Lake Lacawac, Bruce R. Hargreaves, Lehigh University (brh0@lehigh.edu, http://www.lehigh.edu/~brh0)
Weather platform moved to lake center on 5 May 05
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						
	50.7	76.1	29.4		10.87	4.3	32					58.4	58.5	58.5	58.4	58.1	57.9	57.1	53.1	46.0	43.8	42.7						
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
	10.4	**24.5**	**-1.4**	**85.9**	**276.0**	**1.9**	**14.4**	**199.7**	**964.5**	**286804**	**589180**	**14.7**	**14.7**	**14.7**	**14.6**	**14.5**	**14.4**	**14.0**	**11.7**	**7.8**	**6.5**	**5.9**	**10.1**	**45.9**	**276.0**	**12.2**	**11.9**	**11.9**

<===depths roughly guessed at dock except for H310==>

month	10																											
												Depths of TW sensors at dock	0.1	0.5	1	2	2.5	2.5	2.5	2.5	2.5	1.2	2.5					
												Depths of TW sensors at lake center	0.1	0.5	1	2	3	4	5	6	8	10.1	11					

	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
10/1/2005	274	13.4	21.4	6.4	75.6	0.0	1.3	5.5	217	973.6	20632	41981	18.1	18.2	18.1	17.8	17.7	17.6	16.9	10.5	7.0	6.4	5.8	9.9	-152.8	0.0	12.4	11	11
10/2/2005	275	15.8	24.5	8.8	79.9	0.0	0.5	3.5	86	976.6	20283	41010	18.9	18.5	18.0	17.9	17.7	17.6	16.7	10.6	7.0	6.4	5.8	9.9	-155.1	0.0	12.4	11	11
10/3/2005	276	16.2	23.7	9.2	77.9	0.1	0.5	4.4	81	977.3	19686	39966	19.1	18.8	18.4	18.1	17.8	17.6	16.5	10.7	7.0	6.4	5.8	9.9	-157.0	0.1	12.4	11	11
10/4/2005	277	15.4	24.4	8.9	89.3	0.0	0.5	3.6	160	976.5	15509	31761	19.2	18.8	18.6	18.3	17.9	17.6	16.4	10.9	7.0	6.4	5.8	9.9	-158.9	0.1	12.3	11	11
10/5/2005	278	16.9	23.4	12.4	90.4	0.2	0.6	4.8	147	974.7	12985	27320	19.0	18.9	18.8	18.5	18.0	17.7	16.3	10.9	7.1	6.4	5.8	9.9	-160.3	0.3	12.3	11	11
10/6/2005	279	17.4	21.1	12.7	93.0	0.1	1.0	6.2	179	971.0	10707	22581	19.0	19.0	19.0	18.6	18.1	17.7	16.2	11.1	7.0	6.4	5.9	9.9	-161.5	0.4	12.3	11	10
10/7/2005	280	19.7	20.4	18.9	96.3	27.9	2.2	10.3	174	964.3	2693	6448	19.0	19.1	19.1	18.7	18.1	17.7	16.1	11.2	7.1	6.4	5.9	9.9	-155.0	28.3	12.3	11	10
10/8/2005	281	13.8	19.5	10.3	99.0	70.9	1.9	10.3	269	957.5	1564	4059	18.6	18.7	18.8	18.7	18.3	17.7	16.2	11.6	7.1	6.5	5.9	9.9	-97.5	99.2	12.3	11	11
10/9/2005	282	10.3	11.7	8.7	99.0	1.1	1.6	5.3	297	962.0	4380	9683	17.6	17.7	17.8	17.8	17.7	17.7	16.4	11.9	7.2	6.4	5.9	10.0	-50.3	100.3	12.3	11	12
10/10/2005	283	12.6	14.3	11.3	98.3	0.1	1.2	3.8	70	966.4	5042	11226	17.3	17.4	17.4	17.4	17.4	17.4	16.5	12.0	7.2	6.4	5.9	10.0	-47.5	100.4	12.2	11	11
10/11/2005	284	13.7	14.9	12.6	96.8	5.9	1.4	5.3	108	966.7	4391	9854	17.1	17.2	17.2	17.3	17.2	17.2	16.5	12.0	7.2	6.4	5.9	10.0	-46.8	106.3	12.3	12	11
10/12/2005	285	10.3	13.2	8.9	98.4	55.4	2.5	8.1	66	969.7	3735	8483	16.6	16.7	16.8	16.8	16.8	16.7	16.5	12.4	7.2	6.4	5.9	10.0	10.2	161.7	12.3	12	12
