

STREAM SYSTEM HABITAT RATING FORM

Stream UNNAMED Reach Location TN RD OFF 70/101

Reach Score/Rating 143/FAIR

County FLORENCE Date 5-18-82 Evaluator DOELGER

Classification PERPETUALLY WET - FFA (TROUT)

Rating Item	Category				
	Excellent		Good	Fair	Poor
Watershed	1. <u>Erosion</u>	No evidence of significant erosion. Stable forest or grass land. Little potential for future erosion. (8)	Some erosion evident. No significant "raw" areas. Good land mgmt. practices in area. Low potential for significant erosion. 10	Moderate erosion evident. Erosion from heavy storm events obvious. Some "raw" areas. Potential for significant erosion. 14	Heavy erosion evident. Probable erosion from any runoff. 16
	2. <u>Nonpoint Source</u>	No evidence of significant source. Little potential for future problem. 4	Some potential sources. (roads, urban area, farm fields). 8	Moderate sources. (Small wetlands, tile fields, urban area, intense agriculture). PASTURE SWAMP (16)	Obvious sources. (Major wetland drainage, high use urban or industrial area, feed lots, impoundment). 20
Upper Bank	3. <u>Erosion, Failure</u>	No evidence of significant erosion or bank failure. Little potential for future problem. (6)	Infrequent, small areas, mostly healed over. Some potential in extreme floods. 9	Moderate frequency and size. Some "raw" spots. Erosion potential during high flow. 15	Many eroded areas. "Raw" areas frequent along straight sections and bends. 18
	4. <u>Vegetative Protection</u>	90% plant density. Diverse trees, shrubs, grass. Plants healthy with apparently good root system. (6)	70-90% density. Fewer plant species. A few barren or thin areas. Vegetation appears generally healthy. 9	50-70% density. Dominated by grass, sparse trees and shrubs. Plant types and conditions suggest poorer soil binding. 15	<50% density. Many raw areas. Thin grass, few if any trees and shrubs. 18
Lower Bank	5. <u>Channel Capacity</u>	Ample for present plus some increase. Peak flows contained. W/D ratio ≤ 7. 8	Adequate. Overbank flows rare. W/D ratio 8-15. 10	Barely contains present peaks. Occasional overbank flow. W/D ratio 15 to 25. (14)	Inadequate, overbank flow common. W/D ratio > 25. 16
	6. <u>Deposition</u>	Little or no enlargement of channel or point bars. (6)	Some new increase in bar formation, mostly from course gravel. 9	Moderate deposition of new gravel and course sand on old and some new bars. 15	Heavy deposits of fine material, increased bar development. 18
Bottom	7. <u>Scouring and Deposition</u>	Less than 5% of the bottom affected by scouring and deposition. (4)	5 to 30% affected. Scour at constrictions and where grades steepen. Some deposition in pools. 8	30 to 50% affected. Deposits and scour at obstructions, constrictions and bends. Some filling of pools. 16	More than 50% of the bottom changing nearly year long. Pools almost absent due to deposition. 20

Rating	Item	Category							
		Excellent	Good	Fair	Poor				
Bottom	8. Substrate	Greater than 50% rubble, gravel or other stable habitat.	2	30 to 50% rubble, gravel or other stable habitat. Adequate habitat.	7	10 to 30% rubble, gravel or other stable habitat. Habitat availability less than desirable.	(17)	Less than 10% rubble, gravel or other stable habitat. Lack of habitat is obvious.	22
	9. Average Depth Q7,2	Greater than 24".	0	12" to 24".	6	6" to 12".	(18)	Less than 6".	24
	10. Flow Q7,2	Warm water, >5 cfs. Cold water, greater than 2 cfs.	(0)	Warm water, 2 to 5 cfs. Cold water, 1 to 2 cfs.	6	Warm water, .5 to 2 cfs. Cold water, .5 to 1 cfs. Continuous flow.	(18)	Less than .5 cfs. Stream may cease to flow in very dry years.	24
Stream	11. Pool/Riffle, Pool/Bend Ratio	5 to 7. Variety of habitat. Deep riffles and pools.	4	7 to 15. Adequate depth in pools and riffles. Bends provide habitat.	8	15 to 25. Occasional riffle or bend. Bottom contours provide some habitat.	16	Greater than 25. Essentially a straight stream. Generally all "flat water" or shallow riffle. Poor habitat.	(20)
	12. Aesthetics	Wilderness characteristics, outstanding natural beauty. Usually wooded or unpastured corridor.	8	High natural beauty. Trees, historic site. Some development may be visible.	(10)	Common setting, not offensive. Developed but uncluttered area.	14	Stream does not enhance aesthetics. Condition of stream is offensive.	16

Column Total --

Add column scores E 30 + G 10 + F 83 + P 20 Total Reach Score 143

≤ 70 = Excellent, 71-129 = Good, 130-200 = Fair, >200 Poor

*at this point the stream becomes diffuse
Caddis flies, Diptera*

STREAM SYSTEM HABITAT RATING FORM

Stream Channahon Reach Location South of Sec 19 in Florence Reach Score/Rating 90/Good+

County Florence Date 5-18-82 Evaluator D. J. G. E. R. Classification Trout St.

Rating Item	Category							
	Excellent	Good	Fair	Poor				
Watershed	1. <u>Erosion</u> No evidence of significant erosion. Stable forest or grass land. Little potential for future erosion.	8	Some erosion evident. No significant "raw" areas. Good land mgmt. practices in area. Low potential for significant erosion.	10	Moderate erosion evident. Erosion from heavy storm events obvious. Some "raw" areas. Potential for significant erosion.	14	Heavy erosion evident. Probable erosion from any runoff.	16
	2. <u>Nonpoint Source</u> No evidence of significant source. Little potential for future problem.	4	Some potential sources. (roads, urban area, farm fields).	8	Moderate sources. (Small wetlands, tile fields, urban area, intense agriculture).	16	Obvious sources. (Major wetland drainage, high use urban or industrial area, feed lots, impoundment).	20
Upper Bank	3. <u>Erosion, Failure</u> No evidence of significant erosion or bank failure. Little potential for future problem.	6	Infrequent, small areas, mostly healed over. Some potential in extreme floods.	9	Moderate frequency and size. Some "raw" spots. Erosion potential during high flow.	15	Many eroded areas. "Raw" areas frequent along straight sections and bends.	18
	4. <u>Vegetative Protection</u> 90% plant density. Diverse trees, shrubs, grass. Plants healthy with apparently good root system.	6	70-90% density. Fewer plant species. A few barren or thin areas. Vegetation appears generally healthy.	9	50-70% density. Dominated by grass, sparse trees and shrubs. Plant types and conditions suggest poorer soil binding.	15	<50% density. Many raw areas. Thin grass, few if any trees and shrubs.	18
Lower Bank	5. <u>Channel Capacity</u> Ample for present plus some increase. Peak flows contained. W/D ratio ≤ 7.	8	Adequate. Overbank flows rare. W/D ratio 8-15.	10	Barely contains present peaks. Occasional overbank flow. W/D ratio 15 to 25.	14	Inadequate, overbank flow common. W/D ratio > 25.	16
	6. <u>Deposition</u> Little or no enlargement of channel or point bars.	6	Some new increase in bar formation, mostly from course gravel.	9	Moderate deposition of new gravel and course sand on old and some new bars.	15	Heavy deposits of fine material, increased bar development.	18
Bottom	7. <u>Scouring and Deposition</u> Less than 5% of the bottom affected by scouring and deposition.	4	5 to 30% affected. Scour at constrictions and where grades steepen. Some deposition in pools.	8	30 to 50% affected. Deposits and scour at obstructions, constrictions and bends. Some filling of pools.	16	More than 50% of the bottom changing nearly year long. Pools almost absent due to deposition.	20

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Reach Score/Rating 143/FAIR

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	12. Aesthetics	Wilderness characteristics, outstanding natural beauty. Usually wooded or unpastured corridor.	8	High natural beauty. Trees, historic site. Some development may be visible.	(10)	Common setting, not offensive. Developed but uncluttered area.	14	Stream does not enhance aesthetics. Condition of stream is offensive.	16

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*at this point the stream becomes diffuse
Caddis Flies, Diptera*

STREAM SYSTEM HABITAT RATING FORM

Stream Channahon Reach Location South of Sec 19 in Florence Reach Score/Rating 90/Good+

County Florence Date 5-18-82 Evaluator D. Miller Classification Trout St.

