

## FISH POPULATION DATA SHEET

Location 7 (N2CP, upstream) Temperature 49.25 °C Ambient  
 Date 04-26-78 <sup>Whitely, Thompson</sup> TF-20 ~~MT3F2X025F~~ 65.50 °C Discharge  
<sup>Truck</sup> Power 1230-1300 hours (30 min Shaking) No. Circ. Pump in Operation           

Number	Species	Weight (gm)	Length (cm)	Stomach Contents
1	CARP	1600	511	empty
2	"	600	245	empty
3	"	800	395	8' v
4	"	1300	485	empty
5	"	550	331	empty
6	" (mirror)	275	290	910
7	"	455	310	
8	"	650	251	empty
9	"	500	320	
10	"	475	315	
11	"	700	355	empty
12	"	625	357	10' v
13	"	400	305	
14	"	300	285	
15	"	425	305	
16	"	675	350	
17	Pink GARDNERIA	650	400	
18	"	375	300	
19	Olive back	325	281	
20	Yellow Perch	100	164	
21	Gold eye	300	324	11

Comments:

Overcast - warm

8103120357

THIS DOCUMENT CONTAINS  
POOR QUALITY PAGES

Ron King  
S. Rhoad

## FISH POPULATION DATA SHEET

Pg. 1 of 3

Location 2 (NERR, Downstream) Temperature 49.25 °C Ambient  
 Date 04-26-72 Whitney Thermistor TF-20 RT2F20025F 65.50 °C Discharge  
 Power 1026-1100 hours (30 min. Feeding) No. Circ. Pump in Operation       

Number	Species	Weight (gm)	Length (cm)	Stomach Contents
1	Cano	2250	600	
2	"	2050	530	
3	"	1000	450	
4	"	750	410	1
5	"	325	275	empty
6	"	1350	402	1 0
7	"	975	415	
8	"	1600	460	empty
9	" (mirafa)	1250	465	1 1
10	"	300	200	
11	"	1550	491	
12	"	300	280	2
13	"	1100	445	empty
14	"	925	440	3 0
15	"	200	260	
16	"	700	410	empty
17	"	300	280	1 0
18	"	1850	540	1
19	"	625	360	empty
20	"	825	410	1 1
21	"	1100	455	empty
22	"	575	360	1 0
23	"	925	438	empty
24	"	575	355	
25	"	325	285	
26	"	1100	445	empty
27	"	700	410	1 0
28	"	1600	490	empty
29	"	900	430	5 0

Comments:

 Ranking  
 J. Rhone

## FISH POPULATION DATA SHEET

Pg. 2-13

Location 2 Temperature 49.25 °C Ambient  
 Date 04-26-78 <sup>Whitney Thermistor</sup> 65.50 °C Discharge  
 Time 1026-1100 hours (30 min. of Shrink) No. Circ. Pump in Operation     

Number	Species	Weight (gm)	Length (cm)	Stomach Contents
30	Carp	1150	447	
31	"	2975	629	
32	"	900	411	
33	Bl. Sucker	975	495	
34	Shadmouth Bullhead	5500	745	
35	"	2250	545	
36	"	2050	524	
37	Shadmouth Bullhead	2250	516	
38	"	800	375	
39	Longnose Sucker	550	242	
40	"	520	360	
41	Carp	100	195	
42	"	325	305	
43	"	400	291	
44	Flathead Whitefish	525	255	empty (nematode)
45	"	400	330	empty
46	"	225	250	G.O.
47	"	205	301	empty
48	"	200	301	empty
49	Sucker	975	450	" "
50	Finch	300	304	
51	Goldfish	500	220	empty
52	"	350	330	" "
53	"	525	385	empty
54	Yellow Perch	50	160	" "
55	"	50	164	
56	"	75	190	
57	White Crayfish	50	160	empty
58	Black Bullhead	50	141	" "

Comments:

 Ron King  
 J. Rhoe



Ron King  
J. Rhone



# FISH POPULATION DATA SHEET

Location 3 (Tampa Upper Bay) Temperature 49.25 °C Ambient  
 Date 04-26-78 WT-20 WT3F2X222F 65.50 °C Discharge  
 Time 1330-1400 hours (30 min Shocking) No. Circ. Pump in Operation           

Number	Species	Weight (gm)	Length (cm)	Stomach Contents
1	CARP	5200	705	
2	"	600	332	12
3	"	1200	475	
4	"	400	307	13
5	"	1350	502	14
6	"	200	229	15
7	"	775	427	empty
8	"	395	300	empty
9	"	775	390	empty
10	"	525	318	empty
11	"	1475	500	
12	"	1200	445	
13	"	2225	561	
14	"	600	362	empty
15	"	225	291	
16	Goldeneye	250	328	16
17	"	200	310	empty
18	"	400	356	17
19	"	200	296	18
20	"	250	314	empty
21	"	275	317	empty
22	"	125	260	19
23	"	300	390	20
24	"	300	343	
25	"	275	315	
26	"	400	352	
27	"	300	334	
28	"	325	347	
29	"	250	310	

