  | 15.57      | 53.54   | 31.37                                   | 2.66   | 11.42      | 8.91   | 13.41                                 | 9.61   | 7.90   | 15.49  |
| 12                           | 25.87                 | 14.29  | 15.53      | 42.26   | 25.67                                   | 2.02   | 8.04       | 5.38   | 19.15                                 | 8.12   | 7.66   | 14.48  |
| 13                           | 28.62                 | 14.22  | 22.35      | 46.23   | 43.78                                   | 1.65   | 5.75       | 4.64   | 20.91                                 | 7.40   | 7.69   | 13.80  |
| 14                           | 30.79                 | 14.34  | 37.51      | 47.35   | 38.71                                   | 1.86   | 27.92      | 11.99  | 19.74                                 | 7.04   | 7.48   | 13.13  |
| 15                           | 26.91                 | 13.92  | 29.36      | 53.12   | 27.97                                   | 1.69   | 22.95      | 25.85  | 14.98                                 | 8.14   | 7.40   | 13.31  |
| 半旬平均                         | 27.54                 | 14.35  | 24.06      | 48.50   | 33.50                                   | 1.98   | 15.22      | 11.35  | 17.64                                 | 8.06   | 7.63   | 14.04  |
| 16                           | 38.79                 | 14.48  | 23.65      | 65.22   | 31.04                                   | 1.70   | 88.30      | 12.33  | 12.82                                 | 16.87  | 7.90   | 12.48  |
| 17                           | 37.97                 | 14.67  | 21.64      | 48.66   | 32.19                                   | 1.88   | 67.50      | 16.47  | 14.55                                 | 16.61  | 7.66   | 12.61  |
| 18                           | 36.26                 | 14.82  | 20.50      | 38.93   | 25.13                                   | 1.77   | 36.94      | 10.36  | 13.57                                 | 11.14  | 7.82   | 11.91  |
| 19                           | 32.97                 | 14.48  | 28.56      | 33.96   | 25.65                                   | 1.70   | 24.90      | 7.89   | 12.05                                 | 9.37   | 27.49  | 11.74  |
| 20                           | 18.71                 | 14.48  | 32.49      | 29.37   | 21.37                                   | 1.84   | 19.08      | 7.85   | 10.28                                 | 8.15   | 17.87  | 12.36  |
| 半旬平均                         | 32.94                 | 14.59  | 25.37      | 43.23   | 27.08                                   | 1.78   | 47.34      | 10.98  | 12.65                                 | 12.43  | 13.75  | 12.22  |
| 21                           | 19.62                 | 14.48  | 30.96      | 26.22   | 25.98                                   | 1.86   | 15.06      | 7.07   | 9.61                                  | 7.66   | 13.89  | 11.19  |
| 22                           | 16.61                 | 15.08  | 30.19      | 22.98   | 19.40                                   | 3.00   | 12.90      | 6.23   | 12.32                                 | 24.93  | 11.68  | 11.36  |
| 23                           | 15.72                 | 16.49  | 26.96      | 33.92   | 15.20                                   | 2.50   | 11.65      | 6.08   | 9.32                                  | 45.38  | 10.56  | 11.29  |
| 24                           | 15.42                 | 18.83  | 23.28      | 53.82   | 12.72                                   | 25.60  | 10.81      | 5.80   | 8.59                                  | 24.49  | 32.10  | 13.19  |
| 25                           | 15.10                 | 33.37  | 21.82      | 46.50   | 11.49                                   | 5.00   | 9.92       | 8.86   | 7.96                                  | 38.32  | 20.03  | 12.45  |
| 半旬平均                         | 16.49                 | 19.65  | 26.64      | 36.69   | 16.96                                   | 7.59   | 12.07      | 6.81   | 9.56                                  | 28.16  | 17.65  | 11.90  |
| 26                           | 15.38                 | 24.91  | 21.42      | 44.00   | 10.10                                   | 2.25   | 8.76       | 7.24   | 7.51                                  | 37.59  | 15.27  | 11.16  |
| 27                           | 15.20                 | 20.67  | 22.60      | 39.39   | 9.17                                    | 1.76   | 8.23       | 5.64   | 7.04                                  | 24.80  | 41.08  | 10.72  |
| 28                           | 12.18                 | 18.56  | 27.86      | 69.89   | 9.57                                    | 5.52   | 7.80       | 5.13   | 6.79                                  | 19.02  | 42.34  | 10.43  |
| 29                           | 17.54                 |        | 37.25      | 54.78   | 9.25                                    | 3.58   | 7.45       | 4.80   | 6.44                                  | 15.84  | 43.83  | 10.72  |
| 30                           | 16.42                 |        | 42.17      | 43.23   | 7.43                                    | 2.50   | 6.84       | 4.62   | 7.23                                  | 13.87  | 32.28  | 10.53  |
| 31                           | 16.53                 |        | 53.51      |         | 5.99                                    |        | 6.47       | 4.31   |                                       | 12.44  |        | 10.43  |
| 半旬平均                         | 15.54                 | 21.38  | 34.14      | 50.26   | 8.59                                    | 3.12   | 7.59       | 5.29   | 7.00                                  | 20.59  | 34.96  | 10.67  |
| 月合計                          | 690.25                | 457.82 | 754.13     | 1465.63 | 1026.98                                 | 125.65 | 557.39     | 238.71 | 454.24                                | 471.33 | 464.94 | 542.80 |
| 月平均                          | 22.27                 | 16.35  | 24.33      | 48.85   | 33.13                                   | 4.19   | 17.98      | 7.70   | 15.14                                 | 15.20  | 15.50  | 17.51  |
| 比流量                          | 9.30                  | 6.83   | 10.16      | 20.40   | 13.83                                   | 1.75   | 7.51       | 3.22   | 6.32                                  | 6.35   | 6.47   | 7.31   |
| 総流出量×10 <sup>8</sup>         | 59.65                 | 39.55  | 65.17      | 126.62  | 88.74                                   | 10.86  | 48.16      | 20.62  | 39.24                                 | 40.71  | 40.18  | 46.90  |
| 総流出高(mm)                     | 249                   | 165    | 272        | 529     | 371                                     | 45     | 201        | 86     | 164                                   | 170    | 168    | 196    |
| 流域面積                         | 239.5 km <sup>2</sup> |        | 年最大(ピーク)流量 |         | 207.35 m <sup>3</sup> /s ( 7月16日21時 0分) |        | 年最小流量      |        | 1.61 m <sup>3</sup> /s ( 7月 3日18時 0分) |        | 年総流出量  |        |
| 観測方法                         | 流速計                   |        | 観測機関       |         | 北海道                                     |        | 観測開始年      |        | 平成 10 年                               |        | 年総流出高  |        |
| * 日流量の月最大値を示す。* 日流量の月最小値を示す。 |                       |        |            |         |                                         |        |            |        |                                       |        |        |        |
| 水研様式 流量-8 (改)                |                       |        |            |         |                                         |        |            |        |                                       |        |        |        |



## 日 流 量 年 表

| 番 号                | 342 23 | 水 系 知内川         |       | 河 川 知内川     |                   | 観測所 知内川                      |                | 平成 23 ( 2011 ) 年 |       |                   |        |                |        |        |                              |        |      |
|--------------------|--------|-----------------|-------|-------------|-------------------|------------------------------|----------------|------------------|-------|-------------------|--------|----------------|--------|--------|------------------------------|--------|------|
| 日 月                | 1      | 2               | 3     | 4           | 5                 | 6                            | 7              | 8                | 9     | 10                | 11     | 12             |        |        |                              |        |      |
| 1                  | #      | 5.27            | 2.42  | 4.93        | 21.64             | #                            | 72.78          | #                | 5.29  | 1.70              | 1.50   | 3.92           | 5.57   | 3.66   | 11.94                        |        |      |
| 2                  |        | 4.75            | 2.43  | 4.41        | 22.63             |                              | 49.26          |                  | 4.74  | 1.47              | 1.37   | 3.66           | 5.50   | 3.18   | 8.81                         |        |      |
| 3                  |        | 4.48            | 2.25  | 3.84        | 13.69             |                              | 30.31          |                  | 4.62  | 1.35              | 1.44   | 6.90           | 5.53   | 2.84   | 24.84                        |        |      |
| 4                  |        | 4.38            | 2.10  | 3.37        | 10.64             |                              | 23.88          |                  | 4.48  | 29.10             | 1.51   | 8.41           | 4.66   | 2.53   | #                            | 67.36  |      |
| 5                  |        | 4.20            | 2.14  | 2.97        | 14.16             |                              | 20.04          |                  | 4.29  | 12.95             | 1.45   | 5.14           | 3.76   | 2.28   | #                            | 29.03  |      |
| 半旬平均               |        | 4.62            | 2.27  | 3.90        | 16.55             |                              | 39.25          |                  | 4.68  | 9.31              | 1.45   | 5.61           | 5.00   | 2.90   | #                            | 28.40  |      |
| 6                  |        | 4.04            | 2.14  | 3.26        | 23.65             |                              | 18.42          |                  | 4.04  | 6.68              | 1.35   | 5.41           | 3.63   | 2.26   | #                            | 17.09  |      |
| 7                  |        | 3.18            | 2.19  | 4.56        | 32.87             |                              | 28.69          |                  | 3.85  | 5.35              | 1.34   | 7.37           | 11.74  | 2.26   | #                            | 12.71  |      |
| 8                  |        | 3.68            | 1.86  | 4.14        | 83.78             |                              | 46.67          |                  | 3.68  | 10.71             | 1.33   | 6.89           | 5.83   | 2.02   | #                            | 9.57   |      |
| 9                  |        | 4.15            | 1.85  | 3.47        | 34.52             |                              | 27.63          |                  | 3.43  | 8.91              | 1.35   | 5.39           | 4.80   | 1.80   | #                            | 7.16   |      |
| 10                 |        | 3.55            | 1.73  | 3.02        | 29.00             |                              | 25.05          |                  | 3.55  | 6.48              | 8.86   | 5.68           | 4.08   | 1.62   | #                            | 5.96   |      |
| 半旬平均               |        | 3.72            | 1.95  | 3.69        | 40.76             |                              | 29.29          |                  | 3.71  | 7.63              | 2.85   | 6.15           | 6.02   | 1.99   | #                            | 10.50  |      |
| 11                 |        | 3.48            | 1.69  | 2.79        | 32.37             |                              | 21.02          |                  | 3.12  | 5.34              | 8.84   | 4.65           | 3.89   | 1.51   | #                            | 5.51   |      |
| 12                 |        | 3.62            | 1.76  | 2.50        | 25.87             |                              | 18.25          |                  | 2.85  | 4.60              | 3.86   | 8.73           | 3.09   | 1.40   | #                            | 5.08   |      |
| 13                 |        | 3.29            | 1.73  | 4.01        | 33.18             |                              | 32.27          |                  | 2.61  | 3.92              | 2.15   | 17.84          | 2.60   | 1.35   | #                            | 5.08   |      |
| 14                 |        | 3.60            | 1.55  | 20.58       | 33.68             |                              | 25.68          |                  | 2.48  | 7.23              | 1.69   | 13.96          | 2.20   | 1.28   | #                            | 5.09   |      |
| 15                 |        | 3.68            | 1.55  | 15.06       | 37.56             |                              | 18.89          |                  | 2.26  | 9.85              | 4.39   | 7.90           | 3.58   | 1.20   | #                            | 5.08   |      |
| 半旬平均               |        | 3.53            | 1.66  | 8.99        | 32.53             |                              | 23.22          |                  | 2.66  | 6.19              | 4.19   | 10.62          | 3.07   | 1.35   | #                            | 5.17   |      |
| 16                 |        | 3.54            | 1.51  | 7.15        | 43.84             |                              | 16.15          |                  | 2.09  | 6.04              | 19.19  | 5.69           | 8.26   | 1.19   | #                            | 4.93   |      |
| 17                 |        | 3.47            | 1.94  | 5.44        | 33.18             |                              | 14.46          |                  | 2.00  | 5.30              | 9.32   | 11.26          | 13.33  | 1.19   | #                            | 4.24   |      |
| 18                 |        | 3.20            | 4.78  | 5.05        | 24.83             |                              | 12.54          |                  | 1.92  | 4.46              | 5.57   | 15.52          | 6.77   | 1.19   | #                            | 4.01   |      |
| 19                 |        | 3.15            | 5.17  | 8.48        | 20.90             |                              | 11.94          |                  | 1.86  | 3.81              | 5.30   | 11.50          | 5.03   | 13.17  | #                            | 3.75   |      |
| 20                 |        | 3.01            | 4.03  | 14.51       | 17.62             |                              | 11.68          |                  | 1.77  | 3.34              | 4.08   | 7.39           | 4.12   | 14.35  | #                            | 3.47   |      |
| 半旬平均               |        | 3.27            | 3.49  | 8.13        | 28.07             |                              | 13.35          |                  | 1.93  | 4.59              | 8.69   | 10.27          | 7.50   | 6.22   | #                            | 4.08   |      |
| 21                 |        | 2.79            | 3.20  | 14.98       | 15.38             |                              | 14.78          |                  | 1.68  | 2.88              | 3.74   | 18.12          | 3.41   | 7.31   | #                            | 3.47   |      |
| 22                 |        | 3.39            | 3.05  | 12.53       | 13.62             |                              | 12.93          |                  | 1.81  | 2.63              | 4.76   | 40.28          | 7.80   | 5.21   | #                            | 3.34   |      |
| 23                 |        | 3.16            | 3.56  | 9.28        | 20.24             |                              | 10.43          |                  | 1.71  | 2.33              | 22.15  | 16.78          | 11.55  | 4.59   | #                            | 3.56   |      |
| 24                 |        | 2.91            | 5.32  | 6.07        | 31.26             |                              | 8.90           |                  | 5.17  | 2.25              | 18.78  | 9.82           | 6.31   | 30.20  | #                            | 3.40   |      |
| 25                 |        | 2.77            | 17.07 | 5.39        | 26.29             |                              | 7.70           |                  | 3.06  | 2.11              | 39.35  | 6.63           | 16.34  | 15.15  | #                            | 3.29   |      |
| 半旬平均               |        | 3.00            | 6.44  | 9.65        | 21.36             |                              | 10.95          |                  | 2.69  | 2.44              | 17.76  | 18.33          | 9.08   | 12.49  | #                            | 3.41   |      |
| 26                 |        | 2.67            | 9.58  | 5.39        | 24.46             |                              | 6.81           |                  | 1.89  | 1.89              | 20.27  | 5.38           | 14.51  | 9.10   | #                            | 3.15   |      |
| 27                 |        | 2.53            | 5.75  | 5.26        | 21.73             |                              | 6.23           |                  | 1.63  | 1.83              | 10.23  | 5.34           | 8.76   | 47.60  | #                            | 2.92   |      |
| 28                 |        | 2.57            | 5.08  | 6.36        | 38.46             |                              | 5.88           |                  | 2.41  | 1.86              | 6.66   | 4.85           | 6.18   | 34.52  | #                            | 2.91   |      |
| 29                 |        | 2.55            |       | 10.90       | 31.42             |                              | 5.98           |                  | 2.30  | 1.90              | 5.40   | 4.29           | 5.11   | 27.67  | #                            | 2.72   |      |
| 30                 |        | 2.55            |       | 14.45       | 26.23             |                              | 7.52           |                  | 1.85  | 1.74              | 5.21   | 4.61           | 4.94   | 17.25  | #                            | 2.69   |      |
| 31                 | #      | 2.47            |       | 21.45       | 5.59              | #                            | 5.59           |                  | 1.60  | 4.48              |        | 4.31           |        |        | #                            | 2.69   |      |
| 半旬平均               |        | 2.56            | 6.80  | 10.64       | 28.46             |                              | 6.34           |                  | 2.02  | 1.80              | 8.71   | 4.89           | 7.30   | 27.23  | #                            | 2.85   |      |
| 月合計                |        | 106.08          | 99.43 | 235.60      | 838.70            |                              | 618.36         |                  | 88.44 | 161.61            | 226.92 | 279.31         | 197.19 | 260.88 |                              | 274.85 |      |
| 月平均                |        | 3.42            | 3.55  | 7.60        | 27.96             |                              | 19.95          |                  | 2.95  | 5.21              | 7.32   | 9.31           | 6.36   | 8.70   |                              | 8.87   |      |
| 比流量                |        | 2.85            | 2.95  | 6.32        | 23.26             |                              | 16.60          |                  | 2.45  | 4.33              | 6.09   | 7.75           | 5.29   | 7.24   |                              | 7.38   |      |
| 総流出量 $\times 10^3$ |        | 9.16            | 8.59  | 20.36       | 72.47             |                              | 53.43          |                  | 7.65  | 13.95             | 19.61  | 24.13          | 17.03  | 22.55  |                              | 23.76  |      |
| 総流出高(m)            |        | 76              | 71    | 169         | 603               |                              | 445            |                  | 64    | 116               | 163    | 201            | 142    | 188    |                              | 198    |      |
| 流域面積               |        | Km <sup>2</sup> |       | 年最大(ピーク) 流量 | m <sup>3</sup> /s |                              | ( 5月 1日20時40分) |                  | 年最小流量 | m <sup>3</sup> /s |        | ( 8月 7日16時30分) |        | 年総流出量  | $\times 10^6$ m <sup>3</sup> | 年総流出高  | m    |
|                    |        | 120.2           |       | 175.46      |                   |                              |                |                  | 1.19  |                   |        |                |        | 292.69 |                              |        | 2435 |
| 観測方法               | 流速計    | 観測機関            | 北海道   | 観測開始年       | 平成 10 年           | # 日流量の月最大値を示す。# 日流量の月最小値を示す。 |                |                  |       |                   |        |                |        |        |                              |        |      |
| 水研様式 流量-8 (改)      |        |                 |       |             |                   |                              |                |                  |       |                   |        |                |        |        |                              |        |      |



