

Water-Data Report 2012

09057500 BLUE RIVER BELOW GREEN MOUNTAIN RESERVOIR, CO

Colorado Headwaters Basin
Blue Subbasin

LOCATION.--Lat 39°52'49", long 106°20'00" referenced to North American Datum of 1927, in SW ¼ NE ¼ sec.15, T.2 S., R.80 W., Summit County, CO, Hydrologic Unit 14010002, on left bank 0.3 mi upstream from Elliott Creek, 0.3 mi downstream from Green Mountain Dam, and 13 mi southeast of Kremmling.

DRAINAGE AREA.--597 mi², includes 14.3 mi² of Elliott Creek above diversion for Elliott Creek Feeder Canal.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1937 to current year. Prior to October 1943, published as Blue River below Green Mountain Reservoir, near Kremmling. Statistical summary computed for 1943 to current year, subsequent to completion of Green Mountain Reservoir.

REVISED RECORDS.--WDR-US-2011: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry and crest-stage gage. Datum of gage is 7,682.66 ft above NGVD of 1929, (levels by U.S. Bureau of Reclamation). Prior to Oct. 1, 1951, water-stage recorder at site 3.7 mi downstream at different datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. Flow regulated by Green Mountain Reservoir since Nov. 1942 (station 09057000). Diversions for irrigation of about 5,000 acres upstream from station. Transmountain diversions upstream from station.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	881	349	205	299	201	202	76	69	74	512	290	370
2	906	304	192	294	204	205	76	73	74	419	365	382
3	902	309	181	298	203	206	76	73	75	384	366	378
4	894	309	181	299	202	202	76	73	75	425	366	346
5	897	309	194	299	204	202	76	73	75	386	364	284
6	898	308	193	298	208	206	76	73	75	374	384	252
7	903	306	204	295	212	206	76	73	75	374	412	255
8	896	309	210	294	217	207	76	73	75	377	420	255
9	896	310	211	295	206	231	76	73	75	376	397	255
10	886	305	208	268	200	248	76	73	75	379	372	164
11	902	306	210	249	197	255	76	73	75	382	376	129
12	824	308	210	254	195	247	76	73	75	423	374	129
13	704	308	207	224	201	239	76	73	105	456	354	130
14	660	308	209	198	207	242	77	73	155	469	324	129
15	660	304	208	200	205	253	77	73	158	489	320	129
16	660	287	208	193	201	256	76	73	193	493	342	128
17	657	223	207	201	204	252	76	73	242	495	393	128
18	656	213	208	197	201	256	77	73	253	514	390	127
19	653	209	229	198	203	251	68	74	253	525	385	212
20	679	206	275	199	205	253	61	74	252	469	386	252
21	708	207	308	201	205	253	61	74	307	473	412	265
22	741	208	307	205	201	253	61	74	446	445	448	265
23	765	212	305	207	209	233	61	74	500	422	440	262
24	764	216	309	197	207	216	61	74	502	410	443	263
25	796	216	309	194	205	186	61	74	508	372	455	261
26	821	204	309	206	202	174	61	74	506	367	453	241
27	813	214	308	210	202	145	62	74	500	365	439	198
28	760	204	307	206	206	133	61	74	499	365	394	194
29	661	202	306	207	204	131	61	74	511	364	398	196
30	e568	201	304	201	---	114	61	74	509	342	399	196
31	e467	---	300	197	---	85	---	74	---	278	376	---
Total	23,878	7,874	7,522	7,283	5,917	6,542	2,111	2,272	7,297	12,924	12,037	6,775
Mean	770	262	243	235	204	211	70.4	73.3	243	417	388	226
Max	906	349	309	299	217	256	77	74	511	525	455	382
Min	467	201	181	193	195	85	61	69	74	278	290	127
Ac-ft	47,360	15,620	14,920	14,450	11,740	12,980	4,190	4,510	14,470	25,630	23,880	13,440

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1943 - 2012, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	408	285	296	291	280	302	364	489	726	786	611	516
Max	1,258	800	580	566	559	864	1,286	1,557	2,134	2,536	1,547	969
(WY)	(1963)	(1963)	(1947)	(1948)	(1962)	(1962)	(1996)	(1952)	(1984)	(1984)	(1984)	(2008)
Min	108	82.5	0.72	0.46	0.19	0.61	47.2	53.5	54.4	131	270	70.0
(WY)	(2003)	(1943)	(1943)	(1943)	(1943)	(1943)	(1943)	(2003)	(1981)	(1981)	(1964)	(2002)

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SUMMARY STATISTICS

	Calendar Year 2011		Water Year 2012		Water Years 1943 - 2012	
Annual total	251,854		102,432			
Annual mean	690		280		447	
Highest annual mean					946	1984
Lowest annual mean					200	1964
Highest daily mean	3,360	Jul 10	906	Oct 2	4,010	Jul 12, 1995
Lowest daily mean	134	Jan 19	61	Apr 20	^{a,b} 0.00	Dec 6, 1942
Annual seven-day minimum	142	Jan 26	61	Apr 20	0.00	Jan 5, 1943
Maximum peak flow			940	Oct 2	4,040	Jul 12, 1995
Maximum peak stage			6.11	Oct 2	10.85	Jul 12, 1995
Annual runoff (ac-ft)	499,600		203,200		323,900	
10 percent exceeds	1,370		507		844	
50 percent exceeds	417		216		353	
90 percent exceeds	186		74		107	

^a No flow at times in 1943.

^b Minimum daily discharge (prior to Green Mountain Reservoir), 80 ft³/s, Feb 18-24, 1938, Feb 18-19, 1940.