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Bottom 8. <u>Substrate</u>	Greater than 50% rubble, gravel or other stable habitat.	(2) 30 to 50% rubble, gravel or other stable habitat. Adequate habitat.	7 10 to 30% rubble, gravel or other stable habitat. Habitat availability less than desirable.	17 Less than 10% rubble, gravel or other stable habitat. Lack of habitat is obvious.	22
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Column Total --

Add column scores E 40 + G 32 + F 18 + P _____ Total Reach Score 90

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BROOK TROUT OBSERVED

Rating	Category							
	Excellent		Good		Fair		Poor	
Bottom 8. <u>Substrate</u>	Greater than 50% rubble, gravel or other stable habitat.	2	30 to 50% rubble, gravel or other stable habitat. Adequate habitat.	(7)	10 to 30% rubble, gravel or other stable habitat. Habitat availability less than desirable.	17	Less than 10% rubble, gravel or other stable habitat. Lack of habitat is obvious.	22
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Stream 11. <u>Pool/Riffle, Pool/Bend Ratio</u>	5' to 7'. Variety of habitat. Deep riffles and pools.	4	7 to 15. Adequate depth in pools and riffles. Bends provide habitat. <i>UNDER CUT BANKS</i>	(8)	15 to 25. Occasional riffle or bend. Bottom contours provide some habitat.	16	Greater than 25. Essentially a straight stream. Generally all "flat water" or shallow riffle. Poor habitat.	20
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STREAM SYSTEM HABITAT RATING FORM

Stream UNNAMED Reach Location SE 1/4 SW 1/4 SEC 20 T4 R10E N2 Reach Score/Rating 79/ GOOD
 County RODNEY Date 5-18-82 Evaluator DOELGER Classification TROUT ST

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Lower Bank	5. <u>Channel Capacity</u> Ample for present plus some increase. Peak flows contained. W/D ratio ≤ 7 .	8	Adequate. Overbank flows rare. W/D ratio 8-15.	10	Barely contains present peaks. Occasional overbank flow. W/D ratio 15 to 25.	14	Inadequate, overbank flow common. W/D ratio >25.	16
	6. <u>Deposition</u> Little or no enlargement of channel or point bars.	6	Some new increase in bar formation, mostly from coarse gravel.	9	Moderate deposition of new gravel and coarse sand on old and some new bars.	15	Heavy deposits of fine material, increased bar development.	18
Bottom	7. <u>Scouring and Deposition</u> Less than 5% of the bottom affected by scouring and deposition.	4	5 to 30% affected. Scour at constrictions and where grades steepen. Some deposition in pools.	8	30 to 50% affected. Deposits and scour at obstructions, constrictions and bends. Some filling of pools.	16	More than 50% of the bottom changing nearly year long. Pools almost absent due to deposition.	20

STREAM SYSTEM HABITAT RATING FORM

Stream LN NAME Str. Reach Location TN Road 100 Above & 100 Below Reach Score/Rating 146 / FAIR

County Florence Date 5-18-82 Evaluator RAW Classification Perennial Wet Swamp

Rating Item	Category							
	Excellent	Good	Fair	Poor				
Watershed	1. <u>Erosion</u> No evidence of significant erosion. Stable forest or grass land. Little potential for future erosion.	8	Some erosion evident. No significant "raw" areas. Good land mgmt. practices in area. Low potential for significant erosion.	10	Moderate erosion evident. Erosion from heavy storm events obvious. Some "raw" areas. Potential for significant erosion.	14	Heavy erosion evident. Probable erosion from any runoff.	16
	2. <u>Nonpoint Source</u> No evidence of significant source. Little potential for future problem.	4	Some potential sources. (roads, urban area, farm fields).	8	Moderate sources. (Small wetlands, tile fields, urban area, intense agriculture).	16	Obvious sources. (Major wetland drainage, high use urban or industrial area, feed lots, impoundment).	20
Upper Bank	3. <u>Erosion, Failure</u> No evidence of significant erosion or bank failure. Little potential for future problem.	6	Infrequent, small areas, mostly healed over. Some potential in extreme floods.	9	Moderate frequency and size. Some "raw" spots. Erosion potential during high flow.	15	Many eroded areas. "Raw" areas frequent along straight sections and bends.	18
	4. <u>Vegetative Protection</u> 90% plant density. Diverse trees, shrubs, grass. Plants healthy with apparently good root system.	6	70-90% density. Fewer plant species. A few barren or thin areas. Vegetation appears generally healthy.	9	50-70% density. Dominated by grass, sparse trees and shrubs. Plant types and conditions suggest poorer soil binding.	15	<50% density. Many raw areas. Thin grass, few if any trees and shrubs.	18
Lower Bank	5. <u>Channel Capacity</u> Ample for present plus some increase. Peak flows contained. W/D ratio ≤ 7.	8	Adequate. Overbank flows rare. W/D ratio 8-15.	10	Barely contains present peaks. Occasional overbank flow. W/D ratio 15 to 25.	14	Inadequate, overbank flow common. W/D ratio > 25.	16
	6. <u>Deposition</u> Little or no enlargement of channel or point bars.	6	Some new increase in bar formation, mostly from course gravel.	9	Moderate deposition of new gravel and course sand on old and some new bars.	15	Heavy deposits of fine material, increased bar development.	18
Bottom	7. <u>Scouring and Deposition</u> Less than 5% of the bottom affected by scouring and deposition.	4	5 to 30% affected. Scour at constrictions and where grades steepen. Some deposition in pools.	8	30 to 50% affected. Deposits and scour at obstructions, constrictions and bends. Some filling of pools.	16	More than 50% of the bottom changing nearly year long. Pools almost absent due to deposition.	20

66
10
2

Rating Item	Excellent		Good		Fair		Poor	
Bottom 8. Substrate	Greater than 50% rubble, gravel or other stable habitat.	2	30 to 50% rubble, gravel or other stable habitat. Adequate habitat.	7	10 to 30% rubble, gravel or other stable habitat. Habitat availability less than desirable.	17	Less than 10% rubble, gravel or other stable habitat. Lack of habitat is obvious.	22
9. Average Depth Q7,2	Greater than 24".	0	12" to 24".	6	6" to 12".	18	Less than 6".	24
10. Flow Q7,2	Warm water, >5 cfs. Cold water, greater than 2 cfs.	0	Warm water, 2 to 5 cfs. Cold water, 1 to 2 cfs.	6	Warm water, .5 to 2 cfs. Cold water, .5 to 1 cfs. Continuous flow.	18	Less than .5 cfs. Stream may cease to flow in very dry years.	24
Stream 11. Pool/Riffle, Pool/Bend Ratio	5 to 7. Variety of habitat. Deep riffles and pools.	4	7 to 15. Adequate depth in pools and riffles. Bends provide habitat.	8	15 to 25. Occasional riffle or bend. Bottom contours provide some habitat.	16	Greater than 25. Essentially a straight stream. Generally all "flat water" or shallow riffle. Poor habitat.	20
12. Aesthetics	Wilderness characteristics, outstanding natural beauty. Usually wooded or unpastured corridor.	8	High natural beauty. Trees, historic site. Some development may be visible.	10	Common setting, not offensive. Developed but uncluttered area.	14	Stream does not enhance aesthetics. Condition of stream is offensive.	16

