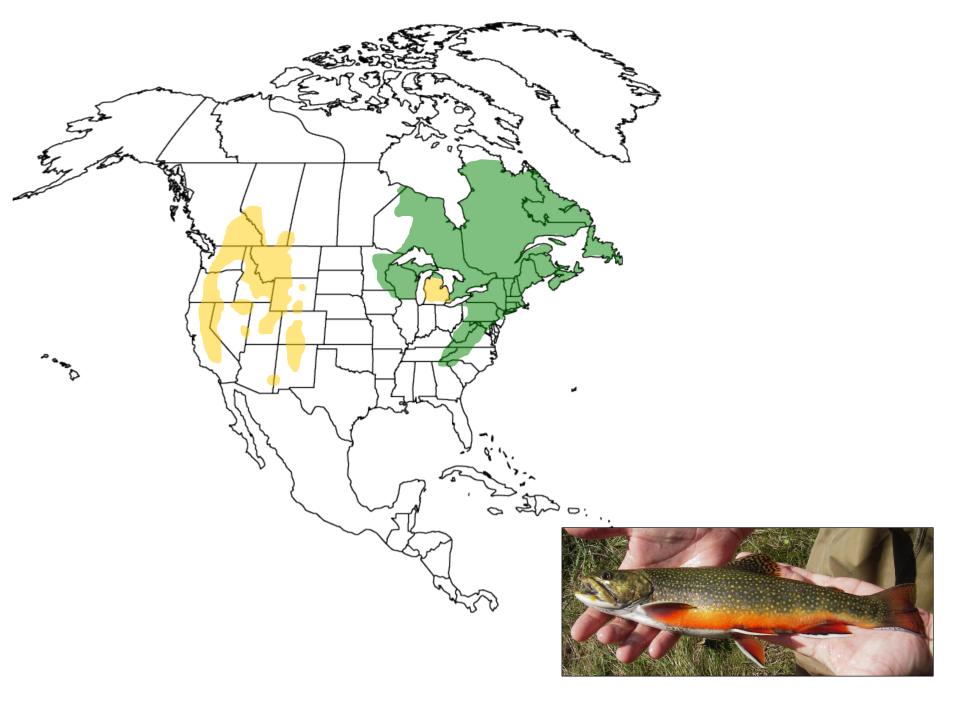
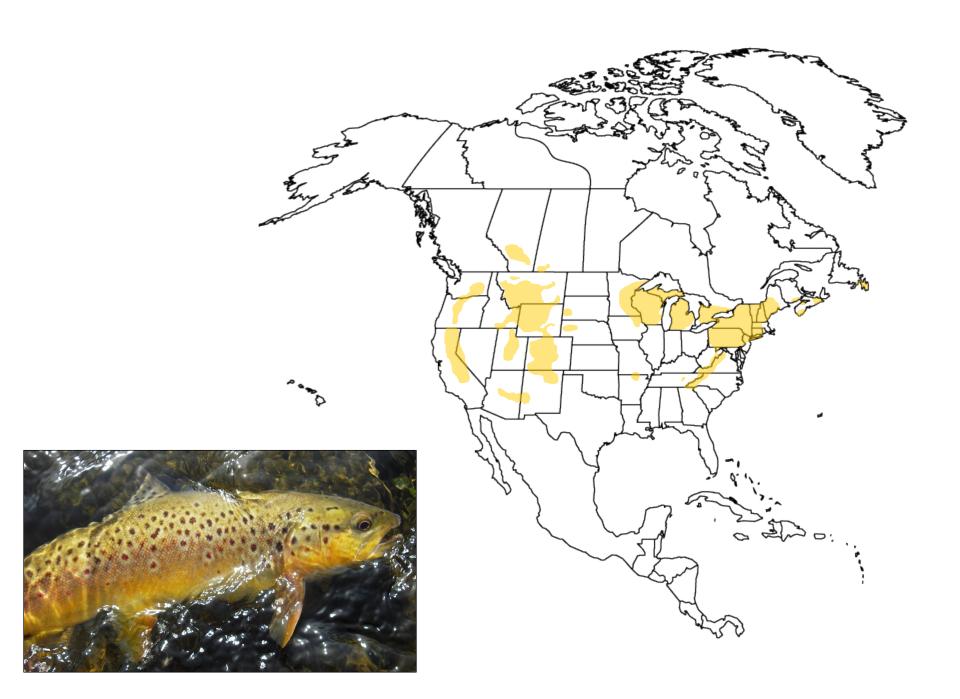
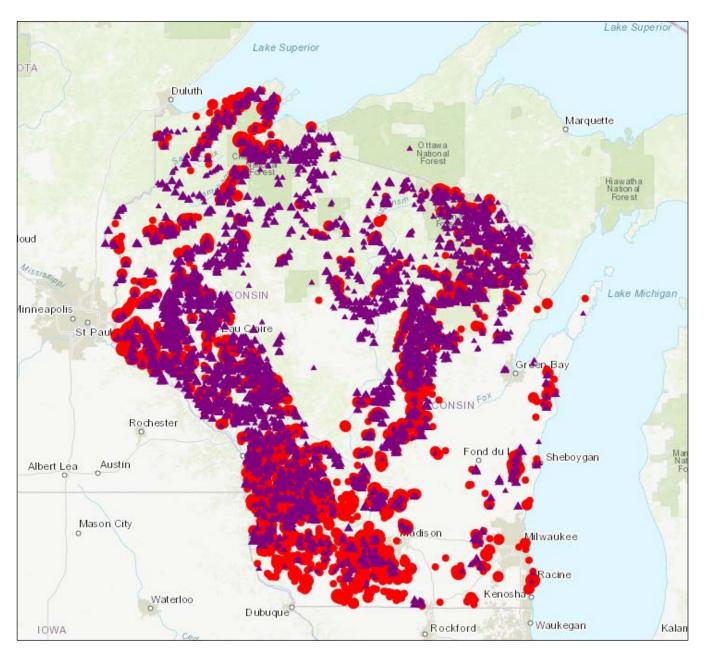
# WDNR Trout Management Program: A Brief Background











