Trout Unlimited – Driftless Area Restoration Effort

Jeff Hastings

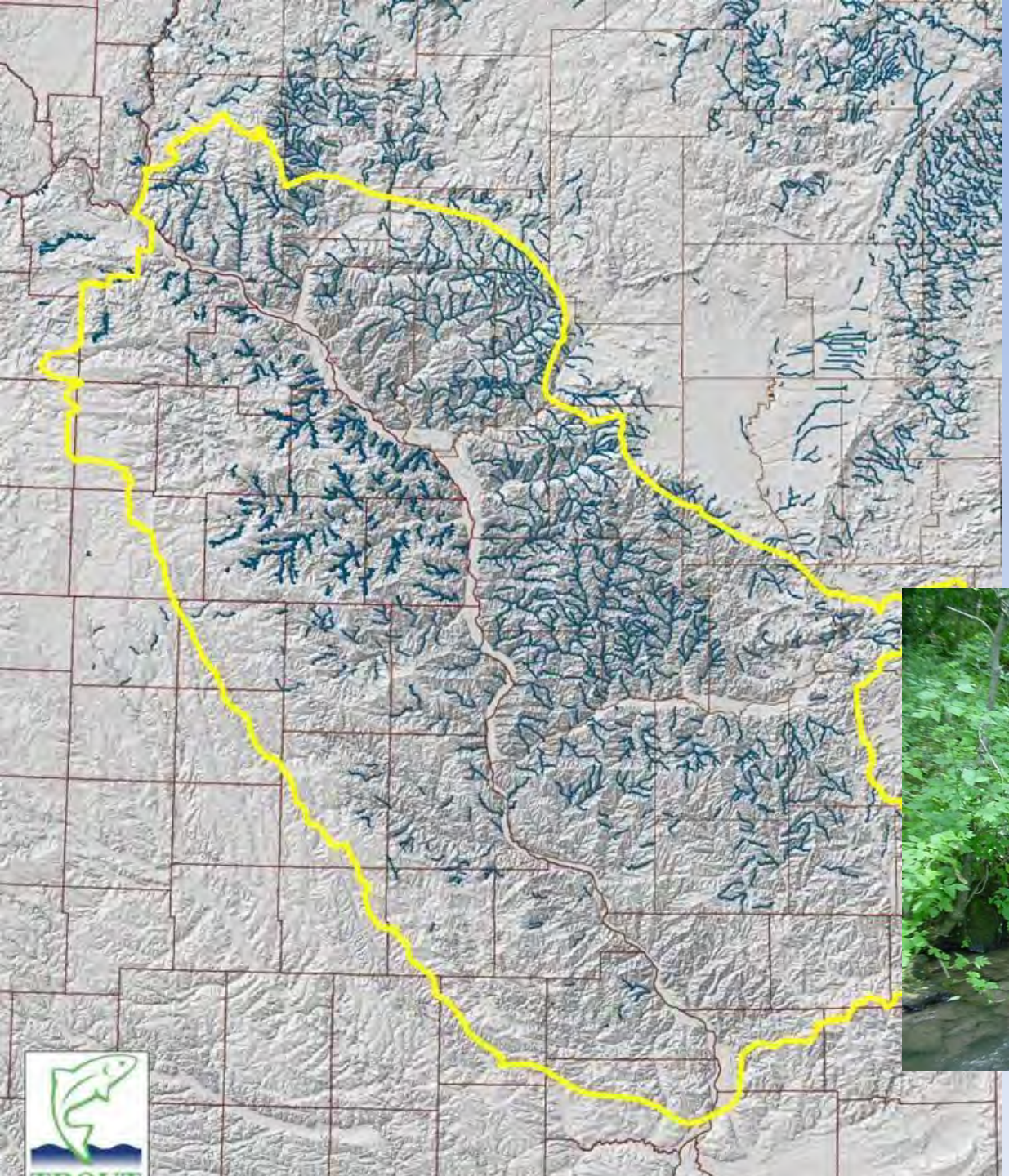
Project Manager

Restoring cold-water streams and their watersheds.