Comments:

male running ripe (CARP)

overcast - warm

Ron King  
J. Rhoad



## FISH POPULATION DATA SHEET

Location 4 (7.000 Down)Temperature 49.25 °C AmbientDate 04-26-7865.50 °C DischargeTime Power, 1430 - 1500 hoursNo. Circ. Pump in Operation           

Number	Species	Weight (gm)	Length (cm)	Stomach Contents
1	Largemouth Bass	2800	576	
2	"	1925	434	
3	"	1975	472	
4	"	1500	517	
5	"	1925	555	
6	"	1100	420	
7	"	490	396	
8	"	200	256	
9	Striped Bass	1400	532	
10	Largemouth Bass	300	267	
11	Striped Bass	400	332	
12	Striped Bass	250	312	
13	"	300	335	
14	"	200	312	
15	"	205	325	
16	"	325	336	
17	"	250	311	
18	"	275	323	
19	"	250	302	
20	"	205	312	
21	"	250	312	
22	"	225	312	
23	Striped Bass	50	155	
24	Yellow Perch	100	200	
25	"	50	161	
26	Flathead Catfish	175	254	

Comments:

Ron King  
J. R. King

## FISH POPULATION DATA SHEET

Location Seneca Lower Station

Date 4-26-76

§ Power

Temperature 20°C °C

No. Circ. Pump in Operation\_\_\_\_\_

1900 hours

[illegible]

Comments:

FISH POPULATION DATA SHEET

Location Leining Lower Downstream Temperature 8.0°C <sup>Ambient</sup> °C

Date 4-26-78 °C

% Power \_\_\_\_\_ No. Circ. Pump in Operation \_\_\_\_\_

8 Power

No. Circ. Pump in Operation

Comments:



Total catch - 177

4-24-78

Species	Weight (gm)			Length (mm)			Total No	% of Total
	High	Low	Mean	High	Low	Mean		
carp	5610	100	933	705	195	399	74	41.6
goldfish	565	125	291	370	260	315	30	16.9
silver chub	-	-	-	77.0	30.0	52.0	22	12.4
fresh water drum	1000	125	343	460	273	296	15	8.5
river carpsucker	1400	65	466	522	99	290	10	5.6
yellow perch	100	50	71	200	100	173	6	3.4
silvery minnow	-	-	-	54.0	27.0	43.0	5	2.8
largemouth bass	5500	300	1790	745	260	542	5	2.8
black bullhead	100	50	83	200	141	169	3	1.7
smallmouth bass	2250	800	1525	510	375	443	2	1.1
gizzard shad	300	300	300	304	304	304	1	0.6
quillback	325	325	325	281	281	281	1	0.6
sucker	975	975	975	450	450	450	1	0.6
white crappie	50	50	50	160	160	160	1	0.6
blue sucker	975	975	975	495	495	495	1	0.6
river carpsucker	-	-	-	95.0	95.0	95.0	1	a
15 species							177	

a - included with river carpsuckers above.

3-4-5-6

Locations ~~1-4~~ electro-fishing

4-26-78

Species	Weight (lb)			Length (in)			Total No.	% of Total
	High	Low	Mean	High	Low	Mean		
Carp	5200	100	933	705	195	378	74	49.3
Golden shiner	525	125	291	370	260	315	30	20.0
White perch	1000	165	343	450	223	296	15	10.0
river carp sucker	1400	25	426	532	98	290	10	6.7
yellow perch	100	50	71	200	120	173	6	4.0
argentine buffalo	2950	300	1790	715	260	542	5	3.3
black bullhead	100	50	93	200	141	169	3	2.0
smallmouth buffalo	2250	900	1525	510	375	443	2	1.3
gizzard shad	300	300	300	304	304	304	1	0.7
quillback	325	325	325	291	291	291	1	0.7
sauger	975	975	975	450	450	450	1	0.7
white crappie	50	50	50	160	160	160	1	0.7
blue sucker	975	975	975	495	495	495	1	0.7
13 species							150	

3

12

Location 4

electro-shocking

4-26-78

Weight (g)		Length (mm)		Total No		Total	
High	Low	Mean	High	Low	Mean	High	Low
175	100	960	539	195	409	35	52.3
525	625	345	355	250	307	5	3.3
525	350	452	370	304	335	3	5.0
75	50	52	120	100	111	3	5.0
100	50	82	200	141	169	3	5.0
550	2350	1250	745	545	625	3	5.0
550	700	1525	510	375	443	2	3.3
520	550	565	360	348	354	2	3.3
300	300	300	304	304	304	1	1.6
975	975	975	450	450	450	1	1.6
50	50	50	160	160	160	1	1.6
975	975	975	495	495	495	1	1.6
12 species				60			

Location <sup>5</sup> 2 electro-shocking

4-26-78

Species	Height (cm)			Length (mm)			Total No	Percentage
	High	Low	Mean	High	Low	Mean		
carp	2500	200	1097	705	229	406	16	37.2
goldeneye	400	125	275	357	240	323	15	34.9
freshwater crum	1000	125	361	420	223	294	9	20.9
river carp	150	25	83	225	99	157	3	7.0
4 species							43	



