Division of Biological Resources
Water Resources Branch

Water-Data Report 2012

411214091070601 LAKE ODESSA AT SCHAFER LANDING NR WAPELLO IOWA

LOCATION: Lat. 41° 12 ’14” W Long. 91° 7’ 6” near Wapello, Iowa. Wapello County. Schafer Landing near Port Louisa National Wildlife Refuge.

MAXIMUM SURFACE AREA: NA

PERIOD OF RECORD: Datalogger installed November 2011. Regional Office data analysis starts 2012.

GAGE SITE: Design Analysis data logger in a metal gage housing mounted to fence posts. Data logger is in communication with a KPSI transducer mounted to fence post in lake-bottom. Instruments are powered by a 12V battery run to a solar panel, which is mounted to the antenna mast. Weekly gage data available online, NWS ID ODSI4.

COOPERATION: Port Louisa National Wildlife Refuge and Iowa Department of Natural Resources

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SURFACE WATER RECORDS

REMARKS: Stage records coded POOR for 2012 calendar year. Gage maintained by USFWS and Refuge staff.

GAGE HEIGHT, FEET
CALENDAR YEAR 2012
DAILY MEAN VALUES

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	534.20	534.26	534.20	534.44	534.60	534.13	534.56	532.87	533.32	534.36	535.67	535.92
2	534.23	534.27	534.16	534.46	534.70	534.16	534.63	532.84	533.38	534.39	535.69	535.93
3	534.33	534.26	534.14	534.44	534.76	534.18	534.63	532.83	533.43	534.44	535.69	535.96
4	534.29	534.27	534.17	534.43	535.12	534.20	534.62	532.88	533.46	534.46	535.69	535.97
5	534.26	534.27	534.21	534.41	535.22	534.20	534.61	533.06	533.50	534.49	535.70	535.98
6	534.25	534.25	534.29	534.40	535.27	534.20	534.61	533.17	533.51	534.51	535.71	535.99
7	534.25	534.23	534.27	534.39	535.42	534.20	534.62	533.20	533.60	534.57	535.71	535.99
8	534.24	534.21	534.18	534.39	535.43	534.21	534.60	533.13	533.59	534.65	535.75	535.99
9	534.24	534.19	534.20	534.34	535.42	534.21	534.60	533.09	533.61	534.69	535.75	535.96
10	534.24	534.18	534.21	534.32	535.42	534.22	534.62	533.09	533.64	534.74	535.80	535.88
11	534.21	534.17	534.21	534.34	535.41	534.20	534.55	533.10	533.67	534.81	535.83	535.82
12	534.15	534.18	534.23	534.36	535.39	534.18	534.34	533.11	533.68	534.87	535.85	535.77
13	534.27	534.21	534.25	534.39	535.38	534.20	534.14	533.23	533.68	534.99	535.86	535.70
14	534.28	534.23	534.27	534.33	535.37	534.21	534.00	533.18	533.76	535.11	535.87	535.64
15	534.29	534.23	534.26	534.37	535.37	534.21	533.86	533.16	533.82	535.18	535.88	535.63
16	534.30	534.25	534.28	534.28	535.39	534.25	533.72	533.09	533.85	535.25	535.88	535.53
17	534.30	534.25	534.31	534.35	535.41	534.34	533.61	533.07	533.86	535.28	535.90	535.43
18	534.27	534.25	534.32	534.37	535.41	534.35	533.51	533.07	533.91	535.33	535.92	535.31
19	534.26	534.25	534.34	534.41	535.43	534.33	533.42	533.07	533.99	535.35	535.94	535.19
20	534.26	534.28	534.31	534.37	535.40	534.28	533.37	533.08	533.98	535.40	535.95	535.02
21	534.26	534.28	534.28	534.42	535.38	534.19	533.30	533.08	534.03	535.46	535.97	535.04
22	534.25	534.27	534.28	534.44	535.40	534.15	533.25	533.09	534.02	535.51	535.98	534.92
23	534.26	534.29	534.29	534.43	535.42	534.15	533.20	533.06	534.07	535.55	535.91	534.82
24	534.24	534.27	534.29	534.48	535.33	534.17	533.18	533.05	534.11	535.58	535.96	534.74
25	534.23	534.27	534.29	534.49	534.99	534.19	533.12	533.05	534.14	535.56	535.97	534.65
26	534.22	534.31	534.37	534.48	534.72	534.20	533.04	533.09	534.18	535.54	535.97	534.55
27	534.22	534.23	534.42	534.49	534.46	534.21	532.96	533.14	534.22	535.56	535.95	534.47
28	534.22	534.27	534.37	534.47	534.24	534.15	532.95	533.15	534.25	535.58	535.93	534.40
29	534.23	534.22	534.42	534.48	534.02	534.12	532.97	533.20	534.29	535.62	535.92	534.35
30	534.24	---	534.40	534.53	533.99	534.42	532.93	533.21	534.33	535.62	535.92	534.31
31	534.25	---	534.43	---	534.09	---	532.89	533.24	---	535.64	535.92	534.31
Mean	534.25	534.24	534.28	534.41	535.08	534.21	533.82	533.09	533.83	535.10	535.85	535.33
Max	534.33	534.31	534.43	534.53	535.43	534.42	534.63	533.24	534.33	535.64	535.98	535.99
Min	534.15	534.17	534.14	534.28	533.99	534.12	532.89	532.83	533.32	534.36	535.67	534.31

