

Reach 1 - Grand Rapids to Aitkin - An example of how to use these charts

Q: How do I find the travel time from the 7th Ave SE Bridge in Grand Rapids (Mile 1179.8) to the Soo Line RR Bridge at Palisade (Mile 1086.5) ?

A: Find the locations along the right hand side of the chart. Go to the extreme left of the cell containing the upstream location. Follow down the column of values until you hit the horizontal line containing the downstream location. In this case, the intersection yeilds a travel time value of 01:18:59 or 1 day, 18 hours, and 59 minutes as seen in the red colored cell.

Mile																									
1183.8	Pokegama Dam Tailwater and Gaging Station																								
1182.5	0:00:29	Grand Rapids County Highway Bridge																							
1180.5	0:01:28	0:00:59	Blandin Dam at Grand Rapids																						
1179.8	0:01:49	0:01:19	0:00:20	7th Ave SE Bridge at Grand Rapids																					
1177.5	0:02:50	0:02:21	0:01:22	0:01:01	Confluence with the Prairie River																				
1171.7	0:05:26	0:04:56	0:03:57	0:03:37	0:02:35	Local Road Bridge Near Blackberry																			
1162.5	0:09:33	0:09:03	0:08:04	0:07:44	0:06:42	0:04:06	Confluence of Cow Horn Creek																		
1152.2	0:14:09	0:13:39	0:12:40	0:12:20	0:11:18	0:08:42	0:04:35	Confluence of Split Hand Creek																	
1144.0	0:17:48	0:17:18	0:16:19	0:15:59	0:14:57	0:12:22	0:08:15	0:03:39	Upstream End of Aitkin-Itasca County Line																
1140.6	0:19:19	0:18:49	0:17:50	0:17:30	0:16:28	0:13:52	0:09:46	0:05:10	0:01:30	Downstream End of Aitkin-Itasca County Line															
1137.5	0:20:42	0:20:12	0:19:13	0:18:53	0:17:51	0:15:15	0:11:09	0:06:33	0:02:53	0:01:22	Jacobson State Highway Bridge														
1131.6	0:23:20	0:22:50	0:21:51	0:21:31	0:20:29	0:17:53	0:13:46	0:09:10	0:05:31	0:04:00	0:02:37	Confluence of Ball Bluff Brook													
1122.9	1:03:12	1:02:42	1:01:43	1:01:23	1:00:21	0:21:45	0:17:38	0:13:02	0:09:23	0:07:52	0:06:29	0:03:52	Confluence of Pokegama Creek												
1105.6	1:10:52	1:10:22	1:09:23	1:09:03	1:08:01	1:05:25	1:01:18	0:20:42	0:17:03	0:15:32	0:14:09	0:11:32	0:07:40	USGS Gage 05218500 near Libby, MN											
1086.5	1:20:48	1:20:19	1:19:20	1:18:59	1:17:58	1:15:22	1:11:15	1:06:39	1:03:00	1:01:29	1:00:06	0:21:28	0:17:36	0:09:56	Soo Line Railroad Bridge at Palisade, MN										
1081.0	1:23:50	1:23:20	1:22:21	1:22:00	1:20:59	1:18:23	1:14:16	1:09:40	1:06:01	1:04:30	1:03:07	1:00:29	0:20:37	0:12:57	0:03:01	Confluence of Maydole Logan									
1079.2	2:00:50	2:00:20	1:23:21	1:23:01	1:21:59	1:19:23	1:15:16	1:10:40	1:07:01	1:05:30	1:04:07	1:01:30	0:21:38	0:13:58	0:04:01	0:01:00	Confluence of Clark Logan								
1077.5	2:01:48	2:01:18	2:00:19	1:23:59	1:22:57	1:20:21	1:16:14	1:11:38	1:07:59	1:06:28	1:05:05	1:02:28	0:22:36	0:14:55	0:04:59	0:01:58	0:00:57	Confluence of Willow River and White Elk Creek							
1073.7	2:04:02	2:03:33	2:02:34	2:02:13	2:01:11	1:22:36	1:18:29	1:13:53	1:10:14	1:08:43	1:07:20	1:04:42	1:00:50	0:17:10	0:07:13	0:04:12	0:03:12	0:02:14	US Highway 169 Bridge						
1072.8	2:04:35	2:04:05	2:03:06	2:02:46	2:01:44	1:23:08	1:19:01	1:14:25	1:10:46	1:09:15	1:07:52	1:05:15	1:01:22	0:17:42	0:07:46	0:04:45	0:03:44	0:02:46	0:00:32	Fish Hatchery Outlet Channel					
1065.7	2:09:09	2:08:39	2:07:40	2:07:20	2:06:18	2:03:42	1:23:35	1:19:00	1:15:20	1:13:49	1:12:26	1:09:49	1:05:57	0:22:17	0:12:20	0:09:19	0:08:19	0:07:21	0:05:06	0:04:34	Confluence of Rice River				
1064.0	2:10:16	2:09:46	2:08:47	2:08:27	2:07:25	2:04:49	2:00:42	1:20:07	1:16:27	1:14:56	1:13:33	1:10:56	1:07:04	0:23:24	0:13:27	0:10:26	0:09:26	0:08:28	0:06:13	0:05:41	0:01:06	Aitkin Diversion Inlet			
1057.5	2:14:53	2:14:23	2:13:24	2:13:04	2:12:02	2:09:26	2:05:19	2:00:43	1:21:04	1:19:33	1:18:10	1:15:33	1:11:41	1:04:01	0:18:04	0:15:03	0:14:03	0:13:05	0:10:50	0:10:18	0:05:43	0:04:36	Sisabagamah Ck		
1056.7	2:15:27	2:14:58	2:13:58	2:13:38	2:12:36	2:10:01	2:05:54	2:01:18	1:21:39	1:20:08	1:18:45	1:16:07	1:12:15	1:04:35	0:18:38	0:15:37	0:14:37	0:13:39	0:11:24	0:10:52	0:06:18	0:05:11	0:00:34	Ripple R	
1055.9	2:16:02	2:15:32	2:14:33	2:14:13	2:13:11	2:10:35	2:06:29	2:01:53	1:22:13	1:20:42	1:19:20	1:16:42	1:12:50	1:05:10	0:19:13	0:16:12	0:15:12	0:14:14	0:11:59	0:11:27	0:06:53	0:05:46	0:01:09	0:00:34	Gage
Mile	1183.8	1182.5	1180.5	1179.8	1177.5	1171.7	1162.5	1152.2	1144.0	1140.6	1137.5	1131.6	1122.9	1105.6	1086.5	1081.0	1079.2	1077.5	1073.7	1072.8	1065.7	1064.0	1057.5	1056.7	1055.9

Alternative: Given only river mileages, one can use the left and bottom scales containing river mileages and find points of intersection.