- **▲** Brook Trout
- Brown Trout

























### **GUIDELINES FOR** MANAGEMENT OF TROUT STREAM HABITAT IN WISCONSIN



TECHNICAL BULLETIN NUMBER 26 EFFECTS OF

ANGLING REGULATIONS

ON A

ERVATION DEPARTMENT • 1962

WILD BROOK TROUT

FISHERY

Madison Wisco

**ANNUAL PRODUCTION** BY BROOK TROUT IN LAWRENCE CREEK DURING **ELEVEN** SUCCESSIVE YEARS

> TECHNICAL BULLETIN NO. 82 PARTMENT OF NATURAL RESOURCES Madison, Wisconsin



A Compendium of 58 Trout Stream Habitat Development Evaluations in Wisconsin\_ 1985-20001

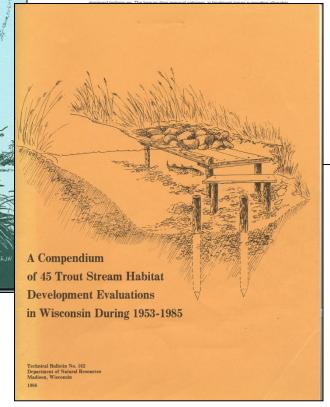
by Ed L. Avery Bureau of Integ Waupaca, WI ated Science Services

