



MINNESOTA DEPARTMENT OF NATURAL RESOURCES
DIVISION OF FISH AND WILDLIFE
STREAM ASSESSMENT REPORT

Region	Area	Stream Name	Tributary No.	Stream Length
3	Lake City	Zumbro River	M-34	57.6
County		Watershed Name, No.	Source (T, R, S)	Mouth (T, R, S)
Wabasha		Zumbro, 41	109-14-27	110-9-31

Date(s) of Assessment: May 18, 2011 and May 19, 2011

Assessment Purpose: Determine abundance and size structure of smallmouth bass in two stations of the Zumbro River.

Station	Similar Reach	Stream Mile	Length (ft)	Mean Width (ft)	Acres	Water Temp (°F)	Air Temp (°F)	Downstream UTM's	
								utm _x (↔)	utm _y (↓)
Klein's	2	57.6	8450			63		541553	4899917
Hammond	2	45.2	6500			65		548485	4899448

Summary:

In May of 2011 two stations were sampled on the Zumbro River as part of a recurring mark-recapture estimate of the Smallmouth bass population. Klein's station was sampled on May 18, 2011 and Hammond on May 19, 2011. Weather conditions and high water occurred after the first run (the marking run). This prevented a second recapture run. Length frequencies are the only data reported in this year's survey.

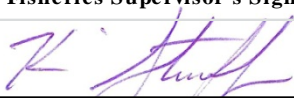
Table 1. Length frequencies of game fish species sampled in Klein's station of the Zumbro River 2011.

Length (inches)	Smallmouth Bass	Bluegill	Black Crappie	Brown Trout	Channel Catfish	Green Sunfish	Largemouth Bass	Muskellunge	Northern Pike	Rock Bass	Sauger	Walleye	White Bass	Yellow Perch	
2.0 - 2.9															
3.0 - 3.9	15	1	1			1									
4.0 - 4.9	51	1								2					
5.0 - 5.9	3									3					
6.0 - 6.9	8	3	1							2		2			
7.0 - 7.9	16			1						2		1			
8.0 - 8.9	10		6	1						1					
9.0 - 9.9	15		1											1	
10.0 - 10.9	6		2												
11.0 - 11.9	4			1							1				
12.0 - 12.9	13									2		2	1		
13.0 - 13.9	26										1				
14.0 - 14.9	23			1											
15.0 - 15.9	15						1								
16.0 - 16.9	4											1	1		
17.0 - 17.9	1										1				
18.0 - 18.9	1														
19.0 - 19.9						1									
20.0 - 20.9						1									
21.0 - 21.9						1									
22.0 - 22.9															
23.0 - 23.9									1						
24.0 - 24.9									1						
25.0 - 25.9															
26.0 - 26.9															
27.0 - 27.9									2						
28.0 - 28.9									1						
29.0 - 29.9															
30.0 - 30.9															
31.0 - 31.9									1						
32.0 - 32.9															
33.0 - 33.9															
34.0 - 34.9															
35.0 - 35.9															
36.0 - 36.9															
37.0 - 37.9															
38.0 - 38.9															
39.0 - 39.9															
40.0 - 40.9									1						
41.0 - 41.9									1						
42.0 - 42.9															
43.0 - 43.9															
44.0 - 44.9															
45.0 - 45.9															
46.0 - 46.9															
47.0 - 47.9															
48.0 - 48.9															
49.0 - 49.9															
50.0 - 50.9															
Total	211	5	11	4	6	1	1	4	6	10	5	6	2	1	0
Mean Length	9.4	5.5	8.5	10.6	22.6	3.9	15.4	41.8	27.1	6.4	13.5	10.2	14.3	9.4	--
Std. Dev.	4.38	1.35	1.88	3.26	2.38	--	--	2.18	2.77	1.31	2.59	3.90	3.01	--	--
Min Length	3.3	3.7	3.8	7.8	19.5	3.9	15.4	39.6	23.2	4.6	11.5	6.3	12.2	9.4	0.0
Max Length	18.5	6.9	10.8	14.6	24.9	3.9	15.4	43.7	31.1	8.7	18.0	16.3	16.5	9.4	0.0

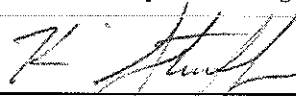
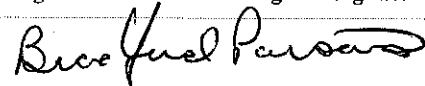
Table 2. Length frequencies of game fish sampled in Hammond station of the Zumbro River 2011.

Length (inches)	Smallmouth Bass	Bluegill	Black Crappie	Brown Trout	Channel Catfish	Green Sunfish	Largemouth Bass	Muskellunge	Northern Pike	Rock Bass	Sauger	Walleye	Walleye	White Bass	Yellow Perch
2.0 - 2.9	1														
3.0 - 3.9	2														
4.0 - 4.9	2														
5.0 - 5.9	11									1					
6.0 - 6.9	12									3					
7.0 - 7.9	10			1							1				
8.0 - 8.9	9									1					
9.0 - 9.9	5														
10.0 - 10.9	2			1											
11.0 - 11.9	3														
12.0 - 12.9	4			1								1		1	
13.0 - 13.9	7										1				
14.0 - 14.9	8											1		1	
15.0 - 15.9	4														
16.0 - 16.9	6			2											
17.0 - 17.9	1			3							1				
18.0 - 18.9	2														
19.0 - 19.9	1			2	1										
20.0 - 20.9				1											
21.0 - 21.9															
22.0 - 22.9															
23.0 - 23.9															
24.0 - 24.9															
25.0 - 25.9															
26.0 - 26.9															
27.0 - 27.9															
28.0 - 28.9															
29.0 - 29.9															
30.0 - 30.9															
31.0 - 31.9															
32.0 - 32.9															
33.0 - 33.9															
34.0 - 34.9															
35.0 - 35.9															
36.0 - 36.9															
37.0 - 37.9															
38.0 - 38.9															
39.0 - 39.9															
40.0 - 40.9															
41.0 - 41.9															
42.0 - 42.9															
43.0 - 43.9															
44.0 - 44.9															
45.0 - 45.9															
46.0 - 46.9															
47.0 - 47.9															
48.0 - 48.9															
49.0 - 49.9															
50.0 - 50.9															
Total	90	0	0	11	1	0	0	0	0	5	3	2	2	0	0
Mean Length	10.1	--	--	15.8	19.8	--	--	--	--	6.6	12.9	13.0	13.0	--	--
Std. Dev.	4.26	--	--	4.16	--	--	--	--	--	1.10	4.84	0.84	0.84	--	--
Min Length	2.8	0.0	0.0	7.1	19.8	0.0	0.0	0.0	0.0	5.7	7.7	12.4	12.4	0.0	0.0
Max Length	19.5	0.0	0.0	20.5	19.8	0.0	0.0	0.0	0.0	8.5	17.2	13.6	13.6	0.0	0.0

Credits and Signatures:

Field Crew:		
Randy Binder, Dan Dieterman, Dan Spence, Jeff Weiss		
Report completed by:		
Name:	Title:	Date:
Dan Spence	Fisheries Speciaist	1-Jun-12
Approved by:		
Area Fisheries Supervisor's Signature	Regional Fisheries Manager's Signature	Date:
		

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Name:	Title:	Date:
Dan Spence	Fisheries Specialist	1-Jun-12
Approved by:		
Area Fisheries Supervisor's Signature	Regional Fisheries Manager's Signature	Date:
		6-7-12