

Water-Data Report 2010

09205000 NEW FORK RIVER NEAR BIG PINEY, WY

Upper Green Basin
New Fork Subbasin

LOCATION.--Lat 42°34'02", long 109°55'46" referenced to North American Datum of 1927, in SE ¼ NE ¼ NE ¼ sec.22, T.30 N., R.110 W., Sublette County, WY, Hydrologic Unit 14040102, on right bank 350 ft downstream from old highway bridge, 3.4 mi upstream from mouth, and 9.5 mi northeast of Big Piney.

DRAINAGE AREA.--1,230 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--September 1954 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 6,800 ft above NGVD of 1929, from topographic map. U.S. Geological Survey data collection platform with satellite telemetry at station.

REMARKS.--Records good, except those for estimated daily discharges, which are poor. Natural flow of stream affected by storage reservoirs, power development, and diversions for irrigation upstream from station. Quality of water data were collected and are available at <http://waterdata.usgs.gov/usa/nwis/qw>.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010
DAILY MEAN VALUES

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	351	383	e345	e190	e157	e184	230	218	751	2,610	518	348
2	344	383	e300	e200	e162	e201	220	203	854	2,550	520	339
3	343	371	e270	e170	e155	e190	219	190	921	2,430	500	335
4	349	363	e240	e150	e158	e204	217	169	1,110	2,250	504	323
5	371	358	e270	e170	e161	e234	220	176	1,590	2,010	530	315
6	373	354	e290	e185	e180	e228	229	177	2,140	1,750	504	306
7	371	351	e265	e190	e158	e236	221	179	2,720	1,570	484	304
8	365	344	e290	e160	e174	e248	224	181	3,130	1,410	468	307
9	356	329	e240	e175	e153	e233	234	185	3,700	1,320	451	301
10	363	326	e230	e195	e140	e223	240	193	4,260	1,240	433	306
11	364	315	e240	e200	e164	e249	234	212	5,180	1,170	415	310
12	362	323	e270	e190	e185	e249	233	207	5,470	1,110	399	308
13	362	319	e300	e195	e181	e259	246	205	4,020	997	392	300
14	367	283	e310	e196	e163	e252	253	212	3,150	898	383	292
15	386	267	e290	e201	e179	e244	246	213	2,630	854	371	289
16	376	286	e260	e208	e205	e236	247	213	2,370	823	364	294
17	374	346	e305	e200	e189	e250	248	215	2,660	811	356	291
18	366	339	e280	e217	e168	e257	253	218	2,910	808	334	283
19	363	356	e240	e233	e203	e260	251	234	2,650	775	322	281
20	367	316	e250	e215	e181	e200	251	247	2,510	718	327	280
21	376	334	e270	e205	e192	e203	254	267	2,540	699	323	278
22	372	254	e280	e202	e189	e230	279	294	2,710	751	319	280
23	373	273	e280	e209	e179	e240	292	317	2,790	733	329	285
24	369	262	e250	e177	e141	e242	285	312	2,530	672	326	283
25	367	308	e230	e168	e166	e220	260	316	2,540	649	312	275
26	364	324	e235	e174	e172	e231	244	316	2,660	615	304	274
27	366	320	e210	e186	e181	e226	238	326	2,870	586	308	265
28	369	339	e190	e181	e172	230	235	332	2,890	562	371	260
29	361	352	e200	e162	---	231	232	410	2,840	557	406	258
30	364	e330	e210	e153	---	229	224	575	2,740	549	364	255
31	387	---	e185	e153	---	238	---	645	---	528	353	---
Total	11,341	9,808	8,025	5,810	4,808	7,157	7,259	8,157	81,836	35,005	12,290	8,825
Mean	366	327	259	187	172	231	242	263	2,728	1,129	396	294
Max	387	383	345	233	205	260	292	645	5,470	2,610	530	348
Min	343	254	185	150	140	184	217	169	751	528	304	255
Ac-ft	22,490	19,450	15,920	11,520	9,540	14,200	14,400	16,180	162,300	69,430	24,380	17,500

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1954 - 2010, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	368	319	239	200	208	271	421	1,137	2,897	1,561	554	363
Max	989	608	397	277	337	597	1,114	2,539	7,065	4,155	1,279	766
(WY)	(1983)	(1984)	(1983)	(1969)	(1969)	(1972)	(1969)	(1969)	(1986)	(1982)	(1982)	(1983)
Min	171	188	139	108	122	161	181	254	699	405	225	164
(WY)	(1989)	(1989)	(1989)	(2002)	(2002)	(1977)	(1981)	(1977)	(1992)	(1961)	(1988)	(1988)

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SUMMARY STATISTICS

	Calendar Year 2009		Water Year 2010		Water Years 1954 - 2010	
Annual total	322,212		200,321			
Annual mean	883		549		712	
Highest annual mean					1,288	1986
Lowest annual mean					313	1977
Highest daily mean	5,290	Jun 28	5,470	Jun 12	9,110	Jun 7, 1986
Lowest daily mean	147	Mar 12	140	Feb 10	90	Jan 13, 1963
Annual seven-day minimum	169	Mar 10	157	Jan 30	102	Jan 2, 2002
Maximum peak flow			5,920	Jun 12	9,190	Jun 7, 1986
Maximum peak stage			6.50	Jun 12	8.28	Jun 7, 1986
Annual runoff (ac-ft)	639,100		397,300		516,000	
10 percent exceeds	3,470		1,200		1,780	
50 percent exceeds	346		289		326	
90 percent exceeds	197		181		190	