Column Total --

Add column scores E 26 + G 26 + F 36 + P 58 Total Reach Score 146

≤ 70 = Excellent, 71-129 = Good, 130-200 = Fair, > 200 Poor

MACRO's present

Simuliids -

Helicidius - caddisfly

Tipulids -

Snails -

marshy diffuse flows

Rating	Category								
	Excellent		Good		Fair		Poor		
Bottom	8. Substrate	Greater than 50% rubble, gravel or other stable habitat.	2	30 to 50% rubble, gravel or other stable habitat. Adequate habitat.	7	10 to 30% rubble, gravel or other stable habitat. Habitat availability less than desirable.	17	Less than 10% rubble, gravel or other stable habitat. Lack of habitat is obvious.	22
	9. Average Depth Q7,2	Greater than 24".	0	12" to 24".	6	6" to 12".	18	Less than 6".	24
	10. Flow Q7,2	Warm water, >5 cfs. Cold water, greater than 2 cfs.	0	Warm water, 2 to 5 cfs. Cold water, 1 to 2 cfs.	6	Warm water, .5 to 2 cfs. Cold water, .5 to 1 cfs. Continuous flow.	18	Less than .5 cfs. Stream may cease to flow in very dry years.	24
Stream	11. Pool/Riffle, Pool/Bend Ratio	5' to 7. Variety of habitat. Deep riffles and pools.	4	7 to 15. Adequate depth in pools and riffles. Bends provide habitat.	8	15 to 25. Occasional riffle or bend. Bottom contours provide some habitat.	16	Greater than 25. Essentially a straight stream. Generally all "flat water" or shallow riffle. Poor habitat.	20
	12. Aesthetics	Wilderness characteristics, outstanding natural beauty. Usually wooded or unpastured corridor.	8	High natural beauty. Trees, historic site. Some development may be visible.	10	Common setting, not offensive. Developed but uncluttered area.	14	Stream does not enhance aesthetics. Condition of stream is offensive.	16

Column Total --

Add column scores E 32 + G 20 + F 42 + P 18 Total Reach Score 117

≤ 70 = Excellent, 71-129 = Good, 130-200 = Fair, >200 Poor

STREAM SYSTEM HABITAT RATING FORM

Stream unnamed ^{at road} Reach Location Proposed discharge Area
SE of Sully Rd 20 ^{100 ft} Reach Score/Rating Good/117
 County Florence Date 5-18-82 Evaluator DCW Classification Continuous/Terrace

Rating Item	Category			
	Excellent	Good	Fair	Poor
1. <u>Erosion</u>	No evidence of significant erosion. Stable forest or grass land. Little potential for future erosion. 8	Some erosion evident. No significant "raw" areas. Good land mgmt. practices in area. Low potential for significant erosion. 10	Moderate erosion evident. Erosion from heavy storm events obvious. Some "raw" areas. Potential for significant erosion. 14	Heavy erosion evident. Probable erosion from any runoff. 16
2. <u>Nonpoint Source</u>	No evidence of significant source. Little potential for future problem. 4	Some potential sources. (roads, urban area, farm fields). 8	Moderate sources. (Small wetlands, tile fields, urban area, intense agriculture). 16	Obvious sources. (Major wetland drainage, high use urban or industrial area, feed lots, impoundment). 20
3. <u>Erosion, Failure</u>	No evidence of significant erosion or bank failure. Little potential for future problem. 6	Infrequent, small areas, mostly healed over. Some potential in extreme floods. 9	Moderate frequency and size. Some "raw" spots. Erosion potential during high flow. 15	Many eroded areas. "Raw" areas frequent along straight sections and bends. 18
4. <u>Vegetative Protection</u>	90% plant density. Diverse trees, shrubs, grass. Plants healthy with apparently good root system. 6	70-90% density. Fewer plant species. A few barren or thin areas. Vegetation appears generally healthy. 9	50-70% density. Dominated by grass, sparse trees and shrubs. Plant types and conditions suggest poorer soil binding. 15	<50% density. Many raw areas. Thin grass, few if any trees and shrubs. 18
5. <u>Channel Capacity</u>	Ample for present plus some increase. Peak flows contained. W/D ratio ≤ 7 . 8	Adequate. Overbank flows rare. W/D ratio 8-15. 10	Barely contains present peaks. Occasional overbank flow. W/D ratio 15 to 25. 14	Inadequate, overbank flow common. W/D ratio >25. 16
6. <u>Deposition</u>	Little or no enlargement of channel or point bars. 6	Some new increase in bar formation, mostly from course gravel. 9	Moderate deposition of new gravel and course sand on old and some new bars. 15	Heavy deposits of fine material, increased bar development. 18
7. <u>Scouring and Deposition</u>	Less than 5% of the bottom affected by scouring and deposition. 4	5 to 30% affected. Scour at constrictions and where grades steepen. Some deposition in pools. 8	30 to 50% affected. Deposits and scour at obstructions, constrictions and bends. Some filling of pools. 16	More than 50% of the bottom changing nearly year long. Pools almost absent due to deposition. 20

Watershed

Upper Bank

Lower Bank

Bottom

Rating	Item	Category				Score	Description	Total	
		Excellent	Good	Fair	Poor				
Bottom	8. <u>Substrate</u>	Greater than 50% rubble, gravel or other stable habitat.	2	30 to 50% rubble, gravel or other stable habitat. Adequate habitat.	7	10 to 30% rubble, gravel or other stable habitat. Habitat availability less than desirable.	17	Less than 10% rubble, gravel or other stable habitat. Lack of habitat is obvious.	22
	9. <u>Average Depth Q7,2</u>	Greater than 24".	0	12" to 24".	6	6" to 12".	18	Less than 6".	24
	10. <u>Flow Q7,2</u>	Warm water, >5 cfs. Cold water, greater than 2 cfs.	0	Warm water, 2 to 5 cfs. Cold water, 1 to 2 cfs.	6	Warm water, .5 to 2 cfs. Cold water, .5 to 1 cfs. Continuous flow.	18	Less than .5 cfs. Stream may cease to flow in very dry years.	24
Stream	11. <u>Pool/Riffle, Pool/Bend Ratio</u>	5 to 7. Variety of habitat. Deep riffles and pools.	4	7 to 15. Adequate depth in pools and riffles. Bends provide habitat.	8	15 to 25. Occasional riffle or bend. Bottom contours provide some habitat.	16	Greater than 25. Essentially a straight stream. Generally all "flat water" or shallow riffle. Poor habitat.	20
	12. <u>Aesthetics</u>	Wilderness characteristics, outstanding natural beauty. Usually wooded or unpastured corridor.	8	High natural beauty. Trees, historic site. Some development may be visible.	10	Common setting, not offensive. Developed but uncluttered area.	14	Stream does not enhance aesthetics. Condition of stream is offensive.	16

Column Total --

Add column scores E 40 + G 24 + F 34 + P 10 Total Reach Score 98

≤ 70 = Excellent, 71-129 = Good, 130-200 = Fair, >200 Poor

2 - 5" brook trout were retrieved from under cut banks
also 1 - 3" was observed.

