

Water-Data Report 2013

06610765 Little Papillion Creek at Ak-Sar-Ben, Omaha, Nebr.

Missouri-Little Sioux Basin
Big Papillion-Mosquito Subbasin

LOCATION.--Lat 41°14'43", long 96°01'13" referenced to North American Datum of 1927, in SW ¼ NW ¼ sec.25, T.15 N., R.12 E., Douglas County, NE, Hydrologic Unit 10230006, on upstream side of bridge, 400 ft upstream of Pine Street bridge in Omaha.

DRAINAGE AREA.--50.2 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Annual maximum, October 2003 to September 2011. May 2012 to current year (seasonal records only).

REVISED RECORDS.--WDR-US-2010: 2009 (M).

GAGE.--Water-stage recorder with radio telemetry. Datum of gage is 1,001.76 ft above North American Vertical Datum of 1988. Prior to March 1, 2012, datum of gage in use was 1,001.30 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records poor except for periods of runoff, which are fair. Seasonal Water Year record collected from October 1-31 and March 1 to September 30.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,170 ft³/s, June 14, gage height, 11.43 ft; maximum daily discharge, 309 ft³/s, May 9; minimum daily discharge, 1.8 ft³/s, from estimated gage height, October 1; minimum gage height, 2.16 ft, October 5-8.

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

[e, estimated; &, affected value]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	e1.8	3.5	---	---	---	5.4	13	94	32	15	13	144
2	2.0	3.2	---	---	---	6.5	7.6	125	28	14	11	4.5
3	2.0	3.0	---	---	---	7.4	7.4	27	26	14	5.3	3.5
4	8.9	4.2	---	---	---	8.8	7.0	25	49	13	4.6	3.3
5	2.5	e6.1	---	---	---	&7.9	6.9	21	24	12	6.0	16
6	1.9	e3.1	---	---	---	&6.6	6.8	19	22	e12	43	3.9
7	1.9	3.1	---	---	---	7.7	8.0	21	21	10	6.8	3.4
8	2.2	3.4	---	---	---	11	20	26	160	11	5.2	e3.3
9	2.8	3.3	---	---	---	&74	128	309	96	19	5.4	e3.5
10	2.8	---	---	---	---	&27	138	31	32	11	5.1	e43
11	3.0	---	---	---	---	25	22	26	29	9.9	4.6	57
12	2.9	---	---	---	---	12	13	23	26	e9.0	4.6	6.1
13	67	---	---	---	---	11	11	22	25	8.4	4.6	e3.4
14	34	---	---	---	---	21	35	22	258	e8.1	4.4	e3.1
15	3.8	---	---	---	---	16	11	19	69	8.2	113	49
16	3.5	---	---	---	---	12	10	18	24	8.0	6.6	3.9
17	4.8	---	---	---	---	8.9	122	17	22	7.8	5.2	21
18	10	---	---	---	---	14	121	16	35	7.6	4.6	4.3
19	26	---	---	---	---	8.5	18	124	21	6.9	4.5	23
20	3.9	---	---	---	---	7.8	14	23	e20	6.7	4.5	6.6
21	3.1	---	---	---	---	7.9	99	19	18	13	4.6	3.4
22	12	---	---	---	---	7.8	274	18	26	18	5.0	3.2
23	4.2	---	---	---	---	8.7	32	17	44	14	4.4	e3.2
24	3.6	---	---	---	---	11	23	16	166	e6.6	6.0	e3.2
25	82	---	---	---	---	9.2	22	54	22	7.1	3.5	3.2
26	4.5	---	---	---	---	8.0	19	17	19	e5.9	3.4	3.2
27	3.1	---	---	---	---	8.1	19	246	49	e5.6	3.2	3.5
28	3.0	---	---	---	---	7.9	17	52	19	5.1	3.0	54
29	3.0	---	---	---	---	7.8	18	102	17	8.1	2.9	3.3
30	3.1	---	---	---	---	27	16	120	19	e7.2	2.9	2.6
31	3.2	---	---	---	---	9.3	---	37	---	5.6	e3.3	---
Total	312.5	---	---	---	---	411.2	1,258.7	1,706	1,418	307.8	304.2	488.6
Mean	10.1	---	---	---	---	13.3	42.0	55.0	47.3	9.93	9.81	16.3
Max	82	---	---	---	---	74	274	309	258	19	113	144
Min	1.8	---	---	---	---	5.4	6.8	16	17	5.1	2.9	2.6
Ac-ft	620	---	---	---	---	816	2,500	3,380	2,810	611	603	969

