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°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						
	58.4	78.1	37.7		4.74	2.9	25					66.0	66.0	65.9	65.6	65.2	64.6	58.9	50.9	45.8	44.1	43.5						
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	Tw10.1m	Tw11.4m	H310_z (m)	Lakelevel-mm (4oC)	cumul. rain-mm	Batt min-V	RH% CR10 enc	RH% MUX enc
	14.7	**25.6**	**3.2**	**88.8**	**120.4**	**1.3**	**11.3**	**162.6**	**964.7**	**402515**	**838588**	**18.9**	**18.9**	**18.8**	**18.6**	**18.4**	**18.1**	**15.0**	**10.5**	**7.6**	**6.7**	**6.4**	**10.1**	**0.0**	**120.4**	**12.2**	**16.4**	**23.2**

month (All)

Data

Date	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	TW3m	TW4m	TW5m	TW6m	TW8m	TW H310-Cm	TW12m	H310 depth-m (4oC)	Lakelevel-mm (4oC)	cumul. rain-mm	Batt min-V	RH% CR10 enc	RH% MUX enc
9/1/2006	244	14.4	16.8	11.4	88.5	2.7	2.1	8.4	81	972.3	9406	19925	20.8	20.9	20.9	20.9	20.9	18.8	13.0	9.8	7.5	6.6	6.3	10.1	-36.5	2.7	12.4	12	17
9/2/2006	245	13.3	14.6	11.2	97.4	23.3	3.9	11.0	90	966.9	3504	8253	19.5	19.6	19.6	19.6	19.6	19.5	13.2	9.8	7.5	6.6	6.3	10.1	-23.7	26.0	12.3	12	17
9/3/2006	246	14.9	16.4	13.4	95.6	3.0	1.3	5.5	176	965.7	6386	13816	18.7	18.8	18.8	18.8	18.8	18.6	13.7	9.9	7.5	6.6	6.3	10.1	-4.4	29.0	12.3	14	19
9/4/2006	247	15.5	19.1	13.0	89.3	0.0	1.2	7.7	172	966.9	16120	34052	18.7	18.8	18.8	18.8	18.6	18.5	14.1	9.9	7.5	6.6	6.3	10.1	-1.3	29.0	12.3	15	19
9/5/2006	248	14.3	15.6	12.9	99.2	2.4	0.2	2.8	46	966.3	4125	9417	18.6	18.7	18.8	18.8	18.6	18.4	14.3	10.0	7.5	6.6	6.3	10.1	-0.1	31.4	12.3	13	18
9/6/2006	249	15.7	19.7	13.3	92.9	0.1	1.0	5.8	240	964.3	14951	31340	18.7	18.8	18.8	18.6	18.5	18.3	14.5	10.0	7.5	6.6	6.3	10.1	2.0	31.5	12.3	16	20
9/7/2006	250	16.1	22.7	10.8	90.2	0.1	0.2	4.5	120	967.3	20556	43293	19.8	19.2	18.9	18.7	18.5	18.3	14.6	10.1	7.5	6.6	6.3	10.1	1.0	31.6	12.4	16	20
9/8/2006	251	18.1	24.7	12.2	82.1	0.1	0.5	5.6	161	967.1	23677	48300	20.2	20.1	19.4	18.9	18.6	18.3	14.7	10.1	7.6	6.7	6.3	10.1	-1.1	31.7	12.4	17	20
9/9/2006	252	17.8	24.6	14.6	88.5	6.9	1.1	7.5	206	966.2	17987	36594	20.5	20.5	20.3	19.2	18.7	18.3	14.8	10.1	7.6	6.7	6.3	10.1	-6.9	38.6	12.4	16	20
9/10/2006	253	14.7	18.2	10.9	89.4	0.1	0.9	5.4	132	970.6	12875	26874	20.1	20.2	20.3	19.5	18.8	18.3	14.7	10.2	7.6	6.7	6.4	10.1	-8.5	38.7	12.3	15	22
9/11/2006	254	12.4	17.0	8.8	81.6	0.0	0.9	5.8	69	974.9	22651	46609	19.8	19.9	19.8	19.5	18.9	18.2	14.8	10.2	7.6	6.7	6.4	10.1	-15.1	38.7	12.3	15	20
9/12/2006	255	11.9	17.6	6.4	78.2	0.1	0.7	5.8	115	972.3	23374	48166	19.6	19.7	19.7	19.4	19.0	18.2	14.8	10.3	7.6	6.7	6.4	10.1	-20.4	38.8	12.3	15	19
