

ANNUAL REPORT FOR 2011

WATERFOWL BREEDING POPULATIONS

AND

PRODUCTION ESTIMATES

FOR THE

PRAIRIE POTHOLE REGION OF MINNESOTA AND IOWA

AND POPULATION ESTIMATES FOR THE

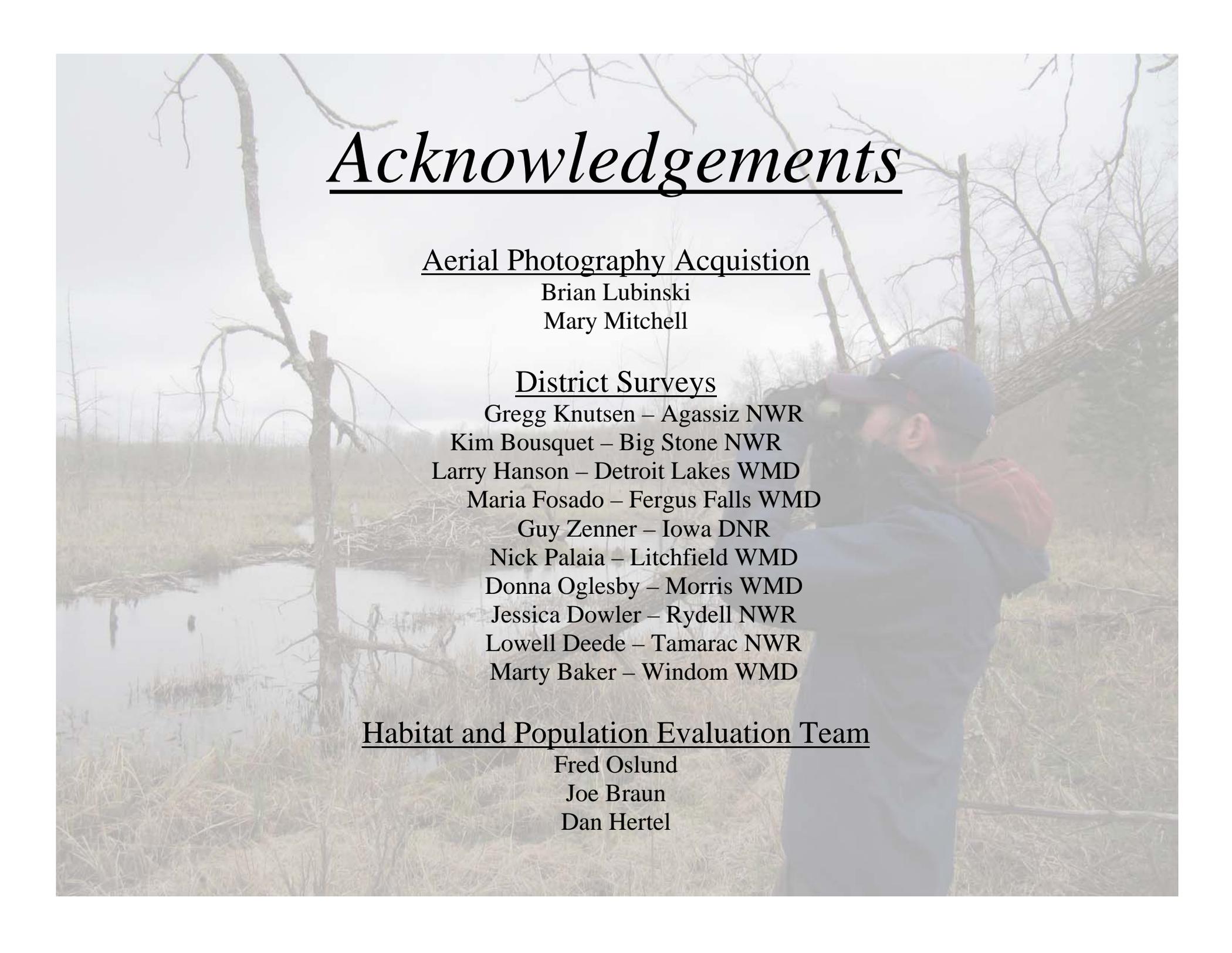
TRANSITION ZONE OF MINNESOTA

U.S. Fish and Wildlife Service
Division of Migratory Birds
Habitat and Population Evaluation Team
18965 County Highway 82
Fergus Falls, MN 56537



Released September, 2011



A person wearing a blue jacket and a blue cap is looking through binoculars. They are standing in a wetland area with tall grasses and a body of water. The background shows bare trees and a cloudy sky.

