

# Reach 4 - St Cloud to Anoka

## Low Flow Conditions

Mississippi River Low Flow Surface Current Travel Times in Days, Hours, and Minutes (DD:HH:MM)

St Cloud Dam to USGS Gaging Station 05288500 near Anoka, MN

For flow rates which are exceeded 90-percent of the time based on the period of record.

| Mile  |               |                             |                          |                                                 |                                       |                          |                            |                                 |                                |                                       |                         |                                 |                                                   |                             |                                |                                                           |                         |                         |                      |                           |            |         |       |
|-------|---------------|-----------------------------|--------------------------|-------------------------------------------------|---------------------------------------|--------------------------|----------------------------|---------------------------------|--------------------------------|---------------------------------------|-------------------------|---------------------------------|---------------------------------------------------|-----------------------------|--------------------------------|-----------------------------------------------------------|-------------------------|-------------------------|----------------------|---------------------------|------------|---------|-------|
| 926.4 | St. Cloud Dam |                             |                          |                                                 |                                       |                          |                            |                                 |                                |                                       |                         |                                 |                                                   |                             |                                |                                                           |                         |                         |                      |                           |            |         |       |
| 921.3 | 0:06:02       | Confluence of Johnson Creek |                          |                                                 |                                       |                          |                            |                                 |                                |                                       |                         |                                 |                                                   |                             |                                |                                                           |                         |                         |                      |                           |            |         |       |
| 916.8 | 0:11:17       | 0:05:15                     | Confluence of Plum Creek |                                                 |                                       |                          |                            |                                 |                                |                                       |                         |                                 |                                                   |                             |                                |                                                           |                         |                         |                      |                           |            |         |       |
| 914.5 | 0:13:58       | 0:07:55                     | 0:02:40                  | Clearwater River and Wright-Stearns County Line |                                       |                          |                            |                                 |                                |                                       |                         |                                 |                                                   |                             |                                |                                                           |                         |                         |                      |                           |            |         |       |
| 914.0 | 0:14:32       | 0:08:30                     | 0:03:15                  | 0:00:34                                         | State Highway 24 Bridge at Clearwater |                          |                            |                                 |                                |                                       |                         |                                 |                                                   |                             |                                |                                                           |                         |                         |                      |                           |            |         |       |
| 910.7 | 0:18:20       | 0:12:18                     | 0:07:03                  | 0:04:22                                         | 0:03:47                               | Confluence of Fish Creek |                            |                                 |                                |                                       |                         |                                 |                                                   |                             |                                |                                                           |                         |                         |                      |                           |            |         |       |
| 906.7 | 0:22:54       | 0:16:52                     | 0:11:36                  | 0:08:56                                         | 0:08:21                               | 0:04:33                  | Confluence of Silver Creek |                                 |                                |                                       |                         |                                 |                                                   |                             |                                |                                                           |                         |                         |                      |                           |            |         |       |
| 904.8 | 1:01:10       | 0:19:08                     | 0:13:52                  | 0:11:12                                         | 0:10:37                               | 0:06:49                  | 0:02:15                    | Becker Coal Burning Power Plant |                                |                                       |                         |                                 |                                                   |                             |                                |                                                           |                         |                         |                      |                           |            |         |       |
| 900.6 | 1:06:33       | 1:00:31                     | 0:19:16                  | 0:16:35                                         | 0:16:01                               | 0:12:13                  | 0:07:39                    | 0:05:23                         | Monticello Nuclear Power Plant |                                       |                         |                                 |                                                   |                             |                                |                                                           |                         |                         |                      |                           |            |         |       |
| 896.9 | 1:11:53       | 1:05:51                     | 1:00:35                  | 0:21:55                                         | 0:21:20                               | 0:17:32                  | 0:12:58                    | 0:10:43                         | 0:05:19                        | State Highway 25 Bridge in Monticello |                         |                                 |                                                   |                             |                                |                                                           |                         |                         |                      |                           |            |         |       |
| 884.8 | 2:10:06       | 2:04:04                     | 1:22:48                  | 1:20:08                                         | 1:19:33                               | 1:15:45                  | 1:11:11                    | 1:08:56                         | 1:03:32                        | 0:22:12                               | Confluence of Elk River |                                 |                                                   |                             |                                |                                                           |                         |                         |                      |                           |            |         |       |
