07183500 NEOSHO RIVER NEAR PARSONS, KS

Neosho Basin
Middle Neosho Subbasin

LOCATION.--Lat 37°20′24″, long 95°06′35″ referenced to North American Datum of 1927, in NW ¼ NE ¼ sec.21, T.31 S., R.21 E., Labette County, KS, Hydrologic Unit 11070205, on right bank at downstream side of bridge on U.S. Highway 160, 0.4 mi upstream from Hickory Creek, 2.7 mi upstream from dam of Kansas Army Ammunition Plant, 8.0 mi east of Parsons, and at mile 204.1.

DRAINAGE AREA.--4,905 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1921 to current year. Monthly discharge only October 1921, published in WSP 1311.

REVISED RECORDS.--WSP 807: 1922-23. WSP 1391: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 810.25 ft above NGVD of 1929 (levels by U.S. Army Corps of Engineers). Prior to Oct. 1, 1929, nonrecording gage at bridge 0.5 mi downstream at datum 0.04 ft lower. Oct. 1, 1929, to Feb. 7, 1935, nonrecording gage, and Feb. 8, 1935, to Dec. 7, 1966, water-stage recorder at present site and datum. Dec. 8, 1966, to June 8, 1987, water-stage recorder 2.7 mi downstream at present datum.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Flow moderately regulated since 1963 by John Redmond Reservoir (station 07182450), 139.6 mi upstream. Small diversion by the Kansas Army Ammunition Plant. Records include flow of Hickory Creek. Satellite telemeter at station.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	133	252	33	841	1,170	5,710	15,600	7,890	13,400	5,920	4,690	693
2	89	189	35	779	1,150	4,090	6,060	7,580	14,500	5,670	4,250	577
3	81	131	43	636	1,130	5,890	3,620	12,600	4,900	5,150	4,170	560
4	72	126	50	757	1,110	12,500	1,860	5,820	1,940	4,900	4,120	1,420
5	65	128	46	904	1,180	9,950	1,090	3,350	2,480	4,770	3,890	1,840
6	59	97	40	886	2,970	7,080	2,160	4,610	10,500	4,690	3,180	958
7	61	72	37	834	7,350	7,530	3,960	13,300	7,640	4,630	4,650	1,220
8	63	57	44	925	3,370	7,300	4,180	25,600	4,380	4,560	5,480	1,130
9	55	50	49	990	2,230	7,090	7,160	22,300	15,500	e4,620	6,570	927
10	50	51	49	1,120	1,910	6,810	19,000	11,400	26,400	e5,350	11,000	777
11	46	47	133	1,130	1,700	6,500	20,300	7,560	27,000	4,160	14,800	719
12	37	42	257	981	1,520	6,100	8,410	4,200	11,800	4,380	7,540	5,290
13	30	50	109	906	1,430	4,570	2,910	3,910	14,500	4,840	6,650	18,000
14	25	54	85	866	1,440	3,920	1,730	5,500	26,500	5,640	6,050	26,300
15	29	51	87	841	1,390	2,740	3,150	5,950	21,700	4,950	4,100	27,600
16	26	46	85	838	1,410	2,020	5,050	5,520	5,140	5,880	5,500	16,600
17	27	44	e110	857	2,160	1,700	4,930	5,250	4,400	6,220	6,350	3,660
18	159	46	e103	995	5,240	5,920	5,240	5,050	4,080	6,090	6,850	5,910
19	413	46	96	e1,250	6,460	14,600	5,310	4,870	3,420	5,960	6,540	8,700
20	407	45	86	e1,300	2,700	6,970	4,860	4,710	3,640	5,830	6,180	9,160
21	534	42	80	e1,250	4,650	3,620	4,530	5,820	3,950	5,690	5,720	8,990
22	1,170	39	93	e1,200	6,530	3,070	4,280	6,680	5,070	5,590	5,160	8,790
23	1,560	33	189	e1,140	6,490	6,320	3,290	6,500	6,230	5,460	3,190	8,610
24	1,500	35	216	e1,140	6,440	7,710	5,710	7,150	6,230	5,280	1,740	8,440
25	1,020	33	222	1,150	6,620	7,410	7,080	6,290	6,220	5,130	1,030	8,300
26	477	32	218	1,400	7,570	7,050	7,340	5,530	5,710	4,990	866	8,130
27	320	36	221	1,330	9,300	6,450	8,190	17,500	5,330	4,910	776	7,970
28	360	37	253	1,290	7,270	3,580	8,380	24,200	9,830	4,750	730	7,800
29	225	40	615	1,240	6,200	2,400	8,440	14,000	17,200	4,590	1,620	7,600
30	214	38	853	1,200	---	2,300	8,290	3,420	14,600	4,700	5,380	7,350
31	257	---	846	1,170	---	8,540	---	1,930	---	4,880	1,230	---
Mean	309	66.3	174	1,037	3,796	6,046	6,404	8,580	10,140	5,167	4,839	7,134
Max	1,560	252	853	1,400	9,300	14,600	20,300	25,600	27,000	6,220	14,800	27,600
Min	25	32	33	636	1,110	1,700	1,090	1,930	1,940	4,160	730	560
Ac-ft	18,970	3,950	10,680	63,760	218,400	371,800	381,100	527,600	603,400	317,700	297,500	424,500

