

Water-Data Report 2011

09070000 EAGLE RIVER BELOW GYPSUM, CO

Colorado Headwaters Basin
Eagle Subbasin

LOCATION.--Lat 39°38'58", long 106°57'11" referenced to North American Datum of 1927, in SW ¼ NW ¼ sec.5, T.5 S., R.85 W., Eagle County, CO, Hydrologic Unit 14010003, on right bank 20 ft downstream from bridge on U.S. Highways 6 and 24 at Gypsum, and 150 ft downstream from Gypsum Creek.

DRAINAGE AREA.--945 mi² (revised).

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1946 to current year.

REVISED RECORDS.--WDR CO-88-2: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry and crest-stage gage. Datum of gage is 6,275.11 ft, above NGVD of 1929.

REMARKS.--Records good except for estimated daily discharges, which are poor. Transmountain diversions upstream from station. Transbasin diversions upstream from station from Robinson Reservoir (capacity, 2,520 acre-ft) to Tenmile Creek for mining development. Many small diversions for irrigation of hay meadows upstream from station.

09070000 EAGLE RIVER BELOW GYPSUM, CO—Continued

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	150	257	212	e137	145	164	217	454	2,660	4,910	1,060	376
2	149	243	229	e157	e109	167	236	446	3,060	4,570	1,000	353
3	148	236	237	e191	e116	177	313	429	3,830	4,450	1,050	341
4	149	236	239	191	e161	180	300	425	3,790	4,150	1,020	324
5	154	240	236	194	192	160	283	420	4,310	3,880	921	309
6	157	242	222	199	197	162	310	500	4,900	4,650	865	318
7	166	246	218	188	191	167	312	639	5,450	4,590	807	408
8	184	247	206	184	185	167	318	908	5,070	4,950	740	424
9	184	243	208	205	176	158	342	1,160	4,950	4,880	683	388
10	185	239	211	192	146	156	361	1,120	4,770	4,510	631	353
11	182	218	212	185	171	167	322	1,160	4,650	4,160	587	329
12	190	215	204	152	207	185	319	1,010	4,620	3,680	546	319
13	196	199	205	205	204	196	328	851	4,580	3,490	524	323
14	194	207	209	212	192	185	374	963	4,580	3,110	512	317
15	187	209	209	195	187	183	345	1,120	4,500	2,850	553	351
16	181	210	204	184	185	193	329	1,460	4,750	2,560	531	413
17	176	213	175	192	185	229	320	1,840	5,350	2,440	488	396
18	173	204	191	189	181	228	341	1,640	4,790	2,440	459	423
19	174	210	207	186	175	216	495	1,480	4,300	2,630	442	399
20	180	211	231	179	184	211	449	1,240	4,240	2,300	443	368
21	178	221	238	173	177	211	516	1,130	3,640	2,020	425	338
22	190	223	222	171	169	233	591	1,060	3,580	1,800	424	321
23	215	227	220	174	166	219	592	1,180	4,040	1,620	409	311
24	247	237	217	172	175	216	554	1,260	4,560	1,480	373	299
25	274	176	196	150	172	212	563	1,220	5,030	1,400	363	290
26	309	162	176	168	169	219	541	1,230	4,940	1,360	369	285
27	261	184	204	175	167	220	483	1,570	4,710	1,300	422	276
28	247	214	190	173	169	237	427	1,850	4,600	1,200	424	279
29	247	217	173	172	---	216	455	2,450	4,740	1,100	437	274
30	251	213	194	168	---	213	451	3,220	5,080	1,050	442	267
31	252	---	e164	160	---	208	---	2,600	---	999	400	---
Total	6,130	6,599	6,459	5,573	4,853	6,055	11,787	38,035	134,070	90,529	18,350	10,172
Mean	198	220	208	180	173	195	393	1,227	4,469	2,920	592	339
Max	309	257	239	212	207	237	592	3,220	5,450	4,950	1,060	424
Min	148	162	164	137	109	156	217	420	2,660	999	363	267
Ac-ft	12,160	13,090	12,810	11,050	9,630	12,010	23,380	75,440	265,900	179,600	36,400	20,180

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1947 - 2011, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	259	238	197	181	174	191	361	1,373	2,297	1,001	379	264
Max	526	382	277	243	252	297	862	2,722	4,469	2,989	1,096	625
(WY)	(1962)	(1985)	(1985)	(1984)	(1986)	(1986)	(1962)	(1984)	(2011)	(1957)	(1984)	(1984)
Min	129	164	136	136	125	138	183	528	597	170	124	141
(WY)	(1957)	(2003)	(2003)	(2004)	(1992)	(1965)	(1983)	(1977)	(2002)	(2002)	(2002)	(1956)

09070000 EAGLE RIVER BELOW GYPSUM, CO—Continued

SUMMARY STATISTICS

	Calendar Year 2010		Water Year 2011		Water Years 1947 - 2011	
Annual total	209,944		338,612			
Annual mean	575		928		577	
Highest annual mean					1,082	1984
Lowest annual mean					255	2002
Highest daily mean	6,160	Jun 7	5,450	Jun 7	6,580	May 25, 1984
Lowest daily mean	144	Jan 9	109	Feb 2	70	Sep 6, 2002
Annual seven-day minimum	151	Sep 29	147	Jan 29	72	Sep 1, 2002
Maximum peak flow			5,980	Jun 7	7,240	Jun 7, 2010
Maximum peak stage			8.78	Jun 7	^a 9.31	Jun 7, 2010
Annual runoff (ac-ft)	416,400		671,600		418,100	
10 percent exceeds	1,460		3,810		1,580	
50 percent exceeds	213		267		243	
90 percent exceeds	172		171		159	

^a Maximum gage height, 9.46 ft, May 25, 1984.