## 日流量年表

番号 343 23

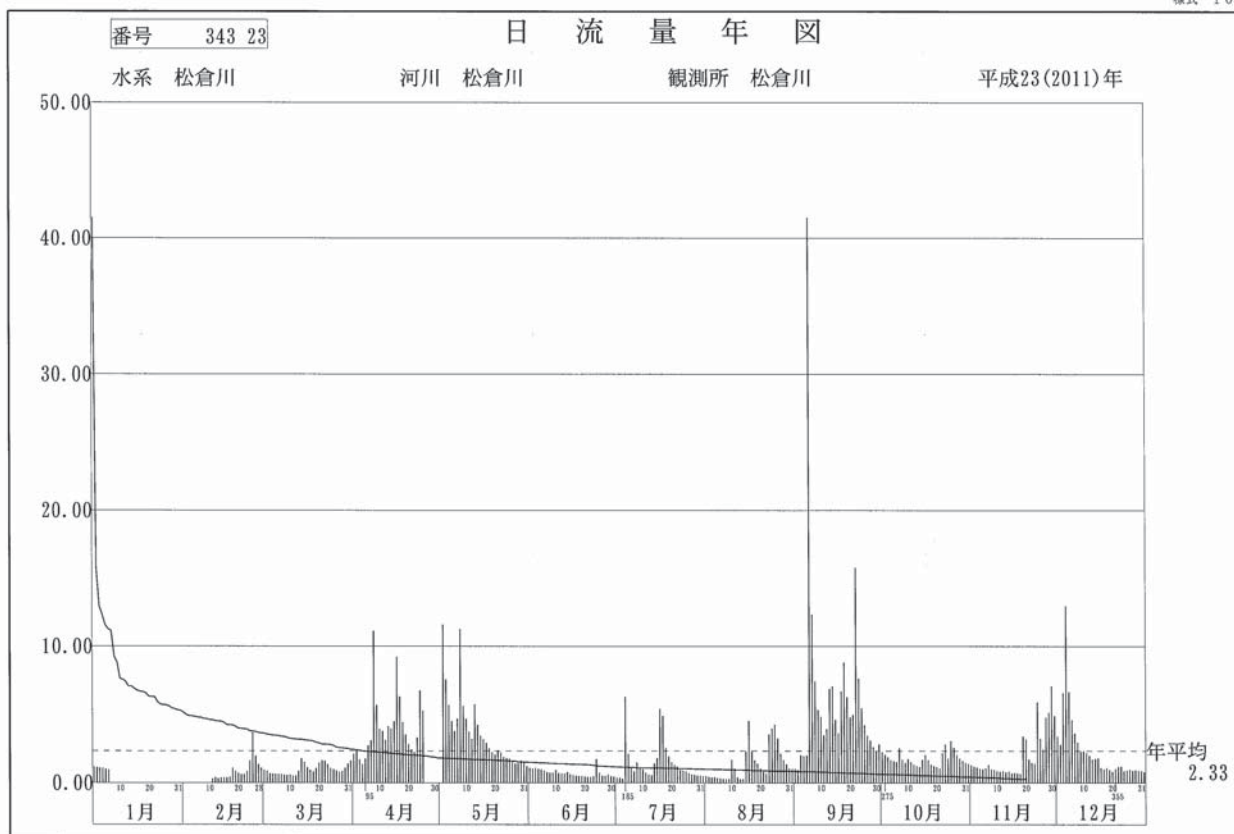
水系 松倉川

河川 松倉川

観測所 松倉川

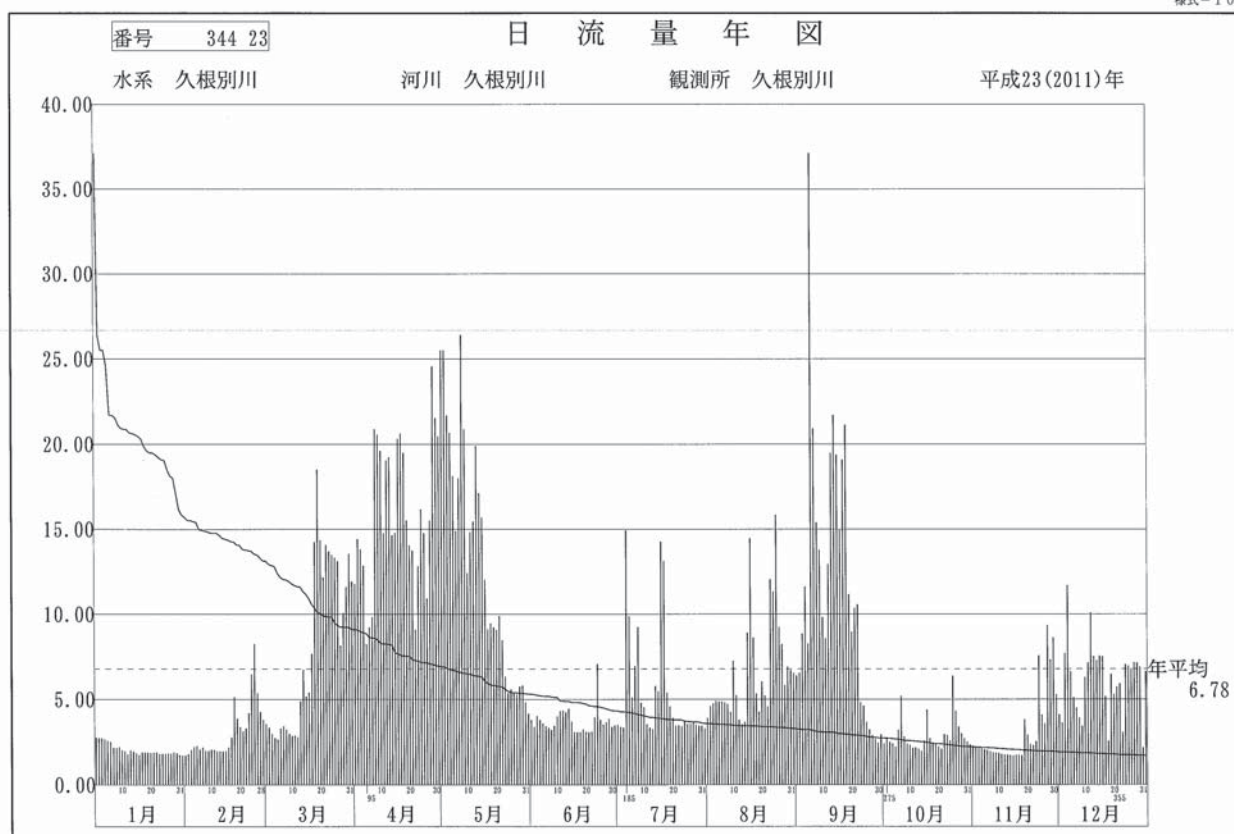
平成 23 ( 2011 ) 年

| 日                    | 1                    | 2      | 3                            | 4       | 5          | 6      | 7                            | 8      | 9                                     | 10     | 11       | 12      |
|----------------------|----------------------|--------|------------------------------|---------|------------|--------|------------------------------|--------|---------------------------------------|--------|----------|---------|
| 1                    | # 1.18               | *      | 0.93                         | 2.12    | *          | 1.10   | 0.39                         | 0.50   | 1.02                                  | 2.24   | 1.29     | 3.38    |
| 2                    | 1.13                 | *      | 0.87                         | 2.41    | # ( 11.58) | 1.05   | 0.37                         | 0.44   | 0.95                                  | 2.06   | 1.19     | 2.80    |
| 3                    | 1.09                 | *      | 0.70                         | 1.69    | 7.56       | 1.10   | 0.32                         | 0.41   | 2.03                                  | 1.88   | 1.13     | 6.57    |
| 4                    | 1.08                 | *      | 0.66                         | 1.36    | 5.70       | 1.03   | 6.30                         | 0.42   | 1.96                                  | 1.67   | 1.04     | # 12.96 |
| 5                    | 1.00                 | *      | 0.64                         | 1.77    | 4.51       | 0.99   | 2.12                         | 0.35   | 2.01                                  | 1.59   | 1.01     | 6.65    |
| 半旬平均                 | 1.10                 | *      | 0.76                         | 1.87    | ( 7.34)    | 1.05   | 1.90                         | 0.42   | 1.59                                  | 1.89   | 1.13     | 6.47    |
| 6                    | # 0.96               | *      | 0.63                         | 2.73    | 3.78       | 0.89   | 1.15                         | 0.33   | # 41.51                               | 1.53   | 1.07     | 4.60    |
| 7                    | *                    | *      | 0.63                         | 3.11    | 4.70       | 0.79   | 0.85                         | 0.30   | 12.33                                 | 2.53   | 1.33     | 3.62    |
| 8                    | *                    | *      | 0.58                         | # 11.13 | 11.27      | 0.74   | 1.49                         | 0.28   | 7.42                                  | 1.70   | 1.00     | 2.95    |
| 9                    | *                    | *      | 0.56                         | 5.69    | 5.61       | 0.74   | 1.10                         | 0.28   | 5.33                                  | 1.46   | 0.96     | 2.28    |
| 10                   | *                    | *      | 0.58                         | 3.94    | 4.68       | 0.94   | 0.99                         | 1.70   | 4.84                                  | 1.74   | 0.85     | 2.33    |
| 半旬平均                 | ( 0.96)              | *      | 0.60                         | 5.32    | 6.01       | 0.82   | 1.12                         | 0.58   | 14.29                                 | 1.79   | 1.04     | 3.16    |
| 11                   | *                    | # 0.31 | # 0.52                       | 3.80    | 3.74       | 0.72   | 0.74                         | 1.05   | 3.48                                  | 1.51   | 0.83     | 2.18    |
| 12                   | *                    | 0.40   | 0.53                         | 3.14    | 3.20       | 0.70   | 0.60                         | 0.41   | 3.93                                  | 1.35   | 0.86     | 2.00    |
| 13                   | *                    | 0.33   | 0.86                         | 4.14    | 5.74       | 0.68   | 0.56                         | # 0.28 | 6.88                                  | 1.25   | 0.79     | 1.71    |
| 14                   | *                    | 0.38   | # 1.78                       | 3.99    | 4.24       | 0.80   | 1.43                         | 0.29   | 7.07                                  | 1.17   | 0.83     | 1.77    |
| 15                   | *                    | 0.39   | 1.52                         | 4.50    | 3.45       | 0.63   | 1.82                         | 2.28   | 4.61                                  | 1.69   | 0.72     | 1.81    |
| 半旬平均                 | *                    | 0.36   | 1.04                         | 3.91    | 4.07       | 0.71   | 1.03                         | 0.86   | 5.19                                  | 1.39   | 0.81     | 1.89    |
| 16                   | *                    | 0.39   | 1.14                         | 9.23    | 3.18       | 0.59   | 5.41                         | # 4.54 | 3.64                                  | 2.03   | 0.74     | 1.09    |
| 17                   | *                    | 0.44   | 0.95                         | 6.31    | 2.92       | 0.52   | 4.91                         | 2.29   | 6.68                                  | 1.68   | 0.70     | 1.00    |
| 18                   | *                    | 1.10   | 0.83                         | 4.43    | 2.52       | 0.50   | 2.56                         | 1.65   | 8.81                                  | 1.34   | # 0.66   | 1.09    |
| 19                   | *                    | 0.86   | 1.07                         | 3.53    | 2.23       | 0.50   | 1.93                         | 1.40   | 6.28                                  | 1.23   | 3.40     | 0.95    |
| 20                   | *                    | 0.71   | 1.45                         | 2.83    | 2.07       | 0.46   | 1.50                         | 1.05   | 4.80                                  | 1.15   | 3.18     | 0.83    |
| 半旬平均                 | *                    | 0.70   | 1.09                         | 5.27    | 2.58       | 0.51   | 3.26                         | 2.19   | 6.04                                  | 1.49   | 1.74     | 0.99    |
| 21                   | *                    | 0.62   | 1.64                         | 2.44    | 2.38       | 0.44   | 1.32                         | 0.83   | 4.98                                  | # 1.07 | 1.72     | 1.02    |
| 22                   | *                    | 0.62   | 1.60                         | 2.25    | 2.21       | # 0.44 | 1.21                         | 0.68   | 15.77                                 | 2.16   | 1.46     | 1.17    |
| 23                   | *                    | 0.84   | 1.37                         | 3.31    | 1.89       | 0.48   | 0.96                         | 3.55   | 7.62                                  | 2.81   | 1.40     | 1.20    |
| 24                   | *                    | 1.63   | 1.07                         | 6.75    | 1.81       | # 1.74 | 0.90                         | 3.98   | 5.47                                  | 1.78   | 5.89     | 0.87    |
| 25                   | *                    | # 3.67 | 0.99                         | ( 5.29) | 1.77       | 0.74   | 0.84                         | 4.25   | 4.22                                  | # 3.06 | 3.23     | 0.91    |
| 半旬平均                 | *                    | 1.48   | 1.33                         | 4.01    | 2.01       | 0.77   | 1.05                         | 2.66   | 7.61                                  | 2.18   | 2.74     | 1.03    |
| 26                   | *                    | 1.98   | 0.90                         | *       | 1.53       | 0.53   | 0.71                         | 3.24   | 3.47                                  | 2.58   | 2.44     | 0.97    |
| 27                   | *                    | 1.36   | 0.79                         | *       | 1.41       | 0.50   | 0.62                         | 2.14   | 3.09                                  | 2.05   | 4.78     | 0.90    |
| 28                   | *                    | 1.09   | 0.86                         | *       | 1.43       | 0.61   | 0.60                         | 1.67   | 2.61                                  | 1.79   | 5.14     | 0.94    |
| 29                   | *                    |        | 1.10                         | *       | 1.63       | 0.50   | 0.54                         | 1.37   | 2.32                                  | 1.60   | # 7.07   | 0.90    |
| 30                   | *                    |        | 1.40                         | *       | 1.50       | 0.45   | 0.53                         | 1.05   | 2.83                                  | 1.48   | 4.90     | 0.86    |
| 31                   | *                    |        | 1.62                         | #       | 1.23       |        | 0.50                         | 1.02   |                                       | 1.39   | #        | 0.80    |
| 半旬平均                 | *                    | 1.48   | 1.11                         | *       | 1.46       | 0.52   | 0.58                         | 1.75   | 2.86                                  | 1.82   | 4.87     | 0.90    |
| 月合計                  | 6.44                 | 17.12  | 30.77                        | 101.89  | 111.47     | 21.90  | 45.27                        | 44.03  | 187.96                                | 54.57  | 61.61    | 73.11   |
| 月平均                  | 1.07                 | 0.95   | 0.99                         | 4.08    | 3.72       | 0.73   | 1.46                         | 1.42   | 6.27                                  | 1.76   | 2.05     | 2.36    |
| 比流量                  | 1.77                 | 1.57   | 1.64                         | 6.74    | 6.15       | 1.21   | 2.41                         | 2.35   | 10.36                                 | 2.91   | 3.39     | 3.90    |
| 総流出量×10 <sup>4</sup> | 2.87                 | 2.30   | 2.65                         | 10.58   | 9.96       | 1.89   | 3.91                         | 3.80   | 16.25                                 | 4.71   | 5.31     | 6.32    |
| 総流出高(mm)             | 47                   | 38     | 44                           | 175     | 165        | 31     | 65                           | 63     | 269                                   | 78     | 88       | 104     |
| 流域面積                 | 60.5 km <sup>2</sup> |        | 年最大(ピーク)流量 m <sup>3</sup> /s |         |            |        | 年最小流量 m <sup>3</sup> /s      |        | 年総流出量 ×10 <sup>4</sup> m <sup>3</sup> |        | 年総流出高 mm |         |
|                      | 131.17               |        | ( 9月 6日 2時50分)               |         |            |        | 0.28                         |        | 70.55                                 |        | 1166     |         |
| 観測方法                 | 流速計                  |        | 観測機関                         |         | 観測開始年      |        | * 日流量の月最大値を示す。# 日流量の月最小値を示す。 |        |                                       |        |          |         |
|                      | 北海道                  |        |                              |         | 平成 10 年    |        | 水研様式 流量-8 (改)                |        |                                       |        |          |         |