Acknowledgements

Aerial Photography Acquisition

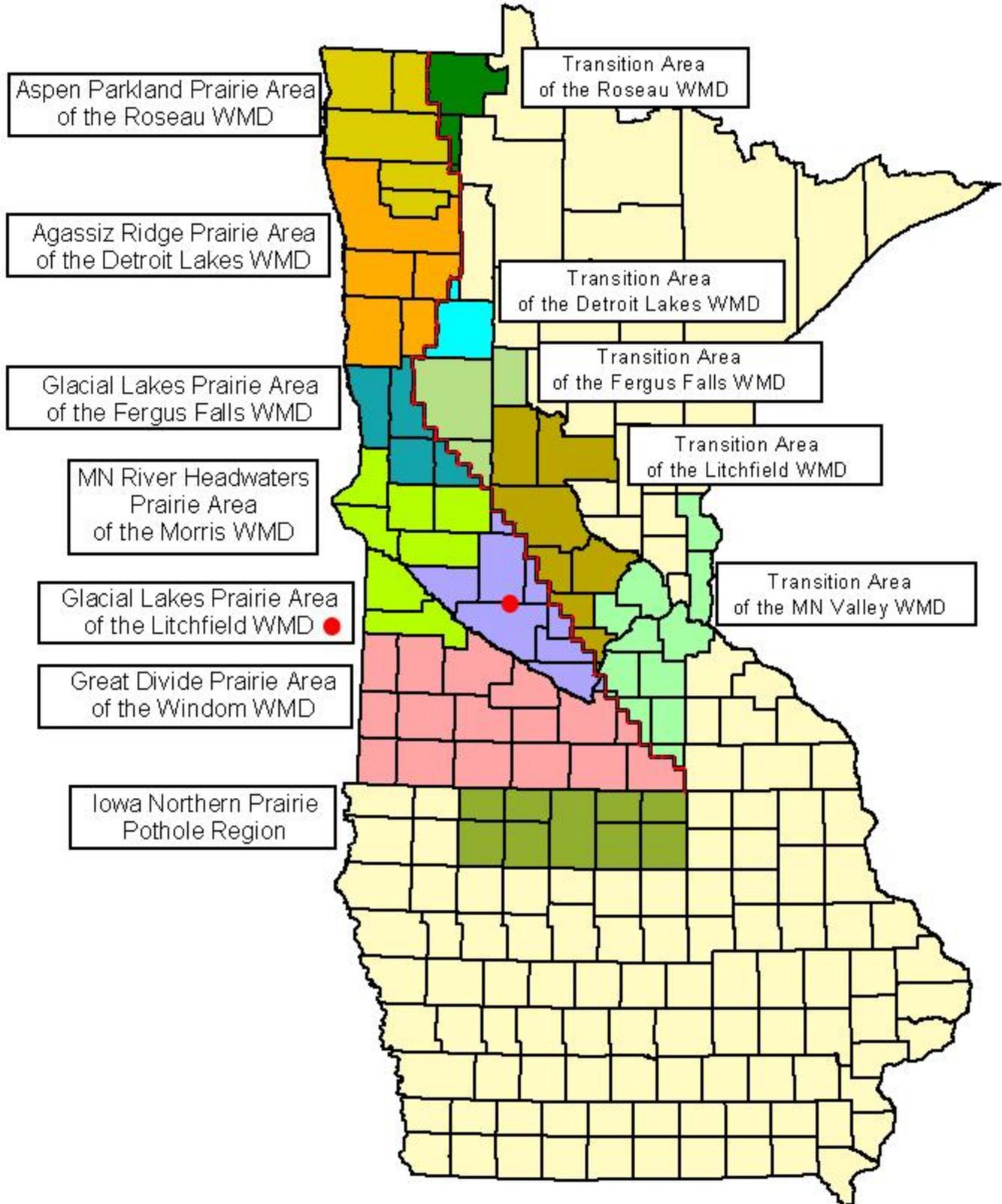
Brian Lubinski
Mary Mitchell

District Surveys

Gregg Knutsen – Agassiz NWR
Kim Bousquet – Big Stone NWR
Larry Hanson – Detroit Lakes WMD
Maria Fosado – Fergus Falls WMD
Guy Zenner – Iowa DNR
Nick Palaia – Litchfield WMD
Donna Oglesby – Morris WMD
Jessica Dowler – Rydell NWR
Lowell Deede – Tamarac NWR
Marty Baker – Windom WMD

Habitat and Population Evaluation Team

Fred Oslund
Joe Braun
Dan Hertel



Map of Geographic Boundaries

INDEX

Prairie Pothole Area of Minnesota

Transition Zone of Minnesota

Prairie Pothole Area of Iowa

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SECTION INDEX

Agassiz Ridge Prairie Area (of the Detroit Lakes WMD)*

Border Prairie Area (of the Fergus Falls WMD)*

Glacial Lakes Prairie Area (of the Litchfield WMD)*

MN River Headwaters Prairie Area (of the Morris WMD)*

Aspen Parkland Prairie Area (of the Roseau WMD)*

Great Divide Prairie Area (of the Windom WMD)*

Minnesota Prairie Pothole Region*

*Each section contains nine pages presenting the following information:

Wetland data

Total breeding pair data

Pairs per pond

Pairs per square mile

Total recruit data

Recruits per square mile

Recruitment rate

Ownership composition

Pairs and recruits by ownership strata

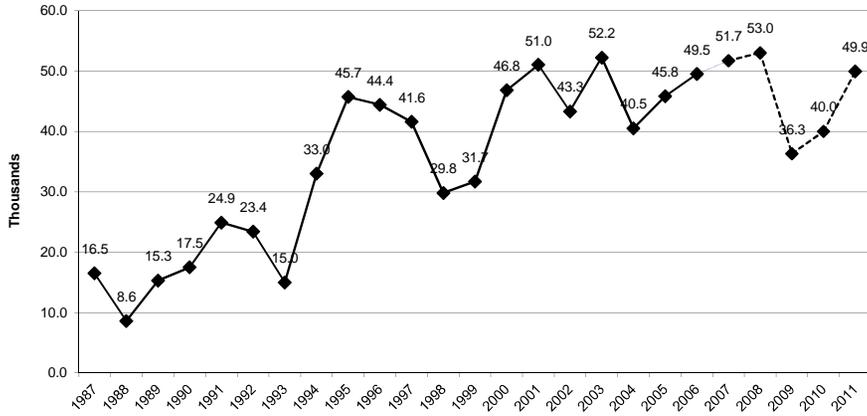
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**AGASSIZ RIDGE PRAIRIE AREA
OF THE
DETROIT LAKES
WETLAND MANAGEMENT DISTRICT**

[Click to return to Subsection Index](#)

