## 05064000 WILD RICE RIVER AT HENDRUM, MN

LOCATION.--Lat 47°16′05", long 96°47′50", in SE¼SE¼ sec. 19, T.144 N., R.48 W., Norman County, Hydrologic Unit 09020108, on right bank 30 ft downstream from County Highway 25 bridge, 0.5 mi east of Hendrum and 4 mi upstream from mouth.

DRAINAGE AREA.--1,560 $mi^2$.

PERIOD OF RECORD.--March 1944 to September 1984 and May 1985 to current year. Operated as a high-flow partial-record station October 1984 to April 1985.

REVISED RECORDS.--WSP 1728: 1958.

GAGE.--Water-stage recorder. Datum of gage is 836.75 ft above sea level (NGVD of 1929, levels by U.S. Army Corps of Engineers). Prior to July 18, 1989, nonrecording gage at same site and datum.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Large part of high flow diverted into Marsh River Basin at overflow section 3.5 mi east of Ada. Another diversion into the Marsh River Basin formed in 1947, 1.5 mi southeast of Ada and diverted water at all stages 1947-51, after which it was closed except for a small regulated flow diverted for abatement of contamination from Ada sewage plant effluent. Amount of diversion not known.

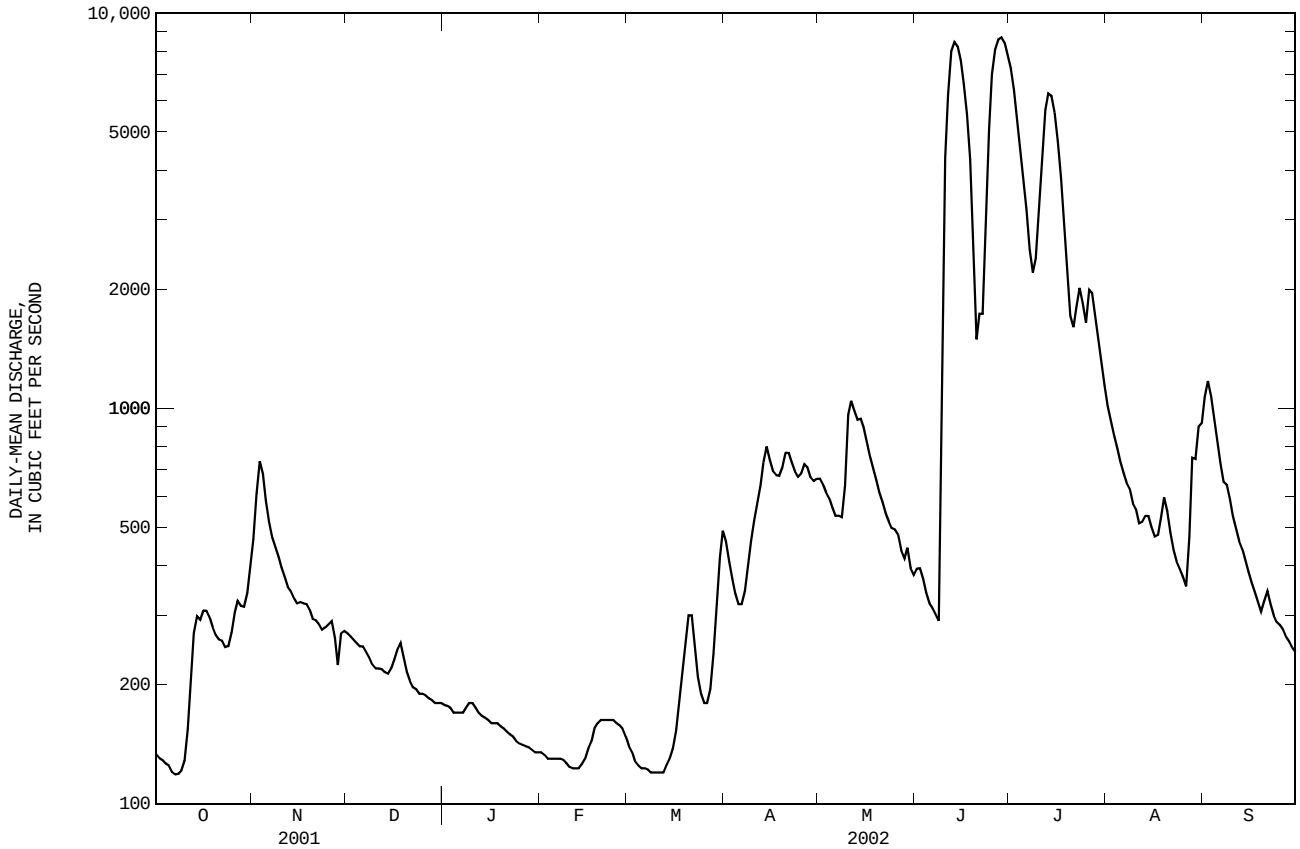
DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 133 | 467 | e270 | e178 | e135 | e140 | e460 | 665 | 394 | 7240 | 1010 | 1070 |
| 2 | 130 | 609 | e265 | e177 | e133 | e135 | e410 | 644 | 395 | 6380 | 930 | 1170 |
| 3 | 129 | 735 | e260 | e175 | e130 | e128 | e370 | 613 | 371 | 5410 | 853 | 1070 |
| 4 | 126 | 682 | e255 | e170 | e130 | e125 | e340 | 592 | 341 | 4560 | 792 | 943 |
| 5 | 125 | 586 | e250 | e170 | e130 | e123 | e320 | 560 | 321 | 3840 | 735 | 829 |
| 6 | 120 | 516 | e250 | e170 | e130 | e123 | e320 | 536 | 312 | 3190 | 689 | 728 |
| 7 | 119 | 471 | e243 | e170 | e130 | e122 | e345 | 535 | 302 | 2520 | 649 | 652 |
| 8 | 119 | 446 | e235 | e175 | e129 | e120 | e400 | 530 | 290 | 2210 | 626 | 641 |
| 9 | 121 | 421 | e225 | e180 | e127 | e120 | e460 | 638 | 1090 | 2390 | 574 | 588 |
| 10 | 129 | 395 | e220 | e180 | e124 | e120 | e520 | 965 | 4300 | 3290 | 557 | 534 |
| 11 | 154 | 375 | e220 | e175 | e123 | e120 | e580 | 1050 | 6210 | 4390 | 512 | 495 |
| 12 | 202 | 353 | e219 | e170 | e123 | e120 | e640 | 987 | 7990 | 5690 | 517 | 461 |
