MINNESOTA DEPARTMENT OF NATURAL RESOURCES

	ER OR STREAM SURVEY E(S) OF FIELD WORK 8/25, 8/26, 8/31/81	Initial Survey 🔲 Resurvey 🛣
	LEADER Richard Thompson ASSISTANT(S) Steve Hirsch	The same of the sa
	AcciditAtility	
	NAME LOCATION AND ELOW CHARACTERICTION	
	NAME, LOCATION, AND FLOW CHARACTERISTICS	
(1)	Stream Name Wyman Creek	
(2)	Alternate Name/s) NONG	
(3)	Tributary Number 3-2-3/-3	
(4) (5)	Oddinios	
	Sequence of Waterways to Basin To Partridge River to St. Louis River t	o Lake Simerior
(0)	to St. Lawrence River.	O have superior
(7)	Map(s) Used U.S.G.S. Quadrangle: Allen, Minn, 1962 (photo revised	1969)
(8)	Length of Stream 9.4 miles (main stream plus west fork)	
	Average Width - Upper Station .5 feet Lower Station	14.6 feet
	Wouth Location 1, John R. 14W S. 4	
(11)	Flow at Mouth No Data cfs, Date cfs Average	The second secon
(13)	Location of Gaging Station cts Average	cfs
(14)	Initial Source of Sustained Flow Springs in cedar-spruce bog, T. 59; R.	14; S. 11.
	Gradient 17.3 ft/mile	
	Gradient 17.3 IT/MILE Sinuosity 1.7	
(10)	ombosity	Annua surfe alle annua papa par una mandra di mandra papa surre par participare e van varia de 1964 annualment d
	WATERSHED DESCRIPTION AND USE	
(17)	Description of Watershed (soil types, cover types, topography, land usage and ownership)	
	a) Entire watershed The area surrounding the creek varies between to rather flat forested terrain. Lowland cover is alder, s	large flat bogs
	some spruce and cedar. Unland is mainly hirch aspen and h	alcom Coilc and
	mainly sand and gravel. The creek skirts Erie Mining Compa	ny dump and #2
	pit in the upper stretches.	
	Land adjacent to stream Ownerships 10% private, 35% Erie Mining, 10% state. Vegetative cower is about 90% trees and shrubs,	45% federal, and 10% open bogs.

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GENERAL INFORMATION ON THE STREAM

the time precipitate. Sources of Pollution	20) Special Problems or Conditions Beaver activity has caused siltation in several are station #4 and below tributary #2 stream choked with filamentous algae and cover ith iron precipitate. 21) Sources of Pollution Source Loc. (mi. from mouth) Substance discharged Tributary #2 1.5 miles Iron precipitate Fround Water (natural) 7.5 miles Iron precipitate 12) Erosion Type Degree Affected reach 13) Stream Alterations (dredging, channeling) — location and date 14) Dams and other obstructions (include beaver dams) Type from Head Cength Control Use Fish Barrier Owner Structure 14) Mi. Type of Control Structure Structure Page Active Page Act	ered
Station #4 and below tributary #2 stream choked with filamentous algae and covered with firm precipitate.	Affected reach Affected reach Affec	ered
Station #4 and below tributary #2 stream choked with filamentous algae and covered with iron precipitate. 21	Station #4 and below tributary #2 stream choked with filamentous algae and cover with iron precipitate. 21) Source	ered
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#117 and County Road #110. 27) Shoreline Developments Stream goes through Erie Mining's complex. At upper end, it	Livestock watering Other (specify) Erie Mining is using stream to discharge water	er tro
27) Shoreline Developments Stream goes through Erie Mining's complex. At upper end, it	Access (location and ownership) The Stream 1s accessible from Erie Mining, Forest Ro	<u>oad</u>
7) Shoreline Developments Stream goes through Erie Mining's complex. At upper end, it skirts a mine dump and flows under a dike and road.	# CI / Aud County Road # 110.	
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	SALILS a mule dump and riows under a dike and road.	

(29) Tributaries and Springs

d.

										Temp. ^o F	u.		
Names and/or			, , ;	Width	Miles		Stage (high,	Σ	Mouth	So	Source		
Tributary	Water Source	Bank (R or L)	Length Miles	Mouth (feet)	from Mouth	Flow (c.f.s.)	normal, low)	Air	Water	Air	Water	Time	Date
S-2-57-3-1	Bog	R	1.6	1	8.		1	No	Data				
S-2-57-3-2	Bog	æ	6.	. 9	1.5	2	Norma1	770	e7°	77°	61°	M -2:20 S -3:00	8/26/81
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									-				
Remarks													