NUMBER OF WET PONDS

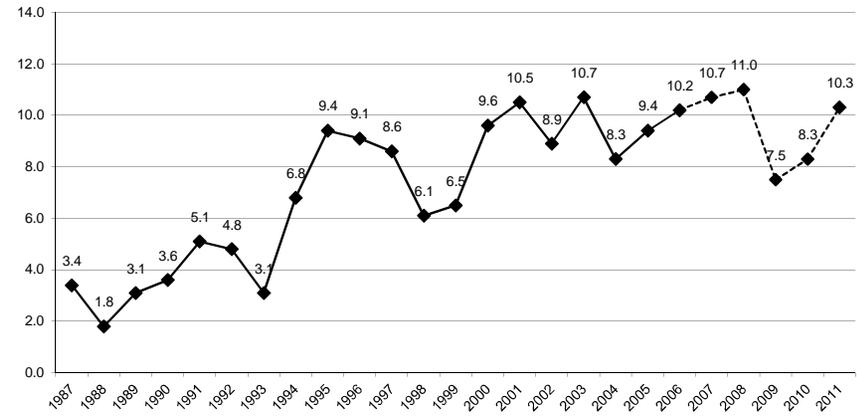
AGASSIZ RIDGE PRAIRIE AREA (OF THE DETROIT LAKES WMD)



DATA VALUES ARE FOR THE PRAIRIE POTHOLE REGION ONLY

PONDS / SQ MILE

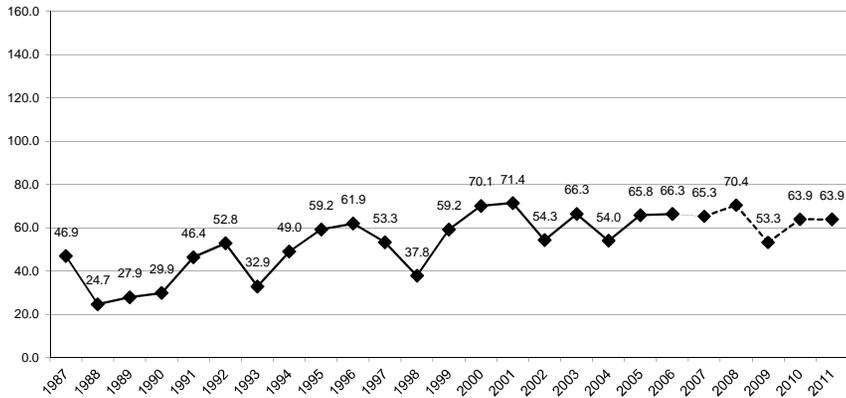
AGASSIZ RIDGE PRAIRIE AREA (OF THE DETROIT LAKES WMD)



DATA VALUES ARE FOR THE PRAIRIE POTHOLE REGION ONLY

WETLAND DENSITY*

AGASSIZ RIDGE PRAIRIE AREA (OF THE DETROIT LAKES WMD)

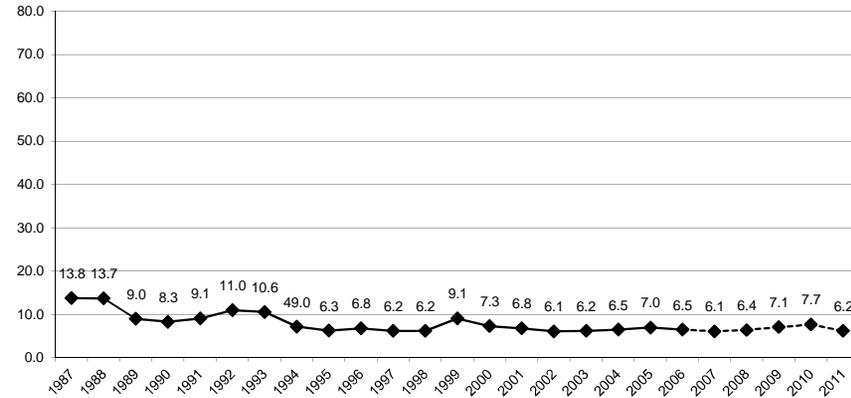


DATA VALUES ARE FOR THE PRAIRIE POTHOLE REGION ONLY

*WETLAND ACRES / SQ MILE

AVERAGE WETLAND SIZE*

AGASSIZ RIDGE PRAIRIE AREA (OF THE DETROIT LAKES WMD)



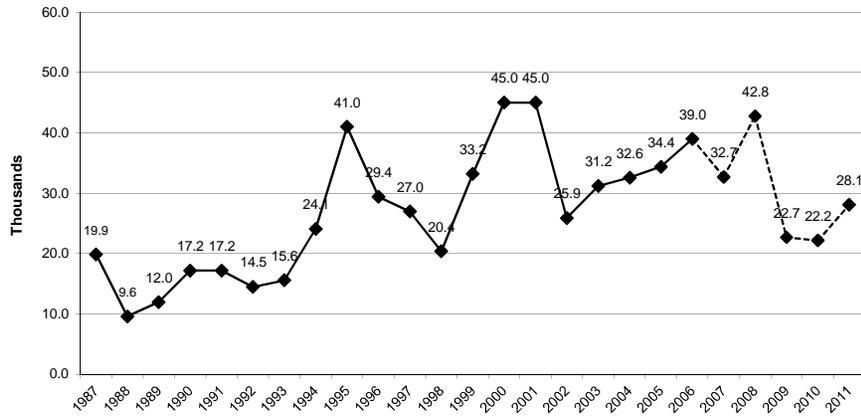
DATA VALUES ARE FOR THE PRAIRIE POTHOLE REGION ONLY

*ACRES

Note: Updated habitat and ownership database files, as well as, a state ownership category were implemented in the preparation of production estimates. Dashed lines represent updates from 2007 to current year.

