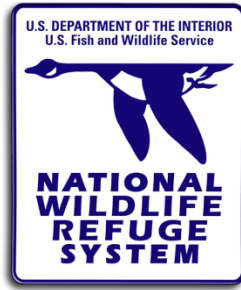


Water-Data Report 2012

393619093074801 Yellow Creek nr Mendon MO, Hwy CC on Swan Lake NWR



Division of Biological Resources
Water Resources Branch

Water-Data Report 2012

393556093132501 Yellow Creek nr Mendon MO, Hwy CC on Swan Lake NWR

LOCATION: Lat. 39°36'19"N, long. 93°07'48"W near Swan Lake NWR, 23.5 miles southeast of Chillicothe, MO, in Charlton County. Gage is mounted 9 feet off the ground on a tree in the woods downstream of the bridge on the left bank.

DRAINAGE AREA: 414 square miles

SURFACE WATER RECORDS

PERIOD OF RECORD: June 24, 2010 to present.

GAGE SITE: Design Analysis 522+ in communication with Esterline pressure transducer in a square metal gage house. GOES antenna in communication with DA 522+ DCP transmits every hour in a 10 second window at a baud rate of 300. Instruments are powered by a solar panel run to a battery through a SunSaver power regulator. Solar panel, GPS and GOES antennas are attached to a mast connected to the gage house. Stage is collected at 15-minute intervals. Weekly gage height data available online, NWS Id is MDOM7. Datum of gage is in North American Vertical Datum of 1988.

NATIONAL WILDLIFE REFUGE: Swan Lake NWR

REMARKS: Records coded fair for 2012 calendar year.

EXTREMES FOR PERIOD OF RECORD: Maximum gage height, 676.81 ft, June 28, 2010; minimum gage height, 660.37 ft, August 23, 2012.

EXTREMES FOR CURRENT YEAR: Maximum gage height, 676.42 ft, April 14; minimum gage height, 660.37 ft, August 23.