10-87410-AV 87\4.475-01 898-3

(30) Stream Physical Characteristics

Station no.	1 1	1-a	*2	3
Date	8/31/81	8/31/81	8/31/81	8/31/81
Loc. (mi. from mouth)	.5	1.1	1.4	2
Length of station	661 feet	100 feet	325 feet	775 feet
% of station in:				
Pools	7%	No		* :
Riffles and rapids	82%	Data	-	*
Runs	118		100%	100%
Other (list)				
Average width (ft.)	14.6'		3'	9.51
Average depth (ft.)	71		.61	1'
Flow (cfs)	Not Measurable	4	.4 cfs	9 cfs
High water mark	l'above preser			1'above prese
Present stream stage	1 : " [· · · · · · · · · · · · · · · · · · ·	
(high, normal, low)	Normal Normal		Normal	Normal
Banks:		**************************************		
Average height	1.5'		1.5'	1.5'
Height range	1.5' - 3'		1' - 2'	1' - 3'
Erosion (It., mod., severe)	Light		Light	Light
% grazed	mrkiic		ment	TIT SILC
% ditched or channeled				
Shade 1	Light		Heavy	Light
Pools ²	mrkiic		licavy	right
Average width	12.5'		N.A.	
Width range	241		N.A.	
Average depth	1.4'			
Maximum depth	1.8'			
Type - No. of each	1.0		· · · · · · · · · · · · · · · · · · ·	
A				
В				
C 29. (N)				
D	1			
Bottom type %3				***************************************
Boulder	200			
	20%	· · · · · · · · · · · · · · · · · · ·		
Rubble	60%			
MIGICI	10%			
Muck	1.0%		<u> </u>	
Riffles and rapids				
Average width	15 21		N.A.	
Width range	1,0,6			
Average depth	6.1' - 22'		ļ	
	.61		<u> </u>	
Maximum depth	1.31		ļ	
Max. velocity range (fps) Bottom type – %	No Information			
~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ 	000			
Boulder	80%			
Rubble ,	20%			
	- 1			

(30) Stream Physical Characteristics

Station no.	4	5		
Date	8/31/81	8/31/81		
Loc. (mi. from mouth)	6.6	7.5		
Length of station	275 feet	200 feet		
% of station in:	``			
Pools				
Riffles and rapids	36%			
Runs	64%		· · · · · · · · · · · · · · · · · · ·	
Other (list)	VTP	100%		
Average width (ft.)	9.4	.5		
Average depth (ft.)	- 8	1		
Flow (cfs)	20.4	Not Measurab	10	
High water mark		nt Drocont I	1.5	
Present stream stage	L above presi	ent Present L	evel	
(high, normal, low)	Normal	Normal		
Banks:		 		
Average height				
Height range	1.3'	.51		
Erosion (It., mod., severe)	1' - 1.5'	-	***************************************	
% grazed	Light			
% grazed % ditched or channeled				
Shade ¹		177		
Pools 2	Moderate	Heavy		
Average width				
Width range				
Average depth				
Maximum depth	.:			
Type - No. of each	:			
<u>A</u>				
В				
C			V	
D				
Bottom type — %3	. 1			
-				
Riffles and rapids				
Average width	9.5'			
Width range	-			
Average depth	.51			
Maximum depth	.6'			
Max. velocity range (fps)	No Data			
Bottom type — %				
Boulder	70%			
Rubble	30%			

Stream Physical Characteristics (continue Runs:	7	1-a	*2	3
Average width	9.51		7 21	~ r.
			3.2'	9.5'
Width range			1.8' - 5.5'	6' - 14'
Average depth	1'		.6'	1'
Maximum depth	1.51		1'	1.5'
Max. velocity range (fps)	No Data		No Data	No Data
Bottom type — %	<u> </u>			
Boulder	70%		5%	15%
Rubble	30%		15%	15%
Grave1			30%	10%
Sand			25%	10%
Muck			25%	50%
Other (describe)				
Average width				
Width range				
Average depth				~
Maximum depth				
Max, velocity range (fps)				
Bottom type - %				

		•	-	
**************************************			-	***
TA PERTAINING TO SIMILAR REACH				
Location (mi, to mi,)	0 - 1	1 - 1.9	.6 - 2.3	1.9 - 5.1
Gradient (ft./mi.)	36 ft/mi.	24 ft/mi	17 ft/mi	13 ft/mi
Sinuosity	1.3	1.2	1 10/1111	1.3
	None		None	
Channel changes (slight, mod., exten.)	MOITE	None	None	None

Remarks * Station #2 is	located on the west	annel of Wyman Creek.	Location is measured
from mouth.			
		:	

2pool types:

Type A - Good cover, 3 ft. or deeper

B - Good cover, less than 3 ft.

C - Poor cover, 3 ft. or deeper D - Poor cover, less than 3 ft.

1Shade:

light

0-25 percent shaded 26-75 percent shaded

moderate heavy

over 75 percent shaded

3_{Bottom types:} Ledge rock - large mass of solid rock

Boulder

- over 10" in diameter

Rubble

- 3" to 10" in diameter

Gravel Sand

- 1/8" to 3" in diameter

Silt

- less than 1/8" in diameter

- fine material with little grittiness

Clay

- compact, sticky material

Muck

- decomposed organic material, usually black

Detritus

- organic material composed of sticks, leaves, decaying plants, etc.