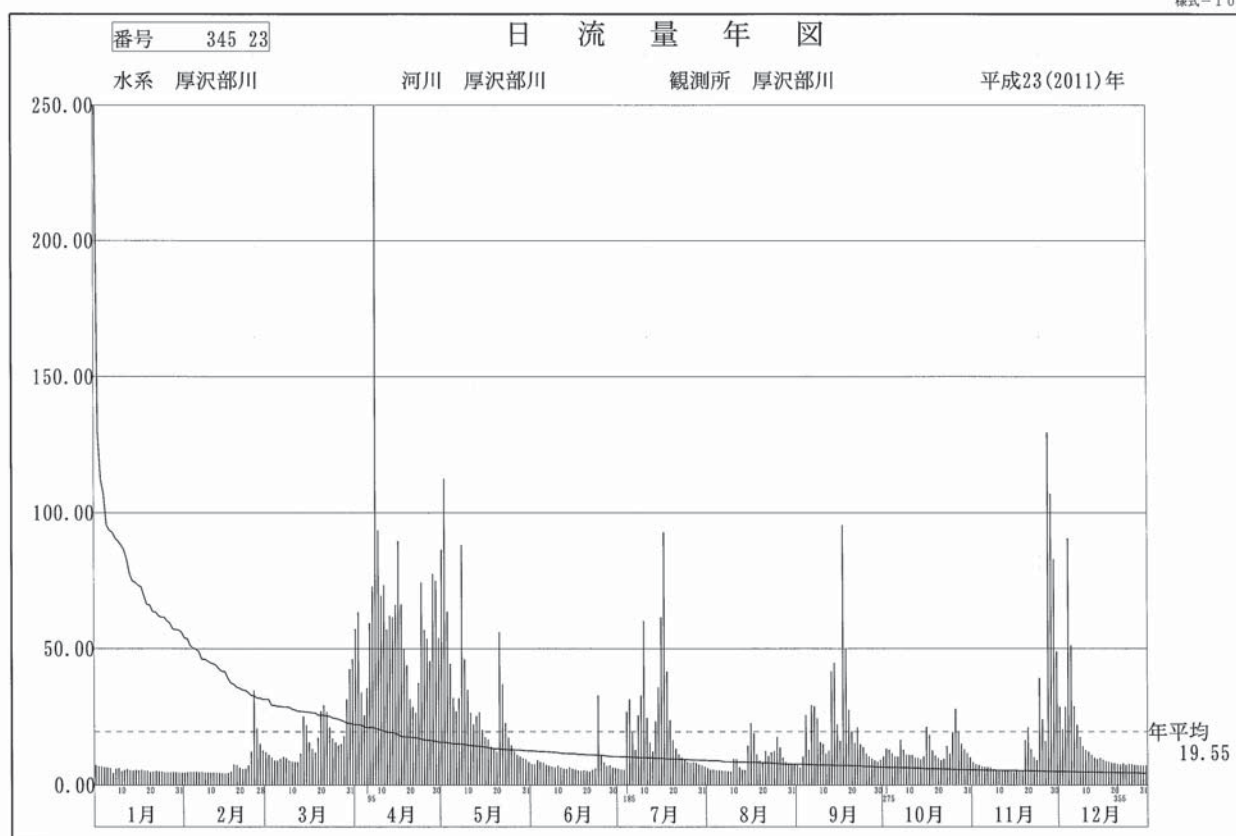
## 日流量年表

| 番 号                  | 344 23          | 水 系    | 久根別川                          | 河 川    | 久根別川                    | 観測所    | 久根別川                                  | 平成 23 ( 2011 ) 年 |               |        |        |         |
|----------------------|-----------------|--------|-------------------------------|--------|-------------------------|--------|---------------------------------------|------------------|---------------|--------|--------|---------|
| 日                    | 1               | 2      | 3                             | 4      | 5                       | 6      | 7                                     | 8                | 9             | 10     | 11     | 12      |
| 1                    | 2.76            | 1.73   | 3.57                          | 11.78  | 25.51                   | 3.79   | 3.51                                  | 3.91             | 6.40          | 2.41   | 2.27   | 4.11    |
| 2                    | 2.74            | 1.80   | 3.35                          | 14.42  | 25.51                   | 3.39   | 3.39                                  | 4.61             | 6.54          | 2.70   | 2.24   | 3.62    |
| 3                    | 2.73            | 2.05   | 2.98                          | 13.82  | 21.69                   | 4.03   | 3.35                                  | 4.75             | 8.85          | 2.51   | 2.13   | 7.71    |
| 4                    | 2.66            | 2.22   | 2.74                          | 12.86  | 20.67                   | 3.80   | # 14.94                               | 4.91             | 11.62         | 2.40   | 2.12   | # 11.69 |
| 5                    | 2.58            | 2.27   | 2.65                          | 8.23   | 18.13                   | 3.59   | 9.87                                  | 4.88             | 8.26          | 2.23   | 2.07   | 6.61    |
| 半旬平均                 | 2.69            | 2.01   | 3.06                          | 12.22  | 22.30                   | 3.72   | 7.01                                  | 4.61             | 8.33          | 2.45   | 2.17   | 6.75    |
| 6                    | 2.51            | 2.07   | 3.29                          | 9.22   | 14.89                   | 3.43   | 5.11                                  | 4.88             | # 37.13       | 3.22   | 2.02   | 5.11    |
| 7                    | 2.17            | 2.19   | 3.44                          | 9.82   | 18.01                   | 3.33   | 6.95                                  | 4.82             | 20.93         | 5.19   | 1.95   | 4.50    |
| 8                    | 2.16            | 2.00   | 3.23                          | 20.87  | 26.41                   | 3.21   | 9.24                                  | 4.73             | 15.40         | 2.82   | 1.89   | 3.94    |
| 9                    | 2.21            | 1.99   | 2.99                          | 20.56  | 20.88                   | 3.45   | 4.80                                  | 4.25             | 13.78         | 2.40   | 1.87   | 3.44    |
| 10                   | 2.03            | 2.06   | 2.86                          | 19.62  | 12.42                   | 4.00   | 4.54                                  | 7.24             | 9.82          | 2.32   | 1.86   | 6.30    |
| 半旬平均                 | 2.22            | 2.06   | 3.16                          | 16.02  | 18.52                   | 3.48   | 6.13                                  | 5.18             | 19.41         | 3.19   | 1.92   | 4.66    |
| 11                   | 1.97            | 2.05   | 2.88                          | 14.77  | 14.84                   | 4.32   | 3.54                                  | 5.24             | 8.57          | 2.16   | 1.80   | 7.14    |
| 12                   | 1.79            | 1.97   | 2.79                          | 19.05  | 15.45                   | 4.34   | 3.34                                  | 3.80             | 12.94         | 2.18   | 1.77   | 10.08   |
| 13                   | 2.02            | 1.96   | 4.89                          | 19.23  | 19.89                   | 4.24   | # 3.26                                | # 3.54           | 19.49         | 2.10   | 1.75   | 7.52    |
| 14                   | 1.95            | 1.96   | 6.74                          | 14.65  | 17.12                   | 4.45   | 5.77                                  | 3.68             | 21.71         | # 1.97 | 1.72   | 7.27    |
| 15                   | 1.85            | 1.98   | 5.18                          | 14.78  | 15.69                   | 3.70   | 5.47                                  | 8.90             | 19.38         | 2.58   | # 1.71 | 7.55    |
| 半旬平均                 | 1.92            | 1.98   | 4.50                          | 16.50  | 16.60                   | 4.21   | 4.28                                  | 5.03             | 16.42         | 2.20   | 1.75   | 7.91    |
| 16                   | 1.75            | 2.19   | 5.39                          | 20.31  | 12.02                   | 3.08   | 14.27                                 | 14.47            | 14.97         | 4.39   | 1.75   | 7.52    |
| 17                   | 1.90            | 2.78   | 7.67                          | 20.63  | 9.10                    | 3.07   | 13.14                                 | 8.61             | 19.09         | 2.72   | 1.75   | 5.18    |
| 18                   | 1.90            | 5.14   | 14.25                         | 19.50  | 9.46                    | 3.07   | 5.39                                  | 5.33             | 21.14         | 2.47   | 1.72   | 2.56    |
| 19                   | 1.90            | 3.87   | # 18.51                       | 15.52  | 9.22                    | 3.24   | 4.58                                  | 4.27             | 11.16         | 2.39   | 3.82   | 6.48    |
| 20                   | 1.86            | 3.38   | 14.36                         | 14.06  | 9.06                    | 3.10   | 3.91                                  | 6.03             | 8.96          | 2.24   | 2.91   | 5.31    |
| 半旬平均                 | 1.86            | 3.47   | 12.04                         | 18.00  | 9.77                    | 3.11   | 8.26                                  | 7.74             | 15.06         | 2.84   | 2.39   | 5.41    |
| 21                   | 1.88            | 3.14   | 12.17                         | 13.74  | 9.88                    | # 3.07 | 3.46                                  | 5.21             | 10.37         | 2.11   | 2.37   | 5.73    |
| 22                   | 1.90            | 3.31   | 14.08                         | 9.09   | 8.48                    | 3.11   | 3.47                                  | 4.58             | 10.57         | 2.95   | 2.31   | 5.93    |
| 23                   | 1.81            | 4.20   | 13.71                         | 12.81  | 6.34                    | 3.94   | 3.42                                  | 12.05            | 4.82          | 2.89   | 2.55   | 3.07    |
| 24                   | 1.82            | 6.47   | 13.49                         | 16.17  | 5.38                    | # 7.07 | 3.72                                  | 11.33            | 4.63          | 2.58   | 7.56   | 7.05    |
| 25                   | 1.82            | # 8.26 | 13.32                         | 14.77  | 5.58                    | 3.81   | 3.55                                  | # 15.84          | 3.67          | # 6.37 | 4.09   | 6.97    |
| 半旬平均                 | 1.85            | 5.08   | 13.35                         | 13.32  | 7.13                    | 4.20   | 3.52                                  | 9.80             | 6.81          | 3.38   | 3.78   | 5.75    |
| 26                   | 1.84            | 5.36   | 13.13                         | 10.92  | 5.35                    | 3.52   | 3.57                                  | 9.24             | 3.23          | 4.33   | 3.58   | 6.80    |
| 27                   | 1.82            | 4.27   | 8.15                          | 15.51  | 5.30                    | 3.66   | 3.69                                  | 8.23             | 2.90          | 3.40   | # 9.34 | 7.16    |
| 28                   | 1.90            | 3.80   | 10.07                         | 24.57  | 5.75                    | 3.85   | 3.51                                  | 5.83             | 2.67          | 2.99   | 7.33   | 7.15    |
| 29                   | 1.86            |        | 11.60                         | 21.54  | 5.81                    | 3.39   | 3.45                                  | 6.91             | # 2.45        | 2.71   | 8.62   | 6.91    |
| 30                   | 1.75            |        | 13.55                         | 20.46  | 4.82                    | 3.47   | 3.45                                  | 6.71             | 2.95          | 2.53   | 5.28   | # 2.18  |
| 31                   | 1.73            |        | 11.93                         |        | 4.17                    |        | 3.30                                  | 6.55             |               | 2.35   |        | 6.64    |
| 半旬平均                 | 1.82            | 4.48   | 11.41                         | 18.60  | 5.20                    | 3.58   | 3.50                                  | 7.25             | 2.84          | 3.05   | 6.83   | 6.14    |
| 月合計                  | 63.57           | 86.47  | 248.96                        | 473.28 | 402.83                  | 111.52 | 166.96                                | 205.33           | 344.40        | 88.61  | 94.15  | 189.23  |
| 月平均                  | 2.05            | 3.09   | 8.03                          | 15.78  | 12.99                   | 3.72   | 5.39                                  | 6.62             | 11.48         | 2.86   | 3.14   | 6.10    |
| 比流量                  | 1.67            | 2.51   | 6.53                          | 12.84  | 10.57                   | 3.03   | 4.39                                  | 5.39             | 9.34          | 2.33   | 2.55   | 4.96    |
| 総流出量×10 <sup>4</sup> | 5.49            | 7.48   | 21.51                         | 40.90  | 34.79                   | 9.64   | 14.44                                 | 17.73            | 29.76         | 7.66   | 8.14   | 16.34   |
| 総流出高(mm)             | 45              | 61     | 175                           | 333    | 283                     | 78     | 117                                   | 144              | 242           | 62     | 66     | 133     |
| 流域面積                 | Km <sup>2</sup> |        | 年最大(ピーク) 流量 m <sup>3</sup> /s |        | 年最小流量 m <sup>3</sup> /s |        | 年総流出量 ×10 <sup>4</sup> m <sup>3</sup> |                  | 年総流出高 mm      |        |        |         |
|                      | 122.9           |        | 80.75 ( 9月 6日 2時50分)          |        | 1.51 ( 1月12日20時 0分)     |        | 213.88                                |                  | 1740          |        |        |         |
| 観測方法                 | 流速計             |        | 観測機関 北海道                      |        | 観測開始年 平成 10 年           |        | # 日流量の月最大値を示す。@ 日流量の月最小を示す。           |                  | 水研様式 流量-8 (改) |        |        |         |