Location <sup>6</sup> A electro-shocking

4-26-77

Species	Weight (gm)			Length (mm)			Total No.	% of Total
	High	Low	Mean	High	Low	Mean		
goldfish	325	225	250	336	311	319	11	40.3
carp	1925	200	1032	555	256	444	7	27.0
river carpenter	1400	50	417	532	155	340	3	11.5
largemouth buffalo	2900	300	1550	576	260	419	2	7.7
yellow perch	100	50	75	200	141	181	2	7.7
rock bass	175	175	175	254	254	254	1	3.7
6 species							26	

Location 3+4

Seining  
total

4-26-78

Species	Length (mm)			Total No.	Total Weight
	High	Low	Mean		
silver chub	77.0	30.0	50.0	22	78.5
silver shiner	54.0	27.0	43.0	5	17.9
river carp sucker	30.0	25.0	35.0	1	2.6
Species				28	

Location 3 seining  
<sup>Bank</sup>  
 Iowa<sup>n</sup> Upstream

4-24-78

Species	Length (mm)			Total No.	Total
	High	Low	Mean		
Silver chub	77.0	30.0	52.0	17	29.4
Silver minnow	49.0	49.0	49.0	1	5.3
Silver carpenter	95.0	95.0	95.0	1	5.3
3 species				19	

Location 4 seining

4-24-78

Iowa Bank Downstream

Species	Length (mm)			Total No.	% of Total
	High	Low	Mean		
Silver chub	65.0	43.0	53.0	5	55.6
Silvery minnow	51.0	27.0	42.0	4	41.4
2 species				9	

	Volume ml	% occurrence	Contents
Carp	1 <.1	100	Unidentified
'	2 .2	50 plant	plant fragments
	<.1	50 insect	Hydropsychidae, Chironomidae
'	3 .1	50 plant	plant fragments
	<.1	50 insect	Chironomidae
'	4 <.1	50	Hydropsychidae
	5.0	50	Plant fragments, wood
'	5 EMPTY		
Drum	6 1 ml	100 %	Suborder - Anisoptera Family - Libellulidae
Boldere	7 .1	50	Unident. aquatic insect
	.5	50	plant fragments
Carp	8 2.8	50	Gastropods
	6.7	50	Plant fragments
Carp	9 EMPTY		
Carp	10 .1	50	Gastropod
	.2	50	Plant fragments
3 eye II	.5	100	Plant fragments
Carp	12 1.3	100	Plant fragments seeds



	Volume mL	% occurrence	Contents
Carp 13	Empty		
Carp 14	1.6	100	Plant fragments, seeds
Carp 15	< 0.1	100	Plant fragments
Goldeye 16	Empty		
Goldeye 17	0.1 1.0 < 0.1 < 0.1	33.3% 33.3% 33.3%	Plant fragments Insects unidentified <sup>Tanaka</sup> { Ephemeroptera - 2 Coccinellidae <sup>Hippodamia convergens</sup> Bugs to be keyed - <sup>see</sup> <sup>Tanaka</sup> vial
Goldeye 18	0.5 2.0	50 50	Insects unidentified Plant fragments
Goldeye 19	1.0	100 <sup>Tanaka</sup>	Unidentified insects <sup>see</sup> <sup>vial 17</sup>
Goldeye 20	0.1 0.5 < 0.1 2.0	50 <sup>Tanaka</sup> 50 <sup>Tanaka</sup> 50 <sup>Tanaka</sup> 50 <sup>Tanaka</sup>	Coccinellidae Gyrinidae Orthoptera Coleptera Unidentified
Goldeye 21	< 0.1	100	Unidentified <sup>radialis fly reared for 26</sup>
Goldeye A	< 0.1 < 0.1	33 33	Hydropsychidae - 1 Ephemeroptera - 2

## FISH POPULATION DATA SHEET

Location 1Temperature 19.9 °CDate 6-7-79

°C

% Power \_\_\_\_\_

No. Circ. Pump in Operation \_\_\_\_\_

Number	Species	Weight (gm)	Length (cm)	Stomach Contents
1	Southern	565	400	17
2	B.M. Buff	7050	775	
3	S.M. Buff	1275	435	
4	'	500	325	
5	'	1225	450	
6	'	900	385	
7	'	525	331	
8	S.N. Gull	525	555	
9	Coppsucker	675	387	
10	'	850	420	
11	(C/D)	575	333	18
12	'	425	302	14
13	'	435	321	20
14	'	450	323	21
15	'	650	362	22
16	'	1550	517	
17	'	1225	477	
18	'	1050	465	
19	'	1350	456	
20	'	875	401	
21	'	1450	516	
22	'	1250	479	
23	'	1750	517	
24	R. Coppsucker	625	343	
25	Landings	275	321	23
26	'	225	315	24
27	'	250	314	25
28	'	250	309	26
29	'	225	298	27

Comments:

## 2

Temperature 19.9 °C

 $\circ C$ 

No. Circ. Pump in Operation\_\_\_\_\_

Comments:

## FISH POPULATION DATA SHEET

Location 2Temperature 29.0 °CDate 6-9-78Temperature DN 21.2 °C

% Power \_\_\_\_\_

No. Circ. Pump in Operation \_\_\_\_\_

Number	Species	Weight (gm)	Length (cm)	Stomach Contents
1	Black LM	2975	574	
2	"	3635	606	
3	"	2500	535	
4	"	2750	590	
5	"	3825	604	
6	Red SM	1600	466	
7	LM	1100	418	
8	SM	400	301	
9	Red SM	350	393	
10	" "	1425	421	
11	LM Bass	550	315	Empty
12	SN Bass	325	487	
13	" "	425	525	
14	" "	425	530	
15	LN Bass	300	533	
16	LN Bass	875	768	
17	SN Bass	375	287	
18	Red Bass	250	298	Empty
19	" "	300	338	11
20	Card	525	346	12
21	"	525	323	13
22	Card	450	319	14
23	Card	525	333	Empty
24	"	550	338	15
25	"	540	386	16
26	Drum	425	326	Empty
27	Card	2250	562	
28	"	950	405	
29	"	950	427	

Comments:



Page 2

Temperature \_\_\_\_\_ °C

C

No. Circ. Pump in Operation\_\_\_\_\_

Comments:



## FISH POPULATION DATA SHEET

Location 3

Temperature 19.8 °C

Date 6-9-78

°C

8 Power

No. Circ. Pump in Operation\_\_\_\_\_

[illegible]

Comments:

# FISH POPULATION DATA SHEET

Location

FTC 1 (1)

Date

6-9-79

% Power

No. Circ. Pump in Operation

Temperature

20.1

°C

°C

Number	Species	Weight (gm)	Length (cm)	Stomach Contents
1	Red. SM	500	313	
2	Red. SM	275	295	
3	Red. SM	325	273	
4	Red. SM	305	305	
5	"	350	363	small
6	"	360	335	
7	"	305	305	
8	"	350	300	
9	"	300	300	
10	"	275	334	
11	"	275	335	
12	"	375	360	
13	"	300	330	
14	"	325	348	
15	"	350	320	
16	"	375	310	
17	"	375	300	
18	Crab	950	431	
19	"	675	358	
20	"	700	480	
21	"	1100	440	
22	"	1425	500	
23	Brine	300	285	11
24	R. Cat. 5	205	285	
25	"	525	330	
26	"	625	362	
27	"	600	351	
28	"	350	311	
29	"	450	300	

Comments:

No. Circ. Pump in Operation\_\_\_\_\_



Comments:



F. C. CPE

6-9-76

	Volume ml	% occurrence	Stomach Contents
Goldeye 1	<0.1	33	Coleoptera parts
	.7	33	Wood
	1.9	33	Unidentified <sup>insect frag-</sup> <sup>plant matter</sup>
Goldeye 2	<0.1	33	Coleoptera parts
	<0.1	33	Odonata head parts
	1.5	33	Unidentified <sup>plant</sup> <sup>insect</sup> fragments
Goldeye 3	<0.1	20	Hymenoptera <sup>(1)</sup>
	<0.1	20	Diptera <sup>(2)</sup>
	<0.1	20	Odonata head <sup>(1)</sup>
	<0.1	20	Nematodes <sup>(2)</sup>
	0.8	20	Unidentified
Goldeye 4	0.2	25	Anisoptera parts
	<0.1	25	Odonata heads <sup>(12)</sup>
	<0.1	25	Coleoptera
	0.4	25	Unidentified
Goldeye 5	0.1	33	Coleoptera parts
	<0.1	33	Orthoptera wing <sup>(1)</sup>
	1.5	33	Fragments <sup>insect</sup> <sup>plant</sup>
Carp 6	1.0	100	Unidentified

F. C. C. P. I.  
6.9.78

	Volume ml	% occurrence	Stomach Contents
Carp 7	.3	100	Unidentified
Carp 8	<0.1	33	Tricoptera
	<0.1	33	Unidentified naiad
	2.2	33	Unidentified
Carp 9	2.5	100	Unidentified
Carp 10			EMPTY
Carp 11	1.1	100	Heptageniidae nymphs
Goldeye 11	<0.1	33	Coleoptera parts
	<0.1	33	Nematodes
	0.5	33	Unidentified
Carp 12	0.3	100	Unidentified <sup>insect</sup> wing
Carp 13	1.0	50	Unidentified
	<0.1	50	Tricoptera-Hydropsyche
Carp 14	2.5	25	Unidentified
	<0.1	25	Chironomid
	<0.1	25	Plant fragments
	<0.1	25	Diptera
Carp 15	2.0	100	Unidentified



T.C. CPE  
6-9-78

	Volume mL	% occurrence	Stomach Contents
Carp 16	<0.1	50	Diptera
	2.5	50	Unidentified
Sauger 17	8.0	100	Stone Cat (1)
Carp 18	<0.1	33	Diptera larvae (Chironomid)
	1.2	33	Unidentified
	<0.1	33	Plant Seeds
Carp 19	2.0	100	Unidentified
Carp 20	0.6	100	Unidentified plant & insect fragments
Carp 21	<0.1		Hirudinea
	1.0		Unidentified algae
Carp 22	0.7	25	Unidentified (plant + fragment seeds etc.)
	<0.1	25	Daphnia
	<0.1	25	Chironomidae
	0.2	25	Hirudinea
Carp 23	0.8	33	Copepods + Cladocera
	<0.1	33	Nematodes
	<0.1	33	Seeds