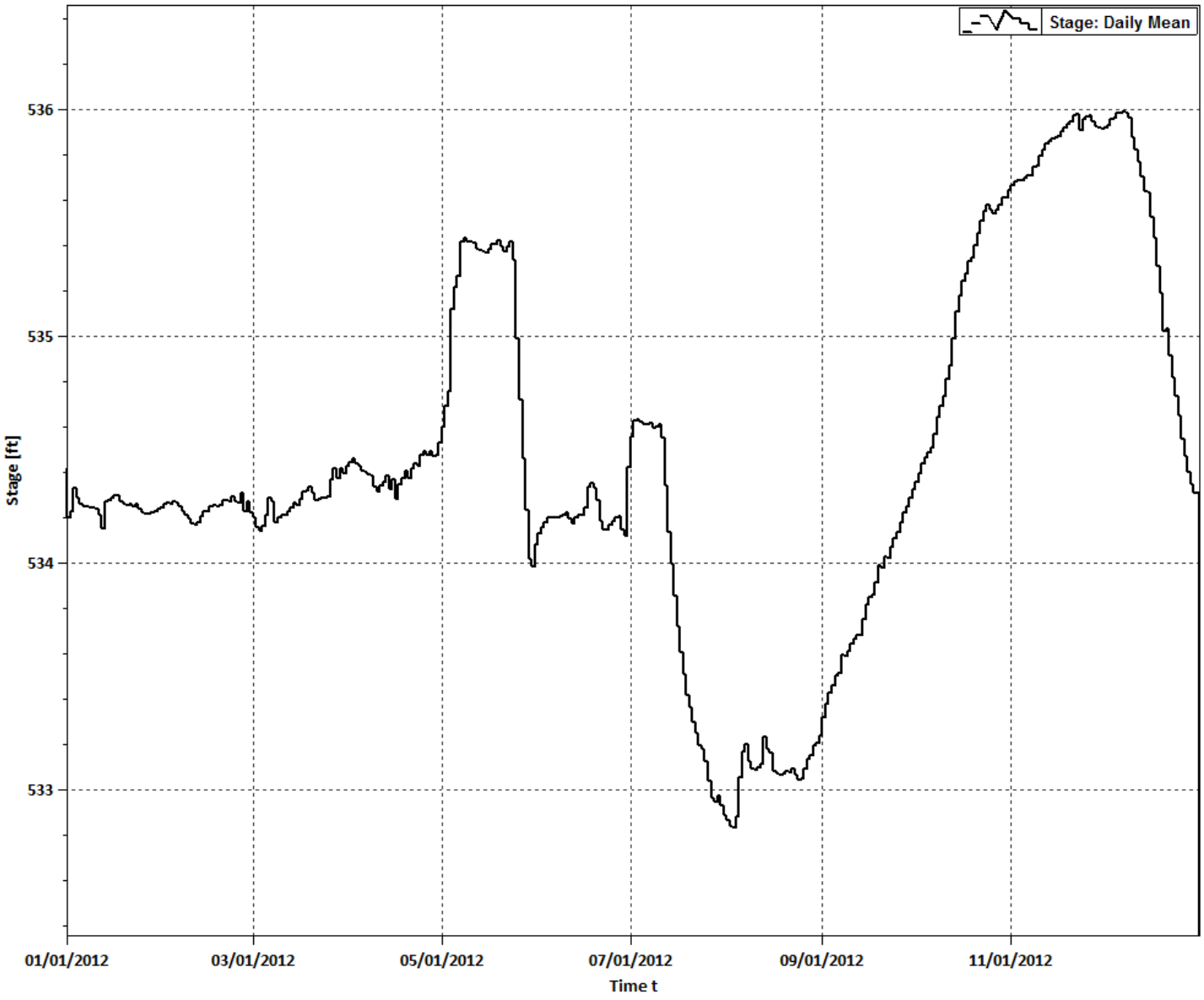
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Summary Statistics

