

Water-Data Report 2012

403135095431201 Kansas Chute Upstream, Nebr.

Missouri-Nishnabotna Basin
Keg-Weeping Water Subbasin

LOCATION.--Lat 40°31'19.10", long 95°43'25.67" referenced to North American Datum of 1983, Otoe County, NE, Hydrologic Unit 10240001, on right bank at upstream end of Kansas Chute, 2.8 mi north of Peru, Nebr., at Missouri River mile 545.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--March to October 2012 (seasonal record only).

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: March 27 to September 30, 2012 (seasonal records only).

TURBIDITY: March 27 to September 30, 2012 (seasonal records only).

INSTRUMENTATION.--Seasonal deployment of a continuous water-quality monitor. Measured parameters include water temperature and turbidity. Turbidity measurements conform to ISO 7027 standards and were made using a Yellow Springs International (YSI) 6136 sensor.

REMARKS.--The water temperature and turbidity data are rated as excellent. Interruptions in the record are due to instrument malfunction or measured error outside of allowable limits.

EXTREMES FOR CURRENT YEAR.--These extremes may have been exceeded during non-measured periods of the record.

WATER TEMPERATURE: Maximum, 30.8°C, July 26; minimum, 12.5°C April 13.

TURBIDITY: Maximum, >1,000 FNU, sensor limit, value was 1,040 FNU, April 15; minimum, 2.8 FNU, June 22 and June 25.

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TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	October			November			December			January		
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
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13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
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29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
Month	---	---	---	---	---	---	---	---	---	---	---	---

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TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	February			March			April			May		
1	---	---	---	---	---	---	---	---	---	16.6	15.0	15.8
2	---	---	---	---	---	---	---	---	---	18.4	16.6	17.5
3	---	---	---	---	---	---	---	---	---	19.9	18.4	19.2
4	---	---	---	---	---	---	---	---	---	21.7	19.8	20.7
5	---	---	---	---	---	---	---	---	---	23.2	21.4	22.3
6	---	---	---	---	---	---	---	---	---	23.6	22.6	23.1
7	---	---	---	---	---	---	---	---	---	22.6	21.3	21.9
8	---	---	---	---	---	---	---	---	---	21.3	19.8	20.6
9	---	---	---	---	---	---	---	---	---	19.8	18.9	19.3
10	---	---	---	---	---	---	---	---	---	19.1	18.3	18.7
11	---	---	---	---	---	---	14.4	13.6	14.0	19.5	18.4	18.9
12	---	---	---	---	---	---	13.9	12.9	13.3	18.9	18.4	18.7
13	---	---	---	---	---	---	13.4	12.5	13.0	19.1	18.1	18.6
14	---	---	---	---	---	---	13.6	13.0	13.3	19.5	18.6	19.0
15	---	---	---	---	---	---	14.4	13.4	13.9	19.6	18.5	19.0
16	---	---	---	---	---	---	14.3	13.8	14.0	20.3	19.0	19.6
17	---	---	---	---	---	---	14.6	13.6	14.0	20.6	19.5	20.0
18	---	---	---	---	---	---	15.1	13.8	14.4	20.9	19.9	20.4
19	---	---	---	---	---	---	15.5	14.7	15.1	21.1	20.2	20.6
20	---	---	---	---	---	---	15.1	14.2	14.7	20.9	20.4	20.6
21	---	---	---	---	---	---	15.0	13.7	14.3	21.0	19.9	20.5
22	---	---	---	---	---	---	14.9	13.8	14.3	21.3	20.4	20.8
23	---	---	---	---	---	---	14.7	13.5	14.1	21.1	20.1	20.6
24	---	---	---	---	---	---	15.7	13.9	14.8	21.6	20.6	21.0
25	---	---	---	---	---	---	17.2	15.3	16.2	21.2	20.7	20.9
26	---	---	---	---	---	---	17.9	16.6	17.2	21.5	20.4	20.9
27	---	---	---	---	---	---	17.6	16.7	17.2	22.2	20.9	21.5
28	---	---	---	17.8	17.0	17.4	16.7	15.9	16.4	22.5	21.5	22.0
29	---	---	---	17.4	16.5	16.8	15.9	15.6	15.7	22.8	21.7	22.2
30	---	---	---	16.9	15.9	16.4	15.8	15.2	15.4	22.8	22.0	22.3
31	---	---	---	17.3	16.4	16.8	---	---	---	22.0	20.3	21.1
Month	---	---	---	---	---	---	---	---	---	23.6	15.0	20.3

