

Lake Lacawac, Bruce R. Hargreaves, Lehigh University (brh0@lehigh.edu, http://www.lehigh.edu/~brh0)

Station moved from shallow water (ca. 2.5m max) at dock to lake center on 21 April 2007

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 2006 based on 1:15 minutes in cooler filled with surface lake water

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 dam).

		5280 ft/mile 1609 m/mile																																			
		Tair avg F	Tair max F	Tair min F	RHair-in	WS-mph	WS max mph																														
		68.4	89.7	51.0	4.58	3.7	30																														
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 10m	Tw 12m	H310_z (m)	Lakelevel-mm (40C)	cumul. rain-mm	Batt min-V	CR10 enc	RH% enc	MUX enc	Max of RHair						
		20.2	32.1	10.6	86.4	116.4	1.6	13.3	226.5	965.5	627627	1310174	24.9	24.7	24.5	23.9	22.9	21.1	16.3	11.3	6.9	5.9	5.6	10.3	28.4	116.4	12.7	33.1	52.2	102.4							

month (All)

Data

Location	% records	Date	Day of Yr	Tair			RHair-%	Rain-mm	WS		WDIR-deg	Barom-mb	Sum Rad W/m2	Sum PAR uM/m2/s	Tw					TW			H310 depth-m		Lakelevel-mm	cumul. rain-mm	Batt min-V	RH% enc	RH% MUX enc	Max of RHair		
				C	C	Min-C			Max-m/s	Max-m/s					0.1m	0.5m	1m	2m	3m	4m	5m	TW6m	TW8m	TW10m							TW12m	(40C)
LC	100%	8/1/2007	213	22.4	28.3	16.1	81.8	0.0	1.3	5.3	233	965.2	29534	61916	26.4	26.2	26.0	25.3	23.2	20.8	15.0	10.2	6.6	5.7	5.5	10.221	-6.8	0.0	12.7	27	31	100
LC	100%	8/2/2007	214	24.3	30.7	17.0	78.1	0.0	0.9	5.5	206	966.5	29216	60523	27.5	26.7	26.4	25.6	23.4	20.9	15.1	10.2	6.6	5.7	5.5	10.216	-12.0	0.0	12.7	28	32	100
LC	100%	8/3/2007	215	23.8	29.8	19.6	83.2	6.0	1.6	10.8	230	965.1	24155	49363	27.4	27.1	27.0	26.0	23.6	20.9	15.2	10.3	6.6	5.8	5.5	10.215	-13.3	6.0	12.7	28	34	100
LC	100%	8/4/2007	216	22.6	27.2	18.3	75.9	0.0	1.8	6.7	270	965.4	30610	63424	27.1	27.0	27.0	26.6	23.7	21.0	15.3	10.5	6.6	5.8	5.5	10.223	-5.5	6.0	12.7	28	35	101
LC	100%	8/5/2007	217	20.1	25.7	13.4	78.6	0.0	1.3	6.1	187	965.9	28929	59731	27.0	26.9	26.8	26.5	24.0	21.0	15.4	10.5	6.7	5.8	5.5	10.211	-17.1	6.0	12.7	26	32	100
LC	100%	8/6/2007	218	22.3	25.9	19.3	93.1	0.1	1.7	5.9	221	960.8	13564	28593	26.5	26.4	26.5	26.3	24.2	21.0	15.4	10.6	6.7	5.8	5.5	10.205	-23.2	6.1	12.7	28	34	101
LC	100%	8/7/2007	219	23.7	27.0	19.2	91.8	0.1	1.1	5.2	230	962.4	18877	38727	26.9	26.6	26.4	26.2	24.3	21.0	15.4	10.6	6.7	5.8	5.5	10.202	-25.8	6.2	12.7	35	34	102
LC	100%	8/8/2007	220	25.3	30.2	21.6	87.0	41.3	2.2	8.3	262	958.0	22361	47234	26.8	26.7	26.7	26.3	24.8	21.2	15.8	10.8	6.8	5.8	5.6	10.248	20.0	47.5	12.9	38	39	102
LC	100%	8/9/2007	221	22.0	25.8	17.9	87.2	0.1	1.3	7.6	185	962.0	18394	38457	27.0	26.7	26.7	26.5	25.0	21.3	15.8	10.9	6.8	5.8	5.6	10.252	24.2	47.6	12.9	35	36	98
LC	100%	8/10/2007	222	16.3	19.9	12.5	99.9	31.8	1.9	6.6	102	960.5	4545	10410	25.8	25.7	25.8	25.7	25.1	21.4	16.0	11.1	6.8	5.8	5.6	10.278	50.3	79.4	12.9	37	63	102
LC	100%	8/11/2007	223	18.6	24.8	13.4	84.8	0.0	1.8	6.5	238	965.5	28893	60410	25.1	25.0	25.0	24.6	24.3	21.5	16.0	11.1	6.8	5.8	5.6	10.277	48.8	79.4	12.9	36	67	101
LC	100%	8/12/2007	224	20.9	27.1	14.4	82.0	0.0	1.1	4.8	262	966.7	28251	59415	25.9	25.5	25.1	24.8	24.3	21.7	16.1	11.2	6.8	5.8	5.6	10.274	46.4	79.4	12.9	35	71	100