10/13/2005	286	11.4	12.7	9.4	98.9	21.9	2.2	6.9	79	968.2	3258	7464	15.9	16.0	16.1	16.1	16.1	16.0	16.0	13.0	7.3	6.4	5.9	10.1	63.2	183.6	12.2	12	12
10/14/2005	287	13.5	14.9	12.2	99.8	9.3	2.1	5.4	110	963.6	4103	9457	15.7	15.8	15.8	15.8	15.8	15.7	15.7	13.5	7.3	6.4	5.9	10.1	91.6	192.9	12.2	12	11
10/15/2005	288	13.6	16.8	10.8	81.2	2.4	3.2	11.6	315	953.7	14194	29131	15.7	15.8	15.8	15.8	15.8	15.8	15.7	13.9	7.4	6.5	5.9	10.1	111.6	195.3	12.3	13	11
10/16/2005	289	10.2	12.3	8.0	77.4	0.4	4.9	14.4	311	952.7	8678	17826	15.0	15.1	15.2	15.2	15.2	15.2	15.1	14.3	7.4	6.5	5.9	10.1	114.1	195.7	12.4	12	12
10/17/2005	290	9.2	11.9	6.5	80.1	0.0	3.8	10.4	308	955.8	11366	23187	14.1	14.2	14.3	14.3	14.2	14.2	14.2	14.1	7.4	6.5	5.9	10.1	111.9	195.7	12.4	12	12
10/18/2005	291	12.2	17.7	8.0	72.4	1.0	2.6	10.4	280	954.6	13969	27983	13.9	14.0	14.0	14.0	14.0	13.9	13.8	13.8	7.5	6.5	5.9	10.1	111.4	196.7	12.4	12	12
10/19/2005	292	13.3	20.6	5.0	67.5	0.0	2.5	9.7	240	959.0	16425	33371	13.8	13.9	13.9	13.9	13.8	13.7	13.6	13.5	7.5	6.5	5.9	10.1	109.4	196.7	12.4	13	11
10/20/2005	293	7.1	10.6	3.9	72.0	0.0	1.7	6.8	253	964.2	9787	19493	13.5	13.6	13.7	13.7	13.6	13.6	13.5	13.4	7.6	6.5	6.0	10.1	107.2	196.7	12.4	12	12
10/21/2005	294	8.2	13.2	5.2	78.1	0.0	0.7	3.7	148	964.8	11590	23426	13.4	13.4	13.4	13.4	13.3	13.2	13.2	13.2	7.6	6.5	5.9	10.1	105.8	196.7	12.4	12	12
10/22/2005	295	5.4	7.8	4.6	97.9	38.5	2.0	8.6	104	955.9	1124	2780	12.9	13.0	13.0	13.0	13.0	13.0	13.0	12.9	7.7	6.5	5.9	10.1	119.3	235.2	12.3	12	13
10/23/2005	296	5.5	7.7	2.8	90.6	3.1	2.2	8.5	292	955.1	4774	9918	12.2	12.3	12.4	12.4	12.4	12.3	12.3	12.3	7.9	6.5	6.0	10.2	158.4	238.3	12.3	12	13
10/24/2005	297	3.4	5.7	-0.4	96.6	7.3	1.6	8.9	134	960.8	4656	9727	11.7	11.8	11.9	11.9	11.8	11.8	11.8	11.8	8.3	6.5	6.0	10.2	161.5	245.6	12.3	12	13
10/25/2005	298	2.4	3.4	1.6	99.2	28.9	3.1	7.5	136	948.3	2490	5710	11.0	11.1	11.2	11.2	11.2	11.1	11.1	11.1	9.2	6.5	6.0	10.2	194.1	274.5	12.3	13	15
10/26/2005	299	2.9	5.3	0.7	88.8	1.5	3.3	10.0	319	955.6	5551	11498	10.2	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.0	6.5	6.0	10.2	208.2	276.0	12.2	13	15
10/27/2005	300	3.1	4.2	2.1	78.4	0.0	1.7	6.3	309	967.7	4469	9221	9.7	9.9	9.9	9.9	9.9	9.8	9.9	9.9	9.7	6.5	6.0	10.2	203.0	276.0	12.2	12	13
10/28/2005	301	2.6	6.4	-1.4	81.7	0.0	0.8	5.1	162	972.2	10869	20555	9.5	9.6	9.6	9.6	9.6	9.5	9.5	9.5	9.4	6.5	6.0	10.2	200.0	276.0	12.2	13	13
10/29/2005	302	3.3	7.4	-0.4	82.1	0.0	2.7	10.5	313	969.7	7850	15552	9.1	9.3	9.3	9.3	9.3	9.2	9.3	9.3	9.3	6.6	6.0	10.2	197.2	276.0	12.4	13	13
10/30/2005	303	8.9	15.6	3.8	69.7	0.0	2.4	9.0	289	970.4	15220	29580	9.0	9.1	9.1	9.1	9.1	9.0	9.0	8.9	8.9	7.4	6.0	10.2	193.9	276.0	12.4	13	12
10/31/2005	304	10.9	18.0	4.5	56.4	0.0	1.3	7.0	233	969.8	14823	28928	9.2	9.3	9.2	9.2	9.0	8.9	8.9	8.9	8.8	8.0	6.0	10.2	192.2	276.0	12.4	13	12