#### CSU Fisheries Ecology Laboratory 970-491-5002

LIMNOLOGY DATA

Lake Na	те_ <u> </u>	mb0	Personnel	<u>bu (</u>	CF			20	Date_ <i>0</i> 4	111 1/8
Military 1	Fime{}	<u>to</u> s	tation array					_ Max de	pth at statio	n <u>5, 9</u> m
Secchi (	m): 1 <b>st/</b> · 5	<u>2nd 0.5</u>	_Avg <u>0.52_</u> Wes	ather <u>/</u>	ver	cast, 1	005 M	10-15	mph	<b>加进品质</b>
			_tdsl,2							=
Depth (m)	Temp (°C)	D.O. (mg/L)	9 T	(c)		Depth (m)	Temp (°C)	D.O. (mg/L)		
0	8,5	12.32	(5)	000	10	21	9	ř		
1	8.3	12,4				22	1			
2	8.3	12.39				23	Ÿ			.a
3	8.3	12.38				24	1			
4	8.2	12.27		1		25 /	100			
5	8.2	12.18				26				
6	8.0	11.96				27				N
7-						28				
8						29				
9			Ď			30		245		The state of
10		4			2	35				7 4 to 1
= 11						40				1794 Shell
12						45		(p)	A	
13						50				-24.0
14						55				
15						60		*		
16						65				
17	E		_			70				
18						75				
19										
20										100

COMMENTS:

tunp logger array deployed 11:36 at 13T 0697 0698251 4534560 6.0 m

crayfish traps were set ul cat food 12:00- 5:00 pm, none caught protecting must set overnight to get them?

#### **ZOOPLANKTON SAMPLING DATA**

Lake Name Jumbo	Perso	nnel	B7 C	F				_ Dat	e <u>04</u>	-11-1	\$
Gear: Wisc. net C	larke-Bump	us (	Other:			Mes	 h (սm)։	53	3 Oth	er er	
Station Name arro	· y		Station	n Numb	oer		Max D	epth a	t Static	on _5.	9 m
			4%	SBF	-	157					
+wo 4 0-	5 M ha	nlo_				_				- 7	
· · · · · · · · · · · · · · · · · · ·											
Field data	4				Zoc	plant	ton Ta	axa			
Sample no.											
Stratum (m)	= t										
Mil. time	Counts by Aliquot			4	995						
Final revs	_		:		#125						
Start revs	unts			15							
Total revs	ပိ	8e	Tes II	50				- 83			
Liters sampled	Aliq. 1						*				
Dilution (ml)	Aliq. 2			<u></u>							
Conc. factor	Aliq. 3				A					T:	
Field data			<del></del>	<u></u>	700		T.				
					200	ріапк	ton Ta	axa	1		
Sample no.	_										
Stratum (m)	_   to										
Mil. time											
Final revs	by <i>f</i>								!	11.50	
Start revs	Counts by Ali										
Total revs	ပိ										
Liters sampled	Aliq. 1	2				•			= 8		
Dilution (ml)	Aliq. 2	N.									
Conc. factor	Aliq. 3										114
comments: we also did b 1) 150tope so	10-mi	nute	Su	face	187V	n/	500	am	1/2m1	net:	fa
1) 15070 pe si	myre on	100		0 >							
L) Sub Sausal	11 mt 0	\	<b>ナ</b> 切た C	KE /							