9/13/2006	256	13.1	14.8	11.5	88.0	0.7	1.6	6.5	198	965.8	5732	12573	18.9	19.1	19.1	19.1	18.9	18.2	14.8	10.3	7.6	6.7	6.4	10.1	-24.0	39.5	12.3	13	19
9/14/2006	257	16.0	17.6	14.5	99.1	35.3	0.9	4.6	160	963.5	3766	8807	18.5	18.6	18.7	18.6	18.6	18.3	14.9	10.4	7.6	6.7	6.4	10.1	-10.4	74.8	12.3	15	23
9/15/2006	258	16.4	17.2	16.0	100.2	11.0	1.5	6.0	58	966.0	4733	10747	18.4	18.5	18.7	18.6	18.5	18.3	15.0	10.5	7.6	6.7	6.4	10.2	23.9	85.8	12.3	17	26
9/16/2006	259	17.4	21.7	15.4	95.7	0.7	0.7	4.0	106	968.4	12992	27656	19.2	18.8	18.7	18.6	18.4	18.3	15.1	10.6	7.6	6.7	6.4	10.2	39.3	86.5	12.3	20	27
9/17/2006	260	16.7	23.1	12.6	93.8	0.1	0.4	5.3	155	964.6	19203	39649	19.7	19.5	19.1	18.8	18.5	18.2	15.2	10.7	7.7	6.7	6.4	10.2	43.0	86.6	12.3	20	26
9/18/2006	261	19.1	25.6	13.2	85.3	0.2	0.9	6.2	151	960.9	21907	45276	20.2	20.1	19.6	19.0	18.6	18.3	15.2	10.8	7.7	6.7	6.4	10.2	41.5	86.8	12.3	20	25
9/19/2006	262	17.7	20.5	13.5	94.9	3.8	0.8	5.6	200	956.3	4619	10263	20.0	20.0	20.0	19.2	18.7	18.2	15.2	10.8	7.7	6.8	6.4	10.2	31.0	90.6	12.3	18	26
9/20/2006	263	12.2	15.2	9.4	89.4	0.4	1.4	8.0	234	956.9	14589	29943	19.1	19.2	19.3	19.2	18.8	18.2	15.2	10.9	7.8	6.8	6.4	10.2	27.8	91.0	12.3	17	23
9/21/2006	264	10.5	15.7	6.6	80.6	0.1	1.5	7.3	240	965.7	18106	36564	18.4	18.5	18.5	18.5	18.4	18.1	15.2	10.8	7.7	6.7	6.4	10.1	14.2	91.1	12.3	16	21
9/22/2006	265	11.6	17.3	5.1	83.9	0.1	1.2	8.3	149	968.9	17968	36736	18.0	18.1	18.1	18.1	17.9	17.9	15.3	10.8	7.7	6.7	6.4	10.1	4.0	91.2	12.3	16	22
9/23/2006	266	17.0	20.1	13.4	93.3	0.9	1.9	7.2	215	960.7	5289	11904	17.9	17.9	17.9	17.9	17.8	17.8	15.4	10.9	7.7	6.8	6.5	10.1	-2.0	92.1	12.3	18	27
9/24/2006	267	19.7	22.4	15.0	84.3	0.4	2.3	10.8	243	954.0	10780	23292	18.1	18.1	18.2	18.1	17.9	17.8	15.4	10.9	7.7	6.8	6.5	10.1	-5.5	92.5	12.3	21	29
9/25/2006	268	14.4	17.6	11.9	75.4	0.0	1.8	9.1	269	958.4	18280	37317	18.0	18.1	18.1	18.1	18.0	17.8	15.5	11.0	7.8	6.8	6.5	10.1	-10.2	92.5	12.3	19	25
9/26/2006	269	12.3	17.0	8.0	77.6	0.0	1.2	7.7	186	963.4	19209	39072	17.8	17.9	18.0	17.9	17.7	17.7	15.8	11.0	7.8	6.8	6.5	10.1	-15.0	92.5	12.3	17	23
9/27/2006	270	12.9	19.2	6.3	83.5	0.1	1.0	6.0	121	963.7	14851	30326	17.7	17.7	17.7	17.6	17.5	17.4	16.0	11.0	7.8	6.8	6.5	10.1	-19.2	92.6	12.3	17	24
9/28/2006	271	15.4	19.1	12.6	88.2	21.7	2.5	11.3	190	957.7	13176	26944	17.4	17.5	17.5	17.5	17.4	17.3	16.0	11.1	7.8	6.8	6.5	10.1	-20.4	114.3	12.3	18	28
9/29/2006	272	10.0	13.8	6.6	88.1	5.1	2.2	9.2	246	957.9	13968	28563	17.1	17.2	17.3	17.3	17.2	17.3	16.2	11.2	7.8	6.8	6.5	10.1	1.1	119.4	12.2	17	41
9/30/2006	273	8.7	11.9	3.2	91.3	1.0	1.2	6.2	152	966.7	7737	16318	16.5	16.6	16.6	16.6	16.6	16.6	16.1	11.3	7.8	6.8	6.5	10.1	-2.9	120.4	12.2	15	28