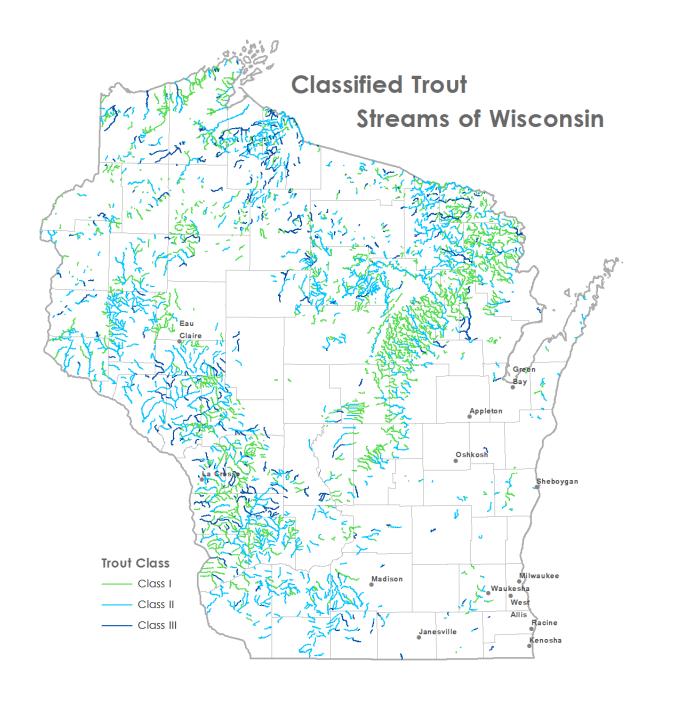
**Abstract** 

standard format was devised to summarize 58 frout stream habitat evaluations carried ut by Wisconsin Department of Natural Resources biologists and University of Wisconsin oursey versions ungainment or relation insequence to counts our on the counts of versions of the counts of the counts of the counts out on the counts out of the counts of the c icreases in the population variable of 25% or more and Level 2= increases in the population ariable of 50% or more. Approximately 55% of the changes in 140 population variables analyzed had Level 1 success

after habital development; 50% had Level 2 success. Total abundance of trout met Level 1 success in 43% of the treatment zones. Success rate at Level 2 was found in 31% of the treatment zones. Abundance of legal size trout achieved success rates of 65% and 62% at Levels 1 and 2, respectively. In treatment zones with aliopatiric populations of brook trout or brown trout, success rates were similar. In sympatric populations, brown trout responded much more positively than brook trout did to habitat development.

Habitat development techniques employed were grouped into 9 categories based on the pre-