	Volume ml	% occurrence	Stomach Contents
Goldeye 24	1.6	20	unidentified (plant, seed, bark) <sup>insect parts</sup>
	<0.1	20	Diptera (pupa)
	<0.1	20	Beetle parts
	<0.1	20	Nematoda
	<0.1	20	Dafnia
Goldeye 25	<0.1	20	Zygopteran heads
	<0.1	20	Nematodes
	2.0	20	Unidentified (insect, plant fragments)
	<0.1	20	Caddisfly
	<0.1	20	Cladocera Copepods
Goldeye 26	0.1	20	Coleoptera parts
	<0.1	20	Nematodes
	<0.1	20	Chironomidae ①
	0.1	20	Wood fragments
	2.5	20	Unidentified (insect, plant seed parts)
Goldeye 27	0.2	50	Coleoptera parts
	2.0	50	Unidentified (insect, plant) fragments
Sauger 28			Minnows
	<0.1		insect parts
Goldeye 29	1.5	100	Unidentified

FC CPE  
6-9-78

	Volume ml	% occurrence	Stomach Contents
Goldeye 30	5.5	25	Unidentified
	<0.1	25	Coleoptera parts
	<0.1	25	Chironomidae
	0.4	25	styrofoam
Goldeye 31	2.1	25	Unidentified (plant fragments etc)
	<0.1	25	Nematoda
	<0.1	25	Diptera (parts)
	<0.1	25	Cladocera
Goldeye 32	0.4	33	Coleoptera parts
	<0.1	33	Seeds, plant fragment
	0.3	33	Cladocera
Goldeye 33	0.3	50	Unidentified - seeds
	<0.1	50	plant fragments
			Plecoptera
Carp 34	<0.1	50	Insect wings
	2.3	50	Unidentified seeds
Carp 35	2.0	700	Unidentified insect, plant fragments
Carp 36	2.8	100	Unidentified
Carp 37	1.0		Unidentified
			Key out vial
			coleoptera



CPE Ft. Calhoun

Locations 1 thru 4

6-9-78

Species	Total No.	% of total	(gm) Mean wt.	(cm) Mean length
① Sauger	2	1.6	295.0	290.0
② Bigmouth Buffalo	8	6.2	3296.9	583.1
③ Smallmouth Buffalo	13	10.1	751.9	444.9
④ Shortnose Gar	4	3.1	425.0	524.3
⑤ Longnose Gar	2	1.6	587.5	650.5
⑥ River Carpsucker	27	20.9	581.5	349.3
⑦ Carp	38	29.5	937.5	410.4
⑧ Goldeye	32	24.8	273.4	325.1
⑨ Largemouth Bass	1	0.8	550.0	315.0
⑩ Drum	2	1.6	362.5	305.5
Total catch	129			

CPE Ft. Calhoun

Location # 1

6-9-78

Species	Total No.	% of total	(gm) Mean wt.	(cm) Mean length
① Sanger	1	3.0	565.0	400.0
② Bigmouth Buffalo	1	3.0	7050.0	775.0
③ Smallmouth Buffalo	5	15.2	885.0	385.2
④ Shortnose gar	1	3.0	525.0	555.0
⑤ River carpsucker	3	9.1	716.7	383.3
⑥ Carp	13	39.4	1002.7	420.9
⑦ Goldeye	9	27.3	277.8	327.1
total catch	33			

CPE Ft. Calhoun

Location # 2

6-9-78

Species	Total No.	% of total	(gm) Mean wt.	(cm) Mean length
① Bigmouth Buffalo	6	13.0	2762.5	552.8
② Smallmouth Buffalo	5	10.9	830.0	353.4
③ Largemouth Bass	1	2.2	550.0	315.0
④ Shortnose Gar	3	6.5	391.7	514.0
⑤ Longnose Gar	2	4.3	587.5	650.5
⑥ Goldeye	2	4.3	275.0	318.0
⑦ Carp	16	34.8	954.1	413.6
⑧ Drum	1	2.2	425.0	326.0
⑨ River Carpsucker	10	21.7	647.5	351.1



CPE Ft. Calhoun

Location # 3

6-9-78

Species	Total No.	% of total	(gm) Mean wt.	(cm) Mean length
① Bigmouth Buffalo	1	5.3	2750.0	573.0
② River Carpsucker	6	31.6	583.3	356.7
③ Sauger	1	5.3	25.0	190.0
④ Goldeye	7	36.8	257.1	320.7
⑤ Carp	4	21.1	619.8	344.0
total catch	19			

CPE Ft. Calhoun

Location # 4

6-9-78

Species	Total No.	% of total	(gm) Mean wt.	(cm) Mean length
① Smallmouth Buffalo	3	9.7	400.0	293.7
② Goldeye	14	45.2	278.6	326.9
③ Carp	5	16.1	970.0	425.8
④ Drum	1	3.2	300.0	285.0
⑤ River Carpsucker	8	25.8	446.9	325.4
total catch	31			

FISH POPULATION DATA SHEET

Temperature °C

C

No. Circ. Pump in Operation

Comments:



(CFL)