Marl

calcareous material

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30) Stream Physical Characteristics (continu	7	T T	_ I
Runs:	0.41		
Average width	9.4'		
Width range	8.5'-10'		
Average depth	.9'		
Maximum depth	1.3'		
Max. velocity range (fps)	No Data		
Bottom type — %	(00		
Boulder	60%		
Rubb1e	40%		

Other (describe)			
Average width			
Width range			
Average depth			
Maximum depth			
Max. velocity range (fps)			
Bottom type — %	1.34		
			······································
	<u> </u>		
ATA PERTAINING TO SIMILAR REACH			ļ
Location (mi, to mi,)	5.1 - 6.7	6.7 - 7.7	
Gradient (ft./mi.)	34 ft/mi	20 ft/mi	
Sinuosity	1.3	1.1	
Sinuosity			
Sinuosity Channel changes (slight, mod., exten.)	1.3 None	1.1 None	erground frequently.
Sinuosity Channel changes (slight, mod., exten.)	1.3 None	1.1 None	erground frequently.
Sinuosity Channel changes (slight, mod., exten.)	1.3 None	1.1 None	erground frequently.
Sinuosity Channel changes (slight, mod., exten.)	1.3 None	1.1 None	erground frequently.
Sinuosity Channel changes (slight, mod., exten.) emarks * Station #5 stream is ve	1.3 None	1.1 None disappears und	erground frequently.
Sinuosity Channel changes (slight, mod., exten.) emarks * Station #5 stream is ve	1.3 None	1.1 None disappears und 2Pool types:	
Sinuosity Channel changes (slight, mod., exten.) emarks * Station #5 stream is ve	1.3 None	1.1 None disappears und 2Pool types: Type A - Good	cover, 3 ft. or deeper
Sinuosity Channel changes (slight, mod., exten.) emarks * Station #5 stream is ve Shade: light 0-25 percent shaded	1.3 None	1.1 None disappears und 2Pool types: Type A - Good B - Good	cover, 3 ft. or deeper cover, less than 3 ft.
Sinuosity Channel changes (slight, mod., exten.) emarks * Station #5 stream is ve Shade: light 0-25 percent shaded moderate 26-75 percent shaded heavy over 75 percent shaded	1.3 None	1.1 None disappears und 2Pool types: Type A - Good B - Good C - Poor c	cover, 3 ft. or deeper cover, less than 3 ft. over, 3 ft. or deeper
Sinuosity Channel changes (slight, mod., exten.) emarks * Station #5 stream is ve Shade: light 0-25 percent shaded moderate 26-75 percent shaded heavy over 75 percent shaded	1.3 None	1.1 None disappears und 2Pool types: Type A - Good B - Good C - Poor c	cover, 3 ft. or deeper cover, less than 3 ft.
Sinuosity Channel changes (slight, mod., exten.) emarks * Station #5 stream is ve Shade: light 0-25 percent shaded moderate 26-75 percent shaded heavy over 75 percent shaded	1.3 None	1.1 None disappears und 2Pool types: Type A - Good B - Good C - Poor c	cover, 3 ft. or deeper cover, less than 3 ft. over, 3 ft. or deeper
Sinuosity Channel changes (slight, mod., exten.) emarks * Station #5 stream is ve Shade: light 0-25 percent shaded moderate 26-75 percent shaded heavy over 75 percent shaded Bottom types:	1.3 None	1.1 None disappears und 2Pool types: Type A - Good B - Good C - Poor c	cover, 3 ft. or deeper cover, less than 3 ft. over, 3 ft. or deeper
Sinuosity Channel changes (slight, mod., exten.) emarks ** Station #5 stream is ve Shade: light 0-25 percent shaded moderate 26-75 percent shaded heavy over 75 percent shaded Bottom types: Ledge rock — large mass of solid rock	1.3 None	1.1 None disappears und 2Pool types: Type A - Good B - Good C - Poor c	cover, 3 ft. or deeper cover, less than 3 ft. over, 3 ft. or deeper
Sinuosity Channel changes (slight, mod., exten.) Temarks ** Station #5 stream is verification #	1.3 None	1.1 None disappears und 2Pool types: Type A - Good B - Good C - Poor c	cover, 3 ft. or deeper cover, less than 3 ft. over, 3 ft. or deeper
Sinuosity Channel changes (slight, mod., exten.) emarks * Station #5 stream is ve Shade: light 0-25 percent shaded moderate 26-75 percent shaded heavy over 75 percent shaded Bottom types: Ledge rock — large mass of solid rock Boulder — over 10" in diameter Rubble — 3" to 10" in diameter Gravel — 1/8" to 3" in diameter	None small and	1.1 None disappears und 2Pool types: Type A - Good B - Good C - Poor c	cover, 3 ft. or deeper cover, less than 3 ft. over, 3 ft. or deeper
Sinuosity Channel changes (slight, mod., exten.) Temarks ** Station #5 stream is verification #	1.3 None ary small and	1.1 None disappears und 2Pool types: Type A - Good B - Good C - Poor c	cover, 3 ft. or deeper cover, less than 3 ft. over, 3 ft. or deeper
Sinuosity Channel changes (slight, mod., exten.) emarks * Station #5 stream is ve Shade: light 0-25 percent shaded moderate 26-75 percent shaded heavy over 75 percent shaded Sottom types: Ledge rock — large mass of solid rock Boulder — over 10" in diameter Rubble — 3" to 10" in diameter Gravel — 1/8" to 3" in diameter Sand — less than 1/8" in diameter	1.3 None ary small and	1.1 None disappears und 2Pool types: Type A - Good B - Good C - Poor c	cover, 3 ft. or deeper cover, less than 3 ft. over, 3 ft. or deeper
Sinuosity Channel changes (slight, mod., exten.) emarks * Station #5 stream is verification #5	1.3 None ery small and	1.1 None disappears und 2Pool types: Type A - Good B - Good C - Poor c	cover, 3 ft. or deeper cover, less than 3 ft. over, 3 ft. or deeper
Sinuosity Channel changes (slight, mod., exten.) Shade: light 0-25 percent shaded moderate 26-75 percent shaded heavy over 75 percent shaded Bottom types: Ledge rock — large mass of solid rock Boulder — over 10" in diameter Rubble — 3" to 10" in diameter Rubble — 1/8" to 3" in diameter Gravel — 1/8" to 3" in diameter Sand — less than 1/8" in diameter Silt — fine material with little gr Clay — compact, sticky material Muck — decomposed organic mate	1.3 None ery small and ittiness rial, usually black	1.1 None disappears und 2Pool types: Type A - Good B - Good C - Poor c D - Poor c	cover, 3 ft. or deeper cover, less than 3 ft. over, 3 ft. or deeper
Sinuosity Channel changes (slight, mod., exten.) Remarks * Station #5 stream is verification #5	1.3 None ery small and ittiness rial, usually black	1.1 None disappears und 2Pool types: Type A - Good B - Good C - Poor c D - Poor c	cover, 3 ft. or deeper cover, less than 3 ft. over, 3 ft. or deeper

