

**06320500 SOUTH PINEY CREEK AT WILLOW PARK, WY**

Powder Basin  
Clear Subbasin

LOCATION.--Lat 44°27'59", long 107°02'03" referenced to North American Datum of 1927, in NW ¼ sec.24, T.52 N., R.85 W., Johnson County, WY, Hydrologic Unit 10090206, Bighorn National Forest, on left bank about 300 ft downstream from Willow Park Dam, 1.4 mi upstream from Kearny Creek, and 10 mi southwest of Story.

DRAINAGE AREA.--33.6 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--September 1945 to September 1957 (no winter records prior to 1948), October 1959 to current year (no winter records since 1971).

REVISED RECORDS.--WSP 1309: 1949(M). WSP 1709: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 8,540 ft above NGVD of 1929, from topographic map. Prior to October 1, 1957, at site about 600 ft upstream from station at different datum. October 1, 1959 to September 30, 1965, at present site at datum 1.00 ft higher.

COOPERATION.--Station operated and record provided by the Wyoming State Engineer's Office; record reviewed by U.S. Geological Survey.

REMARKS.--Records good. Some regulation by Cloud Peak Reservoir, capacity, 3,385 acre-ft, and Willow Park Reservoir, capacity, 4,457 acre-ft. Storage began in Willow Park Reservoir in April 1959. Cloud Peak Reservoir enlarged December 1958. Water released from storage in Cloud Peak Reservoir is diverted just downstream from station into Rock Creek Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,620 ft<sup>3</sup>/s, from slope-area measurement of peak flow, June 15, 1963, gage height, 5.68 ft; minimum daily discharge, 0.13 ft<sup>3</sup>/s, May 1, 1989; minimum daily prior to construction of Willow Park Reservoir, 4.5 ft<sup>3</sup>/s, March 1 to April 5, 1955.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 270 ft<sup>3</sup>/s, June 6, gage height, 3.59 ft; minimum daily discharge, 0.32 ft<sup>3</sup>/s, May 11.

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**DISCHARGE, CUBIC FEET PER SECOND**  
**WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012**  
**DAILY MEAN VALUES**

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	---	---	---	---	---	---	---	---	15	81	100	54
2	---	---	---	---	---	---	---	---	31	79	100	56
3	---	---	---	---	---	---	---	---	164	80	101	57
4	---	---	---	---	---	---	---	---	230	80	99	58
5	---	---	---	---	---	---	---	---	252	89	97	59
6	---	---	---	---	---	---	---	---	255	103	94	56
7	---	---	---	---	---	---	---	---	198	104	92	51
8	---	---	---	---	---	---	---	---	153	110	89	50
9	---	---	---	---	---	---	---	---	130	103	82	51
10	---	---	---	---	---	---	---	0.33	126	102	74	50
11	---	---	---	---	---	---	---	0.32	110	102	73	50
12	---	---	---	---	---	---	---	0.33	94	107	71	51
13	---	---	---	---	---	---	---	0.36	87	112	71	48
14	---	---	---	---	---	---	---	0.40	88	110	74	43
15	---	---	---	---	---	---	---	0.49	89	110	72	44
16	---	---	---	---	---	---	---	0.52	92	110	68	44
17	---	---	---	---	---	---	---	0.57	94	109	65	45
18	---	---	---	---	---	---	---	0.64	100	109	64	45
19	---	---	---	---	---	---	---	0.69	106	112	62	45
20	---	---	---	---	---	---	---	0.69	110	117	58	45
21	---	---	---	---	---	---	---	12	100	115	55	45
22	---	---	---	---	---	---	---	23	86	114	52	45
23	---	---	---	---	---	---	---	24	80	113	53	45
24	---	---	---	---	---	---	---	24	85	113	61	45
25	---	---	---	---	---	---	---	25	99	111	69	32
26	---	---	---	---	---	---	---	25	112	110	73	12
27	---	---	---	---	---	---	---	25	115	108	75	2.1
28	---	---	---	---	---	---	---	26	111	107	77	1.2
29	---	---	---	---	---	---	---	26	96	105	79	1.2
30	---	---	---	---	---	---	---	22	85	103	68	3.6
31	---	---	---	---	---	---	---	15	---	102	53	---
<b>Total</b>	---	---	---	---	---	---	---	---	3,493	3,230	2,321	1,234.1
<b>Mean</b>	---	---	---	---	---	---	---	---	116	104	74.9	41.1
<b>Max</b>	---	---	---	---	---	---	---	---	255	117	101	59
<b>Min</b>	---	---	---	---	---	---	---	---	15	79	52	1.2
<b>Ac-ft</b>	---	---	---	---	---	---	---	---	6,930	6,410	4,600	2,450

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