MALLARD BREEDING PAIRS

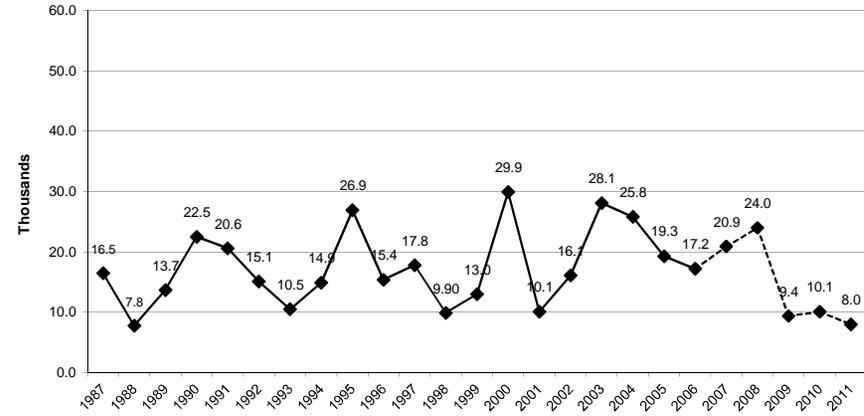
AGASSIZ RIDGE PRAIRIE AREA (OF THE DETROIT LAKES WMD)



DATA VALUES ARE FOR THE PRAIRIE POTHOLE REGION ONLY

BW TEAL BREEDING PAIRS

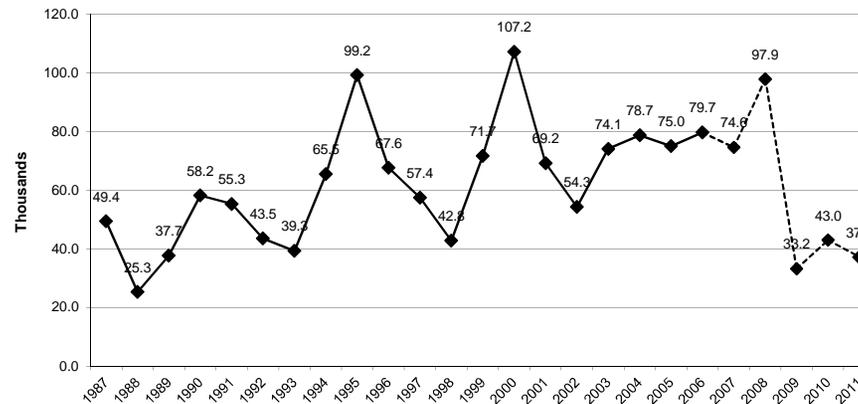
AGASSIZ RIDGE PRAIRIE AREA (OF THE DETROIT LAKES WMD)



DATA VALUES ARE FOR THE PRAIRIE POTHOLE REGION ONLY

BREEDING PAIRS ALL SPECIES*

AGASSIZ RIDGE PRAIRIE AREA (OF THE DETROIT LAKES WMD)



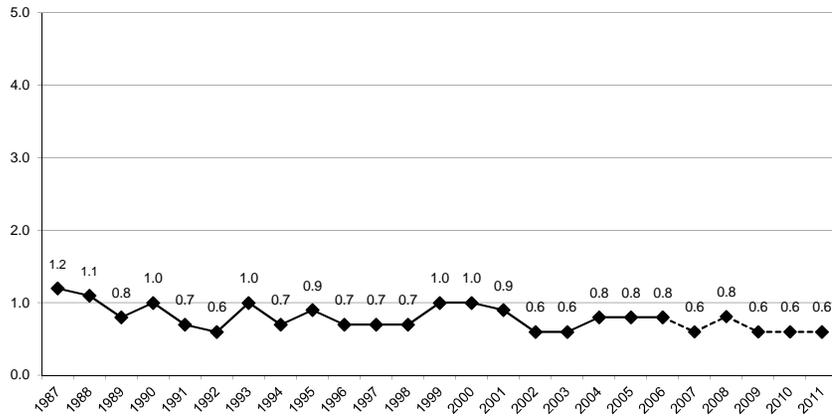
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MALLARD PAIRS / POND

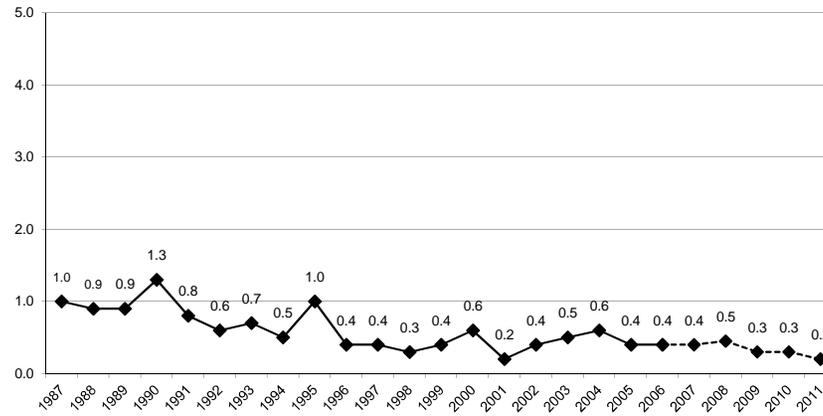
AGASSIZ RIDGE PRAIRIE AREA (OF THE DETROIT LAKES WMD)



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BW TEAL PAIRS / POND

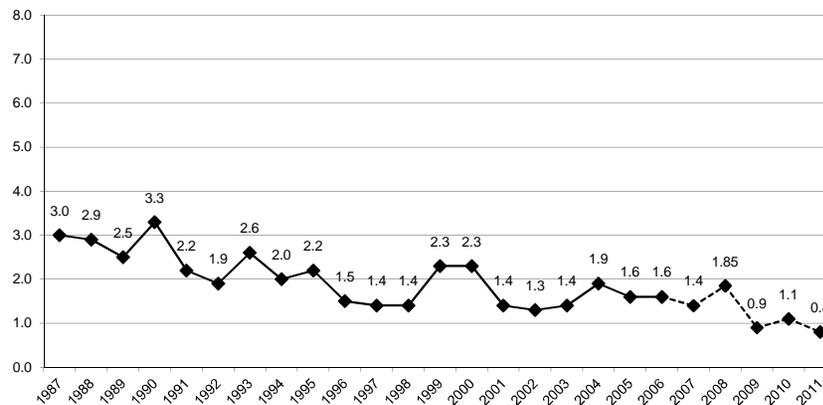
AGASSIZ RIDGE PRAIRIE AREA (OF THE DETROIT LAKES WMD)