A Story of Degradation…

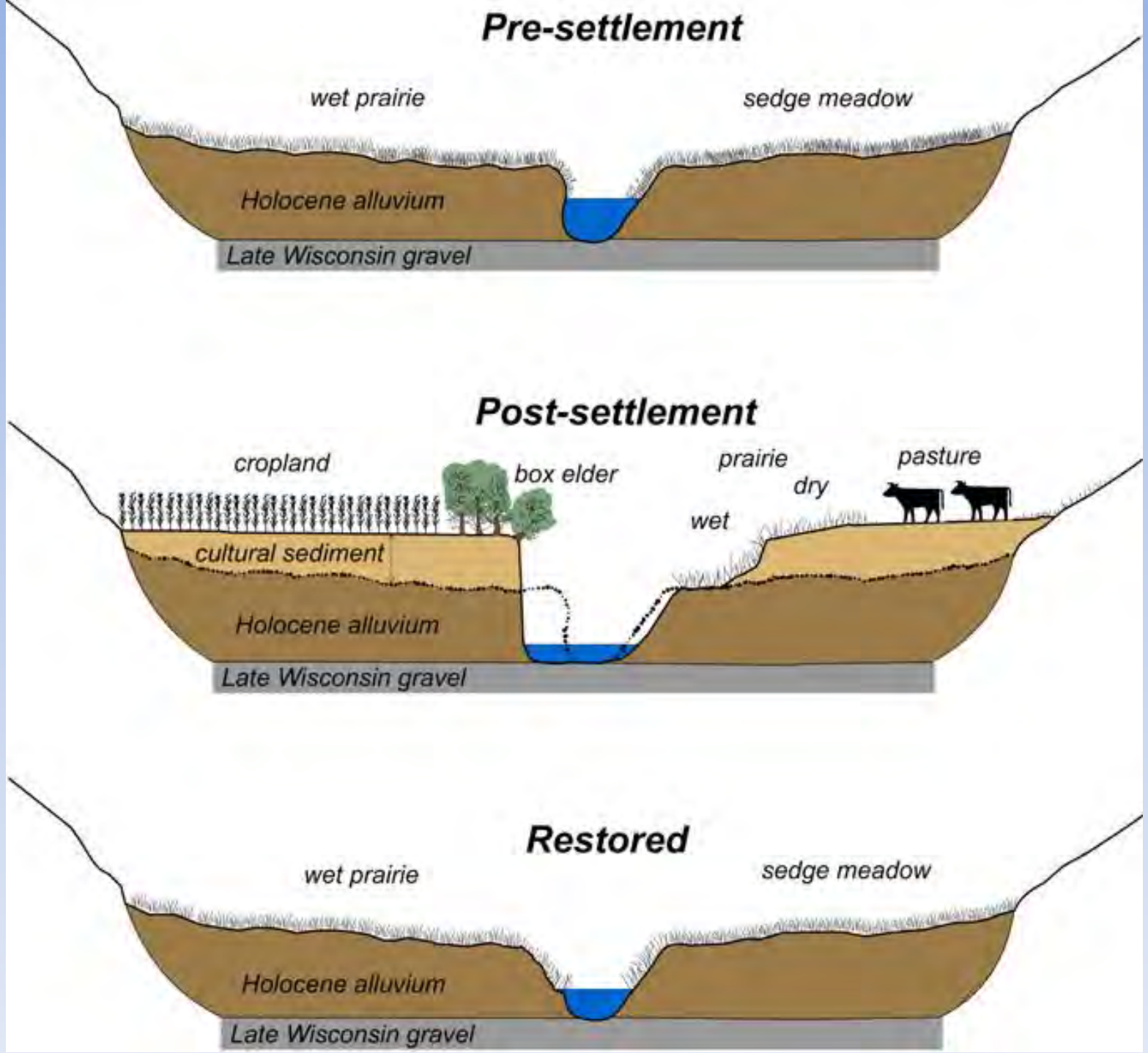
Wis-717

85% 3020 cu yds.



Over 600 coldwater streams.

Greater than 4,000+ miles.