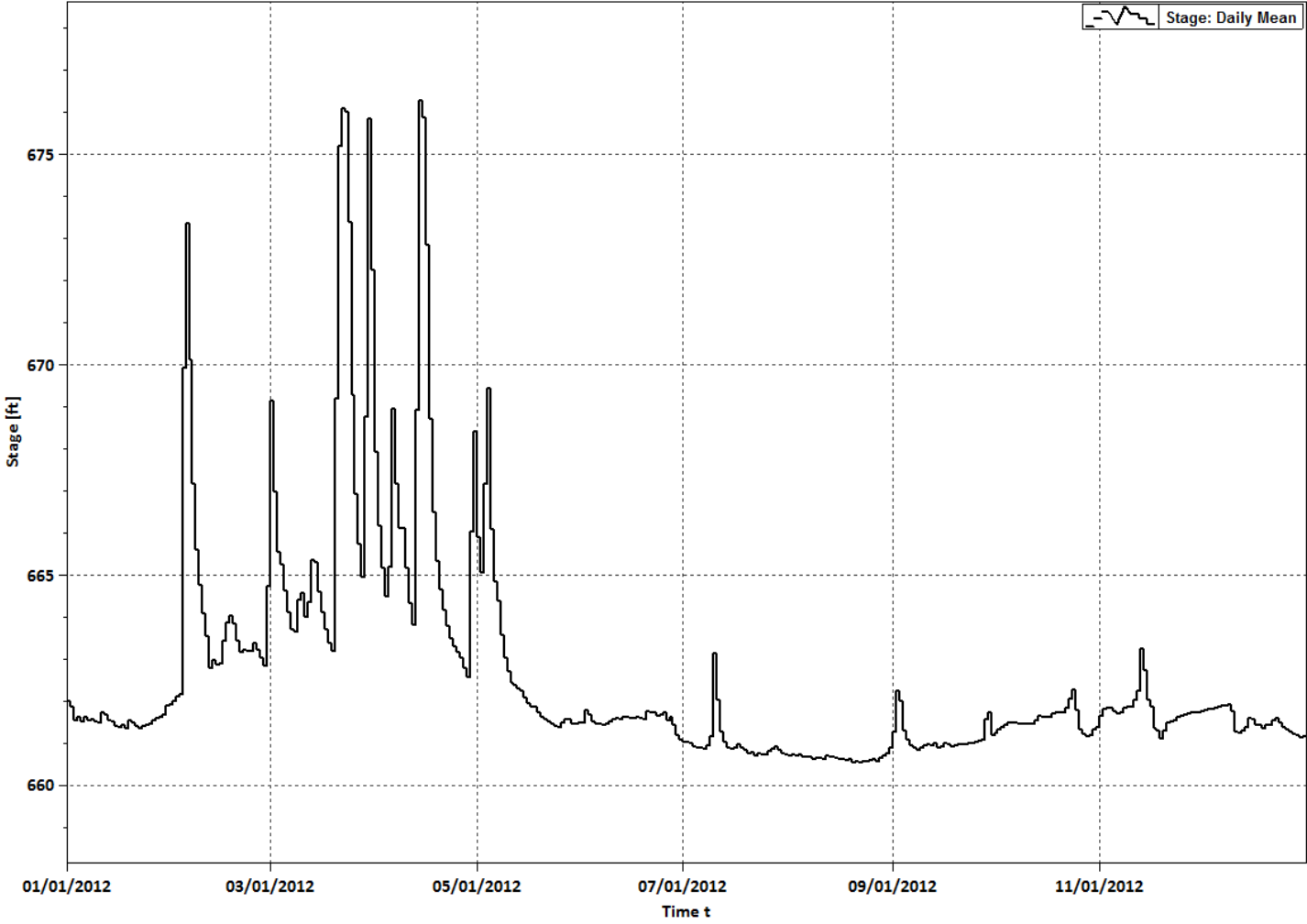
Water-Data Report 2012

393619093074801 Yellow Creek nr Mendon MO, Hwy CC on Swan Lake NWR

GAGE HEIGHT, FEET
CALENDAR YEAR 2012
DAILY MEAN VALUES

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	662.00	662.01	669.15	667.93	665.89	661.48	661.02	660.71	661.28	661.25	661.66	661.76
2	661.87	662.10	666.98	666.17	665.06	661.78	661.04	660.74	662.25	661.33	661.81	661.79
3	661.54	662.16	665.55	665.16	667.17	661.67	661.00	660.70	662.01	661.37	661.83	661.81
4	661.61	669.93	665.25	664.49	669.43	661.51	660.92	660.72	661.30	661.43	661.84	661.82
5	661.51	673.35	664.63	665.18	666.10	661.46	660.89	660.69	661.07	661.49	661.75	661.83
6	661.62	670.12	664.11	668.95	664.83	661.46	660.90	660.67	660.96	661.48	661.69	661.87
7	661.54	667.16	663.71	667.17	664.37	661.44	660.87	660.67	660.88	661.48	661.72	661.89
8	661.57	665.60	663.65	666.11	663.56	661.46	660.94	660.63	660.82	661.47	661.83	661.89
9	661.52	664.75	664.40	666.12	663.02	661.51	661.17	660.64	660.89	661.47	661.85	661.91
10	661.48	664.09	664.57	665.16	662.70	661.55	663.13	660.64	660.95	661.47	661.87	661.76
11	661.73	663.55	663.99	664.34	662.44	661.59	662.03	660.63	660.96	661.47	662.01	661.26
12	661.67	662.78	664.34	663.82	662.37	661.58	661.28	660.69	660.96	661.46	662.25	661.25
13	661.54	662.97	665.35	668.92	662.31	661.62	661.03	660.66	661.01	661.55	663.25	661.31
14	661.50	662.87	665.30	676.28	662.23	661.63	660.88	660.67	660.90	661.64	662.73	661.37
15	661.39	662.88	664.61	675.87	662.09	661.59	660.87	660.63	660.91	661.61	662.02	661.58
16	661.37	663.43	664.11	672.85	661.94	661.59	660.89	660.62	661.00	661.61	661.85	661.56
17	661.43	663.85	663.70	668.70	661.85	661.62	660.97	660.62	660.96	661.63	661.35	661.43
18	661.35	664.02	663.39	666.49	661.87	661.60	660.90	660.60	660.92	661.70	661.28	661.43
