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						
	64.7	86.9	44.3		11.10	3.6	27					71.6	71.5	70.5	65.9	61.0	56.2	50.8	46.7	43.9	43.0	42.5						
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	Tw10.3 m	Tw11. 6m	H310_z (m)	Lakelevel-mm (4oC)	cumul. rain-mm	Batt min-V	RH% CR10 enc	RH% MUX enc
	18.1	**30.5**	**6.8**	**84.8**	**282.0**	**1.6**	**12.0**	**207.3**	**963.2**	**575218**	**1206521**	**22.0**	**22.0**	**21.4**	**18.8**	**16.1**	**13.4**	**10.4**	**8.1**	**6.6**	**6.1**	**5.8**	**10.3**	**119.9**	**282.0**	**12.3**	**10.6**	**26.2**

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	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
6/1/2006	152	22.4	28.0	19.2	88.8	4.2	1.1	6.3	208	964.7	22653	46929	26.0	25.8	22.5	16.6	14.6	13.1	10.2	7.7	6.4	6.0	5.7	10.3	133.4	4.2	12.3	9	21
6/2/2006	153	19.2	20.5	16.6	94.5	0.7	1.3	4.3	208	960.9	9601	21199	25.0	25.1	23.1	16.7	14.7	13.1	10.2	7.7	6.4	6.0	5.7	10.3	133.9	4.9	12.3	10	22
6/3/2006	154	15.2	16.9	13.7	97.8	13.9	2.2	7.2	234	955.0	6467	14432	22.7	22.8	22.8	16.9	14.7	13.1	10.2	7.8	6.4	6.0	5.7	10.3	144.2	18.8	12.3	10	30
6/4/2006	155	13.6	16.5	11.4	93.3	2.3	1.4	4.8	164	957.2	14186	29904	21.0	21.1	21.0	17.1	14.7	13.1	10.3	7.8	6.4	6.0	5.7	10.3	149.8	21.1	12.3	10	28
6/5/2006	156	15.5	19.2	11.9	78.1	0.0	1.3	7.2	129	960.7	21592	44294	20.8	20.8	20.8	17.4	14.8	13.1	10.3	7.9	6.4	6.0	5.7	10.3	148.3	21.1	12.3	10	22
6/6/2006	157	16.5	21.1	10.5	80.8	0.0	0.8	5.2	102	963.5	23708	48584	21.3	21.2	21.0	17.7	14.8	13.1	10.3	7.9	6.4	6.0	5.7	10.3	145.5	21.1	12.4	10	21
6/7/2006	158	14.1	16.6	11.9	96.8	16.2	1.9	8.5	157	959.0	6514	14785	20.5	20.6	20.6	18.2	14.9	13.0	10.3	7.9	6.4	6.0	5.8	10.3	150.1	37.3	12.3	10	20
6/8/2006	159	14.4	16.8	12.5	94.7	0.2	1.2	5.2	276	957.5	9504	20510	19.5	19.6	19.6	18.6	14.9	13.0	10.4	8.0	6.4	6.0	5.8	10.3	162.5	37.5	12.3	10	21
6/9/2006	160	15.0	19.4	11.7	87.4	4.3	2.2	10.0	309	956.0	20341	42609	19.6	19.6	19.6	18.6	15.0	13.0	10.4	8.0	6.5	6.0	5.8	10.3	162.3	41.8	12.3	10	23
6/10/2006	161	11.0	14.5	8.6	80.4	0.0	4.4	12.0	316	954.1	18284	38048	18.3	18.4	18.5	18.4	15.1	13.1	10.4	8.0	6.5	6.0	5.8	10.3	158.1	41.8	12.3	11	26
6/11/2006	162	11.4	16.0	6.8	76.0	0.0	3.6	10.4	321	957.4	24078	50302	17.1	17.1	17.2	17.1	16.0	13.1	10.3	8.0	6.5	6.0	5.8	10.2	104.0	41.8	12.4	11	20
6/12/2006	163	14.4	17.4	11.3	82.7	0.0	2.4	7.3	304	962.2	14297	30148	17.2	17.3	17.3	17.2	16.3	13.2	10.3	8.0	6.5	6.0	5.8	10.2	77.9	41.8	12.3	10	21
6/13/2006	164	17.2	23.6	11.8	77.5	0.0	1.2	6.5	205	965.0	30222	63264	19.0	18.3	17.7	17.3	16.4	13.2	10.2	8.0	6.5	6.0	5.8	10.2	74.6	41.8	12.3	10	22