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2012 - 2013, BY WATER YEAR (WY)

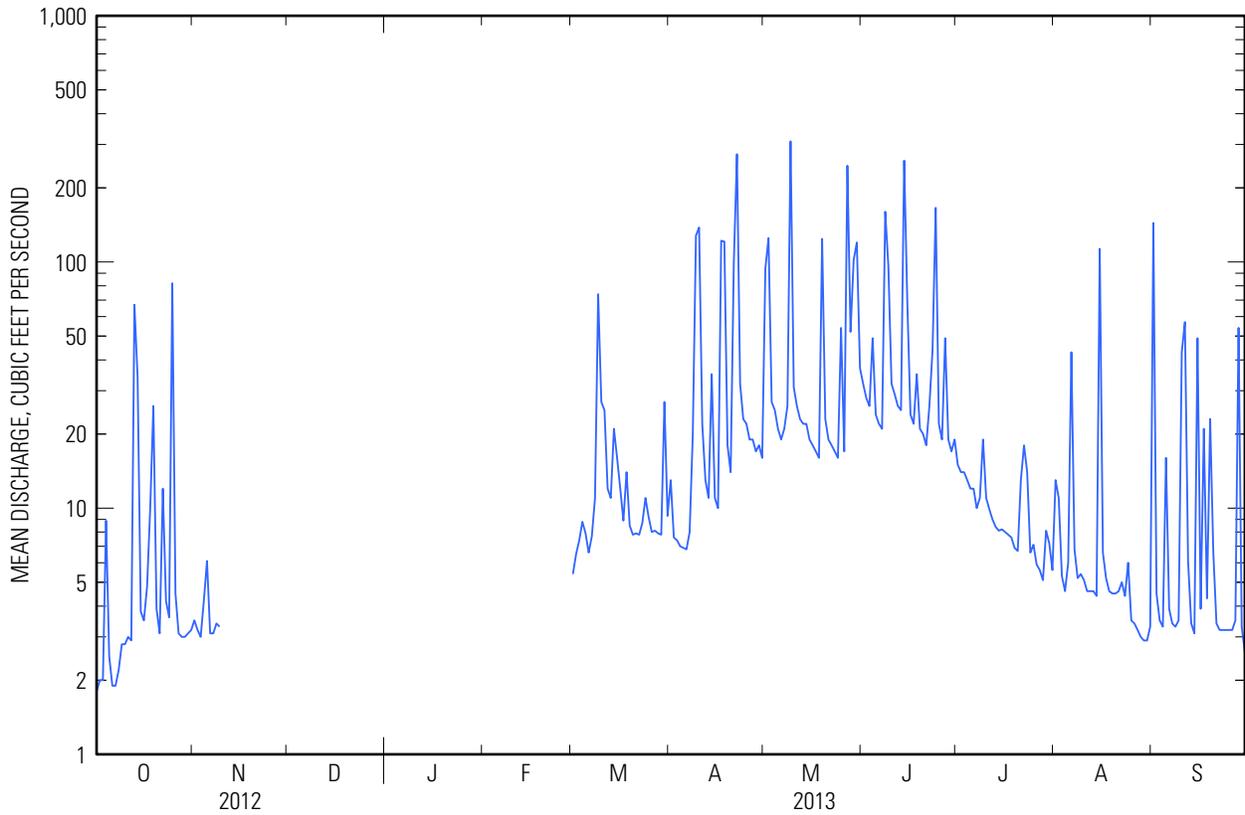
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	10.1	---	---	---	---	13.3	42.0	55.0	38.3	7.51	8.17	12.3
Max	10.1	---	---	---	---	13.3	42.0	55.0	47.3	9.93	9.81	16.3
(WY)	(2013)	(---)	(---)	(---)	(---)	(2013)	(2013)	(2013)	(2013)	(2013)	(2013)	(2013)
Min	10.1	---	---	---	---	13.3	42.0	55.0	29.4	5.10	6.53	8.22
(WY)	(2013)	(---)	(---)	(---)	(---)	(2013)	(2013)	(2013)	(2012)	(2012)	(2012)	(2012)

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SUMMARY STATISTICS

Water Years 2012 - 2013		
Highest daily mean	309	May 9, 2013
Lowest daily mean	1.8	Sep 10, 2012
Annual seven-day minimum	2.1	Sep 27, 2012
Maximum peak flow	^a 8,370	Aug 22, 2011
Maximum peak stage	19.03	Aug 22, 2011

^a From rating curve extension above 3,500 ft³/s by straight-line extension.



