Lake Lacawac, Bruce R. Hargreaves, Lehigh University (brh0@lehigh.edu, http://www.lehigh.edu/~brh0)
Station moved to lake center from shallow water (ca. 2.5m max) at dock on 5 May 2006
The water level sensor (referenced to dock) settles for several days after moving platform to lake center and thus underestimates water level during this period.
Adjusted Tw sensors in October based on uniform mixing pattern and PUV profile

H310 sensor depth & Lake level are based on differential pressure
sensor with ca 0.1mm resolution & vertical position referenced to bottom of lake.
Sensor PSIG converted to depth using density of water at $4^{o}C$ (1.43321 psi/m)
Lake level is referenced also to lower frame of dock at SE corner (2003-May2005)
(Actual water level at dock varies seasonally with density of water column and hourly from
precip, runoff, evaporation, seepage & outflow. Outflow also varies with status of beaver (

5280	ft/mile
1609	m/mile

	Tair avg F	Tair max F	Tair min F		Rain-in	WS-mph	WS max mph					Tw 0.1m F	Tw 0.5m F	Tw 1m F	Tw 2m F	Tw 3m F	Tw 4m F	Tw 5m F	Tw 6m F	Tw 8m F	Tw 10m F	Tw 12m F						
	56.8	86.3	36.8		3.19	4.0	34					63.2	62.9	62.2	60.5	57.8	53.6	49.2	46.6	45.4	45.2	44.6						
Month summary	Tair avg-C	Tair Hi-C	Tair Min-C	RHair-%	Rain-mm	WS-m/s	WS Max-m/s	WDIR-deg	Barom-mb	Sum Rad W/m2	Sum PAR uM/m2/s	Tw 0.1m	Tw 0.5m	Tw 1m	Tw 2m	Tw 3m	Tw 4m	Tw 5m	Tw 6m	Tw 8m	Tw H310-C	Tw 12m	H310 depth-m (4oC)	Lakelevel-mm (4oC)	cumul. rain-mm	Batt min-V	RH% CR10 enc	RH% MUX enc
	13.8	**30.2**	**2.6**	**73.2**	**80.9**	**1.8**	**15.1**	**179.1**	**960.2**	**666764**	**1380114**	**17.3**	**17.1**	**16.8**	**15.8**	**14.4**	**12.0**	**9.5**	**8.1**	**7.5**	**7.3**	**7.0**	**9.0**	**111.1**	**80.9**	**12.3**	**34.7**	**15.3**

month	(All)

