

Water-Data Report 2012

403134095431101 Kansas Chute Downstream, Nebr.

Missouri-Nishnabotna Basin
Keg-Weeping Water Subbasin

LOCATION.--Lat 40°32'03.48", long 95°42'46.84" referenced to North American Datum of 1983, in sec.12, T.7 N., R.14 E., Otoe County, NE, Hydrologic Unit 10240001, on left bank at downstream end of Kansas Chute, 2.6 mi northeast of Peru, Nebr., at Missouri River mile 546.

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, 31.1 °C, July 26; minimum, 12.6°C, April 12.

TURBIDITY: Maximum, 1,000 FNU, April 15; minimum, 21 FNU, July 29.

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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	---	---	---	---	---	---	---	---	---	---	---	---
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27	---	---	---	---	---	---	---	---	---	---	---	---
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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	---	---	---	---	---	---	17.9	16.6	17.2	16.8	15.1	15.9
2	---	---	---	---	---	---	18.5	17.2	17.8	18.5	16.7	17.6
3	---	---	---	---	---	---	18.5	17.6	18.1	20.1	18.5	19.4
4	---	---	---	---	---	---	18.0	17.1	17.6	21.9	19.9	20.9
5	---	---	---	---	---	---	17.1	16.4	16.8	23.4	21.5	22.5
6	---	---	---	---	---	---	16.6	15.7	16.2	23.9	22.7	23.3
7	---	---	---	---	---	---	15.7	14.8	15.2	22.7	21.4	22.1
8	---	---	---	---	---	---	15.1	14.2	14.7	21.4	20.0	20.8
9	---	---	---	---	---	---	15.2	14.1	14.6	20.0	19.0	19.5
10	---	---	---	---	---	---	14.9	14.0	14.5	19.2	18.4	18.8
11	---	---	---	---	---	---	14.6	13.6	14.2	19.7	18.5	19.0
12	---	---	---	---	---	---	14.0	13.1	13.4	19.1	18.6	18.8
13	---	---	---	---	---	---	13.6	12.6	13.1	19.3	18.3	18.8
14	---	---	---	---	---	---	13.7	13.1	13.4	19.7	18.7	19.2
15	---	---	---	---	---	---	14.6	13.5	14.0	19.8	18.6	19.2
16	---	---	---	---	---	---	14.5	13.9	14.2	20.5	19.1	19.7
17	---	---	---	---	---	---	14.8	13.7	14.2	20.8	19.6	20.2
18	---	---	---	---	---	---	15.2	14.0	14.6	21.1	20.0	20.5
19	---	---	---	---	---	---	15.6	14.8	15.2	21.3	20.3	20.8
20	---	---	---	---	---	---	15.3	14.4	14.9	21.1	20.6	20.8
21	---	---	---	---	---	---	15.2	13.8	14.5	21.2	20.0	20.6
22	---	---	---	---	---	---	15.1	14.0	14.5	21.5	20.5	20.9
23	---	---	---	---	---	---	15.0	13.6	14.3	21.3	20.2	20.8
24	---	---	---	---	---	---	15.9	14.0	14.9	21.8	20.7	21.2
25	---	---	---	---	---	---	17.4	15.4	16.4	21.4	20.8	21.0
26	---	---	---	---	---	---	18.0	16.7	17.4	21.7	20.6	21.1
27	---	---	---	---	---	---	17.7	16.9	17.3	22.3	21.1	21.7
28	---	---	---	18.0	17.1	17.5	16.9	16.1	16.6	22.7	21.6	22.1
29	---	---	---	17.5	16.6	17.0	16.1	15.7	15.8	23.0	21.8	22.4
30	---	---	---	17.0	16.0	16.5	16.0	15.3	15.6	22.9	22.1	22.5
31	---	---	---	17.5	16.5	16.9	---	---	---	22.1	20.4	21.2
Month	---	---	---	---	---	---	18.5	12.6	15.4	23.9	15.1	20.4