	Calendar Year 2012	Period of Record 2011-2012
Annual Mean	534.46	534.59
Maximum Peak Stage	536.02 (Nov 22)	536.33 (Nov 11, 2011)
Minimum Stage	532.80 (Aug 3)	532.80 (Aug 3, 2012)
Maximum Daily Value	535.99 (Dec 6 – 8)	536.28 (Nov 11, 2011)
Minimum Daily Value	532.83 (Aug 3)	532.83 (Aug 3, 2012)

Gage Height
Daily Mean



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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	1.8	4.8	3.6	2.4	3.4	2.9	4.3	7.6	5.8	14.8	21.5	17.8	12.6	14.7	13.4	15.4	19.5	17.5
2	-0.1	1.8	0.4	3.1	3.7	3.4	3.3	6.3	4.7	16.2	21.0	18.7	14.7	17.4	15.8	17.9	20.8	19.1
3	0.5	1.9	1.2	3.3	3.7	3.5	2.6	3.4	3.0	18.4	23.7	20.5	17.3	20.0	18.5	18.9	21.7	20.2
4	1.8	2.6	2.2	2.9	3.5	3.3	1.4	3.4	2.5	16.6	20.0	18.3	19.4	21.6	20.3	20.6	23.1	21.8
5	2.5	3.3	2.9	2.9	3.5	3.2	0.9	4.7	3.0	14.2	17.5	15.9	20.3	24.3	22.2	21.8	24.7	23.0
6	3.3	4.2	3.8	3.2	3.6	3.4	2.2	9.1	5.5	12.2	17.2	14.9	21.6	25.2	23.1	22.3	25.6	23.9
7	3.6	4.8	4.2	2.1	3.2	2.7	8.1	11.0	9.5	13.5	15.3	14.5	21.4	24.3	22.2	23.7	26.3	24.7
8	3.9	4.5	4.2	2.0	2.6	2.3	7.0	10.1	8.3	12.5	17.5	14.8	20.3	22.4	21.3	24.4	27.0	25.7
9	3.6	4.0	3.8	2.4	3.1	2.6	4.9	9.2	7.1	13.1	16.5	14.8	19.1	20.6	20.0	24.9	27.7	26.4
10	3.4	4.2	3.9	2.0	2.5	2.3	5.5	10.3	7.9	11.5	14.6	13.0	18.5	21.4	19.5	24.7	27.7	26.3
11	1.9	4.5	4.0	1.8	2.5	2.2	7.4	11.3	9.5	10.3	14.4	12.4	20.6	22.4	21.5	24.5	26.9	25.7
12	0.1	1.9	0.4	2.2	3.0	2.6	10.7	13.9	11.9	12.0	16.0	14.1	20.4	22.1	21.0	22.6	24.9	23.8
13	0.4	1.5	1.0	1.9	2.7	2.2	10.9	15.1	12.9	12.6	14.8	13.5	19.7	22.9	21.1	21.8	24.4	23.0
14	1.2	1.7	1.6	1.5	1.9	1.7	13.5	18.5	16.0	12.2	14.9	13.3	20.5	21.5	20.8	21.5	25.7	23.6