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PAIRS / POND ALL SPECIES*

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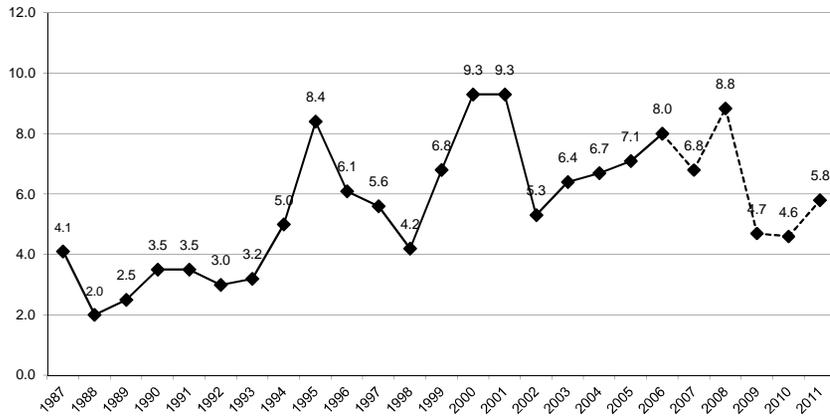
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MALLARD PAIRS / SQ MILE

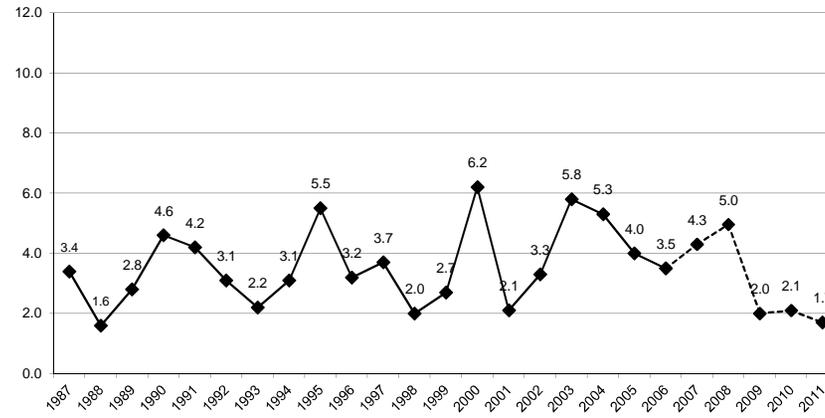
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BW TEAL PAIRS / SQ MILE

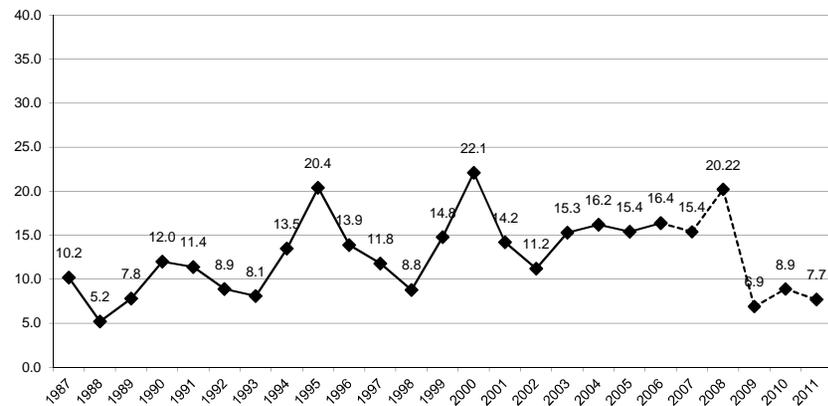
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PAIRS / SQ MILE ALL SPECIES*

AGASSIZ RIDGE PRAIRIE AREA (OF THE DETROIT LAKES WMD)



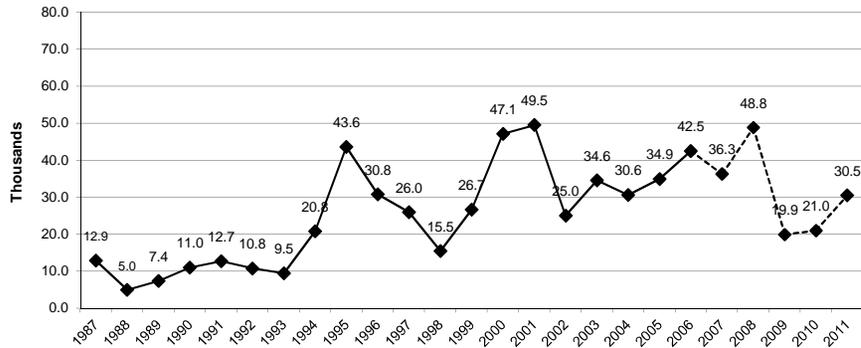
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NUMBER OF MALLARD RECRUITS PRODUCED