Date	Data: Day of Yr	Tair avg-C	Tair Hi-C	Tair Min-C	RHair-%	Rain-mm	WS-m/s	WS Max-m/s	WDIR-deg	Barom-mb	Sum Rad W/m2	Sum PAR uM/m2/s	Tw 0.1m	Tw 0.5m	Tw 1m	Tw 2m	TW3 m	TW4 m	TW5 m	TW6m	TW8m	TW H310-C	TW12 m	H310 depth-m (4oC)	Lakelevel-mm (4oC)	cumul. rain-mm	Batt min-V	RH% CR10 enc	RH% MUX enc
5/1/2006	121	12.6	20.0	3.5	45.0	0.0	1.6	8.9	62	973.6	31650	63385	15.8	15.8	15.7	14.5	13.8	13.8	13.9	13.7	13.9	14.9	14.0	2.1	112.6	0.0	12.3	36	13
5/2/2006	122	12.5	20.0	2.9	48.7	0.0	1.2	7.9	192	963.5	26299	53483	16.5	16.5	16.3	14.7	14.0	13.9	14.1	13.9	14.1	15.3	14.2	2.1	109.7	0.0	12.3	36	13
5/3/2006	123	12.4	16.5	5.5	70.8	0.0	2.3	11.5	152	960.0	22020	45938	16.4	16.4	16.3	16.0	15.0	15.1	15.4	15.2	15.5	16.2	15.6	2.1	107.9	0.0	12.3	37	12
5/4/2006	124	16.2	24.7	6.8	59.4	0.0	1.1	7.1	208	959.3	26856	54848	17.0	16.9	16.5	15.7	15.0	15.1	15.3	15.2	15.3	16.0	15.4	2.1	104.7	0.0	12.3	37	13
5/5/2006	125	16.5	20.4	13.0	54.9	0.0	1.9	7.4	223	957.6	24796	50930	17.4	17.5	17.5	16.4	14.5	13.3	12.3	11.8	11.7	12.1	11.6	5.6	92.7	0.0	12.3	39	12
5/6/2006	126	11.6	18.8	6.6	65.8	0.0	2.1	10.4	192	958.8	23682	48994	17.5	17.4	17.4	16.8	13.2	10.0	7.6	6.6	6.1	5.8	5.5	10.2	84.2	0.0	12.3	39	12
5/7/2006	127	10.3	17.5	3.3	45.9	0.0	1.2	6.0	161	966.3	29223	58258	17.2	17.1	16.8	16.5	13.4	10.0	7.7	6.7	6.1	5.8	5.6	10.2	83.4	0.0	12.3	35	13
5/8/2006	128	12.6	16.9	7.2	49.8	0.0	1.2	7.6	96	967.7	22234	45621	17.1	17.2	17.2	16.7	13.7	10.2	7.7	6.7	6.1	5.8	5.6	10.2	82.0	0.0	12.3	37	12
5/9/2006	129	12.9	17.8	7.5	52.8	0.0	1.3	7.2	90	964.3	16275	34188	17.0	17.0	17.1	16.9	13.8	10.1	7.8	6.7	6.1	5.8	5.6	10.2	79.8	0.0	12.3	37	12
5/10/2006	130	15.9	21.7	10.4	65.9	0.0	1.5	6.5	126	959.9	29338	62277	18.3	17.8	17.3	16.8	13.8	10.2	7.8	6.7	6.1	5.8	5.6	10.2	78.0	0.0	12.3	39	13
5/11/2006	131	13.2	15.3	11.8	92.1	11.6	3.5	10.5	124	956.9	5322	12165	17.9	18.0	17.6	17.0	14.0	10.2	7.8	6.7	6.1	5.8	5.6	10.2	76.4	11.6	12.3	39	12
5/12/2006	132	15.7	20.7	11.5	80.7	19.1	1.7	9.5	170	953.5	25118	52132	18.0	17.6	17.1	16.8	14.6	10.4	7.9	6.8	6.1	5.8	5.6	10.2	110.3	30.7	12.3	41	23
5/13/2006	133	14.2	19.0	10.4	84.6	0.2	1.7	8.8	107	959.8	17334	35808	18.3	18.4	18.1	16.9	14.8	10.5	8.0	6.8	6.1	5.8	5.6	10.2	112.3	30.9	12.4	41	14
5/14/2006	134	10.2	12.4	7.7	91.8	0.0	2.3	6.1	103	963.8	9150	19606	17.3	17.4	17.5	17.3	14.8	10.5	8.0	6.9	6.2	5.9	5.6	10.2	111.2	30.9	12.3	41	13
5/15/2006	135	9.5	11.6	7.4	97.3	8.5	1.9	6.3	97	960.6	3678	8547	16.2	16.3	16.3	16.3	14.9	10.6	8.0	6.9	6.2	5.8	5.6	10.2	114.7	39.4	12.3	40	13