(31) Characteristics of Water

1011 Ollaraccillatics of Water				
a) Station no.	1	1-a	2	3
b) Date	8/25/81	8/25/81	8/25/81	8/25/81
c) Loc. (mi. from mouth)	5.5	1.1	1.4	2
d) Length of station	661 feet	100 feet	325 feet	775 feet
e) <u>Time</u>	11:30	2:00	12:30	10:00
f) Air temp. ^O F.	71°	71°	71°	71°
g) Water temp. ^O F.	66°	66°	63°	64°
h) <u>Color</u>	Brown	Brown	Brown	Clear
() Cause of color	Iron Precipi	tate precipit	ate Pronipit	
) Secchi disc. (ft.)		- LECAPAC	te klacibit	a ce
FIELD DETERMINATIONS:	7.			
Diss. oxygen (ppm)	5 ppm	5 ppm	3 ppm	9 ppm
Free carbon dioxide (ppm)	15 ppm	10 ppm	15 ppm	15 ppm
FIELD DETERMINATION OR	The second second	***		
LABORATORY ANALYSIS				
(Indicate by F or L)				
Total alkalinity (ppm)	103 ppm	103 ppm	137 ppm	103 ppm
Conductivity (micromhos/cm) Chart	125 mic/cm	125 mic/cm	185 mic/cm	125 mic/cm
pH	7	7	6.9	7.3
LABORATORY ANALYSIS				+ - ' • 5
Total nitrogen (ppm)	4			
NH ₃ (ppm)				
NO ₂ (ppm)				ļ
NO ₃ (ppm)				
Total phosphorus (ppm)				
Orthophosphates (ppm)		**************************************		
Sulfate ion (ppm)				
Chloride ion (ppm)	· · · · · · · · · · · · · · · · · · ·			
B.O.D. (ppm)				
or C.O.D. (ppm)				
Turbidity (JTU)	:			
Tot. diss. solids (ppm)				
	ļ ————————————————————————————————————			
				

Remarks Iron precipitate in suspension causing brownish colored water in Station #1 and 4. Some precipitate in 1-a and 2.

(31)	Charac	teristics	αf	Water

(31)	Characteristics of water	•		•	
a)	Station no.	4	5		
b)	Date	8/25/81	8/25/81		
c)	Loc. (mi. from mouth)	6.6	7.6		
d)	Length of station	275 feet	200 feet		
e)	Time	12:30	11:00		
f)	Air temp. ^O F.	73°	69°		
g)	Water temp. ^O F.	63°	58°		
h)	Color	Orange	Clear		
i)	Cause of color	Iron Precipita			
j)	Secchi disc. (ft.)	*			
FIEL	D DETERMINATIONS:				
	Diss, oxygen (ppm)	3 ppm	5 ppm		
	Free carbon dioxide (ppm)	lo Test Taken	15 ppm		
FIEL	D DETERMINATION OR		PP		
LAB	ORATORY ANALYSIS				•
(Indi	cate by F or L)				
	Total alkalinity (ppm)	137 ppm	120 ppm		
	Conductivity (micromhos/cm)	185 mic/cm	160 mic/cm		
	pH	7.1	6.8		
LAB	ORATORY ANALYSIS				
	Total nitrogen (ppm)				
	NH ₃ (ppm)				
	NO ₂ (ppm)				
	NO ₃ (ppm)				
	Total phosphorus (ppm)				
	Orthophosphates (ppm)				
	Sulfate ion (ppm)				***************************************
	Chloride ion (ppm)				
	B.O.D. (ppm)				
	or C.O.D. (ppm)				
	Turbidity (JTU)				
	Tot, diss. solids (ppm)				
			·		
		·			