| 13 | 271 | 344 | e215 | e167 | e123 | e125 | e730 | 936 | 8450 | 6260 | 535 | 440 |
| 14 | 298 | 332 | e213 | e165 | e126 | e130 | e800 | 941 | 8230 | 6170 | 534 | 411 |
| 15 | 292 | 321 | e220 | e163 | e130 | e138 | 740 | 896 | 7570 | 5600 | e500 | 385 |
| 16 | 308 | 324 | e231 | e160 | e138 | e153 | 693 | 824 | 6630 | 4730 | 474 | 362 |
| 17 | 308 | 321 | e245 | e160 | e144 | e176 | 678 | 755 | 5550 | 3830 | 479 | 342 |
| 18 | 297 | 320 | e255 | e160 | e155 | e210 | 676 | 705 | 4260 | 2870 | 533 | 322 |
| 19 | 280 | 310 | e235 | e157 | e160 | e250 | 710 | 657 | 2570 | 2160 | 595 | 306 |
| 20 | 267 | 293 | e215 | e155 | e163 | e300 | 773 | 613 | 1500 | 1710 | 549 | 326 |
| 21 | 260 | 291 | e205 | e152 | e163 | e300 | 771 | 579 | 1730 | 1600 | 484 | 345 |
| 22 | 258 | 284 | e197 | e150 | e163 | e250 | 732 | 543 | 1730 | 1800 | 438 | 320 |
| 23 | 249 | 276 | e195 | e148 | e163 | e210 | 695 | 518 | 2700 | 2020 | 410 | 299 |
| 24 | 251 | 280 | e190 | e144 | e163 | e190 | 671 | 497 | 5050 | 1840 | 394 | 289 |
| 25 | 271 | 284 | e190 | e142 | e160 | e180 | 685 | 494 | 6990 | 1650 | 375 | 284 |
| 26 | 305 | 290 | e188 | e141 | e158 | e180 | 723 | 479 | 8080 | 2000 | 355 | 276 |
| 27 | 326 | 263 | e185 | e140 | e155 | e195 | 710 | 438 | 8560 | 1960 | 473 | 264 |
| 28 | 317 | 225 | e183 | e139 | e148 | e240 | 669 | 417 | 8660 | 1730 | 750 | 257 |
| 29 | 315 | 270 | e180 | e137 | --- | e320 | 654 | 444 | 8390 | 1520 | 745 | 248 |
| 30 | 341 | 273 | e180 | e135 | --- | e420 | 663 | 395 | 7860 | 1310 | 900 | 242 |
| 31 | 400 | --- | e180 | e135 | --- | e490 | --- | 379 | --- | 1140 | 919 | --- |
| TOTAL | 7221 | 11357 | 6814 | 4940 | 3956 | 5953 | 17938 | 19825 | 126826 | 103010 | 18886 | 14899 |
| MEAN | 233 | 379 | 220 | 159 | 141 | 192 | 598 | 640 | 4228 | 3323 | 609 | 497 |
| MAX | 400 | 735 | 270 | 180 | 163 | 490 | 800 | 1050 | 8660 | 7240 | 1010 | 1170 |
| MIN | 119 | 225 | 180 | 135 | 123 | 120 | 320 | 379 | 290 | 1140 | 355 | 242 |
| AC-FT | 14320 | 22530 | 13520 | 9800 | 7850 | 11810 | 35580 | 39320 | 251600 | 204300 | 37460 | 29550 |
| CFSM | 0.15 | 0.24 | 0.14 | 0.10 | 0.09 | 0.12 | 0.38 | 0.41 | 2.71 | 2.13 | 0.39 | 0.32 |
| IN. | 0.17 | 0.27 | 0.16 | 0.12 | 0.09 | 0.14 | 0.43 | 0.47 | 3.02 | 2.46 | 0.45 | 0.36 |

