	***************************************	***************************************		кечешеа вз	'LOUD	Date_\[13008
Region_	30K	County_	Dane	Report Date_	1/21/2005	Classification_CWA_
Water B	ody:_	Syftestad	aux			
Dischar	ger:	no Jusch	2401 C.			
If strear the follo	n is cla wing U	ssified as Lin Jse Attainabi	nited Forage lity Analysis	Fish (LFF) or Limit factors that are ide	ted Aquatic I	Life (LAL), check any of classification report:
Manufacture Communication of the Communication of t	Natur	ally occurring po	llutant concent	rations prevent the attain	ment of use	
	unles	s these condition	s may be compe	w flow conditions or wate ensated for by the dischar ation requirements to ena	ge of sufficient	the attainment of the use, volume of effluent discharges net
~	Huma or wo	ın caused conditi uld cause more e	ons or sources onvironmental d	of pollution prevent the at amage to correct than to	ttainment of the leave in place	use and cannot be remedied
	reasid	, diversions or ot le to restore the in the attainmer	water body to it	lrologic modifications pre s original condition or op	eclude the attain erate such mod	ament of the use, and it is not ification in a way that would
	cover,	cal conditions rel , flow, depth, poc ction uses	ated to the natu ols, riffles, and t	ral features of the water l he like, unrelated to wate	oody, such as th r quality, preclu	e lack of a proper substrate, de attainment of aquatic life
	Contro and w	ols more stringer videspread econo	it than those rec mic and social i	quired by sections 301(b) mpact	and 306 of the .	Act would result in substantial
Supportii ×	n g Evid Biologi	ence in the re pical Data (fish/in	vert) + E = 4	comments on how con	nplete/thorou	igh data is)
×			0.0			,
· · · · · · · · · · · · · · · · · · ·	Physica	al Data (flow, dep	oth, etc.)			
	Habita	t Description				
<u> </u>	Site De	escription/Map _				
	Other:			-		
Historica V2005		ts in file:	Z.			
		nents/How to i	~ *	rt:		

FISH AND AQUATIC LIFE DESIGNATED USE FORM (Attach supporting data sheets)

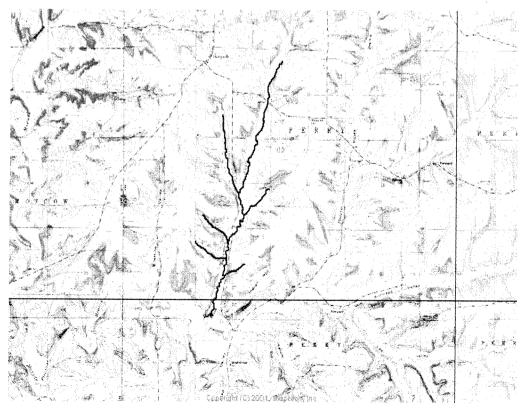
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sw, sw, 29

WATERBODY	NAME:	Syftestad Cree	ek	WBIC#	0908200	WATERSHED MANAGEMENT
REGION	South Central	BASIN	Sugar-Pec	COUNTY	Dane	
Segment Shown	on Daleyville		_ Quad. Map			
	ce site/condition.	Segment of	f (headwater =	segment 1)	, Attach class.
From: Upstrea tributaries	am of County High		ompassing first orde nstream <u>5mi.</u> , km.,		lat/long 42 55 8.64 89 47 39.79	tn, rng, 1/4, 1/4, section T. 5 N R. 6 E, nw, nw, 16
To: Confluence	e with Pleasant Val	ley Branch			lat/long	tn, rng, 1/4, 1/4, section
					42 52 19.9	T. 5 N. – R. 6 E,

89 48 59.02

Syftestad Creek and Tributaries: Coldwater A



DESIGNATED USE INFORMATION:	***				
New Classification X, Standards Review, Ref. Site, Date field work conducted/completed					
Current FAL Designated use WWFF (Default), Date (attach)					
Existing FAL Use Based on current data Coldwater Communities A, Date					
Recommended Attainable Designated use Coldwater Communities A					
Seasonal Designated use(s)/Dates					
Other Applicable Uses: ORW, ERW, GLS, Drinking Water Supply,					
Recreation, Wild Life					
Submitted By: Dan Jum	Date: 1 - 18 - 05				
Reviewed By: Lea Searly	Date: ///8/05				
Approved Basin Leader	Date: 1/19/05				
WOS Sect. Chief, or Designee:	Date:				

Below is a section from a Coldwater Habitat Evaluation Report along with a 2003 coldwater IBI result.