**Class I** 5,365 mi 40%

**Class II** 6,120 mi 46%

**Class III** 1,786 mi 14%

### Trout stream surveys

Stream shocker or backpack

15 June - 15 September

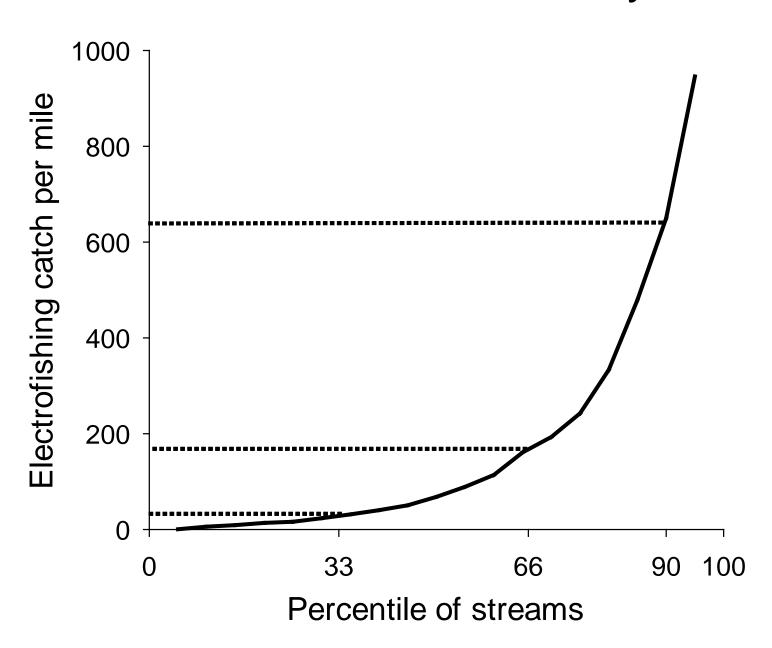
All species collected

CPE, IBI, trout size structure, qualitative habitat

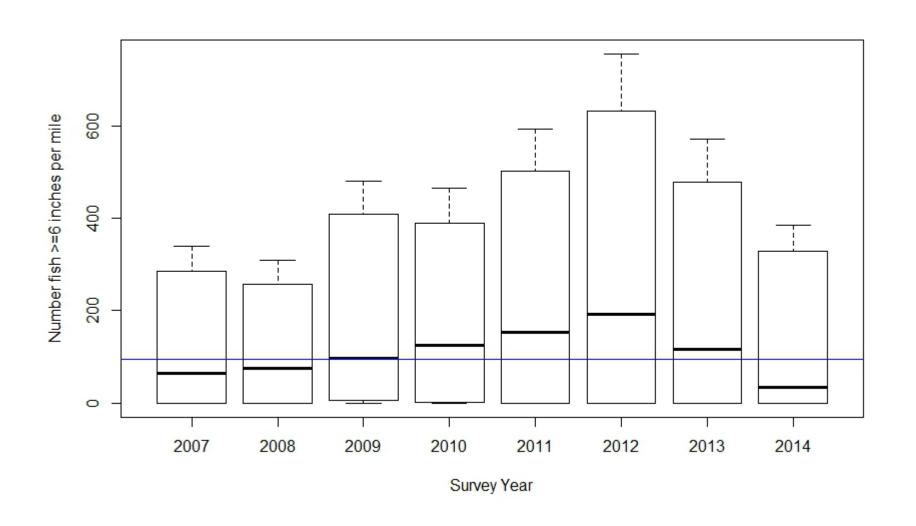




### **Brown Trout Density**



### Brook and brown trout (≥ 6 in) indices of abundance



# How Wisconsin manages trout

### **Habitat**

Stream habitat protection, restoration, rehabilitation Land use & watershed management Beaver control

# Stocking

Trout stocking guidance F1 vs. F2 vs. Fn

### Regulations

New trout fishing regulations in 2016 Trout angler survey data

### Trout Stream Habitat Management



Trout stamp funds for trout stream habitat restoration and rehabilitation

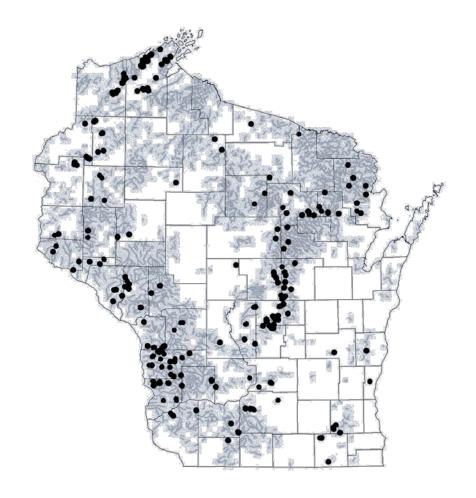
Since 1978 raised about \$25 million and restored over 700 miles of trout stream habitat