STREAM SYSTEM HABITAT RATING FORM

Stream WAMMET

Reach Location Farm Division SW 1/4 SE 1/4 Sec 19

Reach Score/Rating 98/Good

County Flora

Date 5-18-82

Evaluator DDM

Classification Continuous fish habitat

Rating Item	Category				
	Excellent	Good	Fair	Poor	
Watershed	1. <u>Erosion</u> No evidence of significant erosion. Stable forest or grass land. Little potential for future erosion.	8 Some erosion evident. No significant "raw" areas. Good land mgmt. practices in area. Low potential for significant erosion.	10	14 Moderate erosion evident. Erosion from heavy storm events obvious. Some "raw" areas. Potential for significant erosion.	16 Heavy erosion evident. Probable erosion from any runoff.
	2. <u>Nonpoint Source</u> No evidence of significant source. Little potential for future problem.	4 Some potential sources. (roads, urban area, farm fields).	8	16 Moderate sources. (Small wetlands, tile fields, urban area, intense agriculture).	20 Obvious sources. (Major wetland drainage, high use urban or industrial area, feed lots, impoundment).
Upper Bank	3. <u>Erosion, Failure</u> No evidence of significant erosion or bank failure. Little potential for future problem.	6 Infrequent, small areas, mostly healed over. Some potential in extreme floods.	9	15 Moderate frequency and size. Some "raw" spots. Erosion potential during high flow.	18 Many eroded areas. "Raw" areas frequent along straight sections and bends.
	4. <u>Vegetative Protection</u> 90% plant density. Diverse trees, shrubs, grass. Plants healthy with apparently good root system.	6 70-90% density. Fewer plant species. A few barren or thin areas. Vegetation appears generally healthy.	9	15 50-70% density. Dominated by grass, sparse trees and shrubs. Plant types and conditions suggest poorer soil binding.	18 <50% density. Many raw areas. Thin grass, few if any trees and shrubs.
Lower Bank	5. <u>Channel Capacity</u> Ample for present plus some increase. Peak flows contained. W/D ratio ≤ 7 .	8 Adequate. Overbank flows rare. W/D ratio 8-15.	10	14 Barely contains present peaks. Occasional overbank flow. W/D ratio 15 to 25.	16 Inadequate, overbank flow common. W/D ratio >25.
	6. <u>Deposition</u> Little or no enlargement of channel or point bars.	6 Some new increase in bar formation, mostly from course gravel.	9	15 Moderate deposition of new gravel and course sand on old and some new bars.	18 Heavy deposits of fine material, increased bar development.
Bottom	7. <u>Scouring and Deposition</u> Less than 5% of the bottom affected by scouring and deposition.	4 5 to 30% affected. Scour at constrictions and where grades steepen. Some deposition in pools.	8	16 30 to 50% affected. Deposits and scour at obstructions, constrictions and bends. Some filling of pools.	20 More than 50% of the bottom changing nearly year long. Pools almost absent due to deposition.

Date: June 11, 1982

File Ref: 3200

To: Dennis Weisensel

From: Greg Kornely

Subject: FISHER CREEK, FLORENCE COUNTY

The last intensive fishery investigation of Fisher Creek was conducted in 1968-1970. This investigation included survey work on those portions of Fisher Creek both above and below Fisher Lake. A copy of that report is included. In that report the lower 2.9 miles of stream from Hwy 2 to its mouth, where it joins the Brule River, was considered Class I trout water. The remaining 2.0 miles of stream above Hwy 2 to its headwaters was considered Class III trout water. Fisher Creek is both an inlet and outlet to Fisher Lake in this area. The portion of Fisher Creek between Hwy 2 and Fisher Lake is stocked annually with 300 brook trout.

On June 8, 1982, two small sections of Fisher Creek above Fisher Lake were surveyed with electrofishing gear. Two brook trout were captured in the 100' section north of Bloome Road and seven brook trout were captured in a 200' section above and below Hwy 70 and 101. A copy of this survey is also included. While no natural reproduction or spawning habitat was found in these stations, more than one year class of trout was present.

Water temperatures were 52⁰ F at the Bloome Road station at 11:30 a.m. and 53⁰ F at the Hwy 70 station at 12:00 noon. This would indicate good ground-water seepage into these sections of stream. The section of stream south of Bloome Road runs through a pastured wetland.

Although only limited survey work was done at this time on the upper portion of Fisher Creek, it would still be considered Class III trout water.

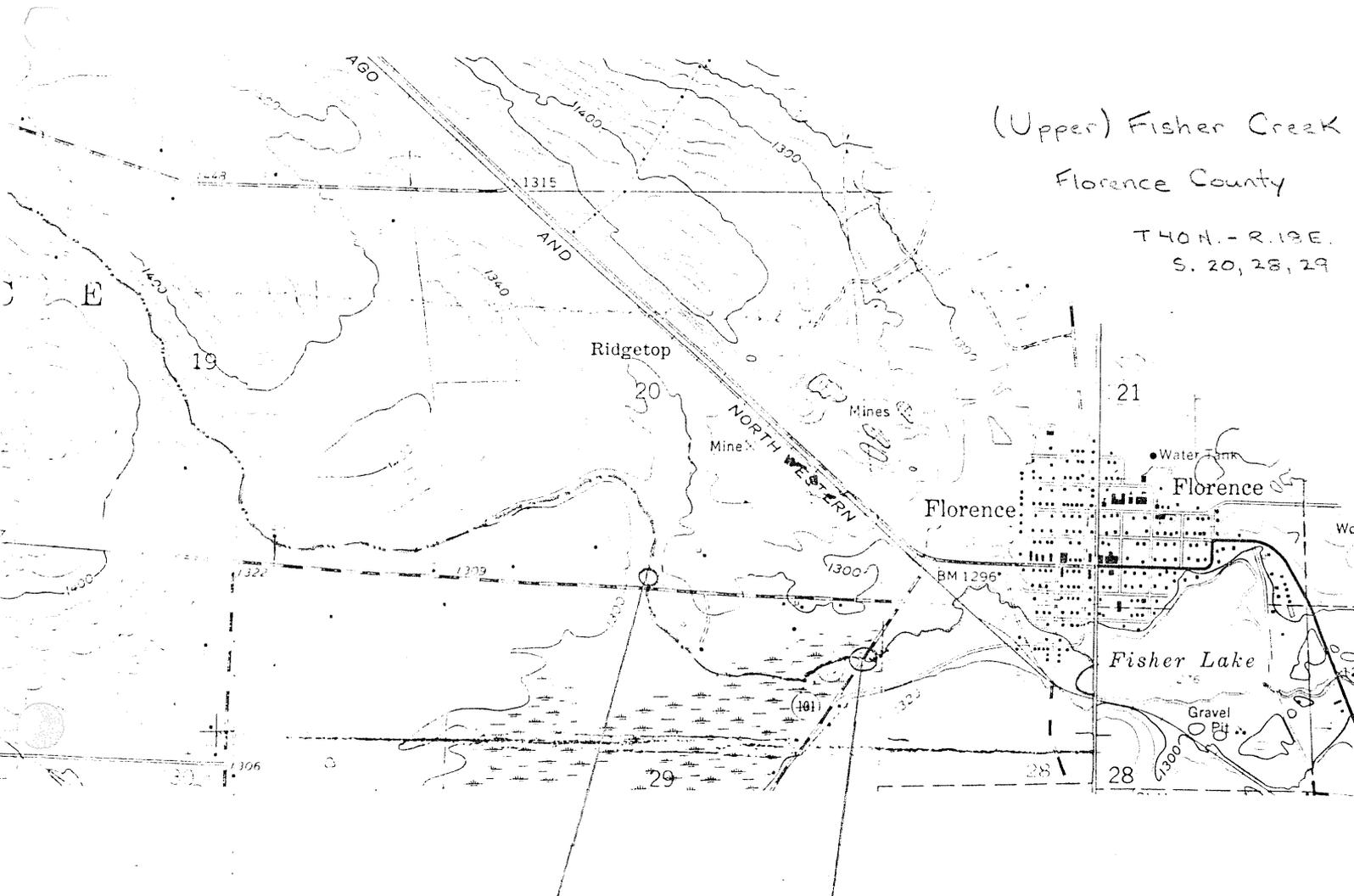
Greg Kornely *GK*
Natural Resources Technician