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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	20.4	19.4	19.9	29.3	27.9	28.6	29.4	28.3	28.8	27.2	26.1	26.5
2	19.9	18.8	19.4	29.8	28.4	29.1	30.3	28.8	29.4	27.4	26.1	26.7
3	20.2	19.1	19.6	29.4	28.5	28.9	30.3	29.4	29.7	27.2	26.6	26.8
4	21.4	19.8	20.6	29.4	28.2	28.8	29.7	28.9	29.4	27.6	26.3	26.9
5	22.6	21.0	21.8	30.1	28.5	29.2	29.0	28.1	28.6	27.3	26.4	26.8
6	23.8	22.3	23.0	30.6	29.1	29.8	28.8	27.6	28.2	26.6	25.8	26.2
7	24.2	23.0	23.6	31.0	29.5	30.2	28.5	27.6	28.1	26.0	24.5	25.3
8	24.4	23.2	23.8	30.3	29.4	29.9	28.6	27.6	28.0	24.6	23.8	24.3
9	24.5	23.4	24.0	29.6	28.8	29.2	28.2	27.4	27.8	24.1	23.2	23.6
10	24.5	23.6	24.1	29.8	28.7	29.1	28.2	27.2	27.7	23.6	22.7	23.1
11	24.8	23.9	24.3	29.5	28.2	28.8	27.9	27.1	27.5	23.2	22.3	22.7
12	24.9	23.9	24.4	29.5	28.3	28.9	27.3	26.5	27.0	22.5	21.7	22.2
13	24.7	23.8	24.3	29.5	28.4	28.9	26.5	25.6	26.0	21.7	20.6	21.2
14	24.5	23.4	23.9	29.8	28.5	29.1	26.1	25.2	25.6	21.2	20.2	20.7
15	23.7	23.1	23.4	29.7	28.6	29.1	25.6	24.7	25.2	21.4	20.3	20.8
16	23.1	22.5	22.8	29.6	28.6	29.1	25.3	24.6	24.9	20.8	20.3	20.5
17	23.7	22.3	23.0	30.0	28.6	29.3	25.3	24.2	24.8	20.7	20.2	20.5
18	25.3	23.5	24.4	30.0	29.2	29.6	24.8	23.9	24.3	20.8	19.7	20.2
19	26.3	24.9	25.6	30.6	29.2	29.8	24.4	23.4	23.9	20.6	19.6	20.0
20	25.9	25.3	25.6	30.7	29.5	30.1	24.0	23.0	23.6	20.4	19.7	20.0
21	26.1	25.1	25.5	30.9	29.8	30.3	24.6	23.4	24.0	20.0	19.4	19.7
22	26.2	25.0	25.6	30.7	29.5	30.1	24.2	23.3	23.8	19.4	18.7	19.0
23	25.9	25.0	25.5	30.7	29.5	30.1	24.6	23.6	24.1	19.1	18.2	18.6
24	26.2	24.8	25.5	30.5	29.4	29.9	24.4	24.2	24.3	18.5	18.0	18.3
25	27.1	25.8	26.4	30.5	29.2	29.8	24.2	23.8	23.9	19.2	18.2	18.7
26	27.2	26.1	26.6	31.1	29.5	30.2	24.5	23.7	24.1	18.8	18.2	18.5
27	27.8	26.1	27.0	30.8	29.8	30.2	25.7	24.4	25.0	19.0	17.9	18.4
28	29.0	27.2	28.1	30.1	28.9	29.5	26.2	25.2	25.7	18.9	18.0	18.5
29	29.1	28.0	28.6	29.6	28.2	29.0	26.2	25.3	25.8	19.3	18.2	18.7
30	28.8	27.8	28.3	29.1	28.3	28.7	26.7	25.6	26.1	19.0	18.4	18.7
31	---	---	---	29.4	28.0	28.6	26.8	25.8	26.3	---	---	---
Month	29.1	18.8	24.3	31.1	27.9	29.4	30.3	23.0	26.2	27.6	17.9	21.7