Remarks	

(32) Temperature Profile

Date	Location (miles from mouth)	Water Temp.	Air Temp.	Water Stage	Time	Cloud Cover
8/26/81	Station #1	67°	77.0	Normal	13:30	P. Cloudy-Haze
0/20/01 0/26/01	Station #2	66	77°	Below Norm		P. Cloudy-Haze
8/26/81	Tributary #2	67°	770	Normal Normal	14:20	P. Cloudy-nazi
8/26/81	Charles #7	67°	770		14:70	P. Cloudy
8/26/81	Station #3 Station #4	63°	730	Normal	14:10	P. Cloudy
8/26/81		58°		Normal	12:30	P. Cloudy-Haz
8/26/81	Station #5	58	69°	Normal.	11:30	P. Cloudy-Haze
politica de la companya de la compa			<u> </u>			

		,				
·			<u> </u>			

Remarks		

Station no.	1	1-a	2	3
Date	8/25/81	8/25/81	8/25/81	8/25/81
Loc. (miles from mouth)	5	1 1	1 4	2
Length of station	661 feet	100 feet	325 feet	775 feet
Aquatic plants or				
filamentous algae: 1				
Species	Abundance	Abundance	Abundance	Abundanc
Water Moss	A			
Green Fruited Burreed	C			0
Floatingleaf Burreed	0			0
Cattail	P			
Filamentous Algae	C			
Water Smartweed		0		
Arrowhead		0		0
Large Yellow Waterlily	,	0		
Little Yellow Waterlily		R		
Water Starwort			0	0
Marsh Marigold				0
Distribution of aquatic plants Filamentous algae scattered throughout quiet			ost other vege	tation
aquatic plants Filamentous algae			ost other vege	etation
aquatic plants Filamentous algae			ost other vege	tation
aquatic plants Filamentous algar scattered throughout quiet. Common invertebrates:	er water close		ost other vege	tation
common invertebrates: order or family (check blank if present	er water close		ost other vege	etation
aquatic plants Filamentous algar scattered throughout quiet. Common invertebrates:	er water close		ost other vege	etation
common invertebrates: order or family (check blank if present	er water close		ost other vege	etation
common invertebrates: order or family (check blank if present	er water close		ost other vege	etation
common invertebrates: order or family (check blank if present	er water close		ost other vege	etation
common invertebrates: order or family (check blank if present	er water close		ost other vege	etation
common invertebrates: order or family (check blank if present	er water close		ost other vege	etation
common invertebrates: order or family (check blank if present	er water close		ost other vege	etation
common invertebrates: order or family (check blank if present	er water close		ost other vege	etation
common invertebrates: order or family (check blank if present	er water close		ost other vege	etation
common invertebrates: order or family (check blank if present	er water close		ost other vege	etation
common invertebrates: order or family (check blank if present	er water close		ost other vege	etation
common invertebrates: order or family (check blank if present	er water close		ost other vege	etation
common invertebrates: order or family (check blank if present No Data	er water close	to banks.		etation
common invertebrates: order or family (check blank if present	er water close	to banks.		etation
common invertebrates: order or family (check blank if present No Data	er water close	to banks.		etation

¹Plant or algae abundance:

A – abundant

C - common

O - occasional

R - rare

P - present

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33) Biological Characteristics				
Station no.	4	5		
Date	8/25/81	8/25/81		
Loc. (miles from mouth)	6.6	7.5		
Length of station	275 feet	200 feet		
Aquatic plants or				
filamentous algae:1				
Species	Abundance	Abundance	Abundance	Abundance
Marsh Marigold	0			
Green Fruited Burreed	Č			
Sodge syn	Ŏ,			
Sedge spp Filamentous algae	Ä			
rataucitous argae				
	3.4			
graphical programmer and the control of the control				

			I	l
		· · · · · · · · · · · · · · · · · · ·		
Common invertebrates: order or family (check blank if prese	ent)			
No Data	,	7	I	I
	· · · · · · · · · · · · · · · · · · ·			
	1			
Market Ma		<u> </u>		
		<u> </u>		
1				
	<u> </u>		<u> </u>	<u> </u>
	3			
emarks Invertebrates not sam	<u>pled as was too</u>	late in summe	r.	
	<u> </u>			
				
Plant or algae abundance:				