GK:jj

Attach.

(Upper) Fisher Creek
Florence County

T 40 N. - R. 12 E.
S. 20, 28, 29



STATION I

100' above road
.01 acre

STATION II

100' above Hwy 101 & 70
100' below " " "
.04 acre

STREAM SURVEY STATION REPORT

DEPARTMENT OF NATURAL RESOURCES

FORM 3600-39

NAME OF STREAM UPPER MOORE CREEK		Survey Station No. ....1.....		POINT OF EXAMINATION Upstream from town road (Bloome Rd) S. 20-T. 40N. - R. 12E.									
COUNTY FLORENCE													
Township 40N	Range 12E	Section 20	Distance Sampled (ft.) 100	GEAR USED Longline stream checker 250v.									
Avg. Width (ft.) 4.5'	Avg. Depth (ft.) .8'	Vol. of Flow (c.f.s.)	VELOCITY <input checked="" type="checkbox"/> Sluggish <input type="checkbox"/> Moderate <input type="checkbox"/> Rapid		Max. Flood Crest (ft.) 2-3'								
WATER <input checked="" type="checkbox"/> Clear <input type="checkbox"/> Stained <input type="checkbox"/> Dirty		CONDUCTANCE C _f C ₇₇	TEMPERATURE °F Water Air Time		pH	M.P.A.							
WATER LEVEL CONDITIONS.....In. Below <input checked="" type="checkbox"/> Normal In. Above		PRIOR WEATHER CONDITIONS Dry & Cool to Warm											
POLLUTION None observed													
STREAM BOTTOM TYPES (%)Bedrock Hardpan Boulder 2.....Rubble 2.....Gravel.....5.....Sand 5.....Silt Marl 46.....Detritus					POOL GRADE C-8								
					POOL-RIFFLE RATIO 99% Flatwater								
AQUATIC VEGETATION (Species) NONE		Abund.	AQUATIC VEGETATION (Species)		Abund.								
INSTREAM COVER		Scarce	Common	Abundant	Stable	Unstable	AQUATIC LIFE		Scarce	Common	Abundant		
Undercut banks				X			Stonefly						
Rocks, boulders		X					Mayfly		X				
Logs, trees		X					Caddisfly						
Debris		X					Shrimp						
Aquatic Vegetation		X					Crayfish						
STREAM BANK VEGETATION													
.....% Cultivated				.....% Upland Hardwood				.....% Swamp Conifer			
.....% Firm Pasture				.....% Upland Conifer				.....% Shrub Marsh			
100% Meadow Pasture				.....% Swamp Hardwood				.....% Open Marsh			
STREAM COVER <input type="checkbox"/> Dense <input checked="" type="checkbox"/> Partly Open <input type="checkbox"/> Open						FISHABILITY <input type="checkbox"/> Excellent <input type="checkbox"/> Good <input type="checkbox"/> Fair <input checked="" type="checkbox"/> Poor							
BANK EROSION <input type="checkbox"/> Heavy <input checked="" type="checkbox"/> Medium <input type="checkbox"/> Light <input type="checkbox"/> None						DAMS Man-made		Number		Height		Pool Area Above	
BANK HEIGHTS 2-3'								0					
NEED FOR INSTREAM DEVICES <input type="checkbox"/> Heavy <input type="checkbox"/> Medium <input type="checkbox"/> Light <input type="checkbox"/> None						Beaver (active)		0					
REMARKS						Beaver (inactive)		0					
Stream sources with many hummocks. Downstream from station area there is very little except that it is partially.													
DATE OF SURVEY 6-2-82						(use back of sheet for additional remarks)							
INVESTIGATOR KORHEL													

STREAM UPPER FISHER CREEK				INVESTIGATOR KORNELY, SAUNDERS		
Area Sampled:	LENGTH 100'	WIDTH 4.5'	AREA (ACRES) .01	STATION NO. 1	NO. PER ACRE est. 200	DATE 6-8-82

SIZE RANGE	SPECIES					
		BROOK TROUT				
1						
1.0 - 1.4						
1.5 - 1.9						
2.0 - 2.4						
2.5 - 2.9						
3.0 - 3.4						
3.5 - 3.9						
4.0 - 4.4						
4.5 - 4.9						
5.0 - 5.4						
5.5 - 5.9						
6.0 - 6.4		2				
6.5 - 6.9						
7.0 - 7.4						
7.5 - 7.9						
8.0 - 8.4						
8.5 - 8.9						
9.0 - 9.4						
9.5 - 9.9						
10.0 - 10.4						
10.5 - 10.9						
11.0 - 11.4						
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20.0 - 20.4						
20.5 - 20.9						
21.0 - 21.4						
21.5 - 21.9						
22.0 - 22.4						
22.5 - 22.9						
23.0 - 23.4						
23.5 - 23.9						
24.0 - 24.4						
24.5 - 24.9						
25 + (give actual size)						
TOTAL		2				