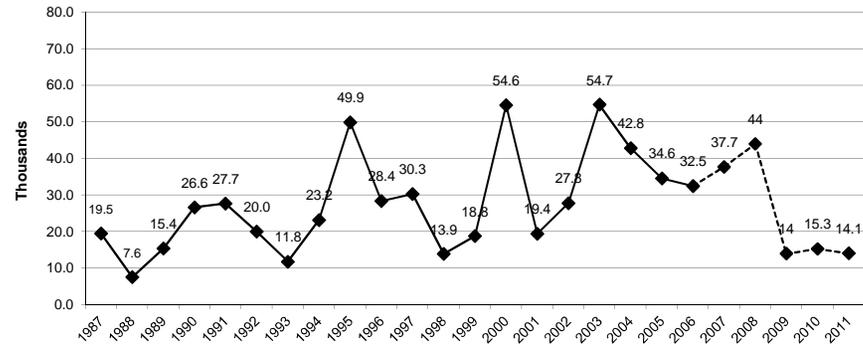
AGASSIZ RIDGE PRAIRIE AREA (OF THE DETROIT LAKES WMD)



DATA VALUES ARE FOR THE PRAIRIE POTHOLE REGION ONLY

NUMBER OF BW TEAL RECRUITS PRODUCED

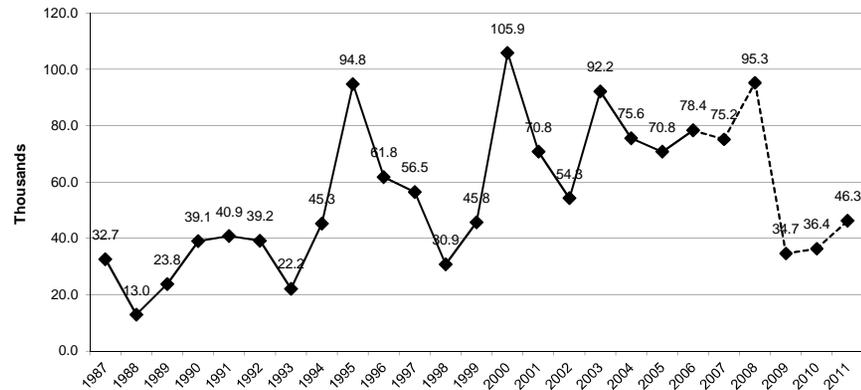
AGASSIZ RIDGE PRAIRIE AREA (OF THE DETROIT LAKES WMD)



DATA VALUES ARE FOR THE PRAIRIE POTHOLE REGION ONLY

NUMBER OF RECRUITS PRODUCED*

AGASSIZ RIDGE PRAIRIE AREA (OF THE DETROIT LAKES WMD)



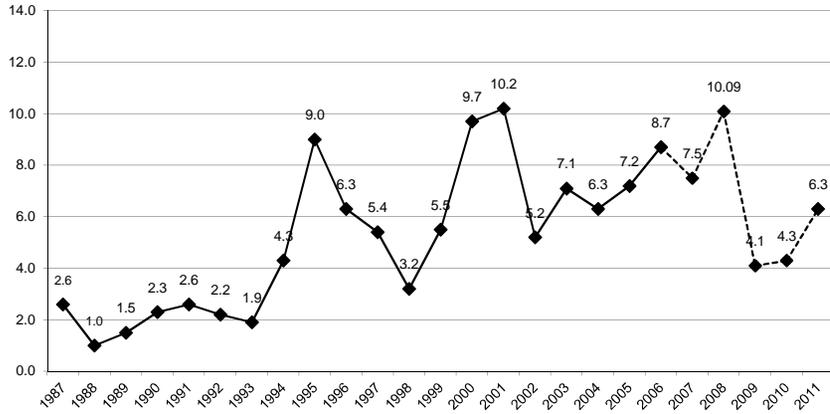
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MALLARD RECRUITS / SQ MILE

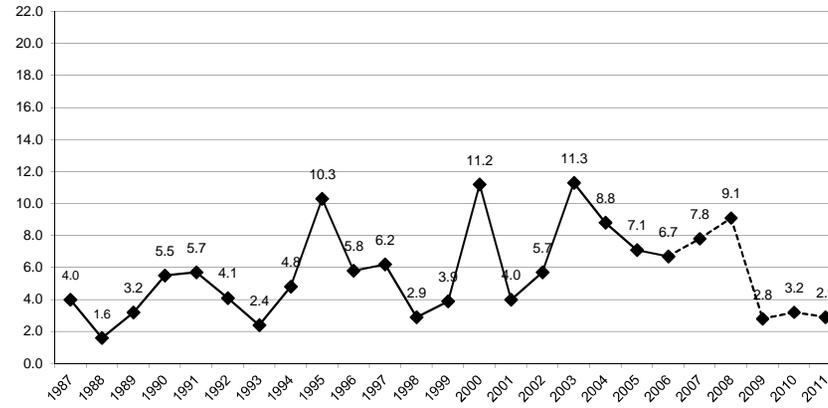
AGASSIZ RIDGE PRAIRIE AREA (OF THE DETROIT LAKES WMD)



DATA VALUES ARE FOR THE PRAIRIE POTHOLE REGION ONLY

BW TEAL RECRUITS / SQ MILE

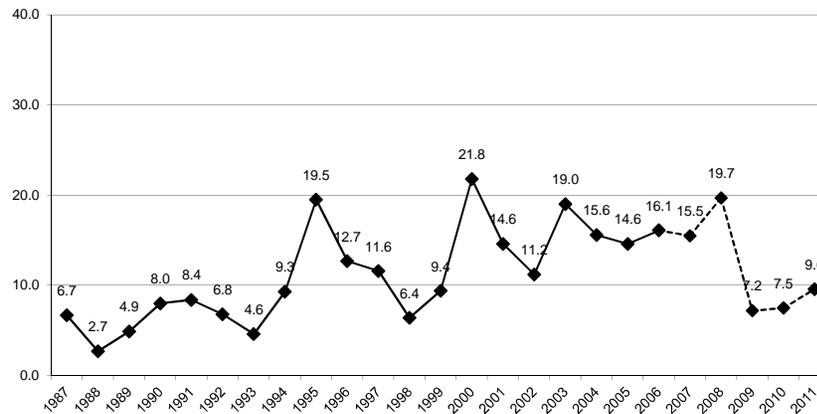
AGASSIZ RIDGE PRAIRIE AREA (OF THE DETROIT LAKES WMD)