Currently \$1.2 million and 25 miles of stream habitat work per year

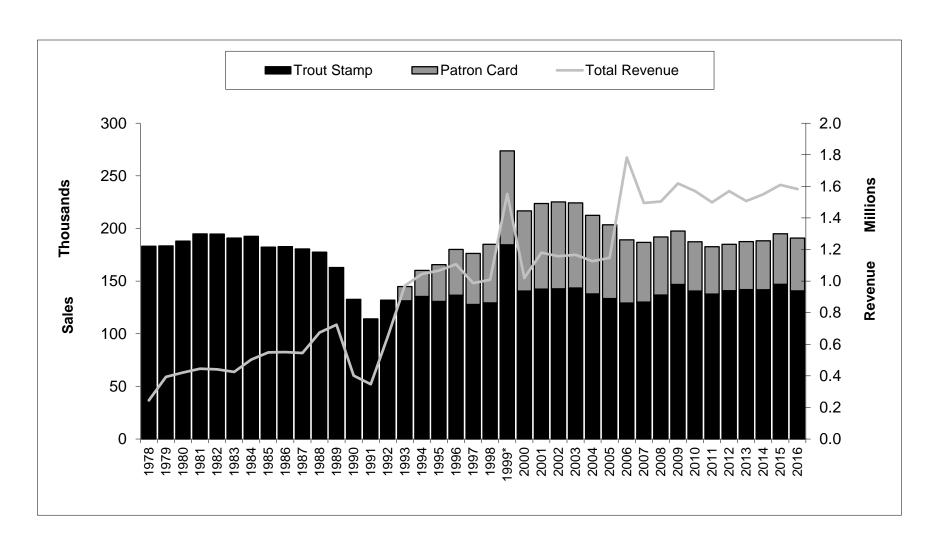
### Trout Stream Habitat Management

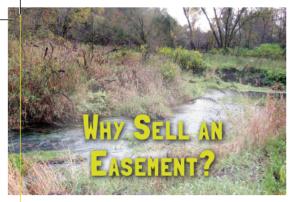


FY 2011-2016 Habitat Projects



### Inland Trout Stamp Sales





### Signing an easement leaves a conservation legacy for future generations:

- It helps ensure permanent protection of your land along the stream
- An easement may be the least expensive solution to correct environmental problems
- The landowner retains the rights on the majority of their property.
- The cash payment can be significant, with no spending restrictions
- Easements may qualify the seller for other financial assistance such as help with fencing costs and livestock management, erosion control and stream restoration work

### MANAGING FOR THE FUTURE...

In general, DNR purchases the rights to:

- Manage vegetation along the stream bank.
- Manage instream habitat.
- Provide public access for fishing (excludes hunting and trapping).

### WHAT IS A STREAM BANK PROTECTION EASEMENT?

A stream bank easement is a voluntary legal agreement between a landowner and the Department of Natural Resources that provides for public angling and other recreation while protecting fisheries, water quality and riparian areas for the future. A stream bank easement includes the right to improve stream habitat, fence livestock out of the stream corridor, manage streamside vegetation, prohibit streamside development and provide public access for angling, wildlife observation and hiking. The department retains easement rights if the landowner sells the land.

### WHAT LAND IS ELIGIBLE?

The department maintains maps for streams and DNR properties that are eligible for stream bank protection funding. Over 3,070 miles of streams located in 44 counties are eligible.

Maps are available online - please visit dur. wi. gov and search keyword "streambank."

The Stream Bank Easement Program focuses on protecting land bordering streams designated as "high quality" by the Wisconsin Department of Natural Resources. These stream corridors (a minimum of 66 feet from each stream bank) protect water quality, wild-life habitat and recreational opportunities.