STREAM SURVEY STATION REPORT

DEPARTMENT OF NATURAL RESOURCES

FORM 3600-39

NAME OF STREAM DUPRE'S CREEK		Survey Station No. 2	POINT OF EXAMINATION Point downstream from Hwy 70 #101.	
COUNTY FLORENCE				
Township 40N	Range 19E	Section 28, 29	Distance Sampled (ft.) 200'	GEAR USED Long line streamshocker 250 v.
Avg. Width (ft.) 9.5'	Avg. Depth (ft.) .7'	Vol. of Flow (c.f.s.)	VELOCITY <input checked="" type="checkbox"/> Sluggish <input type="checkbox"/> Moderate <input type="checkbox"/> Rapid	
WATER <input checked="" type="checkbox"/> Clear <input type="checkbox"/> Stained <input type="checkbox"/> Dirty		CONDUCTANCE C _f C ₇₇	TEMPERATURE °F 53° Water 65° Air 1300 Time	
WATER LEVEL CONDITIONS.....In. Below <input checked="" type="checkbox"/> Normal In. Above		PRIOR WEATHER CONDITIONS Dry & Cool to Warm		
POLLUTION None observed.				
STREAM BOTTOM TYPES (%)Bedrock Hardpan Boulder 1.....Rubble 4.....Gravel.....5.....Sand 60.....Silt Marl 30.....Detritus				POOL GRADE B-C POOL-RIFFLE RATIO 95% Flat 5% riffle
AQUATIC VEGETATION (Species) Vallisneria	Abund. C	AQUATIC VEGETATION (Species)	Abund.	AQUATIC VEGETATION (Species) Abund.
INSTREAM COVER		Scarce	Common	Abundant
Overcut banks			X	
Rocks, boulders		X		
Logs, trees			X	
Debris			X	
Aquatic Vegetation			X	
AQUATIC LIFE		Scarce	Common	Abundant
Stonefly				
Mayfly				
Caddisfly			X	
Shrimp				
Crayfish				
STREAM BANK VEGETATION				
.....% Cultivated		.....% Upland Hardwood		.....70.....% Swamp Conifer
.....% Firm Pasture		.....% Upland Conifer		.....% Shrub Marsh
.....% Meadow Pasture		.....30.....% Swamp Hardwood		.....% Open Marsh
STREAM COVER		FISHABILITY		
<input type="checkbox"/> Dense <input checked="" type="checkbox"/> Partly Open <input type="checkbox"/> Open		<input type="checkbox"/> Excellent <input type="checkbox"/> Good <input checked="" type="checkbox"/> Fair <input type="checkbox"/> Poor		
BANK EROSION		DAMS		Number
<input type="checkbox"/> Heavy <input checked="" type="checkbox"/> Medium <input type="checkbox"/> Light <input type="checkbox"/> None		Man-made		0
BANK HEIGHTS		Beaver (active)		0
2'		Beaver (inactive)		0
NEED FOR INSTREAM DEVICES				
<input type="checkbox"/> Heavy <input type="checkbox"/> Medium <input type="checkbox"/> Light <input type="checkbox"/> None				
REMARKS Light fishing pressure at best, although locals do report trout being caught in the stream. II to Fisher Lake.				

(use back of sheet for additional remarks)

DATE OF SURVEY

6-8-92

INVESTIGATOR

KORNELY

STREAM UPPER FISHER CREEK				INVESTIGATOR KORNELY, SAUNDERS		
Area Sampled:	LENGTH 200'	WIDTH 9.5'	AREA (ACRES) .04	STATION NO. 2	NO. PER ACRE est. 175	DATE 6-8-82

SIZE RANGE	SPECIES					
1	BROOK TROUT					
1.0 - 1.4						
1.5 - 1.9						
2.0 - 2.4						
2.5 - 2.9						
3.0 - 3.4						
3.5 - 3.9						
4.0 - 4.4						
4.5 - 4.9		1				
5.0 - 5.4						
5.5 - 5.9						
6.0 - 6.4						
6.5 - 6.9						
7.0 - 7.4						
7.5 - 7.9		2				
8.0 - 8.4						
8.5 - 8.9		1				
9.0 - 9.4		1				
9.5 - 9.9		1				
10.0 - 10.4		1				
10.5 - 10.9						
11.0 - 11.4						
11.5 - 11.9						
12.0 - 12.4						
12.5 - 12.9						
13.0 - 13.4						
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20.0 - 20.4						
20.5 - 20.9						
21.0 - 21.4						
21.5 - 21.9						
22.0 - 22.4						
22.5 - 22.9						
23.0 - 23.4						
23.5 - 23.9						
24.0 - 24.4						
24.5 - 24.9						
25 + (give actual size)						
TOTAL		7				

Department of Natural Resources
INTRA-DEPARTMENT
MEMORANDUM

Woodruff
Station

Date..... March 18, 1971
Div. of Fish, Game & Enforcement

TO: E. C. Thomsen
ATTN: Arthur R. Ensign
FROM: Randolph Steuck
SUBJECT: Trout Inventory and Classification of Fisher Creek,
Florence County, Brule River Watershed

Fisher Creek is located in the northwest part of Florence County and is tributary to the Brule River. A medium hard water stream having slightly alkaline, light brown water, Fisher Creek flows through Fisher Lake (54 acres) which is located at the half way point in the Fisher Creek system. Two residential areas are located in the Fisher Creek watershed, the City of Florence and the Village of Commonwealth and several dairy and potato farms.

Two types of electro-fishing gear was used at twelve survey stations; the back-pack shocker and a 120 volt DC generator with a 100-foot cord and one electrode. Native brook trout were found in the lower one-half of stream and were in excellent condition. This portion of stream has good to excellent trout stream characteristics. Only one brook trout (fingerling) was captured in the upper one-half of Fisher Creek, this area being from Highways 2 and 141 upstream to the headwaters. Forage minnows were scarce throughout the stream. Bluegills were found at one station just below the outlet of Fisher Lake. Aquatic vegetation is very scarce in the lower one-half of stream but is common in the upper portion of Fisher Creek. Twenty-five percent of the stream length was surveyed.

Two population estimate stations were established in the Class IA portion of Fisher Creek. Brook trout ranged from 1,266 to 1,713 per acre with a biomass of 38.0 to 75.4 pounds. Brook trout per mile ranged from 1,681 to 2,274 with a biomass of 50.4 to 100.1 pounds.

Fisher Creek has five road crossings, however, only one is located in the portion of stream considered Class IA trout water. The only public land on Fisher Creek is possibly several hundred feet at the Florence Ranger Station on Highway 2 and 500 feet of stream frontage (one bank) owned by Florence County, just upstream from Highway 70.

Development close to the stream bank is light. A short section of Fisher Creek flows through a corner of the City of Florence and in some places grass lawn is maintained to the waters edge. The stream in this area is littered with discarded household items and old tires. Portions of the stream in the headwaters area is farmed to the waters edge.

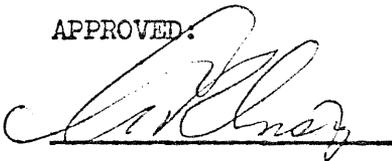
Past fish management activity on Fisher Creek has been limited to fish stocking. Currently, 300 brook trout holdovers are stocked in that portion of Fisher Creek adjacent to the Florence Ranger Station. This part of the stream is Class III trout water and fishing in this sector is limited to children 14 years of age and under. Local information suggests that harvest of these stocked trout is heavy. No trout were captured in this portion of the stream when surveyed in the month of August. Fisher Creek is classified as Class IA brook trout water from its confluence with the Brule River upstream to Highways 2 and 141, a distance of 2.9 miles (4.1 acres). From Highways 2 and 141 upstream to the headwaters is Class III trout water, 2 miles (1.2 acres).

Acquisition or conservation easement of the portion of Fisher Creek classified as IA trout water is recommended. Even though road access in the Class IA portion of stream is very limited, no additional access is recommended, as a measure to protect the near wilderness aspect of the stream. It is doubtful that any serious management can be considered for that part of Fisher Creek from Fisher Lake upstream because of low flow and smallness of the stream channel. Fisher Lake may have potential for trout management, but this should only be considered after intense lake investigation and if local interest warrants it. Fisher Lake has a surface area of 54 acres and a maximum depth of 49 feet. The fish population in Fisher Lake consists of northern pike, largemouth bass, brook trout, panfish, carp and forage minnows. Fisher Lake is the only lake in Florence County known to have a carp population.


Randolph Steuck

RS:lk
cc: Milton Burdick - Marinette
C. N. Lloyd
Attach.

APPROVED:



3/27/71
Date

NOTED:

_____ Date

STREAM SUMMARY REPORT

Name Fisher Creek County Florence

Location S14, T40N., R18E Tributary to: Brule River

Watershed: Brule River Basin

Size: Average width of trout water 9 ft. Total length of trout water 4.9 mi.

