



FISHERIES WARMWATER STREAM RECONNAISSANCE REPORT

REGION 5	AREA Lake City	STREAM NAME Devlin Creek	TRIBUTARY NO. M-34-56-14-19	LENGTH 3.7 mi.
COUNTY Goodhue		WATERSHED NAME, NO. Zumbro River - 35	SOURCE (T.R.S) T109N R17W S21	MOUTH (T.R.S) T109N R17W S35

DATE(S) OF ASSESSMENT: 6/1/01 and 11/13/01
ASSESSMENT PURPOSE: Reconnaissance to assess non-game/minnow species presence-absence and to assess current stream conditions.

SIMILAR REACH	STATION	STREAM MILE	LENGTH	AVE. WIDTH	ACRES
III*	1.6-1.8	1.6	1000'	3.0'	-----

* Electrofishing completed

SUMMARY:

STREAM MILE 3.6: The reported source in the 1991 Initial Survey, was dry on 6/1/01. Two sources (tile) directly to the east of the source, in section 22, were also dry (see map). Tributary number M-34-56-14-19-2 is a very important tributary to Devlin Creek because it's source appears to rise from a wetland (type 2) located in the SW quarter of section 23 in Cherry Grove township. Where other tributaries were dry, this trib was contributing flow, albeit a trickle.

STREAM MILE 1.9: A tile line was seeping from a field edge on the north side of paved road (SW quarter of NE quarter of section 27, Cherry Grove township).

STREAM MILE 1.9-1.6: This stretch is characterized by a 2 to 6 foot wide channel flowing through a well buffered corridor of reed canary grass. Bottom substrates range from sand and silt, to stretches of boulder and rubble extending 100 to 200 feet or more. Water was clear and cold (53°F).

STREAM MILE 1.6-0.3: The stream flows into a heavily wooded corridor at this point. Substrates are flat limestone pieces interrupted by sand with some silt in the pools. Flow was visually estimated at approximately 2 cfs. No fish were seen, pools were marginal in terms of cover value. Water temperature was 56°F.

STREAM MILE 0.3-0.0: The very lowest stretch can be characterized by the high quality riparian corridor - a wide, grassy meadow. This same area was 100 percent grazed in 1991. Channel widths appear to have narrowed since the 1991 survey also - from an average of 19 feet, down to about 10. Substrates remain unchanged for the most part, with gravel, sand and rubble dominating.

FISH SAMPLING SUMMARY

Gear	1 Backpack					
Date	11/13/01					
Location (Mile)	1.6					
Effort	1000 ft.					

GAMEFISH SPECIES No gamefish sampled.

Adults	No.	Wt(lb)	No.	Wt(lb)	No.	Wt(lb)	No.	Wt(lb)	No.	Wt(lb)	No.	Wt(lb)
Young of Year	Number		Number		Number		Number		Number		Number	
Smallmouth bass	0											
OTHER SPECIES												
Blacknose dace	Common											
Common shiner	Common											
So. Redbelly dace	Common											
Fathead minnow	Present											
Central stoneroller	Common											
Redside dace	Common											
Longnose dace	Common											
Johnny darter	Present											
White sucker	Present											
Creek chub	Common											
Fantail darter	Present											

SUMMARY

The watershed description in the 1991 Initial Survey can be considered accurate in 2001. Agricultural land use in the form of row crops is generally restricted to the very uppermost reaches of the stream and its tributaries. Much of the stream from mile 1.6 to mile 0.0 is well buffered from runoff by wooded forest or grassy fields, meadows and flood way fringe. Erosion was very light and limited to the heavily shaded areas at about mile 1.4.

Redside dace, a species quite uncommon in the Lake City Area, was found to be common in Devlin Creek. A total of 11 species were collected, down from 17 in 1991. However, only one station was sampled during this survey, compared to three in 1991.

A temperature profile in 1991 showed the stream to be too warm for trout. Based on observations made during this survey, stream flow dwindles during dry periods, and the overall size of the stream and habitat it provides is too small to be much of value to warmwater gamefish. Water quality appears to be good however, and there is a relatively diverse minnow population.

Credits and Signatures:

Field Crew: Al Schmidt, Randy Binder

Report Completed by:

Name Al Schmidt

Title Fisheries Specialist

Date

APPROVED BY:

Area Supervisor's Signature

Regional Fisheries Manager's Signature

Date

R. Schmidt 3-15-02

Mark Ebbens (acting)

5/8/02

Devlin Creek

M-34-56-14-19

Date: May 3, 2002

Map For: Stream Reconnaissance

Prepared By: Al Schmidt

Fisheries Office: Lake City

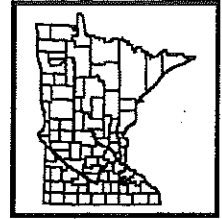
Mouth TRS: 109-17-35

Source TRS: 109-17-21

Counties: Goodhue

Reach Code			
	1		3A
	1A		3B
	1B		4
	1C		5
	2		6
	2A		7
	2B		8
	3		

Electrofishing stations 1,2 and 3.
Also, backpack station for 2001.



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Division of Fisheries



0 0.3 0.6 0.9 Miles