05064000 WILD RICE RIVER AT HENDRUM, MN--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1944 - 2002, BY WATER YEAR (WY)

| | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MEAN | 145 | 152 | 86.5 | 62.5 | 69.9 | 332 | 1237 | 666 | 560 | 457 | 173 | 144 |
| MAX | 744 | 1305 | 390 | 245 | 767 | 1485 | 5115 | 2137 | 4228 | 3323 | 1833 | 1329 |
| (WY) | 1972 | 2001 | 2001 | 2001 | 1998 | 1966 | 1997 | 1998 | 2002 | 2002 | 1993 | 1999 |
| MIN | 0.44 | 3.32 | 1.08 | 0.092 | 0.22 | 0.46 | 106 | 56.1 | 9.15 | 8.82 | 1.07 | 0.18 |
| (WY) | 1949 | 1949 | 1977 | 1977 | 1977 | 1949 | 1981 | 1977 | 1952 | 1951 | 1977 | 1948 |

| SUMMARY STATISTICS | FOR 2001 CALENDAR YEAR | | FOR 2002 WATER YEAR | | WATER YEARS 1944 - 2002 | | |
|---|---|---|---|---|---|---|---|
| ANNUAL TOTAL | 279475 | | 341625 | | | | |
| ANNUAL MEAN | 766 | | 936 | | 335a | | |
| HIGHEST ANNUAL MEAN | | | | | 936 | | 2002 |
| LOWEST ANNUAL MEAN | | | | | 28.9 | | 1977 |
| HIGHEST DAILY MEAN | 9470 | Apr 10 | 8660 | Jun 28 | 10300 | Apr 18 | 1997 |
| LOWEST DAILY MEAN | 119 | Oct 7 | 119 | Oct 7,8 | 0.00b | Sep 13 | 1948 |
| ANNUAL SEVEN-DAY MINIMUM | 123 | Oct 3 | 121 | Mar 6 | 0.00 | Sep 27 | 1948 |
| MAXIMUM PEAK FLOW | | | 8690c | Jun 28 | 10600d | Apr 18 | 1997 |
| MAXIMUM PEAK STAGE | | | 28.02 | Jun 13 | 33.85f | Apr 18 | 1997 |
| ANNUAL RUNOFF (AC-FT) | 554300 | | 677600 | | 242600 | | |
| ANNUAL RUNOFF (CFSM) | 0.49 | | 0.60 | | 0.21 | | |
| ANNUAL RUNOFF (INCHES) | 6.66 | | 8.15 | | 2.92 | | |
| 10 PERCENT EXCEEDS | 1890 | | 2180 | | 779 | | |
| 50 PERCENT EXCEEDS | 260 | | 332 | | 101 | | |
| 90 PERCENT EXCEEDS | 156 | | 134 | | 17 | | |

a Median of annual mean discharges is 287 $ft^3/s$.
b Many days, Sep.-Oct. 1948.
c Gage-height, 26.48 ft.
d From measurement of discharge.
e Estimated.
f Backwater from Red River of the North.