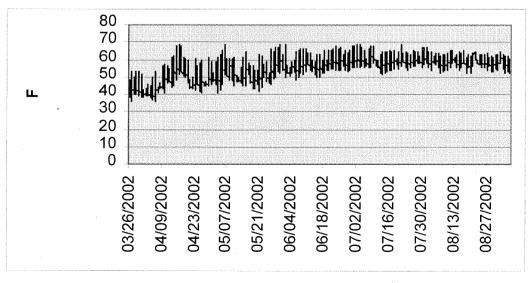
Syftestad Creek – Results

Onset temperature data: Syftestad Creek was sampled only in year-two of the project. The stream was not monitored with a YSI 600XLM, but a temperature recorder was installed near Hwy 78 from late March to mid September 2002. The minimum, maximum and mean values from June 15 through September 9, 2002 were 49.5, 68.5 and 58 degrees F respectively. Results from this survey clearly suggest trout stream habitat. Figure 13 displays the temperature trend.

Macroinvertebrate results: A single sample collected near Highway 78 (Station 3) contained a benthic community with an HBI score of 4.69 or "good" water quality. There were no stoneflies in the sample, but mayflies included *Baetis tricaudatus* and *Ephemerella inermis* and caddisflies included *Brachycentrus*, *Ceratopsyche slossonae*, *Cheumatopsyche*, and *Neophylax*.

Fish survey results: Four stations were electrofished in 2002 using a backpack shocker in the upper reaches (Stations 1 and 2) and towed stream shocker in the middle section of the stream above and below Hwy 78 (Stations 3 and 4). Mottled sculpin was the dominant species at all locations. Considered a trout good stream indicator, the significant sculpin numbers we found suggest trout management potential. At Stations 3 and 4, abundant mottled sculpin and low numbers of tolerant individuals resulted in a cold water IBI score of 50 at both sites. The score was based on a single intolerant species, very low numbers of tolerant individuals, and community dominated by stenothermal cool water individuals. Since only a single brown trout was collected, the top carnivore metric did not contribute points.

Figure 13: Syftestad Creek at STH 78 Summer min: 49.5 Summer max: 68.8 Summer mean: 59



Compared with a survey conducted in 1976 at Station 3, the fish community has shifted from a mixed forage fish community to a cold water community. Mottled sculpin numbers greatly increased while species diversity declined. Two redside dace individuals were found in 1976, but none were found at the four locations in 2002 and are likely extirpated from the stream.

The species shift in Syftestad Creek is similar to the trends we found in both German Valley Creek and Blue Mounds Branch. The recent temperature data from Syftestad, combined with historic and recent fish community data, suggest that spring-flow to the stream has probably increased and now favors stenothermal species. The cold water IBI score in 1976 was 20 (poor) compared to 50 (fair) in 2002. Table 13 compares fish community composition at Station 3 in 1976 and 2002. Table 14 lists the numbers of species found at the four sampling sites. The headwater section (Station 1) and tributary (Station 2) were very narrow and produced few individuals. An IBI score could not be determined at those two sites because of low fish numbers.

Table 13: Syftestad Creek fish community composition

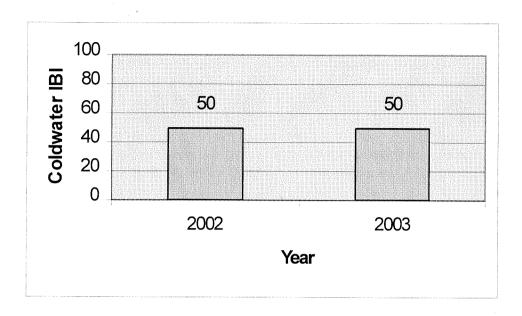
Species	Indicator	1976	2002
Redside dace	I, C, SC	X	
Brassy minnow	С	X	***************************************
Common shiner	W	X	
Fathead minnow	T	X	
Bluntnose minnow	T, W	X	
Central stoneroller	W	X	***************************************
Southern redbelly dace	W	X	
Creekchub	W, T	X	X
White sucker	W, T	X	X
Brook stickleback	С	X	X
Johnny darter	W	X	
Fantail darter	W	X	
Mottled sculpin	I, C	X	X

I = intolerant, T = tolerant, C = cool-cold stenothermal, W = eurythermal, SC = Special Concern.

Table 14: Syftestad Creek fish survey results from 2002

Species Station →	1	2	3	4
Brown trout		71,000		1
Creekchub			4	
White sucker			4	
Brook stickleback	3	0.000.00	9	2
Mottled sculpin	5	2	280	285
Distance shocked (feet)	500	400	1600	900
Cold IBI score			50	50

Syftestad Creek at Highway 78. Coldwater IBI Scores indicated "Fair" conditions (30-50=fair)



While salmonids are currently scarce in Syftestad Creek, experimental brook trout stocking is underway.

September 16, 2003 backpack shocking survey above Hwy 78.

White sucker	3
Mottled sculpin	104

Syftestad Creek at CTH Z - Hobo Temperature Data June 1 - August 31, 2003