19	661.55	663.85	663.20	665.34	661.74	661.56	660.84	660.61	660.95	661.72	661.11	661.36
20	661.49	663.44	669.20	664.66	661.62	661.74	660.74	660.55	660.96	661.73	661.29	661.42
21	661.40	663.16	675.21	664.18	661.56	661.73	660.78	660.58	660.97	661.73	661.49	661.44
22	661.35	663.23	676.10	663.79	661.50	661.74	660.71	660.53	660.98	661.85	661.52	661.53
23	661.39	663.20	676.01	663.49	661.45	661.65	660.75	660.56	660.99	662.04	661.54	661.58
24	661.42	663.18	673.39	663.29	661.41	661.67	660.72	660.56	661.00	662.27	661.62	661.48
25	661.46	663.39	669.27	663.17	661.38	661.73	660.74	660.59	661.03	661.77	661.65	661.37
26	661.53	663.22	666.93	663.03	661.48	661.55	660.80	660.61	661.06	661.32	661.68	661.33
27	661.59	663.02	665.73	662.80	661.57	661.62	660.88	660.58	661.08	661.21	661.71	661.26
28	661.61	662.83	664.96	662.56	661.57	661.42	660.91	660.65	661.58	661.16	661.72	661.22
29	661.67	664.74	668.76	666.03	661.46	661.18	660.82	660.69	661.72	661.19	661.74	661.18
30	661.90		675.86	668.40	661.45	661.09	660.77	660.75	661.18	661.31	661.74	661.14
31	661.91		672.24		661.47		660.72	660.89		661.38		661.16
Mean	661.56	664.31	667.21	666.35	662.87	661.56	661.00	660.65	661.12	661.54	661.78	661.52
Max	662.00	673.35	676.10	676.28	669.43	661.78	663.13	660.89	662.25	662.27	663.25	661.91
Min	661.35	662.01	663.20	662.56	661.38	661.09	660.71	660.53	660.82	661.16	661.11	661.14

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WATER TEMPERATURE RECORDS

PERIOD OF RECORD: June 24, 2010 to present.

INSTRUMENTATION: Sutron Monitor 1 in metal gage housing in communication with a KPSI submersible pressure transducer mounted on a fencepost. Water temperature data are collected at hourly intervals.

REMARKS: Records coded FAIR for 2012 calendar year.

Water-Data Report 2012
393619093074801 Yellow Creek nr Mendon MO, Hwy CC on Swan Lake NWR

WATER TEMPERATURE [°C]