15	1.2	1.8	1.5	1.6	2.4	1.9	16.5	19.8	18.0	14.9	17.6	16.3	20.2	21.6	20.7	22.8	26.8	24.7
16	1.3	1.8	1.6	2.1	3.2	2.5	17.9	21.8	19.7	14.6	16.9	15.7	20.4	23.0	21.5	24.6	27.1	25.8
17	1.3	1.6	1.4	3.0	4.0	3.5	18.3	21.7	20.0	13.8	18.2	15.7	20.6	22.4	21.5	24.0	27.8	25.7
18	1.2	1.7	1.5	3.8	4.7	4.2	18.0	21.4	19.7	15.5	20.2	17.8	20.5	22.7	21.5	25.8	29.4	27.6
19	1.1	1.5	1.3	4.1	4.9	4.4	18.6	22.0	20.2	17.7	19.3	18.5	21.8	24.0	22.8	26.7	29.9	28.3
20	0.9	1.4	1.1	1.4	4.7	3.8	18.7	21.8	20.2	12.9	18.1	14.9	22.5	24.7	23.5	26.3	29.9	28.1
21	0.9	1.1	1.0	1.3	3.0	1.9	18.8	21.4	20.0	11.7	17.4	14.0	20.5	22.5	21.6	26.4	28.8	27.6
22	0.8	1.1	1.0	3.0	5.3	4.0	18.2	20.3	19.4	13.3	16.6	14.9	20.9	23.7	22.0	24.9	29.5	27.1
23	0.4	1.0	0.7	2.1	4.5	3.5	17.0	20.4	18.5	12.9	16.2	14.5	22.0	23.7	22.9	25.1	27.1	26.2
24	0.3	1.6	0.8	2.6	3.9	3.2	17.2	18.9	18.1	13.5	18.1	15.6	21.1	23.6	22.5	23.4	28.1	25.7
25	1.2	1.7	1.5	0.8	3.3	2.2	16.4	21.5	18.6	15.5	18.7	17.3	21.9	23.5	22.8	24.8	29.0	26.7
26	1.2	1.6	1.4	0.5	5.5	2.9	14.9	19.9	17.5	17.4	21.3	19.0	22.0	25.5	23.6	23.2	27.9	25.5
27	1.1	1.6	1.4	1.7	5.1	3.5	12.6	16.2	14.5	14.1	18.3	16.2	24.7	27.9	26.3	23.1	28.1	25.7
28	1.0	1.5	1.2	2.9	5.0	3.9	14.2	17.8	16.0	12.9	14.3	13.6	24.4	27.9	26.3	26.0	31.4	28.7
29	0.9	1.2	1.1	4.6	7.0	5.7	13.9	15.9	15.2	12.0	12.9	12.4	23.5	26.7	24.9	27.6	31.4	29.4
30	0.9	1.7	1.3				13.1	15.2	14.2	12.3	13.7	12.9	21.7	24.3	23.0	25.9	30.3	27.9
31	1.6	2.4	2.0				13.0	16.6	14.8				16.2	22.7	19.3			
Monthly Average	1.4	2.3	1.9	2.4	3.8	3.1	11.6	15.1	13.3	13.8	17.4	15.5	20.4	22.9	21.5	23.5	27.0	25.2

