

Water-Data Report 2013

07145500 NINNESCAH RIVER NEAR PECK, KS

Middle Arkansas Basin
Ninnescah Subbasin

LOCATION.--Lat 37°27'25", long 97°25'25" referenced to North American Datum of 1927, in NW ¼ SW ¼ NW ¼ sec.10, T.30 S., R.1 W., Sumner County, KS, Hydrologic Unit 11030016, on right bank at downstream side of county highway bridge, 3.0 mi southwest of Peck, and at mile 31.6.

DRAINAGE AREA.--2,129 mi² of which 344 mi² probably is noncontributing.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1937 to current year. Prior to April 1938 monthly discharge only, published in WSP 1311.

REVISED RECORDS.--WSP 1117: Drainage area. WSP 1211: 1944(M). WSP 1241: 1944, 1945(M), 1947-48(M).

GAGE.--Water-stage recorder. Datum of gage is 1,222.38 ft above NGVD of 1929 (levels by U.S. Army Corps of Engineers). Prior to Feb. 4, 1939, nonrecording gage at present site and datum.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Flow partially regulated since 1964 by Cheney Reservoir (station 07144790). Satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 9, 1923, reached a stage of 26.4 ft from floodmark, discharge, about 70,000 ft³/s.

07145500 NINNESCAH RIVER NEAR PECK, KS—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
DAILY MEAN VALUES

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	44	69	91	e107	99	162	142	232	1,130	89	629	1,530
2	44	70	91	e111	106	154	151	300	545	82	679	1,530
3	43	69	89	e112	109	151	157	542	390	78	507	1,520
4	42	68	88	e113	112	151	163	405	296	75	1,880	1,420
5	41	69	86	e116	106	154	162	302	347	73	4,770	1,180
6	40	71	86	e120	105	166	155	264	430	72	1,880	1,070
7	41	72	88	e126	110	180	148	243	323	70	1,660	1,040
8	43	73	89	e132	110	173	144	248	245	65	2,850	1,020
9	49	73	90	e134	108	190	140	539	219	59	8,190	1,000
10	51	74	83	139	110	208	199	405	196	55	4,990	761
11	51	87	75	132	108	279	301	460	177	57	2,640	385
12	56	89	77	129	108	239	281	351	160	51	2,090	311
13	61	93	99	108	107	199	234	281	147	50	1,860	283
14	60	87	107	105	107	183	205	248	136	56	2,040	267
15	57	89	104	e107	105	169	187	225	127	65	2,460	257
16	55	88	101	127	103	157	178	210	121	75	2,420	258
17	53	88	97	138	104	154	172	196	135	70	2,350	254
18	50	85	96	179	104	149	178	186	132	72	1,970	241
19	47	84	95	146	102	146	177	214	140	71	1,840	241
20	47	84	96	120	104	144	176	316	330	62	1,780	325
21	49	84	92	109	129	141	172	225	359	61	1,730	325
22	53	84	95	106	129	139	164	193	187	63	1,700	224
23	56	83	96	107	149	141	872	173	143	82	1,670	204
24	56	80	94	109	165	157	765	166	121	241	1,650	192
25	56	81	89	107	215	154	465	163	109	655	1,630	181
26	55	83	e80	110	200	150	358	156	100	349	1,610	e177
27	54	84	77	111	184	146	308	149	93	286	1,600	e167
28	56	86	e77	109	186	142	283	143	130	375	1,590	172
29	61	88	e83	107	---	138	274	137	124	1,360	1,570	177
30	66	90	e91	105	---	137	251	367	101	989	1,560	176
31	68	---	e99	103	---	137	---	1,090	---	739	1,540	---
Mean	51.8	80.8	90.4	119	124	164	252	294	240	211	2,172	563
Max	68	93	107	179	215	279	872	1,090	1,130	1,360	8,190	1,530
Min	40	68	75	103	99	137	140	137	93	50	507	167
Ac-ft	3,180	4,810	5,560	7,310	6,910	10,100	15,000	18,110	14,270	12,990	133,600	33,500

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	439	413	314	320	432	643	714	844	899	510	310	434
Max	3,170	2,767	1,032	1,429	3,027	3,245	3,568	4,314	3,813	3,258	2,172	2,705
(WY)	(1986)	(1980)	(1945)	(1949)	(1949)	(1973)	(1944)	(1993)	(1957)	(1948)	(2013)	(1977)
Min	38.5	80.8	90.4	81.5	117	104	120	91.4	43.0	18.3	5.43	3.24
(WY)	(1940)	(2013)	(2013)	(1957)	(1967)	(1967)	(1972)	(1967)	(1956)	(1954)	(1956)	(1956)

07145500 NINNESCAH RIVER NEAR PECK, KS—Continued

SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1938 - 2013	
Annual mean	180		366		522	
Highest annual mean					1,234	1993
Lowest annual mean					158	2011
Highest daily mean	7,040	Feb 4	8,190	Aug 9	33,700	May 17, 1957
Lowest daily mean	2.2	Aug 4	40	Oct 6	0.20	Sep 3, 1956
Annual seven-day minimum	2.7	Aug 2	42	Oct 2	0.34	Sep 1, 1956
Maximum peak flow			9,920	Aug 9	38,200	May 17, 1957
Maximum peak stage			14.82	Aug 9	21.85	May 17, 1957
Instantaneous low flow			39	Oct 6	0.20	Sep 3, 1956
Annual runoff (ac-ft)	130,800		265,300		378,100	
10 percent exceeds	323		1,080		1,060	
50 percent exceeds	89		139		238	
90 percent exceeds	21		62		78	