5/16/2006	136	11.1	14.1	8.7	90.4	0.8	1.2	7.0	208	952.9	11549	23957	15.8	15.8	15.8	15.8	14.9	10.6	8.1	6.9	6.1	5.8	5.6	10.3	121.1	40.2	12.3	42	14
5/17/2006	137	13.4	18.4	9.2	78.0	0.2	2.1	8.4	247	949.4	21101	43255	15.9	16.0	16.0	15.7	14.9	10.8	8.1	6.9	6.1	5.8	5.6	10.3	120.8	40.4	12.3	42	14
5/18/2006	138	13.1	19.0	9.0	84.2	2.8	1.4	8.7	186	947.4	18956	38417	16.4	16.4	16.4	16.1	15.1	10.9	8.2	7.0	6.2	5.9	5.6	10.3	120.0	43.2	12.4	42	14
5/19/2006	139	8.8	11.1	7.4	94.4	8.2	1.5	6.5	224	949.6	10694	22400	16.0	16.1	16.2	16.1	15.0	11.0	8.2	7.0	6.2	5.9	5.6	10.3	126.2	51.4	12.3	42	23
5/20/2006	140	10.6	14.6	7.9	79.0	1.1	2.6	8.8	271	952.4	20871	42951	15.6	15.7	15.7	15.6	14.9	11.2	8.3	7.0	6.2	5.9	5.6	10.3	129.9	52.5	12.3	42	18
5/21/2006	141	9.5	13.8	5.7	68.9	0.3	3.5	13.2	279	953.5	16323	33652	15.0	15.1	15.1	15.1	14.9	11.6	8.3	7.0	6.2	5.9	5.7	10.3	128.3	52.8	12.3	41	15
5/22/2006	142	7.1	10.4	4.0	73.0	0.0	4.1	10.5	323	960.2	22532	46338	14.1	14.2	14.3	14.3	14.2	12.8	8.6	7.1	6.2	5.9	5.6	10.3	124.6	52.8	12.3	41	14
5/23/2006	143	9.1	14.5	2.6	64.0	0.0	3.6	12.4	315	963.9	29335	60058	13.9	14.0	14.0	14.0	13.9	13.2	9.1	7.1	6.2	5.9	5.7	10.3	120.5	52.8	12.3	41	14
5/24/2006	144	12.9	19.5	7.6	60.2	0.0	2.1	9.1	241	964.1	33267	68211	14.6	14.7	14.6	14.4	13.9	13.3	9.6	7.1	6.2	5.9	5.7	10.2	116.9	52.8	12.3	42	15
5/25/2006	145	14.5	21.3	6.2	72.0	0.0	0.7	5.8	109	960.1	14113	29723	15.5	15.4	15.3	14.8	14.1	13.4	9.7	7.2	6.2	5.9	5.7	10.2	114.1	52.8	12.3	42	14
5/26/2006	146	16.8	21.7	11.7	91.5	12.8	0.6	7.3	123	953.4	13330	28479	16.5	16.1	15.7	15.0	14.1	13.3	9.8	7.2	6.3	5.9	5.7	10.3	121.7	65.6	12.3	35	19
5/27/2006	147	18.5	22.7	13.8	86.9	0.2	2.1	7.9	238	958.6	19264	40459	17.7	17.5	17.2	15.1	14.2	13.2	10.0	7.4	6.3	5.9	5.7	10.3	129.4	65.8	12.3	13	19
5/28/2006	148	18.4	27.5	10.0	77.7	0.1	0.4	4.2	169	968.7	31571	65242	20.6	18.4	17.9	15.4	14.3	13.2	10.0	7.4	6.3	5.9	5.7	10.3	127.4	65.9	12.3	10	18
5/29/2006	149	22.4	29.4	14.4	75.5	0.0	1.5	7.2	241	968.3	30126	63294	21.7	21.1	18.8	15.6	14.4	13.2	10.1	7.4	6.3	5.9	5.7	10.3	124.2	65.9	12.3	10	18
5/30/2006	150	22.9	30.2	17.2	82.7	14.9	0.8	15.1	103	968.9	29282	61480	24.7	23.2	20.1	15.9	14.5	13.2	10.1	7.5	6.3	5.9	5.7	10.3	123.3	80.8	12.3	9	21
5/31/2006	151	22.3	27.3	16.8	84.1	0.1	1.0	7.1	172	969.3	31472	66017	25.2	24.3	21.6	16.3	14.6	13.2	10.2	7.7	6.4	6.0	5.7	10.3	135.7	80.9	12.3	10	23