Pre-settlement
wet prairie
sedge meadow
Holocene alluvium
Late Wisconsin gravel
Post-settlement
cropland
box elder
prairie
pasture
dry
wet
cultural sediment
Holocene alluvium
Late Wisconsin gravel
Restored
wet prairie
sedge meadow
Holocene alluvium
Late Wisconsin gravel

Managed Grazing

900 cu.yds.

CONSTRUCTED SIDE VIEW
WATER LINE
FACE ROCK
Rock Backfill
Reinforcing Rod

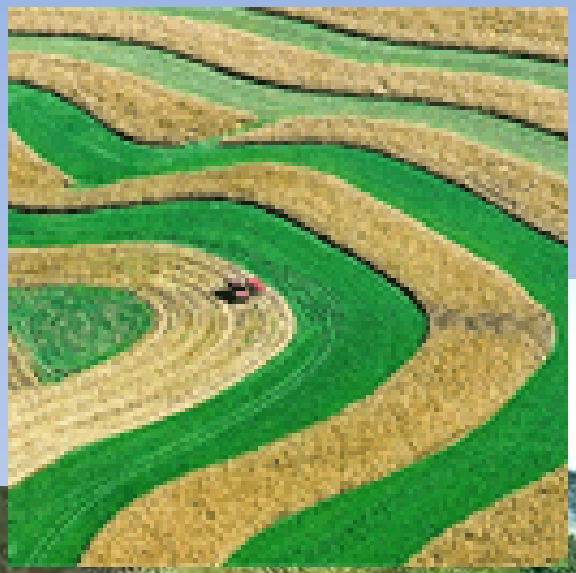
Pine Creek- Station 2A
Start: ~ 13 m upstream of CTH AA
Distance Surveyed: 657 feet

Brown Trout Survey Results

YEAR	2000	2005	2006	2007	2008	Pre-Mean	2009	2010	2011	2012	2013	2014	2015	Post-Mean
Total/ Mile	8	0	321	233	305	174	281	225	619	1487	1832	4275	4846	1938
YOY/ Mile	0	0	305	48	217	114	0	0	514	346	24	2274	940	585
5.5"+/ Mile	8	0	16	185	88	60	281	225	104	1141	1808	2001	3906	1352
6"+/ Mile	8	0	16	185	88	60	281	225	104	1093	1752	1969	3552	1282
7"+/ Mile	8	0	16	185	88	60	273	225	104	820	1422	1479	2419	963
8"+/ Mile	0	0	16	88	72	35	121	201	96	426	964	1222	1181	602
9"+/ Mile	0	0	16	16	56	18	0	193	88	137	836	1181	820	465
10"+/ Mile	0	0	16	8	32	11	0	153	88	72	675	1037	747	396
12"+/ Mile	0	0	8	8	0	3	0	48	64	64	137	362	394	153
14"+/ Mile	0	0	0	0	0	0	0	8	24	40	40	80	112	44
15"+/ Mile	0	0	0	0	0	0	0	0	8	24	40	24	48	21
16"+/ Mile	0	0	0	0	0	0	0	0	0	24	40	24	24	16
18"+/ Mile	0	0	0	0	0	0	0	0	0	0	16	16	8	6
20"+/ Mile	0	0	0	0	0	0	0	0	0	0	0	8	0	1

Habitat Improvement Project Start Date: 7-28-08
Habitat Improvement Project End Date: 9-25-08

Farm Bill dollars



Driftless Area Landscape Conservation Initiative Proposal

A proposal to restore, improve, and protect the nationally significant fish and wildlife habitat of the Driftless Area, including working lands, woodlands, prairies, and cold water streams.

Photo by Jim Richardson @ Richardson Photography

USDA Natural Resources Conservation Service
Illinois, Iowa, Minnesota, and Wisconsin.