DATA VALUES ARE FOR THE PRAIRIE POTHOLE REGION ONLY

RECRUITS / SQ MILE ALL SPECIES*

AGASSIZ RIDGE PRAIRIE AREA (OF THE DETROIT LAKES WMD)



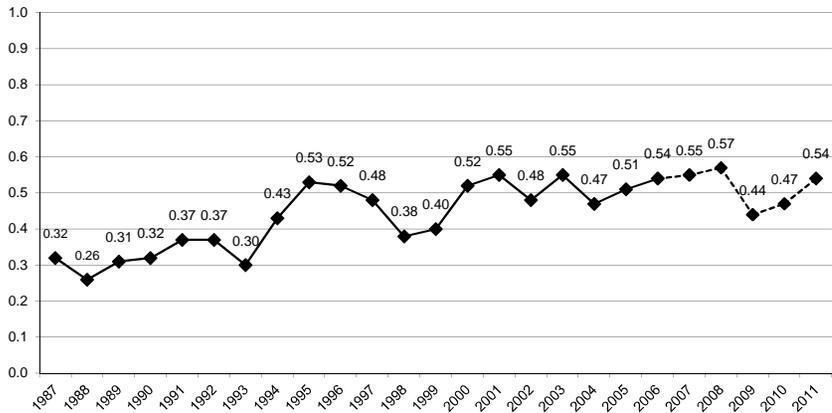
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MALLARD RECRUITMENT RATE*

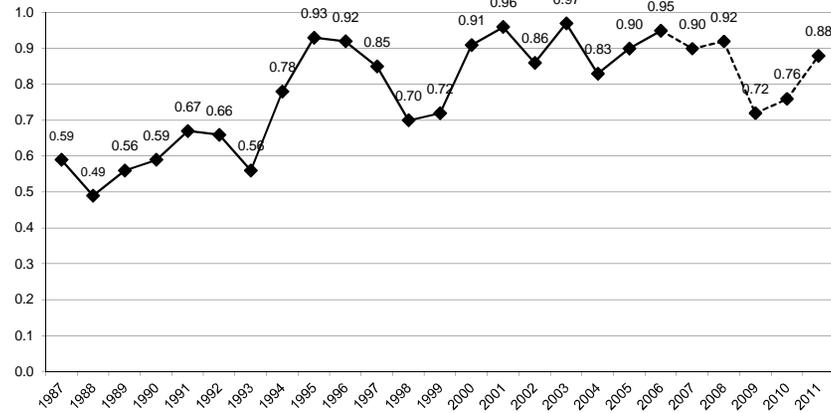
AGASSIZ RIDGE PRAIRIE AREA (OF THE DETROIT LAKES WMD)



DATA VALUES ARE FOR THE PRAIRIE POTHOLE REGION ONLY
 *It is estimated that a .49 Recruitment Rate is required for a stable mallard population

BW TEAL RECRUITMENT RATE

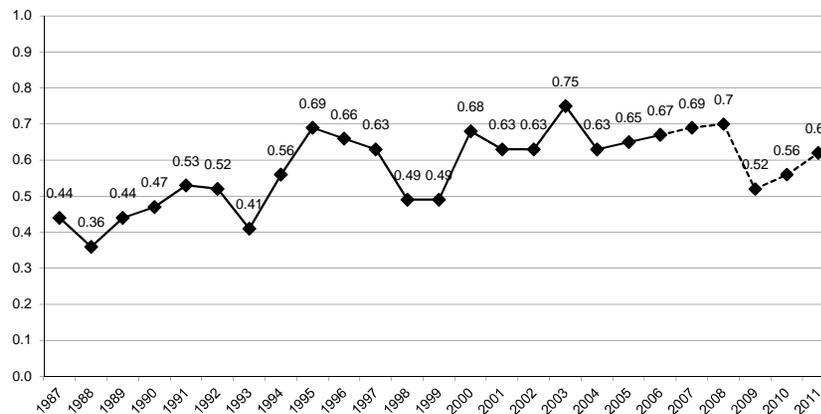
AGASSIZ RIDGE PRAIRIE AREA (OF THE DETROIT LAKES WMD)



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RECRUITMENT RATE*

AGASSIZ RIDGE PRAIRIE AREA (OF THE DETROIT LAKES WMD)