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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	---	---	---	---	---	---	---	---	---	---	---	---
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13	---	---	---	---	---	---	---	---	---	---	---	---
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15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
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
	February			March			April			May		
1	---	---	---	---	---	---	38	32	34	74	46	58
2	---	---	---	---	---	---	35	30	32	85	49	61
3	---	---	---	---	---	---	35	28	31	130	85	110
4	---	---	---	---	---	---	32	28	30	260	87	150
5	---	---	---	---	---	---	33	27	30	280	150	220
6	---	---	---	---	---	---	30	26	27	150	110	130
7	---	---	---	---	---	---	30	25	28	250	120	210
8	---	---	---	---	---	---	30	26	28	330	210	270
9	---	---	---	---	---	---	30	26	27	230	130	180
10	---	---	---	---	---	---	30	25	28	130	110	120
11	---	---	---	---	---	---	29	26	27	150	110	130
12	---	---	---	---	---	---	34	27	29	140	120	130
13	---	---	---	---	---	---	32	27	30	170	120	150
14	---	---	---	---	---	---	160	27	55	160	120	140
15	---	---	---	---	---	---	1,000	130	610	120	93	110
16	---	---	---	---	---	---	660	310	500	110	85	95
17	---	---	---	---	---	---	310	230	250	100	73	85
18	---	---	---	---	---	---	240	190	210	96	68	78
19	---	---	---	---	---	---	210	110	160	70	59	63
20	---	---	---	---	---	---	140	83	110	72	57	63
21	---	---	---	---	---	---	100	70	88	77	55	65
22	---	---	---	---	---	---	130	53	79	150	58	110
23	---	---	---	---	---	---	180	56	83	150	110	120
24	---	---	---	---	---	---	160	66	90	110	69	84
25	---	---	---	---	---	---	82	61	70	78	57	65
26	---	---	---	---	---	---	72	57	63	97	56	67
27	---	---	---	---	---	---	180	58	94	130	96	120
28	---	---	---	45	37	40	75	56	63	310	110	180
29	---	---	---	41	36	38	72	57	64	340	200	260
30	---	---	---	63	36	47	71	51	60	370	170	240
31	---	---	---	49	34	39	---	---	---	510	370	460
Month	---	---	---	---	---	---	1,000	25	100	510	46	140

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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	410	66	49	58	36	24	28	60	40	48
2	310	190	250	68	48	61	45	23	30	96	53	69
3	200	140	160	76	39	59	38	22	27	66	45	58
4	140	100	120	67	36	46	33	24	29	55	40	48
5	120	91	100	53	36	44	33	26	29	59	46	52
6	110	85	94	50	35	42	35	28	31	64	48	55
7	100	73	85	50	32	40	36	28	32	57	44	50
8	100	66	79	44	31	37	43	29	34	59	45	51
9	83	57	67	40	30	34	43	30	36	57	46	51
10	130	58	93	41	31	35	47	29	35	66	50	57
11	170	90	110	42	32	36	48	30	37	55	44	50
12	280	150	200	41	30	35	50	30	42	56	43	50
13	200	120	150	40	29	34	54	34	42	110	54	72
14	150	100	120	40	30	34	51	29	39	110	59	73
15	210	110	150	46	31	36	---	---	---	88	50	62
16	220	130	160	42	31	35	---	---	---	94	55	71
17	200	130	160	44	27	33	58	37	46	140	56	86
18	150	100	120	36	27	30	54	40	45	---	---	---
19	150	88	120	40	27	32	55	43	48	---	---	---
20	140	84	100	63	32	43	55	43	49	---	---	---
21	110	71	92	58	30	43	49	36	41	99	67	75
22	140	90	110	42	26	33	50	36	41	73	54	66
23	160	110	140	36	26	31	63	42	50	57	42	48
24	140	78	110	40	26	32	55	42	50	68	42	50
25	100	76	88	38	25	30	57	44	49	51	40	44
26	96	61	75	36	23	28	---	---	---	55	43	48
27	81	54	69	30	22	25	---	---	---	57	44	52
28	82	50	68	30	22	25	---	---	---	50	42	46
29	79	52	71	30	21	25	52	35	41	50	43	46
30	71	50	64	34	23	27	50	37	42	51	42	46
31	---	---	---	39	24	28	57	40	48	---	---	---
Month	490	50	120	76	21	36	---	---	---	---	---	---