April 27, 2012

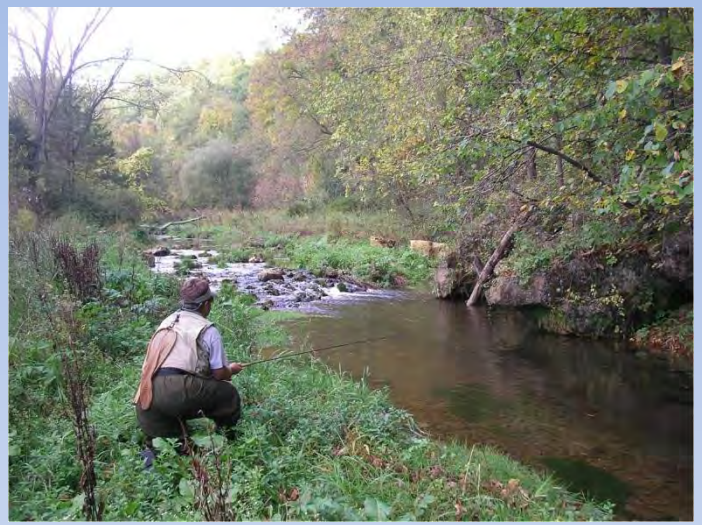
USDA is an equal opportunity provider and employer.

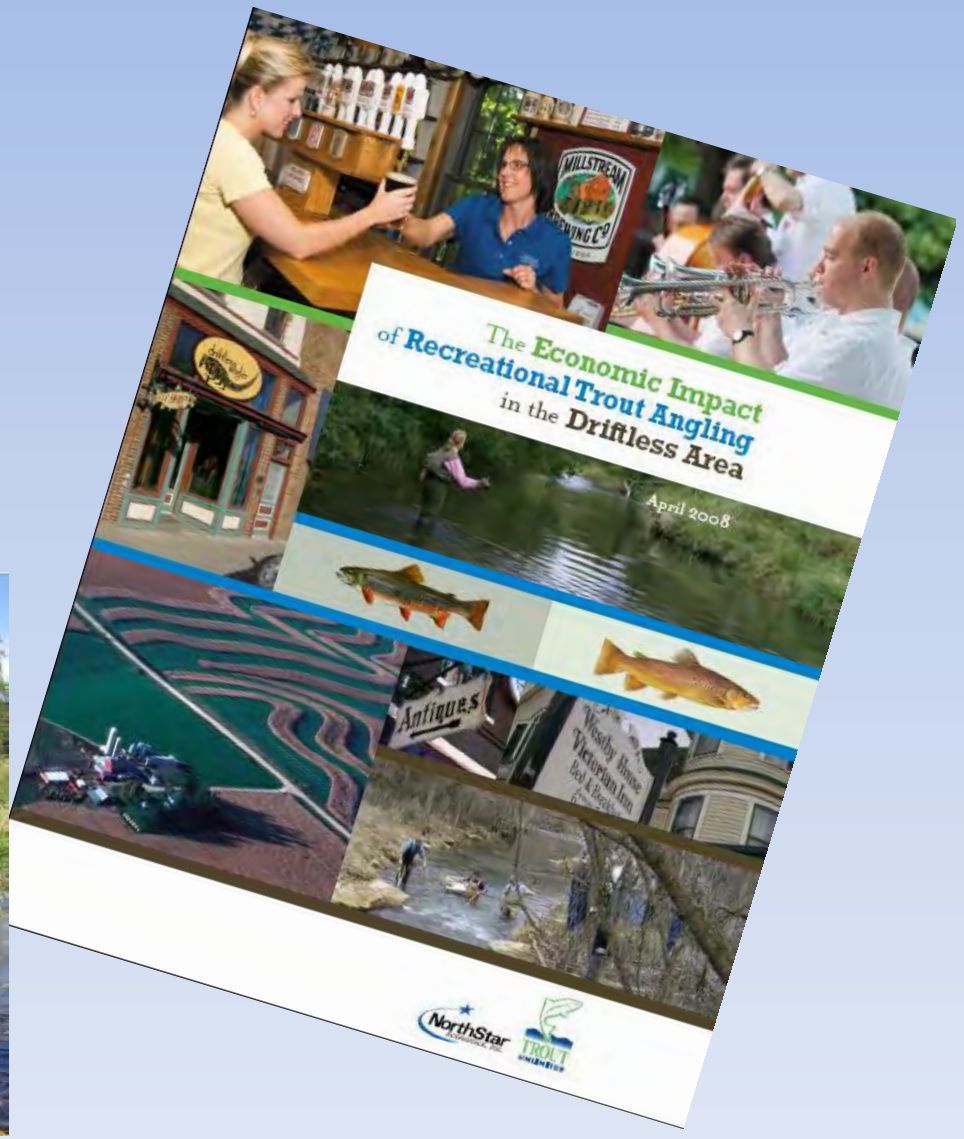
6.5 million 5 years
1.5 million for stream restoration
Iowa – in 2017