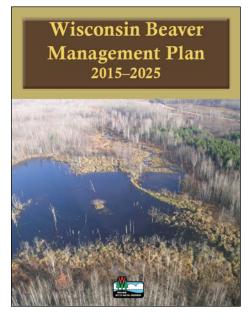


### **Beaver Control**







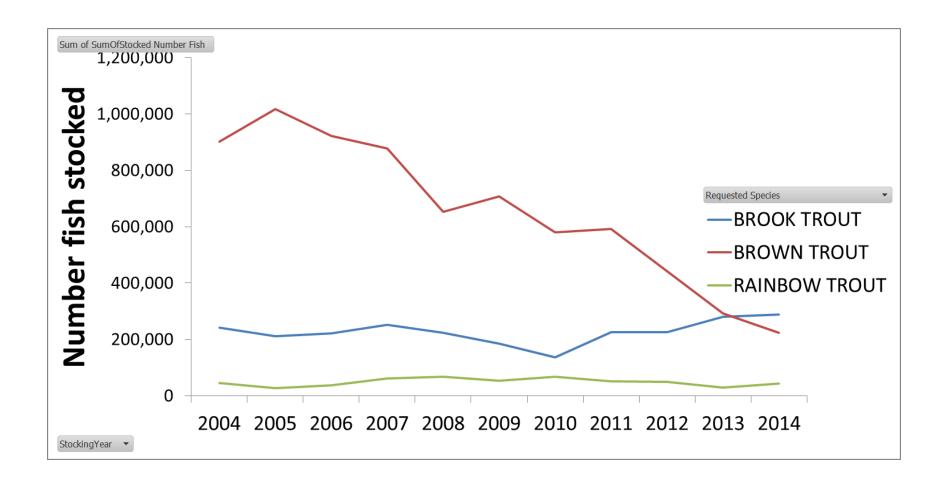


# How Wisconsin manages trout

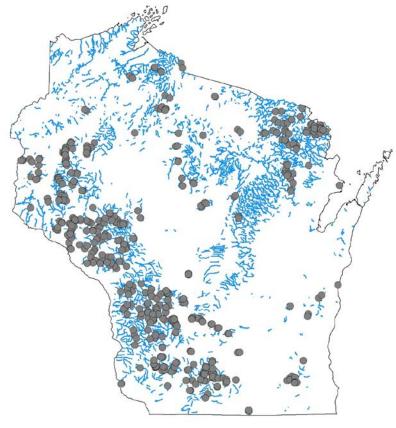
# Stocking

Trout stocking guidance F1 vs. F2 vs. Fn



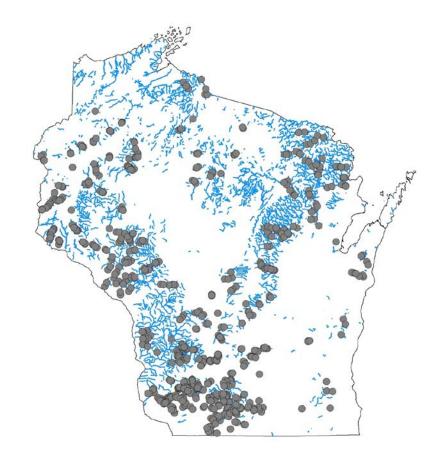


# **Brook Trout Stocking**

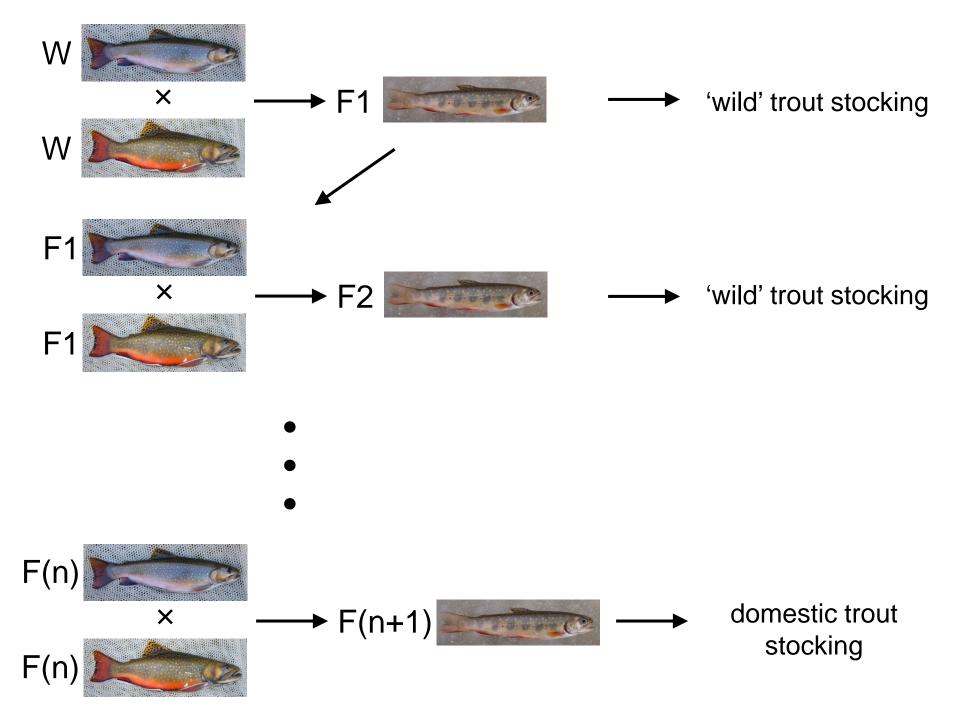




### **Brown Trout Stocking**









Field Performance of Wild and Domestic Brown Trout Strains in Two Wisconsin Rivers

by Ed L. Avery, Al Niebur, and David Vetrano

November 2001





### Abstract

We evaluated whether improvement in survival and growth of stocked brown trout could be accomplished by using first-generation wild strains instead of domestic strains. We also examined whether improvement in survival and growth of domestic strains might result from improving the hatchery rearing environment rather than changing the genetic lineage.