## 日流量年表

| 番 号                  |   | 345 23          |        | 水 系 厚沢部川   |          | 河 川 厚沢部川          |         | 観測所 厚沢部川 |         | 平成 23 ( 2011 ) 年  |         |                              |         |
|----------------------|---|-----------------|--------|------------|----------|-------------------|---------|----------|---------|-------------------|---------|------------------------------|---------|
| 日                    | 月 | 1               | 2      | 3          | 4        | 5                 | 6       | 7        | 8       | 9                 | 10      | 11                           | 12      |
| 1                    | # | 7.37            | 4.57   | 12.03      | 57.20    | 86.47             | 7.68    | 5.98     | 6.25    | 7.20              | 10.49   | 8.35                         | 28.61   |
| 2                    |   | 6.89            | 4.72   | 11.08      | 63.43    | 112.46            | 7.62    | 5.69     | 5.58    | 6.45              | 13.30   | 7.64                         | 20.42   |
| 3                    |   | 6.82            | 4.79   | 10.04      | 33.92    | 63.61             | 9.12    | 5.61     | 5.66    | 10.43             | 12.94   | 7.35                         | 28.52   |
| 4                    |   | 6.52            | 4.82   | 9.06       | 25.60    | 44.45             | 8.48    | 26.89    | 5.43    | 25.60             | 11.66   | 6.82                         | # 90.57 |
| 5                    |   | 6.49            | 4.93   | 8.93       | 35.51    | 31.86             | 8.20    | 31.42    | 5.42    | 12.91             | 10.38   | 6.60                         | 51.15   |
| 半旬平均                 |   | 6.82            | 4.77   | 10.23      | 43.13    | 67.77             | 8.22    | 15.12    | 5.67    | 12.52             | 11.75   | 7.35                         | 43.85   |
| 6                    |   | 6.21            | 4.73   | 9.61       | 59.38    | 27.02             | 7.44    | 19.27    | 5.27    | 29.18             | 10.42   | 6.59                         | 28.81   |
| 7                    | @ | 4.47            | 4.82   | 10.30      | 72.78    | 31.85             | 7.06    | 12.85    | 5.21    | 28.83             | 16.54   | 6.37                         | 22.09   |
| 8                    |   | 5.97            | 4.52   | 9.83       | # 249.93 | 88.12             | 6.70    | 25.61    | 5.14    | 24.39             | 12.93   | 5.86                         | 17.56   |
| 9                    |   | 6.23            | 4.64   | 8.97       | 93.52    | 46.08             | 6.45    | 32.81    | @ 4.96  | 15.71             | 11.23   | 5.58                         | 14.26   |
| 10                   |   | 5.07            | 4.53   | 8.53       | 69.46    | 34.85             | 7.09    | 60.11    | 9.60    | 15.08             | 11.02   | 5.31                         | 12.83   |
| 半旬平均                 |   | 5.59            | 4.65   | 9.45       | 109.01   | 45.58             | 6.95    | 30.13    | 6.04    | 22.64             | 12.43   | 5.94                         | 19.11   |
| 11                   |   | 5.51            | 4.64   | 8.41       | 73.28    | 26.46             | 6.33    | 24.60    | 9.52    | 11.51             | 11.00   | 5.31                         | 12.17   |
| 12                   |   | 5.82            | 4.58   | @ 8.41     | 56.98    | 22.29             | 5.96    | 15.52    | 6.55    | 12.61             | 10.05   | 5.25                         | 11.04   |
| 13                   |   | 5.43            | 4.49   | 11.55      | 62.06    | 25.28             | 5.87    | 12.29    | 5.63    | 41.65             | 9.83    | 5.11                         | 10.01   |
| 14                   | @ | 5.37            | 4.32   | 25.19      | 61.54    | 26.67             | 6.42    | 23.34    | 5.52    | 44.75             | 9.38    | 4.93                         | 9.52    |
| 15                   |   | 5.54            | 4.34   | 22.00      | 66.05    | 20.22             | 5.98    | 35.86    | 14.47   | 22.17             | 10.45   | @ 4.79                       | 9.93    |
| 半旬平均                 |   | 5.53            | 4.47   | 15.11      | 63.98    | 24.18             | 6.11    | 22.32    | 8.34    | 26.54             | 10.14   | 5.08                         | 10.53   |
| 16                   |   | 5.39            | 4.45   | 15.66      | 89.59    | 17.53             | 5.67    | 61.54    | # 22.66 | 16.22             | 21.30   | 5.33                         | 9.32    |
| 17                   |   | 5.58            | 4.93   | 13.31      | 66.25    | 16.77             | 5.33    | 92.85    | 18.95   | # 95.51           | 18.31   | 4.99                         | 8.71    |
| 18                   |   | 5.31            | 7.55   | 11.92      | 49.87    | 14.07             | 5.25    | 41.59    | 11.27   | 50.11             | 12.68   | 5.00                         | 8.54    |
| 19                   |   | 5.27            | 7.33   | 17.34      | 43.84    | 13.50             | 5.40    | 23.76    | 8.96    | 27.54             | 10.81   | 16.38                        | 8.09    |
| 20                   |   | 4.79            | 6.41   | 27.09      | 31.42    | 12.28             | 5.12    | 16.44    | 8.30    | 19.65             | 9.83    | 21.09                        | 7.98    |
| 半旬平均                 |   | 5.27            | 6.13   | 17.06      | 56.19    | 14.83             | 5.35    | 47.24    | 14.03   | 41.81             | 14.59   | 10.56                        | 8.53    |
| 21                   |   | 4.95            | 5.81   | 29.23      | 28.59    | 56.04             | @ 4.96  | 13.37    | 12.50   | 15.35             | @ 9.09  | 13.11                        | 7.51    |
| 22                   |   | 5.19            | 5.97   | 26.78      | 26.43    | 36.96             | 5.57    | 11.27    | 10.65   | 21.10             | 9.59    | 10.22                        | 7.73    |
| 23                   |   | 5.00            | 7.30   | 21.09      | 37.41    | 22.73             | 6.05    | 10.14    | 12.01   | 14.96             | 14.29   | 9.17                         | 7.95    |
| 24                   |   | 4.93            | 12.19  | 17.15      | 74.37    | 17.40             | # 32.79 | 9.15     | 12.51   | 13.91             | 11.47   | 39.23                        | 7.37    |
| 25                   | # | 4.70            | 34.66  | 15.65      | 56.85    | 14.61             | 10.92   | 8.45     | 17.66   | 11.49             | 19.29   | 24.13                        | 7.68    |
| 半旬平均                 |   | 4.95            | 13.19  | 21.98      | 44.73    | 29.55             | 12.06   | 10.48    | 13.07   | 15.36             | 12.75   | 19.17                        | 7.65    |
| 26                   |   | 4.64            | 20.71  | 14.48      | 53.66    | 12.35             | 8.33    | 8.13     | 13.75   | 10.36             | # 27.87 | 16.05                        | 7.62    |
| 27                   |   | 4.62            | 15.10  | 15.03      | 45.45    | 11.06             | 7.01    | 8.35     | 10.02   | 9.60              | 19.49   | # 129.47                     | 7.32    |
| 28                   |   | 4.78            | 12.64  | 17.83      | 77.52    | 10.46             | 7.20    | 8.15     | 8.45    | 8.99              | 15.10   | 106.94                       | 7.23    |
| 29                   |   | 4.76            |        | 31.39      | 74.87    | 9.76              | 6.36    | 7.52     | 7.66    | 8.54              | 13.06   | 82.95                        | 7.20    |
| 30                   |   | 4.61            |        | 42.47      | 53.90    | 9.40              | 6.21    | 7.21     | 7.65    | 9.19              | 11.64   | 48.94                        | @ 7.08  |
| 31                   |   | 4.53            | #      | 46.06      | @ 8.39   |                   |         | 6.79     | 7.80    |                   | 10.15   |                              | 7.23    |
| 半旬平均                 |   | 4.66            | 16.15  | 27.88      | 61.08    | 10.24             | 7.02    | 7.69     | 9.22    | 9.34              | 16.22   | 76.87                        | 7.28    |
| 月合計                  |   | 168.76          | 214.49 | 536.42     | 1890.66  | 971.00            | 228.57  | 672.56   | 291.01  | 640.99            | 405.59  | 624.86                       | 492.05  |
| 月平均                  |   | 5.44            | 7.66   | 17.30      | 63.02    | 31.32             | 7.62    | 21.70    | 9.39    | 21.37             | 13.08   | 20.83                        | 15.87   |
| 比流量                  |   | 1.22            | 1.71   | 3.86       | 14.08    | 7.00              | 1.70    | 4.85     | 2.10    | 4.77              | 2.92    | 4.65                         | 3.54    |
| 総流出量×10 <sup>3</sup> |   | 14.57           | 18.53  | 46.34      | 163.35   | 83.89             | 19.75   | 58.12    | 25.15   | 55.39             | 35.03   | 53.99                        | 42.51   |
| 総流出高(mm)             |   | 33              | 41     | 104        | 365      | 187               | 44      | 130      | 56      | 124               | 78      | 121                          | 95      |
| 流域面積                 |   | Km <sup>2</sup> |        | 年最大(ピーク)流量 |          | m <sup>3</sup> /s |         | 年最小流量    |         | m <sup>3</sup> /s |         | 年総流出量                        |         |
|                      |   | 447.7           |        | 348.65     |          | (11月27日21時30分)    |         | 3.12     |         | ( 2月14日 6時30分)    |         | 616.62                       |         |
| 観測方法                 |   | 流速計             |        | 観測機関       |          | 北海道               |         | 観測開始年    |         | 平成 10 年           |         | # 日流量の月最大値を示す。@ 日流量の月最小値を示す。 |         |
|                      |   | 流速計             |        | 北海道        |          |                   |         |          |         |                   |         | 水研様式 流量-8 (改)                |         |