Restore watershed health to reduce delivery of sediment and nutrients and improve water quality to benefit Driftless Area rivers and streams

$2.9 Million Regional Conservation Partnership Program, RCPP 2016 - 2020

Cold Water Recreational Angling



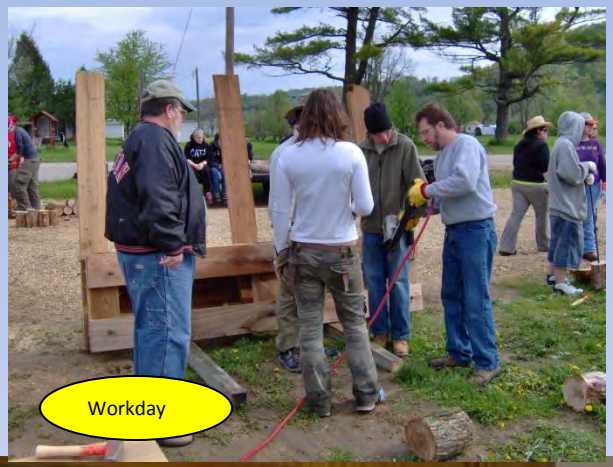


TOTAL ECONOMIC CONTRIBUTION:
$646,819,673 Direct Effect + $464,691,659 Indirect/Induced Effects
= $1,111,511,332

04/28/2007
GENERAC 6500XL

Building Capacity of groups to do more stream restoration projects.

Topics Covered:
Liability, Fund raising, Easements, Working with landowners, Experienced Chapters with less experience, Workdays, etc.



Strategy for Wildlife Species of Greatest Conservation Need
Wisconsin
DRIFTLESS AREA
Minnesota
Wisconsin
Iowa
Illinois