We stocked three

"...survival rates 2-4 times greater for stocked trout of wild versus domestic parentage..."

- Session 5-Contributed Papers



### Stocking Trout of Wild Parentage to Restore Wild Populations: An Evaluation of Wisconsin's Wild Trout Stocking Program

### M. G. Mitro

Coldwater Fisheries Research Scientist, Wisconsin Department of Natural Resources. Monona. Wisconsin

ABSTRACT—The Wisconsin Department of Natural Resources (WDNR) manages trout streams using a combination of stream habitat protection and improvement, fishing regulations, and stocking of hatchery-reared trout. The WDNR initiated a wild trout stocking program in 1995 to improve the quality of hatchery-reared brook and brown trout by raising offspring of wild parentage. The goals of the wild trout stocking program are to increase the survival and longevity of trout stocked in streams and to ultimately develop self-sustaining populations of wild trout. It is thought that hatchery trout of wild parentage maintain the genetic diversity and better embody the characteristics found in wild populations and may therefore improve restoration success. I collectively analyzed evaluations of wild trout stocking across Wisconsin to determine whether program goals were being fulfilled and to identify any research gaps. Preliminary analyses indicated survival rates 2-4 times greater for stocked trout of wild versus domestic parentage, and some increases in natural reproduction have been observed. Habitat, however, may be limiting the restoration of selfsustaining populations in some streams. Future research will address habitat limitations to survival and reproduction of stocked wild trout and the long-term viability of source populations for the wild trout stocking program.

# How Wisconsin manages trout

# Regulations

New trout fishing regulations in 2016 Trout angler survey data



# **Trout Angler Surveys**

Public Input for Wisconsin's Inland Trout Program

> Matthew G. Mitro Bureau of Science Services

Martin P. Engel Bureau of Fisheries Management

Richard S. Stewart Bureau of Fisheries Management

Jordan B. Petchenik Bureau of Science Services

Wisconsin Department of Natural Resources 101 South Webster Street Madison, WI 53707

March 2014

Results of the 2011 Survey of Lapsed Wisconsin Inland Trout Anglers

> Submitted to: Bureau of Fisheries Management

Prepared by: Bureau of Science Services

May 2012

For additional information please contact:

Jordan Petchenik Department of Natural Resources Bureau of Science Services 101 South Webster Street Madison, WI 53707 608/266-8523

jordan.petchenik@wisconsin.gov

Trout Fishing in Wisconsin: Angler Behavior, Program Assessment and Regulation and Season Preferences

> Submitted to: Bureau of Fisheries Management

Prepared by: Bureau of Science Services

January 2014

For additional information please contact:

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jordan.petchenik@wisconsin.gov

http://dnr.wi.gov/topic/fishing/outreach/TroutRegReview.html

### **Trout Regulations Key**

The legend below shows you the regulation categories that are shown on the maps. Each color means a different length and bag limit.

### Regulation Category:

No.	Color	Minimum Length Limit	Daily Bag Limit
2		7 inches	5
3		9 inches	3
4		Brown and Rainbow trout - 12 inches Brook trout - 8 inches.	. 3 (in total)
5		Special Regulations - length and bag limits to see Specific Waters Listed by County	

Trout regulations 1990-2015

# Regulations Category Color Minimum Length Limit Daily Bag Limit None 5 in total 8 inches 3 in total Special regulations: length and bag limit may vary by water Lake Michigan and Lake Superior tributaries

Trout regulations 2016-