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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	27.5	29.6	28.6	25.3	36.6	30.4	22.5	26.2	24.1	17.3	19.7	18.5	7.2	9.3	8.1	4.3	6.1	4.8
2	27.8	31.3	29.3	25.6	33.8	29.2	21.6	26.8	24.1	17.0	20.3	18.6	7.4	8.7	8.1	5.9	6.6	6.2
3	29.2	32.4	30.6	24.8	35.3	29.8	24.3	30.3	27.3	17.4	20.4	18.6	7.6	8.7	8.1	6.5	9.2	7.8
4	30.1	32.8	31.3	25.8	30.6	28.0	26.5	33.0	29.3	15.6	18.4	17.5	7.4	8.4	8.0	7.6	8.8	8.2
5	30.4	32.8	31.4	23.0	31.9	27.1	22.7	29.3	26.3	12.1	15.6	13.9	8.0	8.5	8.3	6.2	7.7	6.9
6	30.8	34.3	32.3	22.3	33.5	27.5	23.7	29.7	26.7	10.1	12.1	11.2	7.7	8.3	8.2	5.8	6.4	6.2
7	32.0	34.8	33.4	24.2	34.1	28.9	20.4	26.1	23.6	10.1	12.4	11.0	7.3	7.8	7.6	6.0	6.4	6.3
8	30.4	33.4	32.0	25.5	29.6	27.3	17.8	23.0	20.4	10.8	13.3	12.2	7.4	8.8	8.1	5.7	6.4	6.0
9	29.6	34.5	31.7	22.4	29.6	25.7	17.8	24.5	21.0	11.5	13.7	12.5	8.1	9.5	8.8	4.8	5.8	5.5
10	28.8	31.6	30.2	19.2	28.8	23.5	20.2	25.2	22.3	9.8	11.9	11.1	9.5	11.6	10.6	3.5	4.8	3.9
11	27.1	31.4	29.3	20.0	30.8	25.3	19.8	25.4	22.5	10.5	14.0	12.2	9.8	12.1	11.5	2.4	3.7	3.0
12	27.4	32.6	29.8	21.1	24.9	23.0	20.9	26.9	23.7	11.3	12.9	12.3	7.6	9.8	8.6	2.0	3.3	2.8
13	27.5	30.3	29.2	19.4	23.1	21.5	16.5	23.5	19.1	12.4	13.7	12.9	6.6	7.6	7.2	2.2	3.5	2.9
14	26.3	31.9	29.1	19.3	29.3	24.2	15.4	20.7	17.9	13.1	14.4	13.9	6.1	7.2	6.7	3.3	4.3	3.8
15	28.2	33.7	31.0	22.1	31.4	26.1	17.3	22.7	20.1	12.0	15.0	13.3	6.5	7.4	7.0	3.8	5.2	4.5
16	29.0	34.9	31.9	20.5	25.5	23.4	19.1	23.2	21.3	12.9	15.2	14.1	6.4	7.2	6.9	4.7	5.3	5.0
17	29.3	35.2	32.2	18.0	29.5	23.2	18.6	23.8	21.2	13.7	14.7	14.5	6.4	7.8	7.2	4.1	4.7	4.3
18	29.6	36.0	32.6	20.3	29.0	24.3	16.2	19.3	18.0	11.9	13.7	12.8	6.9	7.8	7.4	3.5	4.3	3.9
19	26.9	33.5	30.5	20.6	27.9	24.3	15.4	19.8	17.6	11.3	12.2	11.8	7.5	8.4	7.9	3.3	3.7	3.5
20	24.1	30.7	27.0	19.5	30.1	24.4	16.4	19.9	18.2	11.2	12.4	11.7	7.6	8.4	8.0	0.0	3.7	2.2
21	25.5	31.7	28.5	20.3	30.9	25.1	16.1	18.1	17.0	10.9	13.5	12.2	7.8	8.8	8.3	-0.2	1.1	0.5
22	26.0	32.4	28.7	20.6	30.6	25.6	14.3	16.9	15.9	13.4	14.6	14.0	8.2	9.2	8.7	1.1	2.2	1.7
23	25.9	34.8	30.0	22.0	32.9	27.0	13.6	17.4	15.5	14.5	16.3	15.4	5.3	8.5	6.7	2.2	3.3	2.8
24	28.0	34.4	30.7	22.5	32.2	26.8	13.7	17.4	15.8	16.1	18.5	17.3	4.0	5.3	4.5	2.9	3.3	3.1
25	26.5	35.8	30.6	22.3	29.1	25.7	16.0	20.1	18.2	14.4	18.3	17.1	3.5	4.5	4.0	3.0	3.6	3.2
26	26.2	34.1	29.0	22.6	24.9	23.9	17.9	20.5	19.3	11.2	14.4	12.9	2.5	3.8	3.3	3.0	3.4	3.2
27	24.2	33.0	27.8	21.6	32.6	26.2	16.7	20.0	18.3	9.6	11.2	10.3	2.3	3.4	2.8	3.0	3.7	3.4
28	23.5	30.8	26.6	23.6	33.1	27.9	16.4	19.6	18.0	8.5	9.7	9.2	3.4	3.9	3.7	3.1	3.4	3.3
29	23.0	32.3	27.2	24.9	32.1	28.2	16.5	20.1	18.4	7.9	10.3	9.1	3.9	4.4	4.1	2.9	3.3	3.1
30	24.4	35.7	29.5	23.4	32.1	27.4	17.2	20.6	18.9	8.2	9.6	9.0	4.2	4.7	4.5	3.0	3.7	3.3
31	26.6	36.3	30.4	23.6	28.5	26.5				7.3	8.9	8.1				3.0	3.4	3.2
Monthly Average	27.5	33.2	30.1	22.1	30.5	26.0	18.4	23.0	20.7	12.0	14.2	13.2	6.5	7.7	7.1	3.6	4.7	4.1

WATER TEMPERATURE
SUMMARY STATISTICS

	Calendar Year 2012	Period of Record (2011 – 2012)
Minimum Unit Value [°C]	-0.2 (Dec 21)	-0.2 (Dec 21, 2012)
Maximum Unit Value [°C]	36.6 (Aug 1)	36.6 (Aug 1, 2012)
Median of Daily Mean [°C]	15.7	13.3

WATER TEMPERATURE
DAILY MEAN