## 日流量年表

番号 346 23 水系 大野川 河川 大野川 観測所 大野川 平成 23 ( 2011 ) 年

| 日                  | 1                     | 2     | 3      | 4                                  | 5      | 6     | 7                           | 8     | 9      | 10                              | 11        | 12       |
|--------------------|-----------------------|-------|--------|------------------------------------|--------|-------|-----------------------------|-------|--------|---------------------------------|-----------|----------|
| 1                  | 2.95                  | 2.19  | 5.15   | 6.83                               | 24.02  | 2.45  | 0.66                        | 1.13  | 2.29   | 3.11                            | 3.26      | *        |
| 2                  | 2.90                  | 2.04  | 5.01   | 8.19                               | 27.77  | 2.42  | 0.60                        | 1.02  | 2.39   | *                               | 3.07      | *        |
| 3                  | 2.90                  | 2.03  | 4.70   | 5.33                               | 17.70  | 2.61  | 0.59                        | 0.98  | 3.47   | *                               | 2.93      | *        |
| 4                  | 2.75                  | 2.06  | 4.98   | 4.41                               | 13.39  | 2.42  | 0.70                        | 0.92  | 4.47   | *                               | 2.83      | *        |
| 5                  | 2.75                  | 1.89  | 4.52   | 5.46                               | 10.65  | 2.25  | 3.81                        | 0.84  | 3.57   | *                               | 2.57      | *        |
| 半旬平均               | 2.85                  | 2.04  | 4.87   | 6.04                               | 18.71  | 2.43  | 2.57                        | 0.98  | 3.24   | ( 3.11 )                        | 2.93      | *        |
| 6                  | 2.73                  | 2.16  | 4.78   | 8.89                               | 9.28   | 2.15  | 2.17                        | 0.86  | 17.07  | *                               | 2.68      | *        |
| 7                  | 2.74                  | 1.88  | 4.82   | 10.83                              | 11.32  | 2.07  | 1.73                        | 0.83  | 10.28  | *                               | 2.53      | *        |
| 8                  | 2.83                  | 1.86  | 3.23   | 40.46                              | 22.39  | 1.66  | 3.16                        | 0.74  | 8.12   | *                               | 2.41      | 5.37     |
| 9                  | 2.62                  | 2.07  | 2.08   | 16.79                              | 12.90  | 1.30  | 4.08                        | 0.73  | 6.34   | *                               | 2.28      | 4.65     |
| 10                 | 2.63                  | 1.84  | 2.19   | 12.55                              | 10.51  | 1.40  | 4.72                        | 2.13  | 5.69   | *                               | 2.35      | 4.17     |
| 半旬平均               | 2.71                  | 1.96  | 3.42   | 17.90                              | 13.28  | 1.72  | 3.17                        | 1.06  | 9.50   | *                               | 2.45      | ( 4.73 ) |
| 11                 | 2.67                  | 1.94  | 1.93   | 13.20                              | 8.42   | 1.15  | 3.26                        | 2.05  | 4.45   | *                               | 2.27      | 4.02     |
| 12                 | 2.84                  | 2.10  | 1.89   | 10.73                              | 7.42   | 1.04  | 2.40                        | 1.00  | 4.70   | *                               | 2.16      | 3.72     |
| 13                 | 2.56                  | 1.76  | 2.76   | 12.11                              | 14.34  | 1.04  | 1.94                        | 0.82  | 10.99  | *                               | 2.16      | 3.48     |
| 14                 | 2.36                  | 2.06  | 4.06   | 13.10                              | 11.35  | 1.19  | 3.47                        | 0.79  | 10.55  | *                               | ( 2.14 )  | 3.42     |
| 15                 | 2.40                  | 2.02  | 3.36   | 15.88                              | 8.57   | 0.98  | 4.37                        | 3.81  | 7.62   | *                               | *         | 3.40     |
| 半旬平均               | 2.57                  | 1.98  | 2.80   | 13.00                              | 10.02  | 1.08  | 3.09                        | 1.69  | 7.66   | *                               | ( 2.18 )  | 3.61     |
| 16                 | 2.54                  | 1.78  | 2.79   | 24.74                              | 7.57   | 0.87  | 12.33                       | 6.97  | 6.35   | *                               | *         | 3.05     |
| 17                 | 2.28                  | 1.89  | 2.55   | 17.54                              | 6.62   | 0.80  | 17.11                       | 4.64  | 11.82  | *                               | *         | 2.91     |
| 18                 | 2.28                  | 3.22  | 2.44   | 13.49                              | 5.55   | 0.77  | 8.61                        | 3.14  | 10.55  | *                               | *         | 2.87     |
| 19                 | 2.23                  | 4.14  | 3.07   | 10.81                              | 5.10   | 0.76  | 5.63                        | 2.19  | 8.15   | *                               | *         | 2.72     |
| 20                 | 2.24                  | 4.40  | 3.68   | 8.04                               | 4.40   | 0.71  | 4.28                        | 3.67  | 6.68   | *                               | *         | 2.77     |
| 半旬平均               | 2.31                  | 3.09  | 2.91   | 14.92                              | 5.85   | 0.78  | 9.59                        | 4.12  | 8.71   | *                               | *         | 2.86     |
| 21                 | 2.52                  | 4.28  | 4.00   | 7.04                               | 5.63   | 0.66  | 3.41                        | 3.28  | 6.29   | *                               | *         | 2.50     |
| 22                 | 2.10                  | 4.31  | 3.91   | 6.59                               | 4.96   | 0.64  | 2.85                        | 2.62  | 10.00  | *                               | *         | 2.82     |
| 23                 | 2.88                  | 4.67  | 3.64   | 9.75                               | 4.16   | 0.83  | 2.36                        | 4.87  | 6.36   | *                               | *         | 2.65     |
| 24                 | 2.51                  | 6.22  | 3.31   | 18.04                              | 3.75   | 3.60  | 2.11                        | 5.05  | 5.68   | *                               | *         | 2.71     |
| 25                 | 2.80                  | 10.31 | 3.09   | 13.34                              | 3.53   | 1.52  | 1.91                        | 6.18  | 5.01   | 6.18                            | *         | 2.65     |
| 半旬平均               | 2.56                  | 5.96  | 3.59   | 10.95                              | 4.41   | 1.45  | 2.53                        | 4.40  | 6.67   | ( 6.18 )                        | *         | 2.67     |
| 26                 | 2.00                  | 7.39  | 2.86   | 13.11                              | 3.18   | 1.15  | 1.69                        | 4.97  | 4.35   | 7.44                            | *         | 2.55     |
| 27                 | 2.69                  | 6.19  | 2.77   | 12.47                              | 2.89   | 1.06  | 1.93                        | 3.82  | 3.84   | 5.69                            | *         | 2.45     |
| 28                 | 2.05                  | 5.43  | 3.05   | 25.60                              | 2.85   | 1.12  | 1.60                        | 3.29  | 3.49   | 4.63                            | *         | 2.32     |
| 29                 | 2.01                  |       | 4.05   | 20.63                              | 2.69   | 0.89  | 1.39                        | 2.93  | 3.18   | 4.10                            | 15.60     | 2.36     |
| 30                 | 2.33                  |       | 4.66   | 16.32                              | 2.48   | 0.71  | 1.29                        | 2.65  | 3.37   | 3.75                            | *         | 2.30     |
| 31                 | 2.17                  |       | 5.28   |                                    | 2.52   |       | 1.22                        | 2.44  | 3.50   | 3.50                            | *         | 2.27     |
| 半旬平均               | 2.21                  | 6.34  | 3.78   | 17.63                              | 2.77   | 0.99  | 1.52                        | 3.35  | 3.65   | 4.85                            | ( 15.60 ) | 2.38     |
| 月合計                | 78.26                 | 94.13 | 110.61 | 402.27                             | 277.91 | 42.22 | 113.88                      | 81.36 | 197.12 | 38.40                           | 51.24     | 74.13    |
| 月平均                | 2.52                  | 3.36  | 3.57   | 13.41                              | 8.96   | 1.41  | 3.67                        | 2.62  | 6.57   | 4.80                            | 3.42      | 3.09     |
| 比流量                | 2.27                  | 3.02  | 3.21   | 12.07                              | 8.06   | 1.27  | 3.30                        | 2.36  | 5.91   | 4.32                            | 3.08      | 2.78     |
| 総流出量 $\times 10^6$ | 6.75                  | 8.13  | 9.56   | 34.76                              | 24.00  | 3.65  | 9.83                        | 7.02  | 17.03  | 12.86                           | 8.86      | 8.28     |
| 総流出高 (mm)          | 61                    | 73    | 86     | 313                                | 216    | 33    | 88                          | 63    | 153    | 116                             | 80        | 75       |
| 流域面積               | 111.1 $\text{km}^2$   |       |        | 年最大 (ピーク) 流量 $\text{m}^3/\text{s}$ |        |       | 年最小流量 $\text{m}^3/\text{s}$ |       |        | 年総流出量 $\times 10^6 \text{ m}^3$ |           |          |
|                    | 63.16 ( 4月 8日 7時10分 ) |       |        | 0.44 ( 6月22日 17時10分 )              |        |       | 150.73                      |       |        | 1357                            |           |          |
| 観測方法               | 流速計                   |       |        | 観測機関                               |        |       | 観測開始年                       |       |        | 平成 10 年                         |           |          |
|                    | 北海道                   |       |        |                                    |        |       |                             |       |        |                                 |           |          |

\* 日流量の月最大値を示す。# 日流量の月最小値を示す。

水研様式 流量-8 (改)