A – abundant

C – common

O - occasional

R - rare

P - present

	tation no.			1-	ય	2		3	
-)ate	8/26/	′ 81	8/26	/81.	8/26/8	1	8/26	/81
***	.oc. (miles from mouth)								
Ĺ	ength of station	275 f		50	feet	125		300	feet
(Sear	Battery 12 volt	powere D.C.	d low vinput wi	oltage th 100	Michigat volt D.	n Backp C. 100H	ack Shoo z output	ker.
Ä	Amt. of sampling effort	15 min	utes	*3 min	utes	5 minu	tes	20 min	utes
S	pecies Present	No.	Wt.	No.	Wt.	No.	Wt.	No.	Wi
7	White Sucker	11						14	
	Yellow Perch	1				 		1-2-	
	Brook Trout	2						4	
	Northern Pike	1						1	*******
	Burbot	4							
	Northern Redbelly Dace		i,	7 yy		19		70yy	
	Brook Stickleback					19			
	Central Mudminnow					6			
	Fathead					3			
	Mottled Sculpin		-					3	******
_	Johnny Darter							2	
						· -		-	
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				ļ		<u> </u>			
			<u> </u>	ļ				 	
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-				<u></u>					
				 					
				 		 			
-				L			<u> </u>	<u> </u>	
C	Gamefish young-of-year Species:								
	Largemouth Bass	1				Τ	<u> </u>	Т	
-	Series were source		 	ļ				 	
	**************************************		 	<u> </u>		 		+	
	***************************************		 	-		 			
						 		 	
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-								 -	

	territoria de la composição de la compos	<u> </u>	<u> </u>			<u> </u>	L	<u> </u>	

(34)	(34) Fishery Characteristics								
a)	Station no.	4		5	5			1	
b)	Date	8/26/8		8/26/	' 81		· · · · · · · · · · · · · · · · · · ·		
c)	Loc. (miles from mouth)				_ <u></u>				
d)	Length of station	100 1	feet						
e)	Gear	Michiga	m Back 00 vlt.	No Ele	ctro-	***********			
•		Pack 10	0 vlt.	fishir	ig Done				
								İ	
f)	Amt. of sampling effort	5 min	ites	-					
					T		[<u> </u>	
g)	Species Present	No.	Wt.	No.	Wt.	No.	Wt.	No.	Wt.
	Brook Stickleback	8			 			 -	
	Northern Redbelly Dace	14			<u> </u>			 	
	Fathead	4			 				
	4 to base cots				 				
		 		···	 				
									
		<u> </u>			<u> </u>	· · · · · · · · · · · · · · · · · · ·			i
		 							
		 							
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	,								
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						*****	<u> </u>	L	
h)	Gamefish young-of-year			i					
	Species:		grafiation of the recognition and the same and to the						
							***************************************		······································
	-					**************************************			***************************************
						***************************************	***************************************		
		1							

Rema	orks								
		-					***************************************		

Species									
Total	Brook	White	Yellow	North-	Burbot				
Length	Trout	Sucker	Perch	ern]	ļ		ļ
in Inches				Pike					
3.0 - 3.4	1	 							ļ
3.5 - 3.9		 				 		 	···
4.0 - 4.4		 	1	······································	1			 	
4.5 - 4.9	····							·	<u> </u>
5.0 - 5.4		1							
5.5 - 5.9									
6.0 - 6.4		3			1			<u> </u>	
6.5 - 6.9		2		· · · · · · · · · · · · · · · · · · ·	1				
7.0 - 7.4		22			***				
7.5 - 7.9		11							
8.0 - 8.4		7		· · · · · · · · · · · · · · · · · · ·					
8.5 - 8.9	11	1						<u> </u>	
9.0 - 9.4	3	66		1	11_		<u> </u>	<u> </u>	
9.5 - 9.9 10.0 - 10.4		2						ļ	ļ
10.5 - 10.9	1		ļ					ļ	<u> </u>
11.0 - 11.4									ļ
11.5 – 11.9					****		<u> </u>		<u> </u>
12.0 - 12.4			7					1 200 000 000 000 000 000 000 000 000 00	<u> </u>
12.5 - 12.9									ļ
13.0 - 13.4									
13.5 - 13.9								 	
									<u> </u>
14.0 - 14.9				· · · · · · · · · · · · · · · · · · ·					
15.0 – 15.9				:				<u> </u>	<u> </u>
16.0 - 16.9			1						
17.0 17.9									
18.0 – 18.9					V				
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								ļ	ļ
26.0 – 26.9									
27.0 – 27.9	_								ļ
28.0 – 28.9					······				
29.0 - 29.9									ļ
30.0 30.9									
31.0 - 31.9		,				*****			
32.0 - 32.9					· · · · · · · · · · · · · · · · · · ·				
33.0 - 33.9				10 10	*				
34.0 34.9									
35.0 - 35.9							***************************************		
			1 1 1						
				. (
Totals	6	25	1	1	4				

(37) Escape Cover for Gamefish

No. Miles	Similar reach	\$ \$	Type ¹ and Amount ² of Cover
1 (0-1)		1 1	B-0; IV-0; LJ-S
la(1-1.9)			IV-F
2 (.6-2.3)			OV-0
3 (1.9-5.1)		·	B-F; VB-F: LJ-0
4 (5.1-6.7)			VB-0

5 (6.7-7.7)		, f	VB-0

¹Cover types:

LJ - log jam

B - boulders

OV - overhanging vegetation

UB - undercut bank

IV - instream vegetation

²Amount of cover:

S - scarce

O - occasional

F - frequent

(38) Portion of Stream Suitable for Gamefish

Species	No. Miles Suitable Reach (mi. to mi.)
Brook Trout	1 (0-1) - Good
	1a(1-1,9) - Good
	2 (.6-2.3) West CHANNEL - Poor - 10w cxygen
10.00 pt	3 (1.9-5.1) - Very Good
	4 (5.1-6.7) - Poor - Low oxygen
***************************************	5 (6.7-7.7) - Poor

(39) History of Stream and Fishing Conditions

- comparisons with past investigations and surveys. The 1968 survey compares favorably to the data accumulated in this survey. Stream temperature runs 10-15 higher in this survey but could be due to lower evening temperatures common later in September when the 1968 survey was run. 1968 survey 1 trout for 350' sampled. 1981 survey 6 trout for 850' sampled. There is no note of iron precipitate in 1968 survey as was found in this survey.
- b) History of fishing conditions According to an individual that has fished the stream for many years mile (1.9-5.1) has been very good for brook trout with some success down stream. He said heaver activity has caused a decline in success.

(39) History of Stream and Fishing Conditions (continued)

c)	Records	of	past	management
v,	11000103	Ο,	Pusc	management

_	*	
۳	isn	stocking

Year	Species	Size	Number or Pounds
1981	Brook Trout	Fingerling	38 1bs-19.7/1b; 749 fish
1981	Brook Trout	Yearling	242 1bs-3.3/1b; 799 fish
1980	Brook Trout	Yearling	190 1bs-4.2/1b; 800 fish
1979	Brook Trout	Fingerling	26 lbs-28.8/lb; 749 fish
1979	Brook Trout	Yearling	137 lbs-5.9/lb; 808 fish
1978	Brook Trout	Fingerling	16 lbs-46/lb; 736 fish
1978	Brook Trout	Yearling	110 1bs-7/1b: 770 fish
1977	Brook Trout	Fingerling	22 1bs-35/1b; 770 fish
1977	Brook Trout	Yearling	130 lbs-6/lb: 780 fish
1976	Brook Trout	Yearling	80 lbs-7/lb; 560 fish
1975	Brook Trout	Yearling	97 1bs-5.8/1b; 562 fish
1974	Brook Trout	Fingerling	22 1bs-45/1b; 990 fish

Year	Species	Size	Number or Pounds
None			

Special regulations.			

Habitat improvement:

Year Installed	Type and Amount	Location (mile to mile)	Cost	Present Condition
None		:		
		i.		

(40) Discussion of Fishery

a)

General characteristics Brook trout is the most commonly sought after fish in
this stream. According to local reports fishing intensity is light and the
quality of fishing has decreased in the past.

	imilar reach #3. Stre	eam bed is blocked wi	caused excessive siltation in th boulders in reach #1 and la
7	locking fish movement.	Thick alder growth	has limited access in reach #la
	nd upper section of #3	. The lower section	of reach #3 has been brushed provid
	ng good access.		
*********	<u> </u>		
-			
1) Ec	ological Classification of Waterw	vay Similar reach #1	, 1a, 3, 4 - Class I-C; similar
r	ological Classification of Waterweach #2, 5 Class I-D		