LC	100%	8/13/2007	225	21.2	24.9	16.5	78.8	0.0	2.4	8.2	303	962.8	23987	50042	25.5	25.5	25.5	25.2	24.5	21.7	16.1	11.2	6.9	5.9	5.6	10.271	43.2	79.4	12.9	35	75	96
LC	100%	8/14/2007	226	17.5	22.6	12.4	78.8	0.0	1.4	6.1	279	964.0	28006	56218	25.1	25.1	25.1	24.8	24.5	21.7	16.1	11.3	6.9	5.9	5.7	10.266	38.0	79.4	12.9	33	78	98
LC	100%	8/15/2007	227	20.3	25.5	14.4	80.9	0.0	1.7	6.9	261	962.9	24244	49159	25.0	24.9	24.9	24.6	24.3	21.9	16.1	11.3	6.9	5.9	5.6	10.261	33.3	79.4	12.9	33	66	96
LC	100%	8/16/2007	228	22.4	27.1	17.6	84.7	0.0	1.4	6.9	248	962.8	19699	41729	25.2	25.1	25.1	24.8	24.3	22.0	16.1	11.3	6.9	5.9	5.6	10.258	29.9	79.4	12.9	34	58	99
LC	100%	8/17/2007	229	20.4	23.3	14.7	82.3	7.4	1.5	13.3	249	961.7	16460	33713	25.2	25.1	25.1	24.9	24.5	22.1	16.2	11.4	6.9	5.9	5.6	10.258	29.6	86.8	12.9	35	56	101
LC	100%	8/18/2007	230	14.8	18.6	10.6	76.4	0.0	3.4	10.7	310	968.8	27078	55090	23.9	23.8	23.9	23.8	23.7	22.5	16.3	11.5	7.0	5.9	5.6	10.258	30.1	86.8	12.9	34	54	94
LC	100%	8/19/2007	231	15.2	18.3	11.9	85.9	0.0	1.0	3.3	221	970.1	10073	21356	23.1	23.1	23.1	23.1	23.0	22.6	16.3	11.5	7.0	5.9	5.6	10.253	25.3	86.8	13.0	33	54	98
LC	100%	8/20/2007	232	14.8	16.7	13.4	95.8	6.7	1.7	6.8	112	969.7	7137	15587	22.5	22.4	22.5	22.5	22.4	22.4	16.3	11.5	6.9	5.9	5.6	10.254	25.6	93.5	12.9	35	55	100
LC	100%	8/21/2007	233	12.8	13.8	11.7	99.2	21.3	2.6	6.1	115	970.4	3846	9061	21.5	21.4	21.5	21.4	21.4	21.4	16.6	11.6	7.0	5.9	5.6	10.281	53.1	114.8	12.9	37	56	100
LC	100%	8/22/2007	234	13.7	15.7	11.2	99.6	0.8	1.5	5.3	123	970.7	6580	14632	20.6	20.6	20.6	20.6	20.5	20.5	17.0	11.7	7.0	5.9	5.6	10.287	58.7	115.6	12.7	41	56	101
LC	100%	8/23/2007	235	18.0	22.5	14.3	97.3	0.0	1.8	5.5	181	969.6	16239	34768	20.9	20.8	20.6	20.4	20.2	20.2	17.2	11.8	7.0	5.9	5.6	10.287	58.7	115.6	12.7	36	57	102
LC	100%	8/24/2007	236	23.0	28.8	19.6	93.3	0.0	2.2	6.4	230	965.5	22014	46686	22.3	21.9	21.4	20.7	20.4	20.1	17.4	11.8	7.0	5.9	5.6	10.284	56.2	115.6	12.7	34	56	101
LC	100%	8/25/2007	237	26.5	32.1	22.5	82.1	0.0	1.9	11.6	230	961.6	24682	51531	24.3	23.6	22.5	21.1	20.5	20.2	17.4	11.9	7.1	6.0	5.7	10.282	54.5	115.6	12.7	33	55	101
LC	100%	8/26/2007	238	20.4	23.0	15.7	88.6	0.7	1.8	7.5	297	964.9	15953	33998	24.3	24.3	23.7	21.4	20.6	20.3	17.4	11.9	7.1	6.0	5.7	10.279	51.2	116.3	12.7	32	56	100
LC	100%	8/27/2007	239	19.0	25.1	14.2	87.7	0.1	1.0	5.0	201	970.1	26073	54528	24.1	23.8	23.4	21.7	20.8	20.3	17.4	12.0	7.1	6.0	5.7	10.276	48.3	116.4	12.7	31	55	101
LC	100%	8/28/2007	240	20.5	25.3	15.5	84.1	0.0	0.9	5.0	229	970.6	20750	43481	24.3	24.0	23.8	22.1	21.0	20.3	17.4	12.0	7.1	6.0	5.7	10.273	45.0	116.4	12.7	31	55	101
LC	100%	8/29/2007	241	21.7	27.3	16.3	86.6	0.0	1.0	3.3	228	968.8	22265	46533	24.8	24.0	23.8	22.4	21.1	20.4	17.3	12.1	7.1	6.0	5.7	10.270	41.6	116.4	12.7	31	54	101
LC	100%	8/30/2007	242	22.6	28.3	18.0	89.0	0.0	1.3	6.2	264	965.1	20129	41848	25.0	24.6	24.2	22.8	21.3	20.4	17.3	12.1	7.1	6.0	5.7	10.266	38.5	116.4	12.7	32	54	101
LC	100%	8/31/2007	243	19.3	23.1	14.3	85.0	0.0	2.2	8.1	316	965.5	15083	32009	24.4	24.3	24.3	23.3	21.4	20.4	17.3	12.2	7.2	6.0	5.7	10.262	34.0	116.4	12.7	33	57	98