## 日流量年図

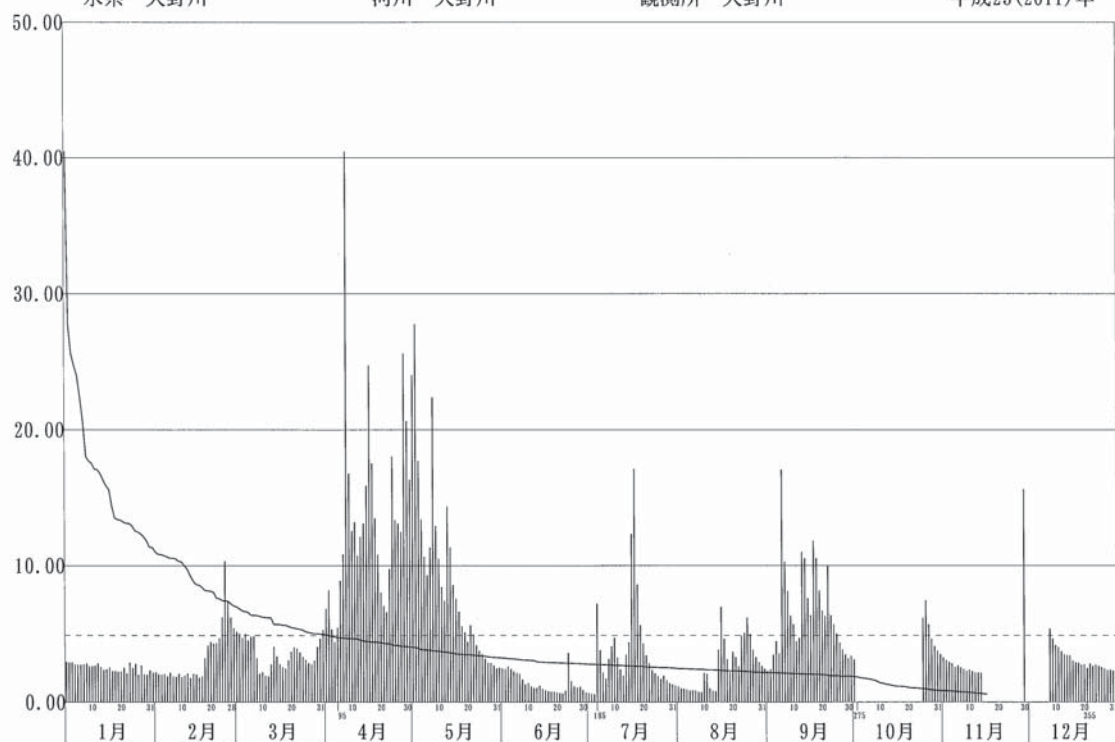
番号 346 23

水系 大野川

河川 大野川

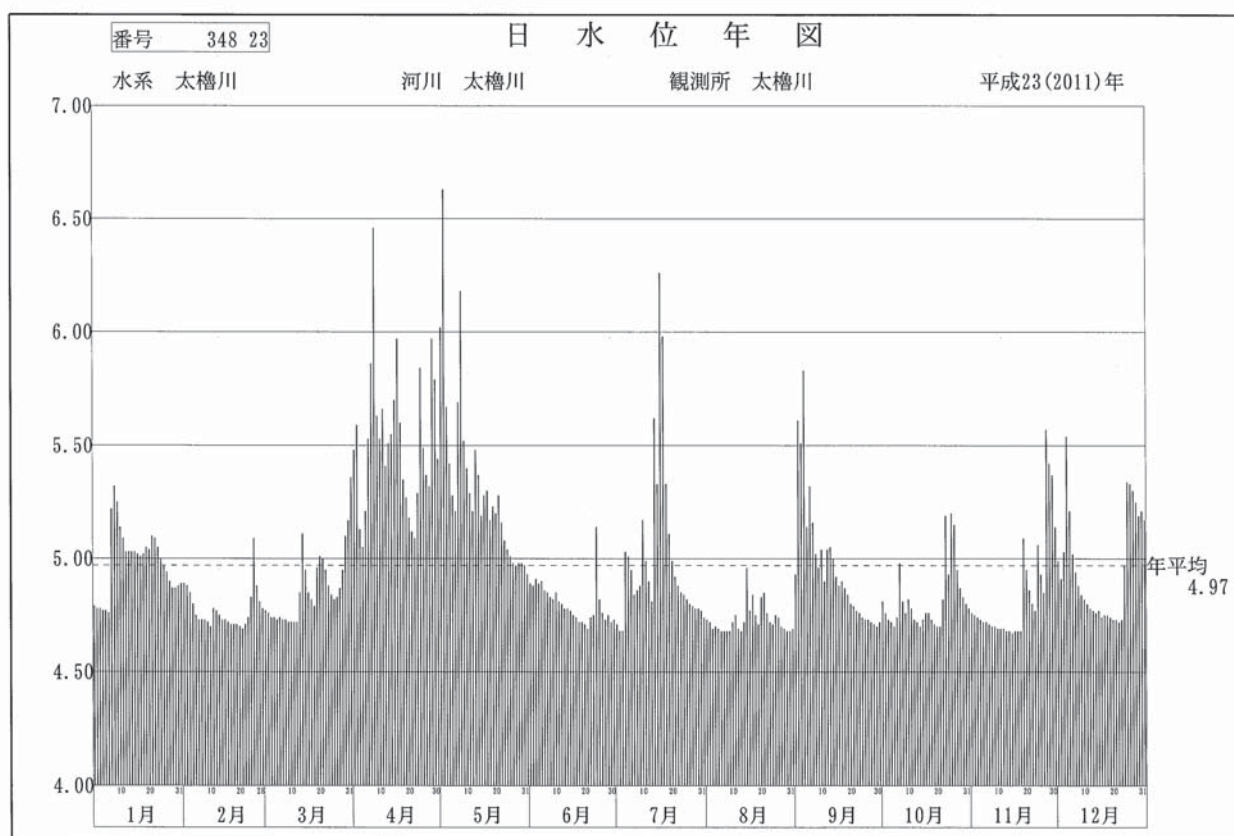
観測所 大野川

平成23(2011)年



## 日流量年表

| 番 号                          | 348 23  | 水 系   | 太櫓川    | 河 川    | 太櫓川    | 観測所   | 太櫓川    | 平成 23 ( 2011 ) 年 |        |        |        |        |
|------------------------------|---------|-------|--------|--------|--------|-------|--------|------------------|--------|--------|--------|--------|
| 日 付                          | 1       | 2     | 3      | 4      | 5      | 6     | 7      | 8                | 9      | 10     | 11     | 12     |
| 1                            | 3.05    | 4.71  | 2.73   | 22.28  | 42.21  | 4.55  | 1.93   | 2.17             | 9.43   | 3.30   | 2.54   | 6.67   |
| 2                            | 2.82    | 4.53  | 2.52   | 26.33  | 63.54  | 4.37  | 1.54   | 2.04             | 27.14  | 2.48   | 2.37   | 4.93   |
| 3                            | 2.75    | 3.89  | 2.29   | 10.18  | 30.05  | 5.02  | 1.59   | 1.72             | 23.88  | 2.11   | 2.26   | 8.71   |
| 4                            | 2.66    | 3.15  | 2.31   | 8.16   | 19.67  | 4.68  | 8.86   | 1.74             | 34.75  | 2.02   | 2.11   | 24.60  |
| 5                            | 2.72    | 2.35  | 2.17   | 13.11  | 14.71  | 4.72  | 7.04   | 1.65             | 10.58  | 1.83   | 2.02   | 12.49  |
| 半旬平均                         | 2.80    | 3.73  | 2.40   | 16.01  | 34.04  | 4.67  | 4.19   | 1.86             | 21.16  | 2.35   | 2.26   | 11.48  |
| 6                            | 2.56    | 2.22  | 2.21   | 24.34  | 12.59  | 4.10  | 5.83   | 1.56             | 16.40  | 2.52   | 2.00   | 7.40   |
| 7                            | 13.10   | 2.15  | 2.20   | 36.18  | 29.81  | 3.91  | 3.72   | 1.57             | 10.98  | 6.65   | 1.91   | 5.58   |
| 8                            | 15.93   | 2.11  | 2.15   | 56.39  | 48.16  | 3.60  | 4.18   | 1.54             | 7.40   | 3.21   | 1.79   | 4.51   |
| 9                            | 13.81   | 2.03  | 1.99   | 28.29  | 23.71  | 3.42  | 4.47   | 1.51             | 6.18   | 2.50   | 1.75   | 3.73   |
| 10                           | 10.48   | 1.78  | 2.04   | 24.26  | 19.07  | 3.96  | 11.67  | 2.03             | 7.88   | 3.50   | 1.68   | 3.38   |
| 半旬平均                         | 11.18   | 2.06  | 2.12   | 33.89  | 26.67  | 3.80  | 5.97   | 1.64             | 9.77   | 3.68   | 1.83   | 4.92   |
| 11                           | 9.15    | 2.84  | 1.98   | 29.63  | 14.97  | 3.33  | 6.62   | 2.37             | 4.78   | 2.76   | 1.63   | 3.18   |
| 12                           | 7.55    | 2.67  | 2.01   | 19.42  | 12.44  | 3.04  | 4.74   | 1.64             | 7.99   | 2.13   | 1.62   | 2.87   |
| 13                           | 7.56    | 2.43  | 4.17   | 23.69  | 22.67  | 2.81  | 3.28   | 1.52             | 8.12   | 1.98   | 1.60   | 2.64   |
| 14                           | 7.57    | 2.18  | 9.69   | 25.23  | 18.01  | 2.85  | 30.24  | 2.04             | 7.01   | 1.81   | 1.56   | 2.58   |
| 15                           | 7.49    | 2.10  | 5.83   | 30.75  | 12.00  | 2.66  | 16.89  | 6.56             | 5.18   | 2.14   | 1.50   | 2.67   |
| 半旬平均                         | 7.86    | 2.44  | 4.74   | 25.74  | 16.02  | 2.94  | 12.35  | 2.83             | 6.62   | 2.16   | 1.58   | 2.79   |
| 16                           | 7.34    | 2.06  | 3.99   | 40.36  | 15.56  | 2.37  | 51.89  | 2.68             | 4.41   | 2.48   | 1.58   | 2.24   |
| 17                           | 7.23    | 1.92  | 3.37   | 26.98  | 15.53  | 2.27  | 40.57  | 3.79             | 4.88   | 2.58   | 1.58   | 2.43   |
| 18                           | 7.44    | 1.94  | 2.96   | 17.22  | 11.21  | 2.03  | 16.62  | 2.37             | 4.28   | 2.08   | 1.56   | 2.39   |
| 19                           | 8.17    | 1.93  | 6.63   | 14.34  | 12.94  | 2.06  | 9.60   | 1.92             | 3.77   | 1.89   | 10.96  | 2.22   |
| 20                           | 7.74    | 1.77  | 7.16   | 11.61  | 12.23  | 1.91  | 6.62   | 4.03             | 3.19   | 1.77   | 5.82   | 2.19   |
| 半旬平均                         | 7.58    | 1.92  | 4.82   | 22.10  | 13.49  | 2.13  | 25.06  | 2.96             | 4.11   | 2.16   | 4.30   | 2.29   |
| 21                           | 9.43    | 1.72  | 6.90   | 10.00  | 14.60  | 1.69  | 5.27   | 4.20             | 2.90   | 1.74   | 4.10   | 2.10   |
| 22                           | 9.18    | 1.89  | 5.82   | 8.97   | 10.93  | 2.21  | 4.48   | 2.61             | 2.72   | 4.11   | 3.08   | 2.10   |
| 23                           | 8.10    | 2.24  | 4.43   | 15.77  | 8.85   | 2.53  | 3.91   | 2.01             | 2.50   | 12.05  | 2.74   | 2.17   |
| 24                           | 6.87    | 3.78  | 3.76   | 36.03  | 7.74   | 11.13 | 3.67   | 1.85             | 2.32   | 5.34   | 8.65   | 6.50   |
| 25                           | 6.33    | 9.19  | 3.46   | 22.51  | 7.04   | 3.48  | 3.36   | 2.42             | 2.15   | 13.10  | 5.33   | 16.64  |
| 半旬平均                         | 7.98    | 3.76  | 4.87   | 18.66  | 9.83   | 4.21  | 4.14   | 2.62             | 2.52   | 7.27   | 4.78   | 5.90   |
| 26                           | 5.55    | 4.53  | 3.60   | 17.75  | 6.34   | 2.51  | 3.08   | 2.23             | 2.09   | 10.80  | 3.96   | 16.45  |
| 27                           | 4.84    | 3.32  | 4.29   | 15.96  | 6.15   | 2.17  | 2.94   | 1.76             | 1.97   | 5.75   | 26.65  | 15.47  |
| 28                           | 4.29    | 2.81  | 5.96   | 40.23  | 6.42   | 2.43  | 2.78   | 1.63             | 1.88   | 4.22   | 20.13  | 13.84  |
| 29                           | 4.23    |       | 9.60   | 34.29  | 6.48   | 2.02  | 2.80   | 1.53             | 1.81   | 3.51   | 17.96  | 11.75  |
| 30                           | 4.50    |       | 11.33  | 20.37  | 6.29   | 2.09  | 2.62   | 1.54             | 1.99   | 3.12   | 10.44  | 12.30  |
| 31                           | 4.58    |       | 17.53  |        | 5.33   |       | 2.32   | 1.64             |        | 2.80   |        | 11.42  |
| 半旬平均                         | 4.67    | 3.55  | 8.72   | 25.72  | 6.17   | 2.24  | 2.76   | 1.72             | 1.95   | 5.03   | 15.83  | 13.54  |
| 月合計                          | 215.02  | 80.24 | 147.08 | 710.63 | 537.25 | 99.92 | 275.13 | 69.87            | 230.56 | 118.28 | 152.88 | 218.15 |
| 月平均                          | 6.94    | 2.87  | 4.74   | 23.69  | 17.33  | 3.33  | 8.88   | 2.25             | 7.69   | 3.82   | 5.10   | 7.04   |
| 比流量                          | 5.17    | 2.14  | 3.53   | 17.64  | 12.90  | 2.48  | 6.61   | 1.68             | 5.73   | 2.84   | 3.80   | 5.24   |
| 総流出量×10 <sup>3</sup>         | 18.59   | 6.94  | 12.70  | 61.40  | 46.42  | 8.63  | 23.78  | 6.03             | 19.93  | 10.23  | 13.22  | 18.86  |
| 総流出高(mm)                     | 138     | 52    | 95     | 457    | 346    | 64    | 177    | 45               | 148    | 76     | 98     | 140    |
| 流域面積                         | 134.3   |       |        |        |        |       |        |                  |        |        |        |        |
| 年最大(ピーク)流量                   | 119.06  |       |        |        |        |       |        |                  |        |        |        |        |
| 年最小流量                        | 0.98    |       |        |        |        |       |        |                  |        |        |        |        |
| 年総流出量                        | 246.73  |       |        |        |        |       |        |                  |        |        |        |        |
| 年総流出高                        | 1837    |       |        |        |        |       |        |                  |        |        |        |        |
| 観測方法                         | 流速計     |       |        |        |        |       |        |                  |        |        |        |        |
| 観測機関                         | 北海道     |       |        |        |        |       |        |                  |        |        |        |        |
| 観測開始年                        | 平成 10 年 |       |        |        |        |       |        |                  |        |        |        |        |
| * 日流量の月最大値を示す。* 日流量の月最小値を示す。 |         |       |        |        |        |       |        |                  |        |        |        |        |
| 水研様式 流量-8 (改)                |         |       |        |        |        |       |        |                  |        |        |        |        |