Day	January			February			March			April			May			June		
	min	max	mean	min	max	mean	min	max	mean	min	max	mean	min	max	mean	min	max	mean
1	3.94	4.43	4.20	2.98	3.85	3.48	6.72	6.9	6.82	15.4	16.4	15.8	13.6	13.9	13.7	19.4	20.7	20.0
2	2.18	3.94	3.08	3.85	4.38	4.18	6.77	6.9	6.83	16.4	17.6	16.9	13.9	15.2	14.5	18.8	19.4	19.1
3	1.19	2.18	1.56	4.38	4.64	4.56	6.03	6.77	6.42	17.6	18.1	18.0	15.2	16.1	15.8	18.8	19.0	18.9
4	1.04	1.36	1.16	4.62	4.83	4.75	5.38	6.03	5.73	17.2	18.1	17.8	16.1	16.8	16.5	18.9	19.1	19.0
5	1.29	1.67	1.38	4.58	4.80	4.67	4.90	5.41	5.17	15.6	17.2	16.5	16.7	17.4	17.0	19.1	19.8	19.5
6	1.67	2.50	1.96	4.50	4.64	4.58	4.98	5.5	5.16	14.5	15.6	15.0	17.4	18.3	17.9	19.8	20.2	20.1
7	2.48	2.81	2.63	4.33	4.54	4.45	5.5	7.1	6.3	13.6	14.5	14.0	18.3	18.6	18.5	20.0	20.3	20.1
8	2.57	2.87	2.76	4.02	4.33	4.16	7.14	7.9	7.7	12.9	13.6	13.2	18.0	18.4	18.3	20.0	20.2	20.1
9	1.99	2.81	2.41	3.47	4.04	3.79	7.29	7.9	7.63	12.9	13.0	13.0	17.6	18.0	17.9	20.1	20.5	20.4
10	1.82	2.17	2.04	3.26	3.48	3.34	7.32	7.5	7.38	13.0	13.3	13.2	17.2	17.6	17.4	20.5	21.0	20.8
11	1.90	2.15	2.05	2.48	3.31	2.97	7.51	8.0	7.8	13.1	13.4	13.3	17.2	17.3	17.2	21.0	21.4	21.3
12	1.33	2.09	1.76	2.11	2.50	2.25	8.0	8.6	8.2	12.8	13.2	13.1	17.2	17.5	17.4	21.2	21.5	21.4
13	1.14	1.44	1.31	1.89	2.14	1.98	8.6	9.8	9.3	12.3	12.9	12.7	17.0	17.4	17.2	21.0	21.4	21.2
14	1.09	1.50	1.29	1.79	1.91	1.84	9.8	11.1	10.4	11.6	12.3	11.8	17.0	17.2	17.2	20.9	21.1	21.0
15	1.47	1.59	1.51	1.84	1.93	1.90	11.1	12.5	11.8	11.8	13.5	12.6	17.2	17.6	17.5	20.9	21.3	21.2
16	1.47	1.66	1.56	1.90	2.20	2.00	12.5	14.1	13.4	13.5	14.3	14.1	17.5	17.9	17.8	21.2	21.7	21.5
17	1.60	1.72	1.68	2.20	2.88	2.51	14.1	15.3	14.7	14.3	14.5	14.4	17.9	18.2	18.1	21.7	21.9	21.8
18	1.63	1.96	1.82	2.88	3.47	3.24	15.3	15.8	15.6	14.5	14.9	14.6	18.1	18.3	18.2	21.8	22.3	22.1
19	1.58	1.95	1.71	3.47	3.67	3.58	15.8	16.1	15.9	14.9	15.3	15.1	18.2	18.7	18.5	22.3	22.8	22.7
20	1.64	1.78	1.71	3.67	3.85	3.77	15.4	16.2	16.0	15.2	15.5	15.4	18.7	19.0	18.9	22.8	23.2	23.1
21	1.67	1.83	1.72	3.84	4.42	4.06	14.8	15.4	15.1	14.3	15.2	14.8	18.9	19.2	19.1	23.2	23.4	23.3
22	1.81	1.86	1.83	4.42	4.98	4.71	14.4	14.8	14.6	13.7	14.3	14.0	18.7	19.0	18.9	23.1	23.4	23.3
23	1.81	1.91	1.85	4.98	5.7	5.29	14.5	14.7	14.6	13.2	13.7	13.4	18.7	18.8	18.8	22.9	23.3	23.2
24	1.81	1.98	1.89	5.74	6.2	6.05	14.1	14.5	14.4	13.1	13.3	13.2	18.7	19.1	18.9	22.5	22.9	22.7
25	1.92	2.02	1.96	5.61	6.25	5.97	14.2	15.0	14.6	13.2	14.4	13.7	19.1	19.2	19.1	22.6	23.2	23.0
26	1.95	2.04	1.98	5.17	5.6	5.40	15.0	15.8	15.4	14.4	15.9	15.2	19.2	19.6	19.4	23.2	23.6	23.5
27	2.04	2.16	2.11	5.34	5.7	5.56	15.8	16.0	15.9	15.9	16.4	16.3	19.6	20.4	20.1	23.3	23.6	23.4
28	1.97	2.16	2.06	5.71	6.0	5.84	16.0	16.2	16.1	15.3	16.2	15.7	20.4	21.0	20.8	23.3	23.7	23.6
29	1.92	2.06	1.99	6.00	6.8	6.43	15.9	16.5	16.4	14.5	15.6	15.3	21.0	21.2	21.2	23.7	24.3	24.1
30	1.97	2.19	2.05				14.8	15.9	15.1	13.6	14.5	13.9	21.0	21.3	21.2	24.3	24.7	24.6
31	2.19	2.98	2.53				14.9	15.4	15.3				20.7	21.1	21.0			
Monthly Average	1.81	2.19	1.99	3.83	4.25	4.05	11.1	11.8	11.5	14.1	14.9	14.5	17.9	18.4	18.2	21.4	21.8	21.7

