

## STREAM ASSESSMENT



### MINNESOTA DEPARTMENT OF NATURAL RESOURCES DIVISION OF FISH AND WILDLIFE

Report Date: February 2, 2011

Region	Area	Stream Name	Tributary No.	Stream Length
3	Lake City	Thompkins Creek	M-34-56-04-12	2.3 mi

County	Watershed Name, No.	Source (T, R, S)	Mouth (T, R, S)
Dodge/Olmsted	Zumbro River, 41	107N 16W 25	107N 15W 18

**Date(s) of Assessment:** June 22, 2010

**Assessment Purpose:** To determine if brook trout stocked in 1999 and 2000 have established a population.

Station	Similar Reach	Stream Mile	Length (ft)	Mean Width (ft)	Acres	Water Temp (F)	Air Temp (F)	Downstream UTM's	
								utm <sub>x</sub> (↔)	utm <sub>y</sub> (↕)
1.7	2	1.7	550	5.8	0.70	NA	82	525953	4877659

**Summary:**

A total of 27 brook trout ranging in size from 6 to 12 inches were collected. Twenty-three of the fish were captured from a single pool which was the best habitat available in the reach sampled. Habitat is mainly comprised of riffles with a cobble and gravel substrate, though areas of silt are present. Bedrock is also present in a few locations. Most of the reach sampled is less than 1 ft-deep and pools were scarce.

**Discussion of Fishery:**

Brook trout were reintroduced to Thompkins Creek by fingerling stocking in 1999 and 2000. This assessment was conducted to examine the status of the brook trout population in reach 2. A total of 27 brook trout ranging in size from 6 to 12 inches were collected in a single electrofishing pass. In 2003, just 3 brook trout were collected in station 1.7. Multiple year classes were present in 2010 and brook trout are reproducing. Twenty-three of the 27 brook trout collected were captured from a single pool which was the best habitat available in the reach sampled. Habitat is mainly comprised of riffles with a cobble and gravel substrate, though areas of silt are present. Bedrock is also present in a few locations which prevents downcutting and pool development. Most of the reach sampled is less than 1 ft-deep and pools are scarce. Habitat improvements which increase the amount of pool habitat may increase brook trout abundance in Thompkins Creek.

**Credits and Signatures**

<b>Report Completed by:</b>			
<b>Name:</b> Jeff Weiss		<b>Title:</b> Fisheries Specialist	<b>Date:</b> 2/11/2011
<b>Approved by:</b>			
<b>Area Fisheries Supervisor</b> 	<b>Date</b> April 19, 2011	<b>Regional Fisheries Manager's Signature</b> 	<b>Date</b> 5-12-11



Length Class Distributions

Stream Thompkins Creek  
 Tributary Number M-34-56-04-12

Species	BKT							
Date	6/22/2010							
Length Class								
< 6.0	5							
6.0 - 6.9	9							
7.0 - 7.4	7							
7.5 - 7.9	2							
8.0 - 8.4	1							
8.5 - 8.9	1							
9.0 - 9.4								
9.5 - 9.9								
10.0 - 10.4								
10.5 - 10.9	1							
11.0 - 11.4								
11.5 - 11.9								
12.0 - 12.4	1							
12.5 - 12.9								
13.0 - 13.4								
13.5 - 13.9								
14.0 - 14.9								
15.0 - 15.9								
16.0 - 16.9								
17.0 - 17.9								
18.0 - 18.9								
19.0 - 19.9								
20.0 - 20.9								
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 +								
Mean length								
Sample Size	27							