Providing Habitat for the Wild and Rare in the Riparian Area

CRICKET FROG

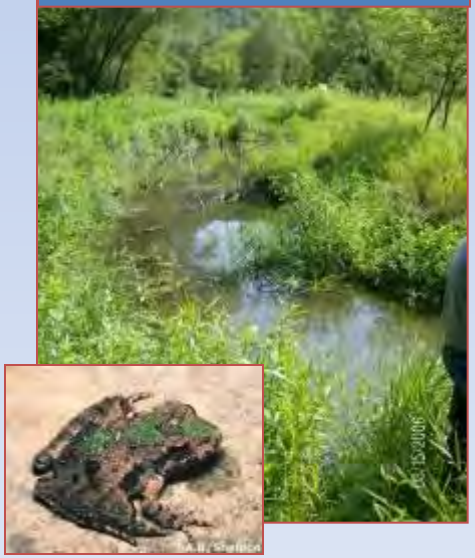
Temporary Habitat

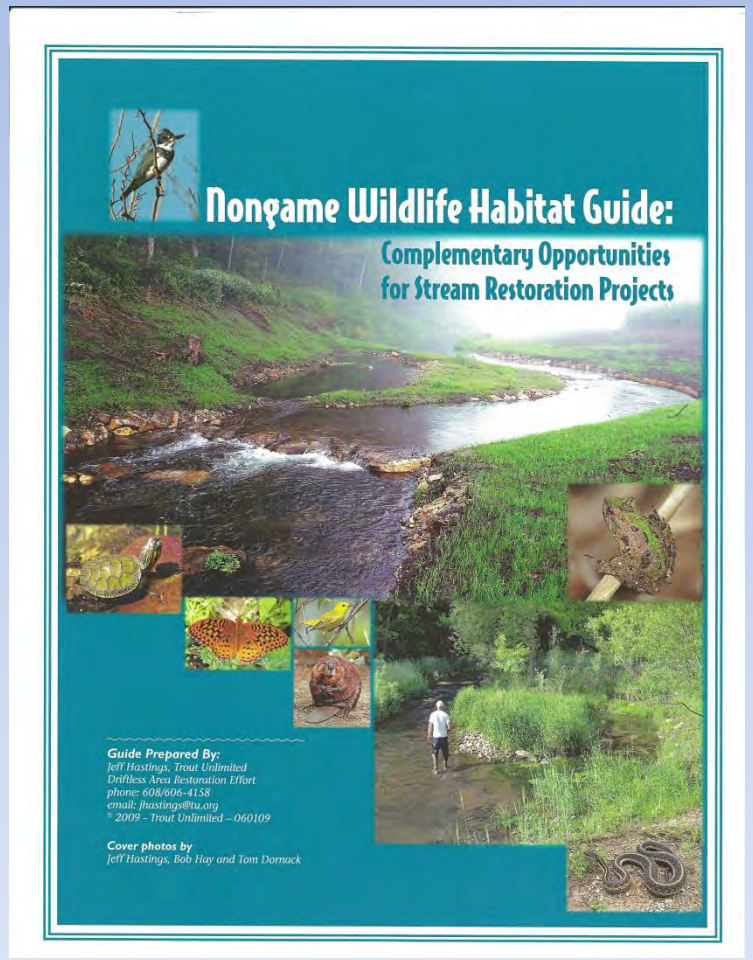
Wild & Rare Committee

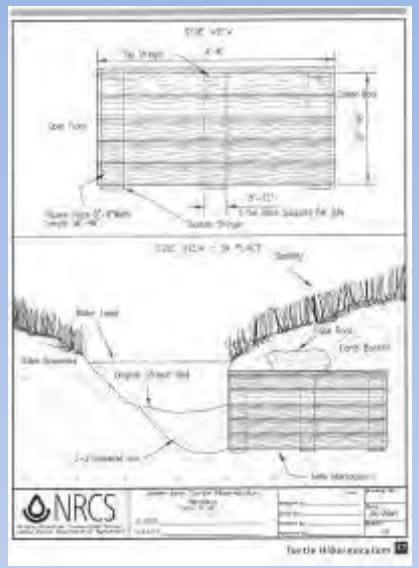
2nd Edition

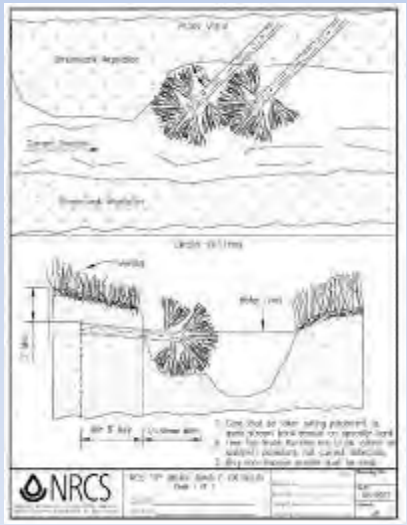
Turtle Hibernacula

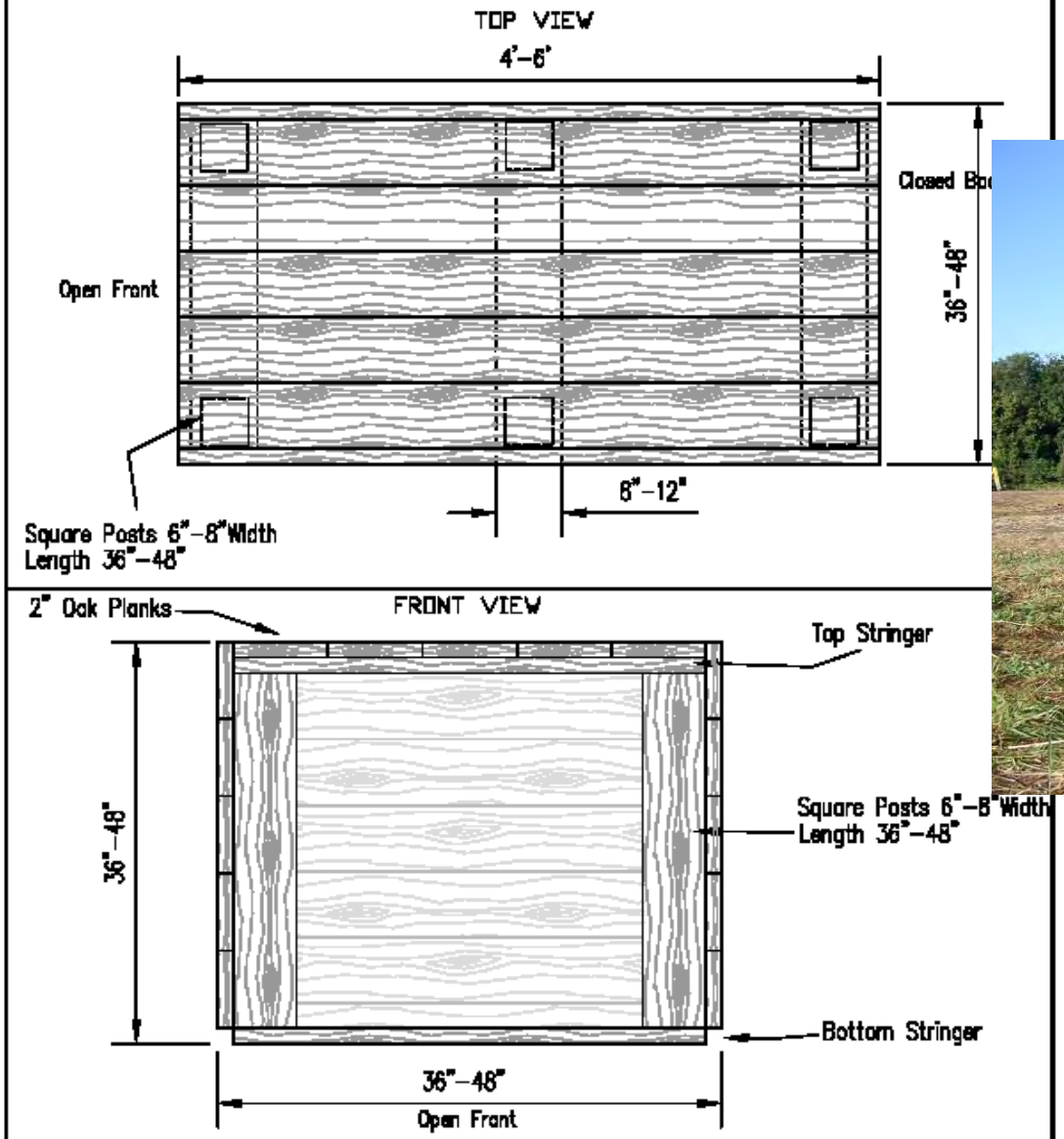
Amphibian & Reptile Habitat










TOP VIEW
4'-6'
Closed Bo
36"-48"
Open Front
8"-12"
Square Posts 6"-8"Width
Length 36"-48"
2" Oak Planks
FRONT VIEW
Top Stringer
36"-48"
Square Posts 6"-8"Width
Length 36"-48"
Bottom Stringer
36"-48"
Open Front
Structures are built using oak planks 2" thick by 8"-12" wide. Structures are nailed together with 20D ring shank nails.
NRCS
Natural Resources Conservation Service
United States Department of Agriculture
Under-Bank Turtle Hibernaculum
(Details)
Page 1 of 3
CLIENT:
COUNTY:
Date
Designed by
Drawn by
Checked by
Approved by
Drawing No.
Date
01/2009
Sheet
of

Bank Swallow/Kingfisher Vertical Nesting Mound
(view from stream)
Kingfisher Nest Holes
Bank Swallow Nest Holes
Organic
Soil lens
10-11 feet
© Bob Hay

©2007 Steve Rosenoff

The End

DO NOT CROSS PASTURE UNLESS
YOU CAN DO IT IN 3.7
THE BULL CAN DO IT IN 3.8