Lake Name	B Jumbo	Perso	nnel <u></u>	BF	>		_ Date <u>_5</u> _	1 22/18
Military Tir	me _/ <u>/0:27</u>	2 Star	tion <u> </u>	5		Max Dep	th at Station	5.9 m
Cooobi (m)	. d=4.5 0	/ 0.100						
Conductiv	ity <u>1531</u>	(uS/cm	n) Turbidity	y 1,76/	1.70	(NTU)	pH 8.10 TDS 1.08	a
Depth (m)	Temp (°C)	D.O. (mg/L)	Light		Depth (m)	Temp (°C)	D.O. (mg/L)	Light
Surface	17.6	6.08		Ĭ.	21			
1	17.4	6.05			22	*		
2	17.3	6,01			23			
3	17.2	5,93			24	7.		
4	17.1				25			
5	16.7	5.64			26	0		320
6					27			
7			A		28			<del></del> -
8					29			160
9					30			
10					35			
11					40			
12					45			-
13					50			
<b>6 14</b>					55	_		<del></del>
15					60			<del></del>
16						-		
17								
18								
19								<del></del>
20					Note: ir	n lakes >35 m ments starting	n deep record g at 30, else by	by 5-m v 1-m
Comments							,	

	•							th at Station	·
Sec	chi (m):	1st: <u>. 9</u>	_ 2nd: <u>' 8</u> 3	<u>S</u> Mean	.875	Weather	OVER 1		
Cor	nductivii	ty 1.503	(uS/cm	) Turbidity		8	(NTU)	pH <u>8.38</u>	
[	epth (m)	Temp (°C)	D.O. (mg/L)	Light		Depth (m)	Temp (°C)	D.O. (mg/L)	L
s	urface	23	6.25		1	21			
	1	23	6.17		1	22			
	2	22.9	6.14			23			
	3	રેવે. 6	5.58		- 1	24			
L	4	32.5	5.68			25			
4,3	-5	22,2	5.89			26			-
L	6				9	27		<u> </u>	5,43
	7					28	}		╄
	8					29	<u> </u>		-
L	9.					30			—
	10					35	<u> </u>		-
_	11	ļ			ë i	40			$\vdash$
	12	<u> </u>				45	1	ļ	-
	13					50	<u> </u>		-
L	14	ļ				55			-
L	15		`			60			+
L	16			<u> </u>		<u> </u>			+
	17		<u> </u>			<u> </u>			+
 	18		<u>.</u>		-				
	19				-	Notes	in lakes >35	m deep recor	d by
	20				-90			ng at 30, else	

Station	Depth (m)	Mil	Conductivity	Turbidity	Secchi Depth (m)	퓜	TDS	Salt	Zooplankton Sample Number
Im 2	9 /1	12:55	1.503	11.8	-548.	8:38	106		_
Jan 1	4,6	13 23	2						8
Jun 4	5,3	15:00		945					M
Jun 3	5,5	90:41							1
140° CT	Lo	1513		3.0					لم
		ę							
Comments:	::								

NULC: Plit Meter morits on Plantton (ab) c
Report tuble on EULCOUR CSU Fisheries Ecology Laboratory

Secchi (m)	1st: 0, 5	2nd: 0	. S Mea	n: ·5	Weather	Sunny	Date 7 th at Station	Bra
Conductiv	ity <u>1627</u>	(uS/cm	) Turbidit	y 16	8	(NTU)	pH 4.6	8
Depth (m)	Temp (°C)	D.O. (mg/L)	Light		Depth (m)	Temp (°C)	D.O. (mg/L)	Ligh
Surface	25.5	8.90	#		21		9731	
1	25.3	8.94		2/	22	1		+
2		8.92		1	23			1
3	25.2	8.92			24			
4	25.2	8.95		FE	25			
5	25.2	8.95			26	- Lv	3 2	
6			34.00		27			- 27
7					28		III II B	PERMI
8				W.	29		Historia	
9	X-1	Tale I			30			b-ite
10			1		35			
11					40		- CONTROL OF	
12					45	A British	N. S. C.	× //3
13					50	T. 1901		7
14	· · ·				55	Rin -		0.00
15					60			41
16		No.	4					
17							167	
18					2 31 11	TE TO	THE IN	
19			-87 78		1 1 1			- >
20							deep record at 30, else by	