| 883.6 | 2:12:40       | 2:06:38                     | 2:01:23                  | 1:22:42                                         | 1:22:08                               | 1:18:20                  | 1:13:46                    | 1:11:30                         | 1:06:07                        | 1:00:47                               | 0:02:34                 | Highway 101 Bridge at Elk River |                                                   |                             |                                |                                                           |                         |                         |                      |                           |            |         |       |
| 879.6 | 2:21:09       | 2:15:07                     | 2:09:51                  | 2:07:11                                         | 2:06:36                               | 2:02:48                  | 1:22:14                    | 1:19:59                         | 1:14:35                        | 1:09:15                               | 0:11:03                 | 0:08:28                         | Crow River at Dayton, Hennepin-Wright County Line |                             |                                |                                                           |                         |                         |                      |                           |            |         |       |
| 879.1 | 2:22:15       | 2:16:12                     | 2:10:57                  | 2:08:17                                         | 2:07:42                               | 2:03:54                  | 1:23:20                    | 1:21:04                         | 1:15:41                        | 1:10:21                               | 0:12:08                 | 0:09:34                         | 0:01:05                                           | Anoka-Sherburne County Line |                                |                                                           |                         |                         |                      |                           |            |         |       |
| 871.7 | 3:21:55       | 3:15:53                     | 3:10:37                  | 3:07:57                                         | 3:07:22                               | 3:03:34                  | 2:23:00                    | 2:20:45                         | 2:15:21                        | 2:10:01                               | 1:11:48                 | 1:09:14                         | 1:00:45                                           | 0:23:40                     | US Highway 169 Bridge in Anoka |                                                           |                         |                         |                      |                           |            |         |       |
| 871.6 | 3:22:19       | 3:16:16                     | 3:11:01                  | 3:08:21                                         | 3:07:46                               | 3:03:58                  | 2:23:24                    | 2:21:08                         | 2:15:45                        | 2:10:25                               | 1:12:12                 | 1:09:38                         | 1:01:09                                           | 1:00:04                     | 0:00:23                        | Major Interceptor Pipeline Crossing at Anoka and Champlin |                         |                         |                      |                           |            |         |       |
| 871.4 | 3:23:07       | 3:17:05                     | 3:11:49                  | 3:09:09                                         | 3:08:34                               | 3:04:46                  | 3:00:12                    | 2:21:57                         | 2:16:33                        | 2:11:13                               | 1:13:00                 | 1:10:26                         | 1:01:57                                           | 1:00:52                     | 0:01:11                        | 0:00:48                                                   | Confluence of Rum River |                         |                      |                           |            |         |       |
| 871.0 | 4:00:48       | 3:18:46                     | 3:13:30                  | 3:10:50                                         | 3:10:15                               | 3:06:27                  | 3:01:53                    | 2:23:38                         | 2:18:14                        | 2:12:54                               | 1:14:41                 | 1:12:07                         | 1:03:38                                           | 1:02:33                     | 0:02:52                        | 0:02:29                                                   | 0:01:41                 | Confluence of Elm Creek |                      |                           |            |         |       |
| 866.3 | 5:19:57       | 5:13:55                     | 5:08:39                  | 5:05:59                                         | 5:05:24                               | 5:01:36                  | 4:21:02                    | 4:18:47                         | 4:13:23                        | 4:08:03                               | 3:09:50                 | 3:07:16                         | 2:22:47                                           | 2:21:42                     | 1:22:01                        | 1:21:38                                                   | 1:20:50                 | 1:19:08                 | Coon Rapids Dam Pool |                           |            |         |       |
| 866.2 | 5:20:04       | 5:14:02                     | 5:08:46                  | 5:06:06                                         | 5:05:31                               | 5:01:43                  | 4:21:09                    | 4:18:54                         | 4:13:30                        | 4:08:10                               | 3:09:58                 | 3:07:23                         | 2:22:54                                           | 2:21:49                     | 1:22:09                        | 1:21:45                                                   | 1:20:57                 | 1:19:16                 | 0:00:07              | Coon Rapids Dam Tailwater |            |         |       |
| 865.2 | 5:21:33       | 5:15:31                     | 5:10:16                  | 5:07:35                                         | 5:07:01                               | 5:03:13                  | 4:22:39                    | 4:20:23                         | 4:15:00                        | 4:09:40                               | 3:11:27                 | 3:08:53                         | 3:00:24                                           | 2:23:18                     | 1:23:38                        | 1:23:14                                                   | 1:22:26                 | 1:20:45                 | 0:01:36              | 0:01:29                   | Coon Creek |         |       |
| 865.0 | 5:21:52       | 5:15:50                     | 5:10:34                  | 5:07:54                                         | 5:07:19                               | 5:03:31                  | 4:22:57                    | 4:20:42                         | 4:15:18                        | 4:09:59                               | 3:11:46                 | 3:09:11                         | 3:00:43                                           | 2:23:37                     | 1:23:57                        | 1:23:33                                                   | 1:22:45                 | 1:21:04                 | 0:01:55              | 0:01:48                   | 0:00:18    | Hwy 610 |       |
| 864.8 | 5:22:12       | 5:16:10                     | 5:10:54                  | 5:08:14                                         | 5:07:39                               | 5:03:51                  | 4:23:17                    | 4:21:02                         | 4:15:38                        | 4:10:19                               | 3:12:06                 | 3:09:31                         | 3:01:03                                           | 2:23:57                     | 2:00:17                        | 1:23:53                                                   | 1:23:05                 | 1:21:24                 | 0:02:15              | 0:02:08                   | 0:00:38    | 0:00:19 | Gage  |
| Mile  | 926.4         | 921.3                       | 916.8                    | 914.5                                           | 914.0                                 | 910.7                    | 906.7                      | 904.8                           | 900.6                          | 896.9                                 | 884.8                   | 883.6                           | 879.6                                             | 879.1                       | 871.7                          | 871.6                                                     | 871.4                   | 871.0                   | 866.3                | 866.2                     | 865.2      | 865.0   | 864.8 |