## 日流量年表

番号 356 23

水系 天野川

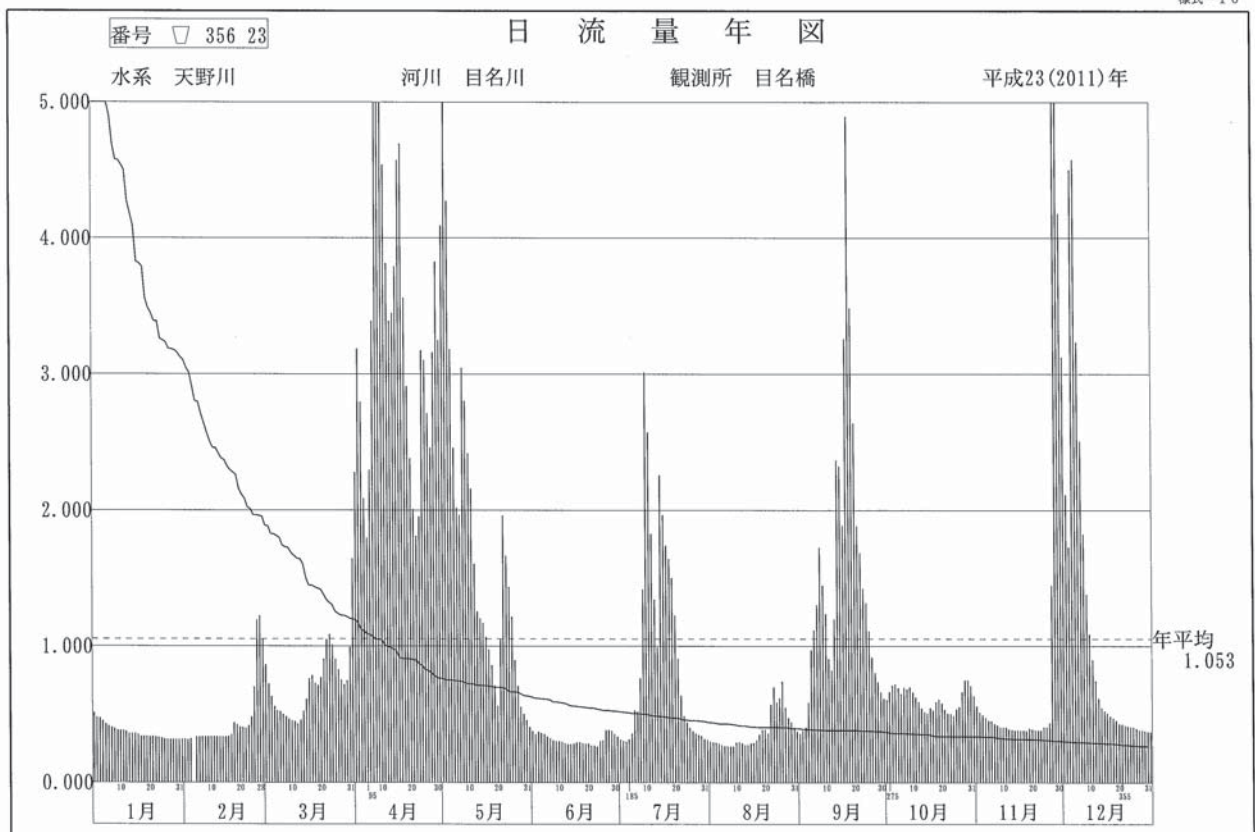
河川 目名川

観測所 目名橋

平成 23 ( 2011 ) 年

| 日                    | 1                    | 2        | 3                                         | 4       | 5      | 6                                     | 7      | 8      | 9                                            | 10     | 11            | 12     |
|----------------------|----------------------|----------|-------------------------------------------|---------|--------|---------------------------------------|--------|--------|----------------------------------------------|--------|---------------|--------|
| 1                    | 0.511                | 0.318    | 0.864                                     | 2.279   | 4.092  | 0.376                                 | 0.314  | 0.300  | 0.357                                        | 0.605  | 0.560         | 3.124  |
| 2                    | 0.479                | 0.315    | 0.722                                     | 3.186   | 5.466  | 0.354                                 | 0.304  | 0.294  | 0.382                                        | 0.664  | 0.513         | 2.115  |
| 3                    | 0.472                | 0.322    | 0.631                                     | 2.798   | 4.273  | 0.373                                 | 0.299  | 0.291  | 0.404                                        | 0.710  | 0.495         | 1.729  |
| 4                    | 0.452                | *        | 0.558                                     | 2.086   | 3.184  | 0.364                                 | 0.316  | 0.284  | 0.584                                        | 0.722  | 0.474         | 4.501  |
| 5                    | 0.430                | 0.334    | 0.529                                     | 1.798   | 2.460  | 0.354                                 | 0.360  | 0.274  | 0.971                                        | 0.693  | 0.454         | 4.576  |
| 半旬平均                 | 0.469                | ( 0.322) | 0.661                                     | 2.429   | 3.895  | 0.364                                 | 0.319  | 0.289  | 0.540                                        | 0.679  | 0.499         | 3.209  |
| 6                    | 0.415                | 0.334    | 0.521                                     | 2.296   | 2.020  | 0.337                                 | 0.529  | 0.267  | 1.117                                        | 0.649  | 0.450         | 3.234  |
| 7                    | 0.405                | 0.336    | 0.500                                     | 3.389   | 1.965  | 0.325                                 | 0.518  | 0.266  | 1.303                                        | 0.696  | 0.429         | 2.508  |
| 8                    | 0.395                | 0.337    | 0.485                                     | 8.001   | 3.045  | 0.309                                 | 0.763  | 0.265  | 1.724                                        | 0.683  | 0.420         | 1.824  |
| 9                    | 0.384                | 0.337    | 0.465                                     | 7.785   | 2.803  | 0.304                                 | 1.418  | 0.265  | 1.448                                        | 0.698  | 0.405         | 1.380  |
| 10                   | 0.382                | 0.336    | 0.454                                     | 5.632   | 2.418  | 0.303                                 | 3.013  | 0.294  | 1.237                                        | 0.661  | 0.405         | 1.088  |
| 半旬平均                 | 0.396                | 0.336    | 0.485                                     | 5.421   | 2.450  | 0.316                                 | 1.248  | 0.271  | 1.366                                        | 0.677  | 0.422         | 2.007  |
| 11                   | 0.382                | 0.336    | 0.448                                     | 4.538   | 2.159  | 0.299                                 | 2.573  | 0.296  | 0.907                                        | 0.624  | 0.405         | 0.898  |
| 12                   | 0.374                | 0.336    | 0.430                                     | 3.814   | 1.605  | 0.287                                 | 1.827  | 0.288  | 0.822                                        | 0.591  | 0.391         | 0.744  |
| 13                   | 0.360                | 0.336    | 0.458                                     | 3.388   | 1.254  | 0.280                                 | 1.343  | 0.275  | 1.197                                        | 0.545  | 0.386         | 0.615  |
| 14                   | 0.358                | 0.337    | 0.523                                     | 3.448   | 1.204  | 0.280                                 | 0.993  | 0.275  | 2.369                                        | 0.516  | 0.382         | 0.545  |
| 15                   | 0.359                | 0.335    | 0.611                                     | 3.790   | 1.169  | 0.284                                 | 2.259  | 0.289  | 2.325                                        | 0.505  | 0.382         | 0.524  |
| 半旬平均                 | 0.367                | 0.336    | 0.494                                     | 3.796   | 1.478  | 0.286                                 | 1.799  | 0.285  | 1.524                                        | 0.556  | 0.389         | 0.665  |
| 16                   | 0.352                | 0.338    | 0.761                                     | 4.574   | 1.068  | 0.294                                 | 1.965  | 0.291  | 1.887                                        | 0.547  | 0.382         | 0.506  |
| 17                   | 0.339                | 0.352    | 0.784                                     | 4.694   | 0.974  | 0.295                                 | 1.740  | 0.311  | 3.260                                        | 0.529  | 0.382         | 0.485  |
| 18                   | 0.338                | 0.438    | 0.727                                     | 3.560   | 0.859  | 0.287                                 | 1.641  | 0.352  | 4.895                                        | 0.591  | 0.378         | 0.471  |
| 19                   | 0.338                | 0.425    | 0.712                                     | 2.911   | 0.711  | 0.283                                 | 1.502  | 0.387  | 3.485                                        | 0.610  | 0.396         | 0.454  |
| 20                   | 0.337                | 0.408    | 0.769                                     | 2.381   | 0.562  | 0.286                                 | 1.226  | 0.389  | 2.642                                        | 0.580  | 0.389         | 0.430  |
| 半旬平均                 | 0.341                | 0.392    | 0.751                                     | 3.624   | 0.835  | 0.289                                 | 1.615  | 0.346  | 3.234                                        | 0.571  | 0.385         | 0.469  |
| 21                   | 0.338                | 0.403    | 0.904                                     | 2.009   | 1.047  | 0.270                                 | 0.907  | 0.361  | 1.885                                        | 0.535  | 0.382         | 0.427  |
| 22                   | 0.334                | 0.395    | 1.049                                     | 1.812   | 1.960  | 0.271                                 | 0.637  | 0.571  | 1.687                                        | 0.507  | 0.382         | 0.415  |
| 23                   | 0.330                | 0.416    | 1.085                                     | 1.953   | 1.665  | 0.264                                 | 0.487  | 0.698  | 1.424                                        | 0.503  | 0.382         | 0.411  |
| 24                   | 0.326                | 0.482    | 1.010                                     | 3.176   | 1.435  | 0.304                                 | 0.440  | 0.587  | 1.318                                        | 0.488  | 0.405         | 0.406  |
| 25                   | 0.320                | 0.701    | 0.906                                     | 3.103   | 1.216  | 0.309                                 | 0.401  | 0.617  | 1.109                                        | 0.538  | 0.405         | 0.405  |
| 半旬平均                 | 0.330                | 0.479    | 0.991                                     | 2.411   | 1.465  | 0.284                                 | 0.574  | 0.567  | 1.485                                        | 0.514  | 0.391         | 0.413  |
| 26                   | 0.317                | 1.193    | 0.825                                     | 2.712   | 0.897  | 0.383                                 | 0.378  | 0.742  | 0.917                                        | 0.555  | 0.434         | 0.394  |
| 27                   | 0.316                | 1.224    | 0.751                                     | 2.459   | 0.707  | 0.386                                 | 0.359  | 0.549  | 0.804                                        | 0.664  | 1.446         | 0.382  |
| 28                   | 0.317                | 1.049    | 0.719                                     | 3.159   | 0.553  | 0.378                                 | 0.348  | 0.473  | 0.737                                        | 0.751  | 5.936         | 0.382  |
| 29                   | 0.316                |          | 0.747                                     | 3.825   | 0.501  | 0.356                                 | 0.342  | 0.442  | 0.662                                        | 0.751  | 5.599         | 0.376  |
| 30                   | 0.317                |          | 0.992                                     | 3.248   | 0.458  | 0.336                                 | 0.320  | 0.403  | 0.614                                        | 0.708  | 4.181         | 0.371  |
| 31                   | 0.317                | #        | 1.644                                     |         | 0.408  |                                       | 0.312  | 0.374  |                                              | 0.635  |               | 0.368  |
| 半旬平均                 | 0.317                | 1.155    | 0.946                                     | 3.081   | 0.587  | 0.368                                 | 0.343  | 0.497  | 0.747                                        | 0.677  | 3.519         | 0.379  |
| 月合計                  | 11.410               | 12.473   | 22.584                                    | 103.804 | 54.138 | 9.531                                 | 29.834 | 11.770 | 44.473                                       | 19.054 | 28.030        | 36.088 |
| 月平均                  | 0.368                | 0.462    | 0.729                                     | 3.460   | 1.746  | 0.318                                 | 0.962  | 0.380  | 1.482                                        | 0.615  | 0.934         | 1.164  |
| 比流量                  | 1.614                | 2.026    | 3.197                                     | 15.175  | 7.658  | 1.395                                 | 4.219  | 1.667  | 6.500                                        | 2.697  | 4.096         | 5.105  |
| 総流出量×10 <sup>8</sup> | 0.986                | 1.118    | 1.953                                     | 8.968   | 4.676  | 0.824                                 | 2.577  | 1.018  | 3.841                                        | 1.647  | 2.421         | 3.118  |
| 総流出高(mm)             | 43                   | 49       | 86                                        | 393     | 205    | 36                                    | 113    | 45     | 168                                          | 72     | 106           | 137    |
| 流域面積                 | 22.8 km <sup>2</sup> |          | 年最大(ピーク)流量 8.001 m <sup>3</sup> /s (4月8日) |         |        | 年最小流量 0.264 m <sup>3</sup> /s (6月23日) |        |        | 年総流出量 33.147 ×10 <sup>8</sup> m <sup>3</sup> |        | 年総流出高 1454 mm |        |

水研様式 流量-8 (改)



## 日流量年表

番号 365 23

水系 亀田川

河川 亀田川

観測所 富岡

平成 23 ( 2011 ) 年

| 日                    | 1                    | 2     | 3     | 4                                             | 5      | 6     | 7                                       | 8     | 9      | 10                                             | 11    | 12    |
|----------------------|----------------------|-------|-------|-----------------------------------------------|--------|-------|-----------------------------------------|-------|--------|------------------------------------------------|-------|-------|
| 1                    | 0.84                 | 1.03  | 1.03  | 0.93                                          | 8.70   | 1.14  | 0.43                                    | 0.41  | 0.43   | 2.49                                           | 0.93  | 1.89  |
| 2                    | 1.14                 | 0.75  | 1.14  | 1.25                                          | 13.79  | 0.84  | 0.41                                    | 0.41  | 0.41   | 2.33                                           | 0.46  | 1.49  |
| 3                    | 0.75                 | 1.03  | 1.25  | 1.14                                          | 9.31   | 1.14  | 0.43                                    | 0.41  | 0.93   | 2.18                                           | 0.46  | 2.82  |
| 4                    | 0.93                 | 1.03  | 1.25  | 1.03                                          | 7.27   | 0.93  | 2.18                                    | 0.41  | 1.89   | 1.25                                           | 0.48  | 7.54  |
| 5                    | 0.66                 | 1.14  | 1.14  | 0.93                                          | 5.96   | 0.84  | 1.89                                    | 0.41  | 1.03   | 0.84                                           | 0.39  | 5.96  |
| 半旬平均                 | 0.86                 | 1.00  | 1.16  | 1.06                                          | 9.01   | 0.98  | 1.07                                    | 0.41  | 0.94   | 1.82                                           | 0.54  | 3.94  |
| 6                    | 0.93                 | 1.25  | 1.03  | 1.14                                          | 5.24   | 0.58  | 0.75                                    | 0.39  | 22.86  | 0.93                                           | 0.32  | 3.93  |
| 7                    | 0.84                 | 0.84  | 1.37  | 1.37                                          | 5.24   | 0.58  | 0.46                                    | 0.37  | 10.60  | 2.65                                           | 0.34  | 2.82  |
| 8                    | 0.84                 | 0.75  | 1.62  | 3.54                                          | 11.61  | 0.46  | 1.37                                    | 0.37  | 7.27   | 1.75                                           | 0.39  | 2.49  |
| 9                    | 0.48                 | 0.48  | 1.62  | 2.65                                          | 7.27   | 0.58  | 0.75                                    | 0.37  | 5.47   | 0.93                                           | 0.41  | 2.33  |
| 10                   | 0.48                 | 0.66  | 1.62  | 1.62                                          | 5.71   | 0.48  | 0.75                                    | 0.58  | 5.24   | 1.49                                           | 0.39  | 1.75  |
| 半旬平均                 | 0.71                 | 0.80  | 1.45  | 2.06                                          | 7.01   | 0.54  | 0.82                                    | 0.42  | 10.29  | 1.55                                           | 0.37  | 2.66  |
| 11                   | 0.46                 | 0.58  | 1.62  | 1.37                                          | 5.01   | 0.48  | 0.48                                    | 0.39  | 3.54   | 0.93                                           | 0.37  | 1.75  |
| 12                   | 0.43                 | 0.48  | 1.62  | 1.37                                          | 4.14   | 0.43  | 0.43                                    | 0.34  | 3.74   | 0.66                                           | 0.37  | 1.62  |
| 13                   | 0.46                 | 0.58  | 1.75  | 1.49                                          | 6.21   | 0.41  | 0.43                                    | 0.32  | 6.73   | 0.58                                           | 0.37  | 1.37  |
| 14                   | 0.39                 | 0.66  | 2.03  | 1.37                                          | 6.21   | 0.48  | 1.37                                    | 0.30  | 8.11   | 0.43                                           | 0.41  | 1.03  |
| 15                   | 0.41                 | 0.66  | 1.89  | 1.37                                          | 5.01   | 0.48  | 1.25                                    | 1.62  | 5.47   | 1.03                                           | 0.41  | 1.14  |
| 半旬平均                 | 0.43                 | 0.59  | 1.78  | 1.39                                          | 5.32   | 0.46  | 0.79                                    | 0.59  | 5.52   | 0.73                                           | 0.39  | 1.38  |
| 16                   | 0.66                 | 0.66  | 1.49  | 3.35                                          | 5.24   | 0.39  | 2.82                                    | 2.03  | 4.14   | 1.75                                           | 0.39  | 0.84  |
| 17                   | 0.84                 | 0.66  | 1.89  | 7.00                                          | 5.24   | 0.39  | 4.78                                    | 1.03  | 5.47   | 1.62                                           | 0.41  | 0.84  |
| 18                   | 0.84                 | 1.49  | 1.49  | 5.24                                          | 5.01   | 0.37  | 2.99                                    | 0.66  | 7.00   | 1.14                                           | 0.37  | 0.93  |
| 19                   | 0.84                 | 1.25  | 0.93  | 5.01                                          | 4.56   | 0.34  | 2.18                                    | 0.58  | 5.71   | 0.93                                           | 1.03  | 0.66  |
| 20                   | 0.84                 | 1.25  | 0.84  | 4.14                                          | 4.35   | 0.39  | 1.62                                    | 0.75  | 4.14   | 0.58                                           | 0.84  | 0.46  |
| 半旬平均                 | 0.80                 | 1.06  | 1.33  | 4.95                                          | 4.88   | 0.38  | 2.88                                    | 1.01  | 5.29   | 1.20                                           | 0.61  | 0.75  |
| 21                   | 0.84                 | 1.14  | 0.93  | 3.54                                          | 4.35   | 0.30  | 0.84                                    | 0.43  | 3.74   | 0.43                                           | 0.66  | 0.58  |
| 22                   | 0.84                 | 1.25  | 1.03  | 2.99                                          | 4.14   | 0.48  | 0.48                                    | 0.41  | 8.41   | 0.93                                           | 0.48  | 0.46  |
| 23                   | 0.58                 | 1.25  | 1.03  | 3.17                                          | 3.93   | 0.58  | 0.48                                    | 2.33  | 6.73   | 2.99                                           | 0.46  | 1.03  |
| 24                   | 0.58                 | 1.75  | 0.93  | 6.73                                          | 4.14   | 1.37  | 0.48                                    | 2.65  | 5.47   | 2.03                                           | 2.33  | 0.75  |
| 25                   | 0.58                 | 2.49  | 0.93  | 6.21                                          | 3.74   | 0.48  | 0.46                                    | 3.17  | 4.35   | 2.49                                           | 1.89  | 0.46  |
| 半旬平均                 | 0.68                 | 1.58  | 0.97  | 4.53                                          | 4.06   | 0.64  | 0.55                                    | 1.80  | 5.74   | 1.77                                           | 1.16  | 0.66  |
| 26                   | 0.48                 | 1.25  | 0.84  | 5.24                                          | 2.82   | 0.46  | 0.46                                    | 2.49  | 3.35   | 3.17                                           | 1.14  | 0.48  |
| 27                   | 0.41                 | 1.25  | 0.75  | 5.01                                          | 2.82   | 0.46  | 0.43                                    | 2.03  | 2.99   | 2.65                                           | 2.03  | 0.41  |
| 28                   | 0.43                 | 1.37  | 0.75  | 9.01                                          | 3.74   | 0.41  | 0.43                                    | 1.14  | 2.65   | 1.37                                           | 2.49  | 0.41  |
| 29                   | 0.48                 |       | 0.75  | 8.70                                          | 3.17   | 0.46  | 0.41                                    | 0.58  | 2.18   | 1.03                                           | 3.74  | 0.39  |
| 30                   | 0.46                 |       | 0.75  | 6.73                                          | 3.17   | 0.48  | 0.41                                    | 0.46  | 2.49   | 1.03                                           | 2.82  | 0.43  |
| 31                   | 0.93                 |       | 0.84  |                                               | 2.33   |       | 0.43                                    | 0.43  |        | 0.93                                           |       | 0.41  |
| 半旬平均                 | 0.53                 | 1.29  | 0.78  | 6.94                                          | 3.01   | 0.45  | 0.43                                    | 1.19  | 2.73   | 1.70                                           | 2.44  | 0.42  |
| 月合計                  | 20.67                | 28.98 | 38.15 | 104.64                                        | 169.43 | 17.21 | 33.08                                   | 28.27 | 152.54 | 45.54                                          | 27.58 | 49.47 |
| 月平均                  | 0.67                 | 1.04  | 1.23  | 3.49                                          | 5.47   | 0.57  | 1.07                                    | 0.91  | 5.08   | 1.47                                           | 0.92  | 1.60  |
| 比流量                  | 1.77                 | 2.75  | 3.25  | 9.23                                          | 14.47  | 1.51  | 2.83                                    | 2.41  | 13.44  | 3.89                                           | 2.43  | 4.23  |
| 総流出量×10 <sup>3</sup> | 1.79                 | 2.52  | 3.29  | 9.05                                          | 14.65  | 1.48  | 2.87                                    | 2.44  | 13.17  | 3.94                                           | 2.38  | 4.29  |
| 総流出高(mm)             | 47                   | 67    | 87    | 239                                           | 388    | 39    | 76                                      | 65    | 348    | 104                                            | 63    | 113   |
| 流域面積                 | 37.8 Km <sup>2</sup> |       |       | 年最大(ピーク)流量<br>22.86 (9月 6日) m <sup>3</sup> /s |        |       | 年最小流量<br>0.30 (8月14日) m <sup>3</sup> /s |       |        | 年総流出量<br>61.87 ×10 <sup>3</sup> m <sup>3</sup> |       |       |
|                      |                      |       |       | 年総流出高<br>1637 mm                              |        |       |                                         |       |        |                                                |       |       |

