

CU Winter Limnology

Hydrolab Lake Profile Data

Lake Name: <u>Gold</u>	County:	Site #:
Monitor:	Group Name:	Date:
Instrument #:		

Basic Parameters	
Air Temperature (°C)	
Secchi Disk Depth (cm)	<u>bottom</u> <u>145cm</u> <u>rather</u>
Water Color	<u>green, grey, clear</u>

Ice Thickness (cm)	<u>~ 35cm</u> <u>still</u>
Snow Depth (cm)	<u>0, but 5-10cm</u>
Water surface temperature at 10cm depth	Digital Sonde Correction*
*Correction=DigitalT-SondeT @0.1m (Enter correction factor on next page)	

Basin description:
Lake elevation
Lake size
Basin size
Basin geology
Basin vegetation

Physical Characteristics / Current Conditions		
<u>Cloud Cover</u>		<input type="checkbox"/> 1
0 = cloudless	3 = fog/haze	6 = rain/thunderstorm
1 = partly cloudy	4 = drizzle	
2 = overcast	5 = intermittent rain	
<u>Wind Speed</u>		<input type="checkbox"/> 2
0 = calm	3 = strong	
1 = slight breeze	4 = gusty	
2 = breezy		
<u>Wind Direction</u>		<input type="checkbox"/> 6
0 = no wind	3 = east	6 = northwest
1 = north	4 = west	7 = southeast
2 = south	5 = northeast	8 = southwest
<u>Waves</u>		<input type="checkbox"/> 1
0 = calm	3 = moderate waves	
1 = ripples	4 = white caps	
2 = small waves		
<u>Aquatic Macrophytes</u>		<input type="checkbox"/>
0 = none	3 = substantial	
1 = minimal	4 = abundant	
2 = moderate		

Previous Weeks Weather: Est. precip. during past week.

Precipitation ranges	Days before sampling	Rating
0 = none		6
1 = (0 - 0.1 in.)		5
2 = (0.11 - 0.5 in.)		4
3 = (0.51 - 1.0 in.)		3
4 = (1.1 - 2.0 in.)		2
5 = (> 2.0 in.)		1
	Today	

Hydrolab Profile

2.55 feet depth } hole

DEPTH		TEMPERATURE(°C)		pH	DISSOLVED O ₂ [LDO]		SPECIFIC CONDUCTIVITY [SP] (μS/cm)	TDS (mg/l)	FIELD OBSERVED COLOR/BIOTA (at biotic sample depths)
Barometric Pressure [BP] (mg Hg)	(m)	T _{sonde} °C	T _{corrected}		(mg/l)	(%)			
	Surface								
	0.1	0.6		8.57					Bottom of line 0.4
	0.5	0.29		7.79					1 m
	0.2	0.34		7.65					
	0.3	0.55		7.58					
	0.4								
	0.5	2.96		7.46					
	0.6	3.46		7.50					
	0.7	3.54		7.55					
	0.8	3.57		7.60					
	0.9	3.62		7.64					
	1.0	3.67		7.70					
	1.1	3.68		7.74					
	1.2	3.71		7.79					
	1.3	3.71		7.82					
	1.4	3.70		7.85					
	1.5	3.70		7.89					
	1.6	3.75		7.91					
	1.7	3.75		7.95					
	Bottom	3.71		8.02					