6/14/2006	165	15.6	21.7	11.7	92.4	17.2	0.7	7.6	121	963.8	12460	25735	20.0	19.7	18.7	17.4	16.4	13.3	10.4	8.0	6.5	6.1	5.8	10.2	80.3	59.0	12.4	10	25
6/15/2006	166	17.0	21.9	12.4	72.5	0.4	2.3	11.2	279	963.6	25069	51786	19.1	19.2	19.1	17.8	16.4	13.3	10.4	8.1	6.6	6.1	5.8	10.2	92.1	59.4	12.3	10	25
6/16/2006	167	18.2	24.7	10.7	62.9	0.0	1.2	6.6	216	969.7	31720	65107	20.1	20.0	19.4	18.4	16.3	13.5	10.3	8.1	6.6	6.1	5.8	10.2	88.9	59.4	12.4	10	23
6/17/2006	168	21.4	27.8	14.4	64.3	0.0	0.9	6.2	204	968.8	27318	56848	21.6	21.4	20.4	18.7	16.4	13.5	10.4	8.1	6.6	6.1	5.8	10.2	85.4	59.4	12.3	10	23
6/18/2006	169	24.6	30.5	17.9	70.1	0.0	0.8	5.8	203	966.8	31165	64973	23.9	23.2	21.4	18.9	16.5	13.5	10.3	8.2	6.6	6.2	5.9	10.2	81.9	59.4	12.3	10	24
6/19/2006	170	22.7	28.5	17.7	85.2	1.5	1.0	9.7	167	962.2	21861	45297	25.0	24.8	22.4	19.1	16.6	13.5	10.4	8.2	6.7	6.1	5.9	10.2	78.8	60.9	12.3	10	25
6/20/2006	171	20.2	24.1	17.0	84.3	0.1	1.4	6.0	256	961.7	20593	43571	24.4	24.4	23.3	19.3	16.6	13.5	10.4	8.2	6.7	6.1	5.9	10.2	76.0	61.0	12.3	10	25
6/21/2006	172	19.5	24.9	13.2	72.7	0.0	1.0	6.3	205	967.2	31544	64995	24.2	24.1	23.8	19.6	16.7	13.6	10.4	8.2	6.7	6.1	5.9	10.2	71.6	61.0	12.3	10	24
6/22/2006	173	23.5	27.9	19.2	74.4	0.2	1.4	7.2	225	966.4	25977	54921	24.7	24.7	24.3	19.9	16.8	13.6	10.4	8.3	6.7	6.1	5.9	10.2	66.9	61.2	12.3	10	25
6/23/2006	174	20.2	23.1	17.7	92.1	0.8	1.0	5.0	248	967.0	13051	27887	24.7	24.8	24.7	20.2	16.9	13.7	10.4	8.3	6.7	6.2	5.9	10.2	63.7	62.0	12.3	10	25
6/24/2006	175	19.7	23.3	17.9	96.2	9.0	0.7	3.5	69	967.8	11307	24507	24.2	24.2	24.2	20.4	17.0	13.7	10.5	8.3	6.7	6.1	5.9	10.2	70.9	71.0	12.3	11	32
6/25/2006	176	19.3	20.3	18.4	100.0	49.9	1.0	7.0	91	968.0	4050	9671	23.5	23.6	23.7	20.6	17.0	13.8	10.5	8.3	6.7	6.2	5.9	10.2	86.3	120.9	12.3	11	32
6/26/2006	177	20.9	23.9	19.1	98.0	53.0	2.1	8.0	175	966.7	12742	27995	22.9	22.9	22.9	21.2	17.3	14.1	10.8	8.5	6.8	6.2	5.9	10.3	175.0	173.9	12.3	12	38
6/27/2006	178	21.3	22.5	20.1	97.9	65.5	3.1	10.4	182	967.8	8269	18962	22.7	22.7	22.8	21.5	17.6	14.4	11.0	8.7	6.9	6.2	6.0	10.4	244.7	239.4	12.3	13	38
6/28/2006	179	22.0	26.9	19.7	91.1	40.3	1.2	6.9	184	965.4	22281	47336	23.3	23.2	22.7	21.6	17.8	14.5	11.2	8.8	6.9	6.2	5.9	10.4	277.2	279.7	12.3	14	38
6/29/2006	180	21.6	25.9	16.8	76.9	0.3	1.1	8.4	184	965.2	29966	62011	24.6	24.5	23.1	21.4	17.4	14.0	10.8	8.5	6.8	6.2	5.9	10.3	140.7	280.0	12.3	13	34
6/30/2006	181	16.9	23.8	13.6	83.8	2.0	2.0	8.8	278	965.1	24399	49914	23.7	23.8	23.6	21.4	17.3	13.8	10.7	8.4	6.8	6.2	5.9	10.2	72.9	282.0	12.4	11	33