水研様式 流量-8 (改)

## 日流量年図

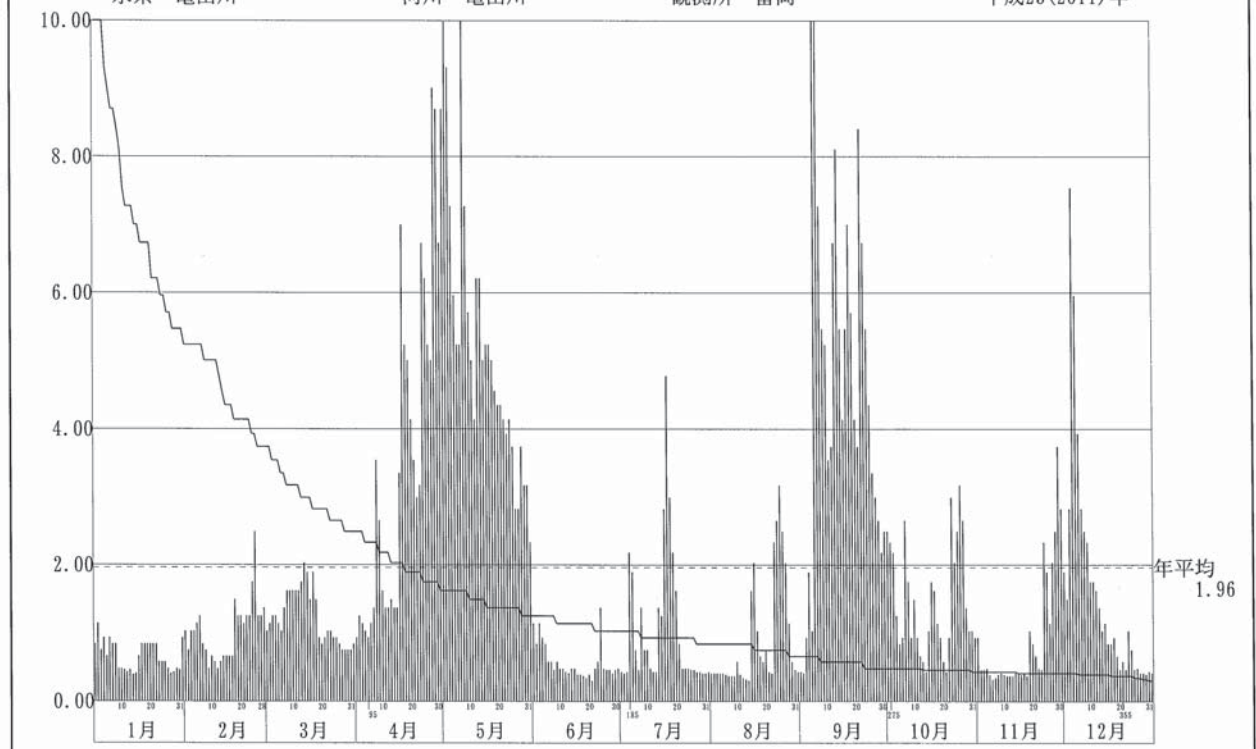
番号 365 23

水系 亀田川

河川 亀田川

観測所 富岡

平成23(2011)年



## 日 流 量 年 表

番 号 □ 366 23

水 系 亀田川

河 川 亀田川

観測所 新中野ダム

平成 23 ( 2011 ) 年

| 日 月                | 1                  | 2     | 3                                                   | 4     | 5     | 6     | 7                                             | 8     | 9                                        | 10    | 11                          | 12    |
|--------------------|--------------------|-------|-----------------------------------------------------|-------|-------|-------|-----------------------------------------------|-------|------------------------------------------|-------|-----------------------------|-------|
| 1                  | 0.60               | 0.54  | 0.48                                                | 0.65  | 4.11  | 0.77  | 0.53                                          | 0.50  | 0.63                                     | 1.25  | 0.79                        | 1.03  |
| 2                  | 0.61               | 0.52  | 0.46                                                | 0.71  | 4.29  | 0.75  | 0.52                                          | 0.49  | 0.63                                     | 1.16  | 0.68                        | 0.92  |
| 3                  | 0.59               | 0.52  | 0.45                                                | 0.53  | 2.66  | 0.76  | 0.51                                          | 0.49  | 1.04                                     | 1.00  | 0.68                        | 1.87  |
| 4                  | 0.59               | 0.53  | 0.45                                                | 0.48  | 2.23  | 0.72  | 1.43                                          | 0.49  | 0.90                                     | 0.85  | 0.63                        | 2.47  |
| 5                  | 0.60               | 0.52  | 0.44                                                | 0.68  | 1.96  | 0.70  | 0.86                                          | 0.48  | 0.91                                     | 0.78  | 0.63                        | 1.57  |
| 半旬平均               | 0.60               | 0.53  | 0.46                                                | 0.61  | 3.05  | 0.74  | 0.77                                          | 0.49  | 0.82                                     | 1.01  | 0.68                        | 1.57  |
| 6                  | 0.60               | 0.52  | 0.45                                                | 0.98  | 1.83  | 0.64  | 0.65                                          | 0.47  | 10.76                                    | 0.87  | 0.63                        | 1.27  |
| 7                  | 0.59               | 0.53  | 0.44                                                | 1.18  | 2.53  | 0.63  | 0.63                                          | 0.46  | 3.53                                     | 1.28  | 0.63                        | 1.16  |
| 8                  | 0.58               | 0.49  | 0.44                                                | 2.94  | 4.01  | 0.60  | 0.82                                          | 0.45  | 2.47                                     | 0.86  | 0.60                        | 1.06  |
| 9                  | 0.56               | 0.48  | 0.44                                                | 1.45  | 2.34  | 0.60  | 0.68                                          | 0.44  | 2.04                                     | 0.75  | 0.61                        | 0.99  |
| 10                 | 0.57               | 0.49  | 0.42                                                | 1.22  | 2.16  | 0.64  | 0.65                                          | 1.02  | 1.90                                     | 0.79  | 0.59                        | 0.93  |
| 半旬平均               | 0.58               | 0.50  | 0.44                                                | 1.55  | 2.57  | 0.62  | 0.69                                          | 0.57  | 4.14                                     | 0.91  | 0.61                        | 1.08  |
| 11                 | 0.59               | 0.47  | 0.43                                                | 1.30  | 1.85  | 0.58  | 0.64                                          | 0.75  | 1.59                                     | 0.72  | 0.57                        | 0.91  |
| 12                 | 0.63               | 0.46  | 0.42                                                | 1.18  | 1.67  | 0.57  | 0.58                                          | 0.51  | 1.64                                     | 0.69  | 0.56                        | 0.88  |
| 13                 | 0.64               | 0.46  | 0.48                                                | 1.42  | 2.89  | 0.57  | 0.55                                          | 0.46  | 2.94                                     | 0.67  | 0.55                        | 0.84  |
| 14                 | 0.62               | 0.46  | 0.53                                                | 1.46  | 2.02  | 0.61  | 0.76                                          | 0.47  | 2.65                                     | 0.67  | 0.56                        | 0.81  |
| 15                 | 0.60               | 0.46  | 0.47                                                | 1.81  | 1.72  | 0.59  | 0.89                                          | 1.03  | 1.93                                     | 0.79  | 0.58                        | 0.80  |
| 半旬平均               | 0.62               | 0.46  | 0.47                                                | 1.43  | 2.03  | 0.58  | 0.68                                          | 0.64  | 2.15                                     | 0.71  | 0.56                        | 0.85  |
| 16                 | 0.61               | 0.46  | 0.48                                                | 3.62  | 1.93  | 0.60  | 2.04                                          | 1.97  | 1.68                                     | 0.99  | 0.58                        | 0.71  |
| 17                 | 0.60               | 0.49  | 0.45                                                | 2.32  | 1.97  | 0.58  | 1.86                                          | 1.28  | 2.11                                     | 0.76  | 0.58                        | 0.67  |
| 18                 | 0.58               | 0.54  | 0.44                                                | 1.80  | 1.72  | 0.56  | 1.29                                          | 0.93  | 2.20                                     | 0.69  | 0.58                        | 0.72  |
| 19                 | 0.60               | 0.49  | 0.46                                                | 1.55  | 1.69  | 0.55  | 1.07                                          | 0.76  | 1.82                                     | 0.66  | 1.26                        | 0.66  |
| 20                 | 0.62               | 0.49  | 0.48                                                | 1.31  | 1.47  | 0.54  | 0.80                                          | 0.69  | 1.64                                     | 0.67  | 0.93                        | 0.59  |
| 半旬平均               | 0.60               | 0.49  | 0.46                                                | 2.12  | 1.76  | 0.57  | 1.41                                          | 1.13  | 1.89                                     | 0.75  | 0.79                        | 0.67  |
| 21                 | 0.58               | 0.46  | 0.50                                                | 1.17  | 1.56  | 0.51  | 0.69                                          | 0.65  | 1.72                                     | 0.64  | 0.70                        | 0.61  |
| 22                 | 0.58               | 0.47  | 0.50                                                | 1.10  | 1.43  | 0.52  | 0.67                                          | 0.63  | 3.49                                     | 1.19  | 0.63                        | 0.63  |
| 23                 | 0.56               | 0.49  | 0.50                                                | 1.66  | 0.92  | 0.61  | 0.65                                          | 1.14  | 2.30                                     | 1.42  | 0.60                        | 0.66  |
| 24                 | 0.55               | 0.57  | 0.47                                                | 2.67  | 0.70  | 1.04  | 0.66                                          | 1.30  | 1.89                                     | 1.01  | 1.85                        | 0.62  |
| 25                 | 0.55               | 0.79  | 0.44                                                | 1.98  | 0.59  | 0.59  | 0.64                                          | 1.29  | 1.66                                     | 1.53  | 1.03                        | 0.60  |
| 半旬平均               | 0.56               | 0.56  | 0.48                                                | 1.72  | 1.04  | 0.65  | 0.66                                          | 1.00  | 2.21                                     | 1.16  | 0.96                        | 0.62  |
| 26                 | 0.55               | 0.56  | 0.46                                                | 1.81  | 0.56  | 0.55  | 0.62                                          | 1.18  | 1.56                                     | 1.37  | 0.83                        | 0.61  |
| 27                 | 0.53               | 0.50  | 0.43                                                | 1.82  | 0.44  | 0.54  | 0.60                                          | 0.90  | 1.46                                     | 1.12  | 1.20                        | 0.60  |
| 28                 | 0.59               | 0.48  | 0.43                                                | 3.93  | 0.29  | 0.57  | 0.58                                          | 0.71  | 1.37                                     | 0.97  | 1.18                        | 0.57  |
| 29                 | 0.55               | 0.48  | 0.48                                                | 2.51  | 0.31  | 0.55  | 0.55                                          | 0.67  | 1.29                                     | 1.01  | 1.69                        | 0.59  |
| 30                 | 0.54               | 0.54  | 0.54                                                | 2.16  | 0.36  | 0.54  | 0.53                                          | 0.66  | 1.38                                     | 0.98  | 1.24                        | 0.58  |
| 31                 | 0.53               | 0.55  | 0.55                                                | 0.65  | 0.65  | 0.52  | 0.65                                          | 0.65  | 0.99                                     | 0.99  | 0.99                        | 0.60  |
| 半旬平均               | 0.55               | 0.51  | 0.48                                                | 2.45  | 0.44  | 0.55  | 0.57                                          | 0.80  | 1.41                                     | 1.07  | 1.23                        | 0.59  |
| 月合計                | 18.09              | 14.24 | 14.41                                               | 49.40 | 54.86 | 18.58 | 24.47                                         | 23.92 | 63.13                                    | 29.13 | 24.17                       | 27.53 |
| 月平均                | 0.58               | 0.51  | 0.46                                                | 1.65  | 1.77  | 0.62  | 0.79                                          | 0.77  | 2.10                                     | 0.94  | 0.81                        | 0.89  |
| 比流量                | 3.31               | 2.91  | 2.63                                                | 9.43  | 10.11 | 3.54  | 4.51                                          | 4.40  | 12.00                                    | 5.37  | 4.63                        | 5.09  |
| 総流出量 $\times 10^4$ | 1.55               | 1.23  | 1.23                                                | 4.28  | 4.74  | 1.61  | 2.12                                          | 2.06  | 5.44                                     | 2.52  | 2.10                        | 2.38  |
| 総流出高(mm)           | 89                 | 70    | 70                                                  | 245   | 271   | 92    | 121                                           | 118   | 311                                      | 144   | 120                         | 136   |
| 流域面積               | 17.5 $\text{km}^2$ |       | 年最大(ピーク)流量 $\text{m}^3/\text{s}$<br>10.76 ( 9月 6日 ) |       |       |       | 年最小流量 $\text{m}^3/\text{s}$<br>0.29 ( 5月28日 ) |       | 年総流出量 $\times 10^4 \text{ m}^3$<br>31.26 |       | 年総流出高 mm<br>1786            |       |
| 観測方法               | 観測機関               |       | 北海道                                                 |       |       |       | 観測開始年                                         |       | 昭和 60 年                                  |       | * 日流量の月最大値を示す。# 日流量の月最小を示す。 |       |
| 水研様式 流量-8 (改)      |                    |       |                                                     |       |       |       |                                               |       |                                          |       |                             |       |

## 日 流 量 年 図

番 号 □ 366 23

水 系 亀田川

河 川 亀田川

観測所 新中野ダム

平成23(2011)年