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GAGE HEIGHT, FEET
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	e2.18	2.23	---	---	---	2.30	2.46	2.96	2.70	2.51	2.40	3.06
2	2.18	2.23	---	---	---	2.33	2.36	3.35	2.65	2.49	2.40	2.26
3	2.19	2.22	---	---	---	2.35	2.35	2.64	2.62	2.49	2.29	2.23
4	2.35	2.25	---	---	---	2.38	2.34	2.62	2.81	2.47	2.27	2.22
5	2.20	e2.30	---	---	---	2.36	2.34	2.56	2.61	2.46	2.31	2.46
6	2.18	e2.22	---	---	---	2.33	2.34	2.54	2.58	e2.45	2.66	2.24
7	2.18	2.22	---	---	---	2.36	2.36	2.56	2.57	2.42	2.34	2.23
8	2.19	2.23	---	---	---	2.40	2.56	2.61	3.26	2.43	2.29	e2.22
9	2.21	2.23	---	---	---	2.90	3.20	3.73	3.14	2.56	2.30	e2.23
10	2.21	---	---	---	---	2.65	3.25	2.69	2.70	2.43	2.29	e2.52
11	2.22	---	---	---	---	2.62	2.60	2.62	2.66	2.41	2.27	2.82
12	2.22	---	---	---	---	2.45	2.47	2.59	2.63	e2.39	2.27	2.30
13	2.85	---	---	---	---	2.44	2.43	2.58	2.61	2.38	2.27	e2.23
14	2.65	---	---	---	---	2.57	2.70	2.57	3.35	e2.37	2.26	e2.22
15	2.24	---	---	---	---	2.53	2.44	2.53	2.93	2.37	3.01	2.64
16	2.23	---	---	---	---	2.45	2.42	2.52	2.64	2.37	2.33	2.24
17	2.27	---	---	---	---	2.39	3.17	2.50	2.62	2.36	2.29	2.52
18	2.34	---	---	---	---	2.48	3.25	2.48	2.74	2.36	2.27	2.26
19	2.59	---	---	---	---	2.38	2.55	3.20	2.60	2.34	2.27	2.53
20	2.24	---	---	---	---	2.36	2.50	2.59	e2.58	2.33	2.27	2.32
21	2.22	---	---	---	---	2.36	2.89	2.53	2.55	2.42	2.27	2.23
22	2.41	---	---	---	---	2.36	3.89	2.52	2.64	2.51	2.28	2.23
23	2.25	---	---	---	---	2.38	2.69	2.50	2.79	2.48	2.26	e2.23
24	2.23	---	---	---	---	2.44	2.59	2.48	3.25	e2.33	2.30	e2.23
25	2.97	---	---	---	---	2.39	2.57	2.79	2.61	2.34	2.23	2.23
26	2.26	---	---	---	---	2.37	2.54	2.51	2.58	e2.31	2.23	2.23
27	2.22	---	---	---	---	2.37	2.53	3.62	2.83	e2.30	2.22	2.23
28	2.22	---	---	---	---	2.36	2.51	2.84	2.58	2.29	2.21	2.68
29	2.22	---	---	---	---	2.36	2.52	3.02	2.54	2.36	2.21	2.23
30	2.22	---	---	---	---	2.63	2.49	3.20	2.56	e2.34	2.20	2.20
31	2.22	---	---	---	---	2.39	---	2.76	---	2.30	e2.22	---
Mean	2.30	---	---	---	---	2.43	2.64	2.75	2.73	2.40	2.31	2.35
Max	2.97	---	---	---	---	2.90	3.89	3.73	3.35	2.56	3.01	3.06
Min	2.18	---	---	---	---	2.30	2.34	2.48	2.54	2.29	2.20	2.20

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