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TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	June			July			August			September		
1	20.3	19.3	19.8	29.2	28.0	28.6	29.0	28.3	28.7	26.9	26.1	26.4
2	19.7	18.7	19.2	29.7	28.6	29.1	30.0	28.7	29.3	27.2	26.2	26.7
3	20.0	19.0	19.5	29.2	28.5	28.9	29.9	29.4	29.6	27.1	26.6	26.8
4	21.2	19.6	20.4	29.2	28.2	28.7	29.6	28.8	29.3	27.4	26.3	26.8
5	22.4	20.9	21.6	29.8	28.5	29.1	28.9	28.1	28.5	27.0	26.5	26.8
6	23.6	22.2	22.8	30.3	29.2	29.7	28.6	27.7	28.1	26.6	25.8	26.2
7	24.0	22.9	23.4	30.7	29.6	30.1	28.3	27.6	28.0	26.1	24.5	25.3
8	24.2	23.1	23.6	30.3	29.4	29.8	28.4	27.5	27.9	24.6	23.9	24.2
9	24.3	23.3	23.8	29.4	28.8	29.1	28.1	27.3	27.7	24.0	23.3	23.6
10	24.3	23.5	23.9	29.4	28.7	29.0	28.0	27.1	27.6	23.4	22.7	23.1
11	24.6	23.7	24.1	29.2	28.3	28.8	27.7	27.1	27.4	23.0	22.3	22.6
12	24.7	23.8	24.2	29.2	28.3	28.8	27.2	26.4	26.9	22.5	21.7	22.2
13	24.4	23.7	24.1	29.2	28.4	28.8	26.4	25.6	25.9	21.7	20.6	21.2
14	24.1	23.3	23.7	29.6	28.5	29.0	25.9	25.2	25.5	21.0	20.3	20.6
15	23.5	22.9	23.2	29.5	28.6	29.0	25.4	24.6	25.1	21.1	20.3	20.7
16	22.9	22.3	22.6	29.4	28.6	29.0	25.2	24.6	24.8	20.8	20.3	20.5
17	23.6	22.1	22.8	29.8	28.7	29.2	25.1	24.2	24.7	20.7	20.3	20.6
18	25.1	23.4	24.2	29.8	29.2	29.5	24.8	23.8	24.3	20.6	19.8	20.2
19	26.1	24.8	25.4	30.3	29.2	29.7	24.2	23.4	23.8	20.5	19.6	20.0
20	25.8	25.2	25.4	30.4	29.5	30.0	23.9	23.0	23.5	20.3	19.7	20.0
21	26.0	25.0	25.4	30.7	29.8	30.2	24.4	23.4	23.9	---	---	---
22	26.1	25.0	25.5	30.4	29.5	30.0	24.1	23.3	23.7	19.4	18.8	19.0
23	25.8	25.0	25.4	30.4	29.5	29.9	24.6	23.6	24.2	19.0	18.3	18.6
24	26.1	24.8	25.5	30.2	29.4	29.8	24.5	24.2	24.4	---	---	---
25	27.0	25.8	26.4	30.2	29.2	29.7	24.2	23.8	23.9	---	---	---
26	27.0	26.1	26.6	30.8	29.5	30.1	24.5	23.8	24.1	18.7	18.1	18.4
27	29.0	26.1	27.3	30.4	29.8	30.1	25.6	24.4	25.0	18.7	17.8	18.3
28	28.9	27.3	28.1	29.8	29.0	29.4	26.0	25.2	25.7	18.7	18.1	18.4
29	29.0	28.1	28.6	29.4	28.4	28.9	26.1	25.3	25.7	19.1	18.3	18.7
30	28.7	27.9	28.3	28.9	28.3	28.6	26.5	25.7	26.1	19.0	18.4	18.7
31	---	---	---	29.1	28.0	28.5	26.6	25.8	26.2	---	---	---
Month	29.0	18.7	24.2	30.8	28.0	29.3	30.0	23.0	26.1	---	---	---

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TURBIDITY, WATER, UNFILT, NEAR IR LED LIGHT, 780-900 NM, DETECT ANG. 90 DEG, FORMAZIN NEPHELOMETRIC UNITS
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	October			November			December			January		
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
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10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
Month	---	---	---	---	---	---	---	---	---	---	---	---