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WATER TEMPERATURE [°C]

Day	July			August			September			October			November			December		
	min	max	mean	min	max	mean	min	max	mean	min	max	mean	min	max	mean	min	max	mean
1	24.7	25.0	24.9	25.0	25.4	25.3	22.1	22.4	22.2	15.4	16.8	16.0	7.07	7.74	7.33	3.68	4.93	4.22
2	24.8	25.1	25.0	25.2	25.5	25.4	21.9	22.1	22.0	14.3	16.3	15.3	7.63	8.46	7.93	4.93	5.87	5.38
3	24.9	25.2	25.1	25.1	25.3	25.2	21.9	22.0	22.0	14.2	15.7	14.9	7.80	8.61	8.25	5.86	7.90	6.54
4	25.1	25.4	25.3	25.1	25.2	25.1	22.0	22.5	22.3	15.1	16.0	15.4	7.48	8.65	8.00	7.52	8.14	7.76
5	25.3	25.6	25.5	24.9	25.3	25.1	22.5	23.0	22.8	13.2	15.8	14.3	7.95	8.29	8.12	6.27	8.02	7.06
6	25.5	25.8	25.7	24.6	25.1	24.9	23.0	23.4	23.3	10.7	13.2	11.4	7.71	8.55	7.98	6.43	6.92	6.71
7	25.7	26.0	25.9	24.4	24.7	24.6	23.2	23.4	23.3	8.93	11.2	10.0	7.64	8.55	8.12	6.89	7.48	7.17
8	25.8	26.3	26.1	24.5	24.7	24.6	22.2	23.2	22.8	8.37	10.2	9.2	6.98	8.23	7.49	6.77	7.43	7.12
9	25.1	25.8	25.4	24.1	24.5	24.3	21.3	22.2	21.9	9.1	10.3	9.7	7.47	8.78	7.88	6.47	7.03	6.74
10	24.9	25.2	25.1	23.8	24.2	24.1	20.6	21.3	21.0	8.7	10.7	9.7	8.47	9.6	8.80	3.67	6.53	4.77
11	24.6	24.9	24.8	23.2	23.8	23.6	20.1	20.6	20.4	8.4	9.9	9.3	9.58	11.6	10.4	2.59	4.09	3.07
12	24.6	24.8	24.7	23.0	23.3	23.2	20.1	20.3	20.2	9.7	10.5	10.0	7.53	10.22	8.52	2.15	3.16	2.52
13	24.5	24.8	24.7	22.7	23.1	23.0	19.6	20.4	20.3	10.5	11.7	11.1	5.01	7.53	6.00	1.94	2.85	2.35
14	24.0	24.5	24.3	22.0	22.7	22.4	16.8	19.6	18.6	11.6	14.1	12.6	5.17	5.86	5.45	2.03	2.92	2.45
15	24.1	24.4	24.3	21.7	22.1	21.9	15.3	18.3	16.8	12.0	14.1	12.9	5.84	6.32	6.14	2.85	4.40	3.30
16	24.3	24.7	24.6	21.7	22.3	22.1	16.3	17.9	17.1	12.3	13.3	12.7	5.56	6.62	5.97	4.22	4.92	4.44
17	24.7	25.2	25.0	21.91	22.4	22.3	17.4	19.2	17.9	13.3	14.4	13.7	5.17	6.64	5.92	4.90	5.38	5.07