	115 C1- 4 m		tunem emissions in a low coder-
2) Su	immary Wyman Creek 18	a spring rea trout s	tream originating in a low cedar-
S	pruce bog flowing 9.4	miles south into the	Partriage River. The Stream Flows
t	through the Brie Mining	g complex then into a	low bog area surrounded by rolling
τ	pland forest. Bottom	types are hard/grave	el, rubble, boulders) but in some
	reas covered with mucl	k. Water temperature	es vary from 58° at the source to
7	70 down stream Brook	k trout were found in	the lower reaches of the stream.
	Region control coi	ild improve the stres	am by reducing siltation and impound
	beaver control co	and implove the street	d be beneficial to improve cover and
7	TIX OT MATER. DOING 21	ream Thinto Achiette Moor	id be beneficial to implove cover and
		To marrama I assaga bar	I down and muchla blook the atnoom
	he number of pools.	In several areas, bot	ilders and rubble block the stream
7 E	the number of pools. For some distance-impro	In several areas, bou	ilders and rubble block the stream
7 E	he number of pools.	In several areas, bou	ilders and rubble block the stream
7 E	the number of pools. For some distance-impro	In several areas, bou	ilders and rubble block the stream
7 E	the number of pools. For some distance-impro	In several areas, bou	ilders and rubble block the stream
T E	the number of pools. For some distance-impro	In several areas, bou	ilders and rubble block the stream
T	the number of pools. For some distance-impro	In several areas, bou	ilders and rubble block the stream
1	he number of pools. For some distance-impro additional room for tro	In several areas, bou	ilders and rubble block the stream
1	the number of pools. For some distance-improduced in the control of the control	In several areas, bou	alders and rubble block the stream would allow firsh movement and provide
7 7 8	the number of pools. For some distance-improduced in the control of the control	In several areas, bou	alders and rubble block the stream would allow firsh movement and provi
3) Cr	the number of pools. For some distance-improduced in the control of the control	In several areas, bou	ilders and rubble block the stream
- 1 - 2 - 3 - 3) Cr	the number of pools. For some distance-improduced in the control of the control	In several areas, bou	alders and rubble block the stream would allow firsh movement and provide
3) Cr	the number of pools. For some distance-improductional room for tropic dditional room for tropic	In several areas, bound ovement in this area out to inhabit. t Service - National	alders and rubble block the stream would allow firsh movement and provide
- 1 - 2 - 3 - 3) Cr	the number of pools. For some distance-improductional room for tronditional room for tronditional room. Tedits and Signatures Funding U.S. Fores.	In several areas, bound ovement in this area out to inhabit. t Service - National	nlders and rubble block the stream would allow firsh movement and provide
3) Cr	the number of pools. For some distance-improduced in the indicational room for tree indicational room for tree indicational room for indicationa	In several areas, bound ovement in this area out to inhabit. t Service - National Richard Thompson	alders and rubble block the stream would allow firsh movement and provide
3) Cr	the number of pools. For some distance-improductional room for tronditional room for tronditional room. Tedits and Signatures Funding U.S. Fores.	In several areas, bound ovement in this area out to inhabit. t Service - National	nlders and rubble block the stream would allow firsh movement and provide
3) Cr	the number of pools. For some distance-improduced in the indicational room for tree indicational room for tree indicational room for indicationa	In several areas, bound ovement in this area out to inhabit. t Service - National Richard Thompson	nlders and rubble block the stream would allow firsh movement and provide
3) Cr	the number of pools. For some distance-improduced in the indicational room for tree indicational room for tree indicational room for indicationa	In several areas, bound ovement in this area out to inhabit. t Service - National Richard Thompson	nlders and rubble block the stream would allow firsh movement and provide
3) Cr	redits and Signatures Funding U.S. Fores Field work by Name of crew leader	In several areas, bound ovement in this area out to inhabit. t Service - National Richard Thompson Steve Hirsch	nlders and rubble block the stream would allow firsh movement and provide
3) Cr a)	redits and Signatures Funding U.S. Fores Field work by Name of crew leader Name of aide(s) Completed report by	In several areas, bound ovement in this area out to inhabit. t Service - National Richard Thompson Steve Hirsch Richard Thompson	Iders and rubble block the stream would allow firsh movement and provide Forest Fish Management Program
3) Cr a)	the number of pools. For some distance-improductional room for tronditional room for tro	In several areas, bound ovement in this area out to inhabit. t Service - National Richard Thompson Steve Hirsch	Iders and rubble block the stream would allow firsh movement and provide Forest Fish Management Program
3) Cr a)	redits and Signatures Funding U.S. Fores Field work by Name of crew leader Name of aide(s) Completed report by	In several areas, bound ovement in this area out to inhabit. t Service - National Richard Thompson Steve Hirsch Richard Thompson	Iders and rubble block the stream would allow firsh movement and provide Forest Fish Management Program
3) Cr a) b)	redits and Signatures Field work by Name of aide(s) Completed report by Name Title	In several areas, bound ovement in this area out to inhabit. t Service - National Richard Thompson Steve Hirsch Richard Thompson	Iders and rubble block the stream would allow fash movement and provide Forest Fish Management Program
1 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	the number of pools. For some distance-improductional room for tronditional room for tro	In several areas, bound ovement in this area out to inhabit. t Service - National Richard Thompson Steve Hirsch Richard Thompson N. R. Specialist I	Iders and rubble block the stream would allow fash movement and provide Forest Fish Management Program
1 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	redits and Signatures Field work by Name of aide(s) Completed report by Name Title	In several areas, bound ovement in this area out to inhabit. t Service - National Richard Thompson Steve Hirsch Richard Thompson	Iders and rubble block the stream would allow firsh movement and provide Forest Fish Management Program
3) Cr a) b)	redits and Signatures Field work by Name of aide(s) Completed report by Name Title	In several areas, bound ovement in this area out to inhabit. t Service - National Richard Thompson Steve Hirsch Richard Thompson N. R. Specialist I	Iders and rubble block the stream would allow firsh movement and provi

MINNESOTA DEPARTMENT OF NATURAL RESOURCES

FISHERIES RECOMMENDATIONS FOR STREAM MANAGEMENT

Stream name _	Wyman Creek			
Alternate name	None			
Tributary no	S-2-57 -3	Date _	**************************************	·
Reach (mi. to n	ni.)			
Counties	St. Louis			
Stocking year1:	commendations: Continue present amings annually and 750 and out, stocking should	nual stocking of fingerlings annu- d be done at more	brook trout. St ally. With strea a locations.	ock 800 m banks
should for mo:	Improvement Should fund be done. Beaver dams re cover and pools, and ream flow.	removed, constr	uction done to al	.low
	quisition		;	
Land Mo	quisition			
Addition	nal Survey Work <u>Stream s</u> of 1984.	hould be re-asse	ssed again in the	3
Submitted by _	John Blakesley		Date 4/9/82	
odbiintted by _	Area Fisheries Ma	anager		
Approved by _	June. Pour	mm	Date <u></u>	7- Fa
	Regional Fisheries	Manager		