Area of trout water 5.3 acres. Total length of stream 4.9 mi.

Drainage Area: Direct 4.9 sq.mi. Total 9.6 sq. mi.

Flow: 4.9 (recorded) cfs. Average velocity Moderate Gradient: 32 ft/mi.

Temperatures: Average 62°F Minimum 47°F Maximum 75°F

Water temperatures represent those taken during survey.

Watershed Land Use: Agriculture - 60%, residential - 20%, forest - 20%

Bank Cover: Forest - 50%, brush - 40%, meadow - 10%

Instream Cover: Aquatic vegetation scarce. Rocks and logs common. Debris common.

Pool Grade and Pool-Riffle Ratio: Class B and C pools. 50% riffles, 50% flat water.

MOA: 80 ppm Conductance: 229 (77°F) Cl-7.0 ppm pH 7.1 Water color: Lt. Brown

Problems (List): Some solid waste disposal in stream within the city limits of Florence.

High water temperatures discharged from Fisher Lake during the summer months.

Fishing Conditions: Access Five road crossings. Wilderness type access on 5% of stream length.

Fishability Good on lower 2 miles. Poor on upper half.

Fishing intensity Heavy pressure in Florence area, mostly juveniles. Light pressure downstream.

Comments: Brook trout yearling are stocked in the Florence Area to provide fishing for children up to 14 years of age. Florence residents report a good harvest of stocked trout. Twenty-five percent of the stream length was shocked. Recorded discharge represents total Fisher Creek flow to Brule River on that date.

Date November 6, 1970

Investigator Randy Steuck

Stream: Fisher Creek

FISH DATA SUMMARY

County: Florence

METHOD OF SAMPLING		AREA SAMPLED		NO. MARKED FISH STOCKED		STOCKING DATES									
Back-pack AC, 120 DC, 100' cord		1.45 acres 6450 feet		None		None									
SPECIES	(Size group)	STATION NUMBERS												TOTAL	
	(inches)	1	2	3	4	5	6	7	8	9	10	11	12		
Brook trout	Fingerling <4	26	27	1	4	3	2	0	0	0	1				64
	Yearling 4-6	1	3	8	12	2									26
	Adults 6+	4	6	8	12	4									34
	Marked Fish														
TOTAL		31	36	17	28	9	2	0	0	0	1				124
Fingerling															
Yearling															
Adults															
Marked Fish															
TOTAL															
Fingerling															
Yearling															
Adults															
Marked Fish															
TOTAL															
Fingerling															
Yearling															
Adults															
Marked Fish															
TOTAL															
OTHER SPECIES															
White sucker							P	P							
Sculpin			P	4		P	P	C				P			4
Longnose Dace			P				P	P							
Mudminnow			P	1	1										2
Creek chub					4										4
TOTAL				5	5										10
GRAND TOTAL		31	36	22	33	9	2	0	0	0	1				134

MODAL SIZES OF THE PRIMARY SPECIES
Brook trout fgl. - 3.5, Yrlg. - 5.5, Adult - 7.0

NUMBER PER ACRE		ESTIMATED POUNDAGE PER ACRE	
TROUT	OTHER SPECIES	TROUT	OTHER SPECIES
See population estimate data	Insufficient data		

EVALUATION Good native brook trout population in that segment of Fisher Creek from its confluence with the Brule River upstream to Highways 2 and 141. High numbers of brook fingerling in the lower one mile of stream. Fisher Creek is Class I brook trout water from its confluence with the Brule River upstream to Highways 2 and 141, (2.9 miles and 4.1 acres). From highways 2 and 141 upstream to the headwaters is Class III trout water (2.0 miles and 1.2 acres).

DATE	INVESTIGATOR
Summer - 1968 Summer - 1970	Randy Steuck

STREAM SURVEY STATION REPORT

DEPARTMENT OF NATURAL RESOURCES

FI-242 Population Estimate Station Two

Box 450
Madison, Wisconsin 53701

NAME OF STREAM Fisher Creek		Survey Station No.	POINT OF EXAMINATION 300' up and 300' downstream from town road crossing in Section 22-15.		
COUNTY Florence					
Township 40N	Range 18E	Section 22	Distance Sampled (ft.) 600'	GEAR USED 120V-DC, one electrode-100' cord	
Avg. Width (ft.) 11.0	Avg. Depth (ft.) 0.8	Vol. of Flow (c.f.s.) 3.0 (est.)	VELOCITY <input type="checkbox"/> Sluggish <input type="checkbox"/> Moderate <input type="checkbox"/> Rapid		
WATER <input checked="" type="checkbox"/> Clear <input type="checkbox"/> Stained <input type="checkbox"/> Dirty		CONDUCTANCE C _f 296 C ₇₇	TEMPERATURE .....°F Water °F Air 12:00 Noon Time		Max. Flood Crest (ft.) 1.0'
				pH 7.0	M.P.A.
WATER LEVEL CONDITIONS.....In. Below <input checked="" type="checkbox"/> Normal In. Above		PRIOR WEATHER CONDITIONS Heavy overcast - no rain past 48 hrs.			
POLLUTION None observed					
STREAM BOTTOM TYPES (%)Bedrock Hardpan 15.....Boulder Rubble 35.....Gravel 30.....Sand 10.....Silt Marl 10.....Detritus				POOL GRADE B-Ab., C-Ab. POOL-RIFFLE RATIO 50% pool-riffle combination	
AQUATIC VEGETATION (Species)	Abund.	AQUATIC VEGETATION (Species)	Abund.	AQUATIC VEGETATION (Species)	Abund.
None observed					
STREAM COVER	Scarce	Common	Abundant	Stable	Unstable
Overcut banks	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	
Rocks, boulders			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Logs, trees		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	
Debris	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>
Aquatic Vegetation	0				
STREAM BANK VEGETATION		Aspen-Elm			
.....% Cultivated		.....70% Upland Hardwood		.....% Swamp Conifer	
.....% Firm Pasture		.....30% Upland Conifer		.....% Shrub Marsh	
.....% Meadow Pasture		.....% Swamp Hardwood		.....% Open Marsh	
STREAM COVER <input type="checkbox"/> Dense <input checked="" type="checkbox"/> Partly Open <input type="checkbox"/> Open			FISHABILITY <input type="checkbox"/> Excellent <input checked="" type="checkbox"/> Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor		
BANK EROSION <input type="checkbox"/> Heavy <input type="checkbox"/> Medium <input checked="" type="checkbox"/> Light <input type="checkbox"/> None			DAMS	Number	Height
			Man-made	0	
BANK HEIGHTS 2-4'			Beaver (active)	0	
			Beaver (inactive)	0	
REMARKS Excellent looking trout water.					