Temperature °C $^{\circ}\text{C}$ 

No. Circ. Pump in Operation

Comments:

Location 3 seining

6-9-78

Species	Length (mm)			Total No.	% of Total
	High	Low	Mean		
emerald shiner	53.0	53.0	53.0	1	33.3
red shiner	45.0	45.0	45.0	1	33.3
fathead minnow	111.0	111.0	111.0	1	33.3
3 species				3	

Location 4 seining

6-9-78

Species	Length (mm)			Total No.	% of Total
	High	Low	Mean		
emerald shiner	66.0	50.0	60.0	7	36.8
red shiner	65.0	37.0	49.0	6	31.6
sand shiner	47.0	46.0	47.0	4	21.1
fathead minnow	53.0	53.0	53.0	1	5.3
silver chub	35.0	38.0	38.0	1	5.3
5 species				19	

Locations 3+4 seining

6-9-78

Species	Length (mm)			Total No	% of Total
	High	Low	Mean		
emerald shiner	66.0	50.0	59.0	8	36.4
red shiner	65.0	37.0	48.0	7	31.8
sand shiner	49.0	46.0	47.5	4	18.2
fathead minnow	53.0	41.0	47.0	2	9.1
silver chub	38.0	34.0	32.0	1	4.5
Species				22	

## FISH POPULATION DATA SHEET

Location /

Temperature \_\_\_\_\_ °C

Date 11-14-79

OC

\* Power

No. Circ. Pump in Operation

[illegible]

Comments:

## FISH POPULATION DATA SHEET

Discharge - 17.5

Location 2Temperature                      °C Down 7.5Date 11-14-79

°C

s Power                     No. Circ. Pump in Operation                     

Number	Species	Weight (gm)	Length (mm)	Stomach Contents
	<i>G. Gland</i>	15 (147)	124 (147)	
		35	154	
		25	145	
		40	159	
		20	125	
		50	166	
		40	156	
		35	144	
		24	127	
		20	134	
		28	134	
		38	160	
		34	143	
		18	119	
		24	132	
		20	132	
		18	121	
		14	119	
		20	127	
		20	135	
		12	107	
		18	116	
		20	131	
		24	128	
		20	120	
		24	133	
		25	141	
		25	123	
		28	142	

Comments:



## FISH POPULATION DATA SHEET

Location 2Temperature            °CDate 11-14-77

°C

# Power           No. Circ. Pump in Operation           

Number	Species	Weight (gm)	Length (mm)	Stomach Contents
	<i>Shad</i>	22 (78)	126 (21.4)	
		20	138	
		18	121	
		20	116	
		15	116	
		22	125	
		20	126	
		26	142	
		30	139	
		28	154	
		40	153	
		20	131	
		32	146	
		10	108	
		33	149	
		34	146	
		14	120	
		42	159	
		20	127	
		70	198	
		22	127	
		28	143	
		40	156	
		35	136	
		43	167	
		30	142	
		18	125	
		10	106	
		20	134	

Comments:



## FISH POPULATION DATA SHEET

Location 2Temperature            °CDate 10-14-77

°C

# Power           No. Circ. Pump in Operation           

Number	Species	Weight (gm)	Length (mm)	Stomach Contents
	<i>Shad</i>	28 (931)	140 (3929)	
		28	145	
		20	132	
		38	159	
		30	144	
		14	128	
		40	176	
		20	132	
		30	140	
		8	90	
		20	141	
		30	152	
		14	121	
		20	129	
		20	129	
		14	119	
		35	149	
		28	144	
		20	131	
		22	132	
		22	135	
		50	174	
		20	126	
		30	126	
		20	125	
		24	133	
		26	134	
		20	124	
		16	116	

Comments:

## FISH POPULATION DATA SHEET

Location 2

Temperature \_\_\_\_\_ °C

Date 11-14-79

°C

\* Power \_\_\_\_\_

No. Circ. Pump in Operation \_\_\_\_\_

Number	Species	Weight (gm)	Length (mm)	Stomach Contents
	<i>Shad</i>	18 (1024)	117 (1024)	
		53	123	
		20	121	
		22	135	
		30	148	
		8	101	
		82	200	
		14	118	
		18	123	
		25	126	
		22	130	
		22	131	
		22	130	
		40	131	
		20	126	
		53	166	
		20	136	
		20	121	
		325	311	
		40	152	
		28	131	
		34	156	
		18	130	
		22	132	
		14	123	
		20	124	
		6	116	
		20	131	
		18	123	

Comments:

## FISH POPULATION DATA SHEET

Location 2

Temperature \_\_\_\_\_ °C

Date 11-14-79

°C

# Power \_\_\_\_\_

No. Circ. Pump in Operation \_\_\_\_\_

Number	Species	Weight (gm)	Length (mm)	Stomach Contents
	<i>Shad</i>	20 (9.0)	121 (1130)	
		20	118	
		50	164	
		34	141	
		52	152	
		38	152	
		28	138	
		45	157	
		25	135	
		20	123	
		20	131	
		24	132	
		123	221	
		20	133	
		30	142	
		20	131	
		58	174	
		35	151	
		18	124	
		50	172	
		14	117	
		30	143	
		40	156	
		22	134	
		30	149	
		20	125	
		24	133	
		20	115	
		30	126	