Lake Nam	e Jumbo	Pers	sonnel <u>(</u>	CF JG			_ Date _ <sup>g</sup>	/ /4 / 18
							th at Station	
Secchi (m	): 1st:	<u> 5</u> % 2nd:	.58	Mean:_	.58 (	shaded side	of boat, no s	sunglasses)
Conductiv	/ity <u>  507</u>	(uS/cm) Tu	urbidity <u>∃</u>	7.38 (NTU	) Weather	80°F,2	0/. Cloud Co.	er, Slight 1
Depth	Temp	D.O.			Depth	Temp	D.O.	
	(°C)	· · · · · · · · · · · · · · · · · · ·		$\dashv$	(m)	(°C)	(mg/L)	
Surface	25.6			_	21			<u></u>
1	24.3	7.99	ļ	_	22			
2	23.9	7,23			23			
3	23.7	6.85			24			
4	23.4	5.07			25			
5					26			
6					27			
7					28			
8				7	29			-
9				7	30			
10				7	35		-	
11			<del></del>		40	<u> </u>		
12				1 ]	45			
13				-	50	<u> </u>	,	
14			<del></del>	1	55	<u> </u>		
15			-	1	60			
16				┪╶╽	65			<del></del>
17	-			-		<u> </u>		
18				-	70			
19				-{ }	75			
				-	Note: ir	1 lakes >35 m	deep record	hy 5-m
20							at 20, else by	
Comments:	eted ~ ?	70 Sa-1.	. (Silt	(Sand)	ئم كيياء			]
				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
	Tows looke evidence	- Sierral	-mp-y	1.16	نتمام مدن	e on locach	)	

Secchi (	me <u>Junba</u> Time <u>1737</u> m): 1st: <u>-8</u>	2nd: <u>. €</u>	Meaı	1:>7	Weather	Slight	Brez	
Conduct	tivity 155	2 (uS/cm	) Turbidit	y 12.	.6	(NTU)	pH_ 8.6	<u>)                                    </u>
Depth (m)		D.O. (mg/L)	Light		Depth (m)	Temp (°C)	D.O. (mg/L)	Liç
Surfac		8.79			21	. <u> </u>	63	
1	23 A	6.85			22 🔎	· · · · · · · · · · · · · · · · · · ·	·	,
2	23.4	6,17			23		,1	
3	233	8.87			24			
4					25			
5					26			
6		12			27			
7					28			
8	3°3				29			
9					30			
10					35			
11					40	/ ·		
12					45			
13					50			
14					55	100		
15					60			
16								
17								
18							ψ. 	
19								
20							n deep record I g at 30, else by	
Comme	nts:						<b>,</b> , ,	

		Perso			87		Date	114 1 18
Military Tin	ne <u>14 35</u>	Stat	tion	vm05	<u> </u>	Max Dept	h at Station	_ <u>5</u> _m
Secchi (m):	1st: <u>-%</u> 5	<u> </u>	<u>95_m</u> Mea	n: <u>.9m</u>	Weather	Clear, Sl.	ght Bree	te 58
Conductivi	ty <u>1766</u>	2nd:(uS/cm	n) Turbidit	ty	80 NTU	(NTU)	pH <u>&amp;.</u>	82
Depth	Temp	D.O.	2000	֓֞֞֞֓֓֓֞֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓	Depth	Temp	D.O.	, 
(m)	(°C)	(mg/L)	Light		(m)	(°C)		Light
Surface	4.0	10.72		] [	21	,	, , , , , , , , , , , , , , , , , , , ,	·
1	4.0	10.78		] [	22			
2	4.0	10.8			23			
3	3.9	10.87			24			
4	3.9	10.89			25			44
5	3.9	10.91			26			
6				] [	27			
7			<del>, , ,</del>		28			
8				1	29			·
9				1	30		,	
10					35	,		·
11			l	1	40			
12			. 4		45		,	
13				1	50			
14			<del> </del>	1	55			
15					60			
16								·
17								
18								
19						,		
20							deep record at 30, else b	
Comments:								21 /
								I