

Water-Data Report 2011

09014050 GRAND LAKE OUTLET BELOW CHIPMUNK LANE AT GRAND LAKE, CO

Colorado Headwaters Basin
Colorado Headwaters Subbasin

LOCATION.--Lat 40°14'46.2", long 105°49'39.65" referenced to North American Datum of 1983, in SE ¼ NE ¼ SE ¼ sec.6, T.3 N., R.75 W., Grand County, CO, Hydrologic Unit 14010001, on north bank 300 ft east of Jacob Road bridge, on the canal between Grand Lake and Shadow Mountain Reservoir, in the town of Grand Lake.

DRAINAGE AREA.--Indeterminate.

SURFACE-WATER RECORDS

PERIOD OF RECORD.-- April to September 2010 (seasonal records only), December 2010 to September 2011.

GAGE.--Water-stage recorder and water-velocity recorder with satellite telemetry. Elevation of gage is 8,365 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair for flows greater than either a positive 200 ft³/s or less than a negative 200 ft³/s, and poor for flows between a positive 200 ft³/s and a negative 200 ft³/s, and for estimated daily discharges. Flow from Shadow Mountain Reservoir to Grand Lake is shown as positive flow on the daily discharge table and hydrograph. Flow from Grand Lake to Shadow Mountain Reservoir is shown as negative flow.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 1,910 ft³/s (estimated), June 8, 2010 (occurred during period of seasonal operation), from Grand Lake to Shadow Mountain Reservoir.

EXTREMES FOR CURRENT YEAR.--(seasonal only) Maximum daily discharge, 1,160 ft³/s, June 30, from Grand Lake to Shadow Mountain Reservoir.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	---	---	5.0	361	290	277	291	413	114	-964	-249	e-28
2	---	---	8.3	120	277	319	260	458	2.6	-577	-222	-62
3	---	---	12	222	355	373	359	388	-211	-592	-147	-56
4	---	---	1.7	338	375	309	304	417	-109	-514	-165	-49
5	---	---	-1.9	456	344	307	221	374	-328	-684	-180	-43
6	---	---	-31	296	315	362	258	407	-493	-503	-156	-62
7	---	---	16	271	335	337	369	430	-494	-714	-127	320
8	---	---	1.7	326	227	328	373	387	-475	-874	-104	412
9	---	---	-42	349	262	268	367	387	-440	-883	-74	412
10	---	---	-11	311	380	290	469	388	-559	-827	-53	374
11	---	---	21	261	277	235	297	349	-707	-812	e-25	445
12	---	---	-29	133	191	325	336	494	-669	-590	-81	493
13	---	---	47	21	198	330	349	460	-803	-717	-106	467
14	---	---	7.8	90	311	348	348	416	-855	-675	-106	473
15	---	---	-43	94	216	313	371	339	-893	-645	-103	529
16	---	---	-24	232	252	241	354	369	-946	-421	-100	417
17	---	---	-32	359	353	368	390	269	-1,110	-244	-83	405
18	---	---	63	196	330	375	296	236	-809	-492	-61	286
19	---	---	123	296	288	272	396	343	-820	-910	-65	283
20	---	---	151	281	275	271	348	295	-882	-704	-66	329
21	---	---	e430	274	296	266	456	279	-760	-387	-60	417
22	---	---	e410	218	328	297	379	255	-814	-109	-76	428
23	---	---	321	215	347	283	435	358	-1,010	24	-81	378
24	---	---	210	327	403	305	470	232	-927	-192	-82	520
25	---	---	380	346	368	377	440	302	-982	-224	-94	454
26	---	---	414	284	264	337	429	196	-931	-83	-92	503
27	---	---	343	295	321	384	424	285	-1,080	-82	-99	487
28	---	---	301	304	289	377	335	234	-871	-145	-91	478
29	---	---	342	271	---	244	426	159	-886	-98	-76	446
30	---	---	320	242	---	396	427	35	-1,160	-206	-97	486
31	---	---	383	371	---	374	---	171	---	-204	-77	---
Total	---	---	4,097.6	8,160	8,467	9,888	10,977	10,125	-20,907.4	-15,048	-3,198	9,942
Mean	---	---	132	263	302	319	366	327	-697	-485	-103	331
Max	---	---	430	456	403	396	470	494	114	24	-25	529
Min	---	---	-43	21	191	235	221	35	-1,160	-964	-249	-62
Ac-ft	---	---	8,130	16,190	16,790	19,610	21,770	20,080	-41,470	-29,850	-6,340	19,720

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