Comments:

## FISH POPULATION DATA SHEET

Location 2Temperature            °CDate 11-14-77           °C\* Power           No. Circ. Pump in Operation           

Number	Species	Weight (gm)	Length (mm)	Stomach Contents
	<i>Had</i>	30 351	138 (4057)	
		48	160	
		28	157	
		32	153	
		30	145	
		30	143	
		20	155	
		24	134	
		22	131	
		28	139	
		30	142	
		18	116	
		20	129	
		22	129	
		22	129	
		30	143	
		18	124	
		20	121	
		22	125	
		24	191	
		30	152	
		52	167	
		25	144	
		30	144	
		22	135	
		42	163	
		30	150	
		20	132	
		28	133	

Comments:

## FISH POPULATION DATA SHEET

Location 2

Temperature \_\_\_\_\_ °C

Date 11-14-78

°C

Power \_\_\_\_\_

No. Circ. Pump in Operation \_\_\_\_\_

Number	Species	Weight (gm)	Length (mm)	Stomach Contents
	<i>Shad</i>	18 (702)	115 (3570)	
		35	153	
		20	158	
		18	123	
		32	153	
		13	112	
		22	143	
		14	125	
		14	109	
		34	146	
		32	149	
		25	138	
		20	134	
		20	143	
		18	121	
		14	117	
		20	123	
		28	143	
		20	128	
		30	143	
		35	148	
		22	133	
		12	115	
		20	132	
		12	123	
		57	171	
		32	147	
		18	125	
		30	135	

Comments:



## FISH POPULATION DATA SHEET

Location 2Temperature            °CDate 11-14-79

°C

\* Power           No. Circ. Pump in Operation           

Number	Species	Weight (gm)	Length (mm)	Stomach Contents
	<i>Shad</i>	40 1000	155 (4102)	
		18	119	
		22	127	
		15	115	
		30	108	
		220	298	
		15	117	
		30	150	
		28	136	
		15	125	
		25	148	
		32	149	
		52	161	
		40	151	
		28	131	
		30	140	
		38	149	
		28	130	
		30	143	
		22	126	
		20	126	
		25	129	
		78	192	
		58	167	
		24	123	
		18	113	
		30	140	
		40	146	
		25	128	

Comments:

## FISH POPULATION DATA SHEET

Location 2  
 Date 11-11-79  
 \* Power .

Temperature            °C  
           °C  
 No. Circ. Pump in Operation           

Number	Species	Weight (gm)	Length (mm)	Stomach Contents
	<i>Shad</i>	20 (919)	132 (3477)	
		28	134	
		18	113	
		52	164	
		50	165	
		24	132	
		60	176	
		25	131	
		20	121	
		15	113	
		30	143	
		20	113	
		30	140	
		35	142	
		24	127	
		26	127	
		38	146	
		18	127	
		28	149	
		24	136	
		30	142	
		50	177	
		38	156	
		18	121	
		34	151	
		20	128	
		14	127	
		14	119	
		14	124	

Comments:

## FISH POPULATION DATA SHEET

Location 2  
 Date 11-14-77  
 # Power                     

Temperature                      °C  
                     °C  
 No. Circ. Pump in Operation                     

Number	Species	Weight (gm)	Length (mm)	Stomach Contents
	<i>Shad</i>	54 (900)	174 (1071)	
		34	138	
		28	133	
		14	116	
		22	124	
		32	135	
		26	122	
		22	132	
		20	121	
		36	152	
		20	136	
		35	142	
( )		12	108	
		18	122	
		65	181	
		35	140	
		28	133	
		230	297	
		22	135	
		20	129	
		18	121	
		22	133	
		25	135	
		42	156	
		28	132	
		10	111	
		30	144	
		20	127	
		28	142	

Comments:

Location 2 Temperature                      °C 10.10  
Date 11-14-79                      °C  
# Power                      No. Circ. Pump in Operation                     

Comments:

$$\begin{array}{r} 290 \\ 7 \\ \hline 283 \end{array}$$

FISH POPULATION DATA SHEET

Temperature 4.2 °C

C

No. Circ. Pump in Operation \_\_\_\_\_

Comments:



## FISH POPULATION DATA SHEET

Location 4Temperature 4.2 °CDate 11-14-79

°C

# Power                     No. Circ. Pump in Operation                     

Number	Species	Weight (gm)	Length (mm)	Stomach Contents
	<i>Carp</i>	600	339	10
	" 0	1900	524	11
	"	1650	519	12
	"	1800	521	13
	"	1550	509	14
	"	600	365	
	"	700	385	
	"	1150	456	2.2. Tag 5475
	"	1450	493	
	"	1250	455	
		950	410	
		700	384	
		900	428	
		1200	479	
		1450	479	
		1750	539	
		1600	493	
		1750	463	
		1350	470	
		1100	426	
		1050	445	
		1050	431	
		1300	466	
		900	395	
		1750	523	
		1200	440	
		1900	539	
	<i>L</i>	1100	457	
		1750	515	

Comments:

## FISH POPULATION DATA SHEET

Location 4  
 Date 11-14-79  
 Power

Temperature 4.2 °C  
 °C  
 No. Circ. Pump in Operation

Number	Species	Weight (gm)	Length (mm)	Stomach Contents
	Carp	600	358	
	"	700	371	
	"	800	385	
	"	700	375	
	"	1150	446 <del>200</del>	
	"	1000	418	
	"	1550	475	
	"	1430	468	
	"	1750	508	
	"	1250	512	
	"	900	395	
	"	650	387	
	"	800	409	
	"	1750	495	
15	"	1550 <del>600</del>	456	
	"	1850	491	
	"	1200	459	
	Bullhead	200	326	15
	"	375	333	16
	"	350	324	17
	"	350	343	18
	Drum	450	328	19
	"	475	351	20
	P Carp	65	184	21
	"	700	371	
	"	675	371	

Comments:

59  
 One R. carpio fed back from line 58 approximately 500 mm  
 56

Locations 1-4. Electroshocking and seining at Fort Colhorn,  
Nov. 14, 1979.

[illegible]

Locations 1-4. Electroshocking at Fort Calhoun, Nov. 14, 1979.

[illegible]

Location 1. Electroshocking at Fort Calhoun, Nov. 14, 1979.

[illegible]



Location 2. Electroshocking at Fort Cathoon, Nov. 14, 1979.

[illegible]

Location 3. Electroshocking at Fort Calhoun, Nov. 14, 1979.

[illegible]

[illegible]

Power

[illegible]

Comments:





Locations 344. Seining at Fort Calhoun, Nov. 14, 1979.

[illegible]

Location 3. Seining at Fort Calhoun, Nov. 14, 1979

[illegible]

Location 4 Seining at Fort Calhoun, Nov. 14, 1979

species	Length (mm)			Total No.	% of Total
	High	Low	Mean		
sand shiner	47.0	44.0	45.5	2	33.3
kinnow shiner	42.0	41.0	41.5	2	33.3
silver chub	65.0	65.0	65.0	1	16.7
emerald shiner	37.0	37.0	37.0	1	16.7
4 species				6	

November 1979

Species: Carp

\* Stomachs w/ food : 1 / 12 analyzed

Other: 1.5 ml

Species: Goldfish

\* Stomachs w/ food : 8 / 8 analyzed

Terrestrial Insects : 1.2 ml : 2.8%

Aquatic Insects : 34.2 ml : 79.7%

Substrate : 4.0 ml

Fish : 1.0 : 2.3%

Other : 0.4 ml = 6.4 ml : 14.9%

Plant : 0.1 ml : 0.2%

42.9 ml Total

Species: Drumm

\* Stomachs w/ food : 2 / 3 analyzed

Aquatic Insects : 0.4 ml

Fish : 0.8 ml



Nov 1979

SPECIES		VOLUME	% Occurrence	Stomach Contents
Corp	1	EMPTY		
	2	EMPTY		
	3	EMPTY		
	4	EMPTY		
Goldene	5	4.0		Corixidae
		<0.1		Ephemeroptera pieces
	6	2.5		Corixidae
		0.2		Ephemeroptera pieces
	7	0.1		Ephemeroptera pieces
		0.1		Coleoptera pieces
		4.5		Corixidae
		15.1		Wood
	8	5.0		Corixidae
		<0.1		Orthoptera pieces
		0.3		Ephemeroptera pieces
		6.0		Rodentia
Corp	9	2.0		Corixidae
	10	EMPTY		
	11	EMPTY		
	12	EMPTY		
	13	EMPTY		
Goldeye	14	EMPTY		
	15	0.1		Ephemeroptera
		0.7		Acrididae
		2.5		Corixidae
		0.4		Unidentified

Nov. 1977

Species	Volume	% Occurrence	Stomach Contents
Goldeye 16	5.0		Corixidae
	0.1		Coleoptera parts
	0.1		Ephemeroptera pieces
	<0.1		Orthoptera piece
	10.1		Coleoptera parts
	<0.1		Ephemeroptera parts
	6.0		Corixidae
	1.5		Corixidae
	0.1		Ephemeroptera parts
	1.0		Unidentified fish
Drum 17	<0.1		Ephemeroptera
	<0.1		Hydropsychidae
	EMPTY		
20	EMPTY		
21	0.8		Unidentified fish
	<0.1		Heptageniidae sp.
	<0.1		Hydropsychidae
Carp 22	EMPTY		
	EMPTY		
	1.5		Unidentified

November 1979

Carp (Other)

1.5 - 1/11 analyzed

Subtype	Structural	Aquatic	Other	Wood fragments	Unidentified	Total
	01	40	<del>51</del>		6.0	10
	01	01	<u>04</u>			
	07	25	0.4			
	01	02				
	01	0.1				
	<u>01</u>	45				
	1.2	5.0				
		0.3				
		2.0				
		01				
		2.5				
		5.0				
		01				
		01				
		60				
		1.5				
		01				
		<u>01</u>				
		342				

6.0

10

2/2 analyzed

Plant

0.1 (wood)

Drum

Aspic

List

2 / 3 analyzed

0.1

0.8

0.1

0.1

0.1

0.4