(use back of sheet for additional remarks)

DATE OF SURVEY

October 8, 1970

INVESTIGATOR

Randy Steuck

POPULATION ESTIMATE

STATION FISH SAMPLING SUMMARY
FORM 3600-57

DEPARTMENT OF NATURAL RESOURCES

Population Estimate Station Two

STREAM Fisher Creek				INVESTIGATOR Randy Steuck		
Area Sampled:	LENGTH 600'	WIDTH 11'	AREA (ACRES) 0.15	STATION NO.	NO. PER ACRE	DATE 10-8-70

SIZE RANGE	First run		SPECIES Second run			
	Brook trout		Brook trout			
1	Marked		Unmarked	Recap.		
1.0 - 1.4						
1.5 - 1.9						
2.0 - 2.4	1		1			
2.5 - 2.9	14		5	7		
3.0 - 3.4	36		9	21		
3.5 - 3.9	30		9	18		
4.0 - 4.4	14		5	7		
4.5 - 4.9			1			
5.0 - 5.4	2		1	2		
5.5 - 5.9	7		1	3		
6.0 - 6.4	3		5			
6.5 - 6.9	7		1	4		
7.0 - 7.4	1		1			
7.5 - 7.9			1			
8.0 - 8.4	1					
8.5 - 8.9	2			1		
9.0 - 9.4	1			1		
9.5 - 9.9						
10.0 - 10.4				(M)	(c)	
10.5 - 10.9				119	(39+65)104=12376 = 190	
11.0 - 11.4				65	65	trout
11.5 - 11.9				(R)		per 600
12.0 - 12.4						
12.5 - 12.9				1266	brook trout per acre	
13.0 - 13.4				38.0	pounds per acre	
13.5 - 13.9				1681	brook trout per mile	
14.0 - 14.4				50.4	pounds per mile	
14.5 - 14.9						
15.0 - 15.4						
15.5 - 15.9						
16.0 - 16.4						
16.5 - 16.9						
17.0 - 17.4						
17.5 - 17.9						
18.0 - 18.4						
18.5 - 18.9						
19.0 - 19.4						
19.5 - 19.9						
20.0 - 20.4						
20.5 - 20.9						
21.0 - 21.4						
21.5 - 21.9						
22.0 - 22.4						
22.5 - 22.9						
23.0 - 23.4						
23.5 - 23.9						
24.0 - 24.4						
24.5 - 24.9						
25 + (give actual size)						
TOTAL	119		39	65		

STREAM SURVEY STATION REPORT

DEPARTMENT OF NATURAL RESOURCES

FI-242 Population Estimate Station One

Box 450
Madison, Wisconsin 53701

NAME OF STREAM Fisher Creek			Survey Station No.		POINT OF EXAMINATION Started 50 feet upstream from confluence with Brule River and worked upstream 600'.						
NTY Florence											
Township 4ON	Range 18E	Section 14	Distance Sampled (ft.) 600'		GEAR USED 120V-DC One electrode - 100' cord						
Avg. Width (ft.) 11.0		Avg. Depth (ft.) 0.8		Vol. of Flow (c.f.s.) 5.0 (est.)		VELOCITY <input type="checkbox"/> Sluggish <input type="checkbox"/> Moderate <input checked="" type="checkbox"/> Rapid			Max. Flood Crest (ft.) 1.0		
WATER <input checked="" type="checkbox"/> Clear <input type="checkbox"/> Stained <input type="checkbox"/> Dirty			CONDUCTANCE 314 C _f / 77 C ₇₇		TEMPERATURE 55°F Water 74°F Air			pH 7.2		M.P.A. 115 pp	
Time 4:00 P.M.			M.P.A. 115 pp								
WATER LEVEL CONDITIONS.....In. Below <input checked="" type="checkbox"/> Normal In. Above			PRIOR WEATHER CONDITIONS Very light rain past 48 hrs.								
POLLUTION None observed.											
STREAM BOTTOM TYPES (%)Bedrock Hardpan 10.....Boulder 10.....Rubble 50.....Gravel.....20.....Sand 10.....Silt Marl Detritus							POOL GRADE B-Ab, C-Comm.				
							POOL-RIFFLE RATIO 60% pool-riffle combinati				
AQUATIC VEGETATION (Species)		Abund.	AQUATIC VEGETATION (Species)		Abund.	AQUATIC VEGETATION (Species)		Abund.			
None observed											
INSTREAM COVER		Scarce	Common	Abundant	Stable	Unstable	AQUATIC LIFE		Scarce	Common	Abundant
Ercut banks		<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		Stonefly		<input checked="" type="checkbox"/>		
Rocks, boulders				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		Mayfly				
Logs, trees			<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		Caddisfly			<input checked="" type="checkbox"/>	
Debris		<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>	Shrimp				
Aquatic Vegetation		<input type="checkbox"/>					Crayfish		<input checked="" type="checkbox"/>		
STREAM BANK VEGETATION											
.....% Cultivated			100% Upland Hardwood			.....% Swamp Conifer				
.....% Firm Pasture			.....% Upland Conifer			.....% Shrub Marsh			
.....% Meadow Pasture			.....% Swamp Hardwood			.....% Open Marsh			
STREAM COVER <input type="checkbox"/> Dense <input checked="" type="checkbox"/> Partly Open <input type="checkbox"/> Open						FISHABILITY <input type="checkbox"/> Excellent <input checked="" type="checkbox"/> Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor					
BANK EROSION <input type="checkbox"/> Heavy <input type="checkbox"/> Medium <input checked="" type="checkbox"/> Light <input type="checkbox"/> None						DAMS Man-made		Number	Height	Pool Area Above	
2-5'								0			
						Beaver (active)		0			
						Beaver (inactive)		0			
REMARKS Stream flow rapid with spawning gravel.											

(use back of sheet for additional remarks)

DATE OF SURVEY October 7, 1970	INVESTIGATOR Randy Steuck
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POPULATION ESTIMATE

STATION FISH SAMPLING SUMMARY
FORM 3600-57

DEPARTMENT OF NATURAL RESOURCES

Population Estimate Station One

STREAM Fisher Creek				INVESTIGATOR Randy Steuck		
Area Sampled:	LENGTH 600'	WIDTH 11'	AREA (ACRES) 0.15	STATION NO.	NO. PER ACRE	DATE 10-7-70
SIZE RANGE	First Run		SPECIES Second Run			
	Brook Trout Marked		Brook trout Unmarked	trout Recap.		
1.0 - 1.4						
1.5 - 1.9						
2.0 - 2.4						
2.5 - 2.9		2		3	1	
3.0 - 3.4		13		13	3	
3.5 - 3.9		12		11	3	
4.0 - 4.4		9		9	1	
4.5 - 4.9		1		2	2	
5.0 - 5.4		2		1		
5.5 - 5.9		2		2	1	
6.0 - 6.4		7		5	1	
6.5 - 6.9		4		3	3	
7.0 - 7.4		4		2	1	
7.5 - 7.9		1		2		
8.0 - 8.4		1				
8.5 - 8.9						
9.0 - 9.4						
9.5 - 9.9				2		
10.0 - 10.4						Brook Trout
10.5 - 10.9						
11.0 - 11.4					(M) (C)	
11.5 - 11.9					58	55+16)71 = 4118 = 257 brook trout
12.0 - 12.4					16	16 trout
12.5 - 12.9					(R)	per 600'
13.0 - 13.4						
13.5 - 13.9					1,713	brook trout per acre
14.0 - 14.4					75.4	pounds brook trout per ac
14.5 - 14.9					2,274	brook trout per mile
15.0 - 15.4					100.1	pounds brook trout per mi
15.5 - 15.9						
16.0 - 16.4						
16.5 - 16.9						
17.0 - 17.4						
17.5 - 17.9						
18.0 - 18.4						
18.5 - 18.9						
19.0 - 19.4						
19.5 - 19.9						
20.0 - 20.4						
20.5 - 20.9						
21.0 - 21.4						
21.5 - 21.9						
22.0 - 22.4						
22.5 - 22.9						
23.0 - 23.4						
23.5 - 23.9						
24.0 - 24.4						
24.5 - 24.9						
25 + (give actual size)						
TOTAL		58		55	16	