403135095431201 Kansas Chute Upstream, Nebr.—Continued

TURBIDITY, WATER, UNFILT, NEAR IR LED LIGHT, 780-900 NM, DETECT ANG. 90 DEG, FORMAZIN NEPHELOMETRIC UNITS
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	February			March			April			May		
1	---	---	---	---	---	---	---	---	---	83	48	63
2	---	---	---	---	---	---	---	---	---	100	55	70
3	---	---	---	---	---	---	---	---	---	160	90	120
4	---	---	---	---	---	---	---	---	---	390	98	200
5	---	---	---	---	---	---	---	---	---	380	120	220
6	---	---	---	---	---	---	---	---	---	140	88	100
7	---	---	---	---	---	---	---	---	---	210	100	170
8	---	---	---	---	---	---	---	---	---	330	160	250
9	---	---	---	---	---	---	---	---	---	210	120	160
10	---	---	---	---	---	---	---	---	---	140	100	110
11	---	---	---	---	---	---	28	24	26	140	110	130
12	---	---	---	---	---	---	29	25	27	140	120	120
13	---	---	---	---	---	---	45	25	28	160	120	140
14	---	---	---	---	---	---	150	26	52	150	100	120
15	---	---	---	---	---	---	1,040	110	620	100	82	94
16	---	---	---	---	---	---	660	380	540	84	70	78
17	---	---	---	---	---	---	---	---	---	72	60	67
18	---	---	---	---	---	---	---	---	---	66	55	60
19	---	---	---	---	---	---	210	110	150	57	49	53
20	---	---	---	---	---	---	190	91	110	49	44	46
21	---	---	---	---	---	---	140	80	100	54	41	44
22	---	---	---	---	---	---	82	57	66	---	---	---
23	---	---	---	---	---	---	160	54	75	150	110	120
24	---	---	---	---	---	---	130	58	71	110	57	87
25	---	---	---	---	---	---	65	52	57	83	48	61
26	---	---	---	---	---	---	58	50	53	90	48	63
27	---	---	---	---	---	---	110	49	61	130	82	110
28	---	---	---	38	34	36	140	50	64	310	110	180
29	---	---	---	37	32	35	150	49	67	350	190	260
30	---	---	---	62	34	45	73	42	53	340	130	200
31	---	---	---	45	31	35	---	---	---	520	340	450
Month	---	---	---	---	---	---	---	---	---	---	---	---

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TURBIDITY, WATER, UNFILT, NEAR IR LED LIGHT, 780-900 NM, DETECT ANG. 90 DEG, FORMAZIN NEPHELOMETRIC UNITS
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	June			July			August			September		
1	490	310	390	38	26	33	32	19	24	36	24	28
2	310	180	240	37	24	31	29	19	23	39	27	33
3	180	120	150	---	---	---	31	18	24	38	25	30
4	120	99	110	---	---	---	36	20	26	38	23	29
5	100	81	92	31	23	27	51	22	32	38	24	31
6	84	72	77	29	20	24	36	22	26	42	26	33
7	83	63	70	25	18	21	35	22	27	42	26	32
8	---	---	---	25	16	19	44	23	30	38	24	30
9	---	---	---	27	12	17	47	24	30	40	24	30
10	---	---	---	23	13	16	43	20	30	41	24	33
11	220	50	100	34	11	16	46	23	30	35	23	29
12	410	150	230	52	12	26	45	25	33	36	24	30
13	210	52	100	---	---	---	---	---	---	73	25	40
14	110	42	58	---	---	---	---	---	---	65	32	40
15	160	40	79	---	---	---	---	---	---	43	26	34
16	150	86	110	---	---	---	---	---	---	38	27	32
17	120	91	99	---	---	---	64	30	41	40	24	32
18	99	66	80	---	---	---	51	28	36	29	20	24
19	100	60	78	---	---	---	56	31	41	28	18	23
20	---	---	---	35	22	26	53	28	40	36	20	25
21	---	---	---	40	22	32	41	28	32	---	---	---
22	22	2.8	11	47	28	37	39	25	30	---	---	---
23	30	7.9	15	54	33	41	48	30	39	---	---	---
24	17	3.3	6.5	54	28	34	---	---	---	---	---	---
25	7.8	2.8	3.9	38	20	29	---	---	---	---	---	---
26	---	---	---	30	16	22	---	---	---	39	23	31
27	---	---	---	35	18	23	---	---	---	40	25	33
28	46	33	40	45	20	28	---	---	---	34	24	29
29	40	31	36	99	20	46	37	26	30	36	25	29
30	41	29	35	28	18	23	34	25	30	38	25	31
31	---	---	---	33	19	24	30	26	27	---	---	---
Month	---	---	---	---	---	---	---	---	---	---	---	---