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1922 - 2008, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	2,160	2,163	1,410	1,281	1,705	2,978	4,239	4,548	5,375	3,788	1,432	1,956
Max	25,520	20,340	12,760	7,762	9,492	18,100	25,520	22,110	20,610	52,780	11,140	15,030
(WY)	(1987)	(1999)	(1993)	(1973)	(1949)	(1973)	(1927)	(1961)	(1995)	(1951)	(1993)	(1951)
Min	0.00	0.00	0.00	0.00	0.00	8.10	18.6	282	210	10.8	0.00	0.90
(WY)	(1957)	(1957)	(1957)	(1957)	(1957)	(1957)	(1981)	(1967)	(1980)	(1954)	(1936)	(1956)

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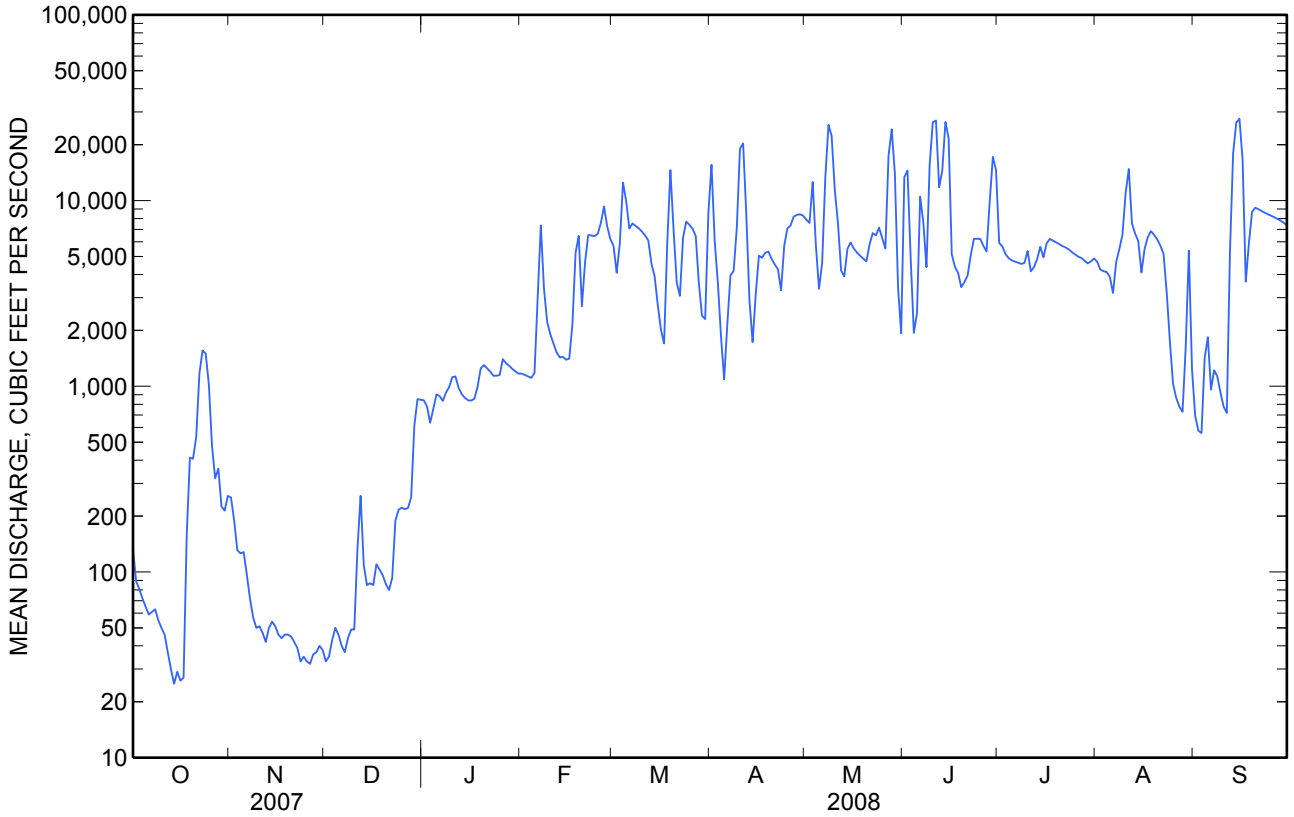
SUMMARY STATISTICS

	Calendar Year 2007		Water Year 2008		Water Years 1922 - 2008	
Annual mean	3,931		4,462		2,753	
Highest annual mean					8,611	1993
Lowest annual mean					173	1953
Highest daily mean	143,000	Jul 2	27,600	Sep 15	366,000	Jul 14, 1951
Lowest daily mean	25	Oct 14	25	Oct 14	0.00	Aug 26, 1934
Annual seven-day minimum	31	Oct 11	31	Oct 11	0.00	Aug 26, 1934
Maximum peak flow			27,900	Sep 15	410,000	Jul 14, 1951
Maximum peak stage			25.60	Sep 15	40.20	Jul 14, 1951
Instantaneous low flow			19	Oct 17	0.00	at times
Annual runoff (ac-ft)	2,846,000		3,239,000		1,995,000	
10 percent exceeds	9,900		8,850		8,110	
50 percent exceeds	428		3,650		595	
90 percent exceeds	50		50		42