18	25.2	25.6	25.5	21.40	22.0	21.8	15.0	19.2	16.6	11.7	14.4	12.8	5.47	7.05	6.18	3.70	4.98	4.29
19	25.5	25.9	25.8	21.0	21.4	21.3	14.2	16.8	15.5	10.6	11.7	11.1	6.66	8.37	7.26	3.35	4.33	3.72
20	25.9	26.2	26.0	20.8	21.1	21.0	15.3	17.0	16.3	10.2	11.2	10.7	7.02	8.81	7.73	2.26	3.89	3.29
21	25.6	26.0	25.8	20.9	21.2	21.1	15.6	18.0	16.6	10.7	11.2	10.8	6.57	8.39	7.35	0.80	2.26	1.27
22	25.5	25.8	25.7	21.0	21.4	21.3	15.0	18.1	16.2	11.2	12.0	11.6	7.42	9.15	8.00	0.11	0.83	0.43
23	25.5	25.7	25.6	21.3	21.7	21.6	12.3	16.2	13.8	12.0	12.7	12.4	6.62	9.17	7.77	0.07	0.54	0.29
24	25.6	26.0	25.9	21.6	21.9	21.8	12.1	14.4	13.3	12.7	18.5	16.4	4.10	6.62	4.94	0.03	0.42	0.17
25	25.9	26.3	26.2	21.8	22.1	22.0	13.9	15.9	14.8	16.9	19.1	18.5	4.20	5.70	4.64	0.01	0.52	0.16
26	26.1	26.5	26.3	21.9	22.0	21.9	15.9	17.1	16.4	13.3	16.9	14.7	4.05	5.70	4.74	0.04	0.47	0.21
27	25.8	26.2	26.0	22.0	22.2	22.1	16.3	17.4	16.9	10.2	13.3	11.3	3.32	4.47	3.78	0.04	0.63	0.25
28	25.5	26.0	25.8	22.0	22.2	22.1	15.8	17.9	16.9	8.41	10.7	9.30	3.08	3.75	3.39	0.14	0.47	0.28
29	25.3	25.7	25.5	22.1	22.4	22.3	15.5	17.4	16.4	7.49	9.67	8.25	2.96	3.74	3.28	0.07	0.48	0.25
30	25.3	25.6	25.5	22.3	22.5	22.4	15.1	16.9	15.9	6.46	8.28	7.17	3.11	4.34	3.60	0.05	0.66	0.25
31	25.0	25.4	25.2	22.4	22.6	22.5				6.17	7.62	6.94				0.21	0.47	0.28
Monthly Average	25.2	25.5	25.4	22.7	23.1	23.0	17.9	19.5	18.7	11.1	13.0	11.9	6.15	7.52	6.70	2.90	3.84	3.28

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SUMMARY STATISTICS

	Calendar Year 2012	Period of Record (2010-2012)#
Minimum Unit Value [°C]	0.01 (Dec 25)	-1.40 (Nov 8, 2010)
Maximum Unit Value [°C]	26.5 (Jul 26)	32.9 (Aug 13, 2010)
Median of Daily Mean [°C]	14.6	17.3

#See Period of Record; partial year used in monthly and annual statistics