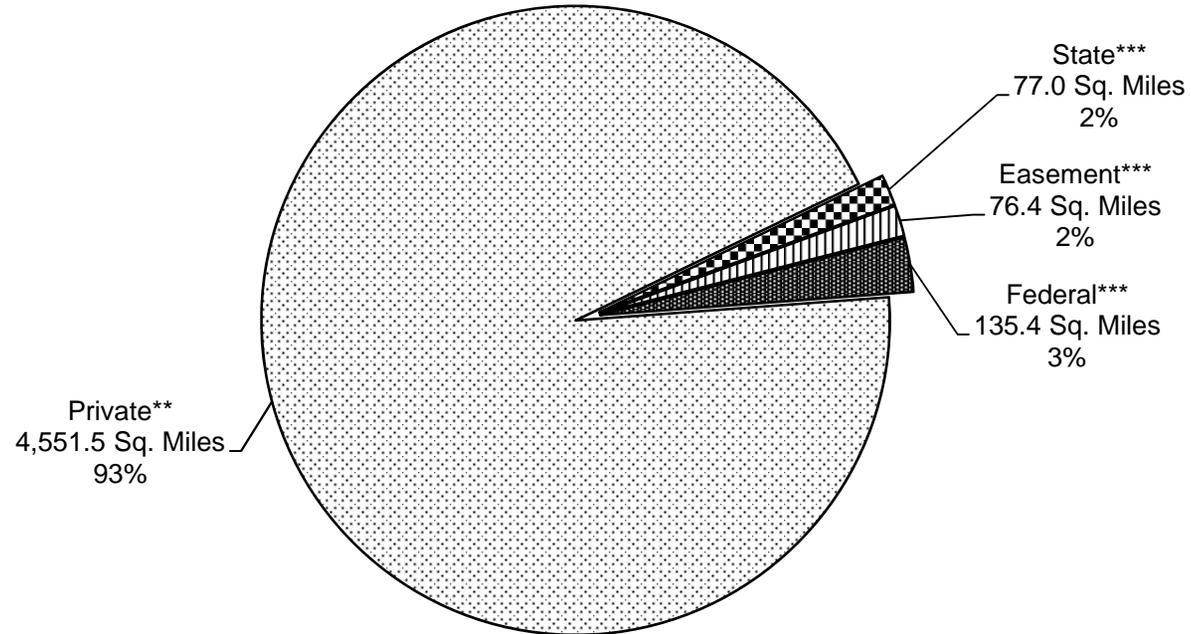


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OWNERSHIP COMPOSITION*

AGASSIZ RIDGE PRAIRIE AREA (OF THE DETROIT LAKES WMD)



*DATA PRESENTED ARE FROM REPRESENTATIVE 4 SQ. MILE PLOTS IN THE PRAIRIE POTHOLE REGION ONLY.

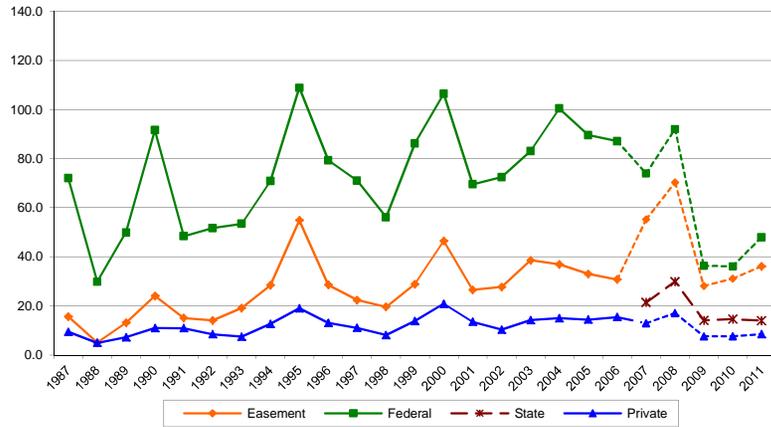
**PRIVATE OWNERSHIP CATEGORY ALSO INCLUDES OTHER NGO CONSERVATION OWNERSHIPS.

***EASEMENT, FEDERAL AND STATE CATEGORIES ARE BASED ON SAMPLE PLOTS WHERE A MINIMUM OF 160 ACRES ARE IN FEDERAL OR STATE OWNERSHIP.

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ESTIMATED PAIRS / SQ. MILE BY OWNERSHIP

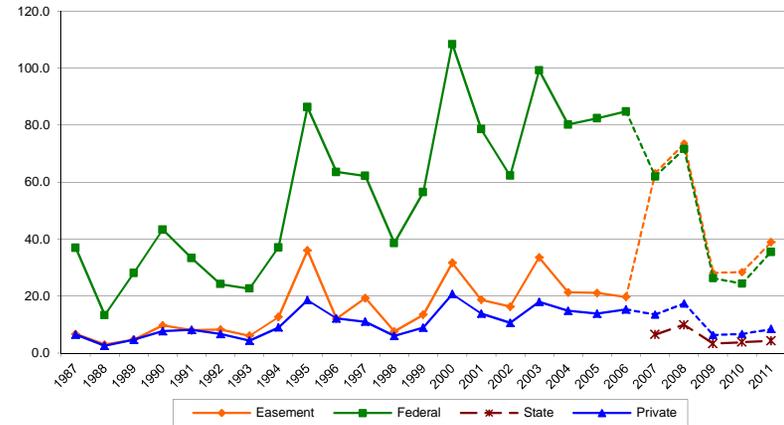
13 SPECIES*
AGASSIZ RIDGE PRAIRIE AREA (OF THE DETROIT LAKES WMD)



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ESTIMATED RECRUITS / SQ. MILE BY OWNERSHIP

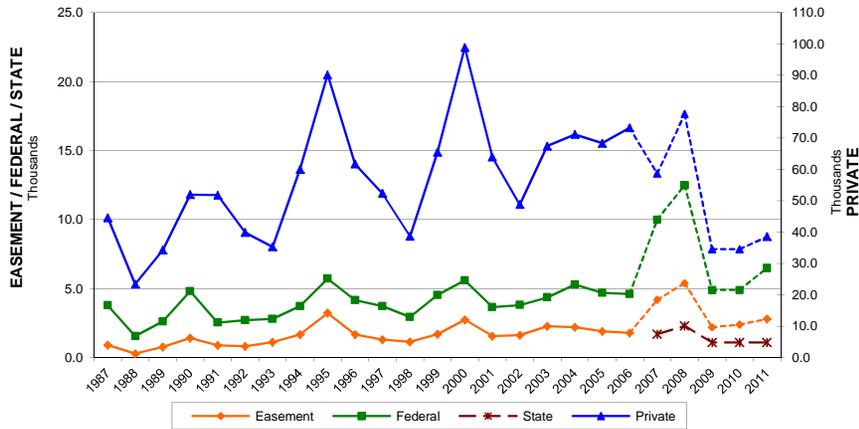
5 SPECIES*
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ESTIMATED PAIRS BY OWNERSHIP

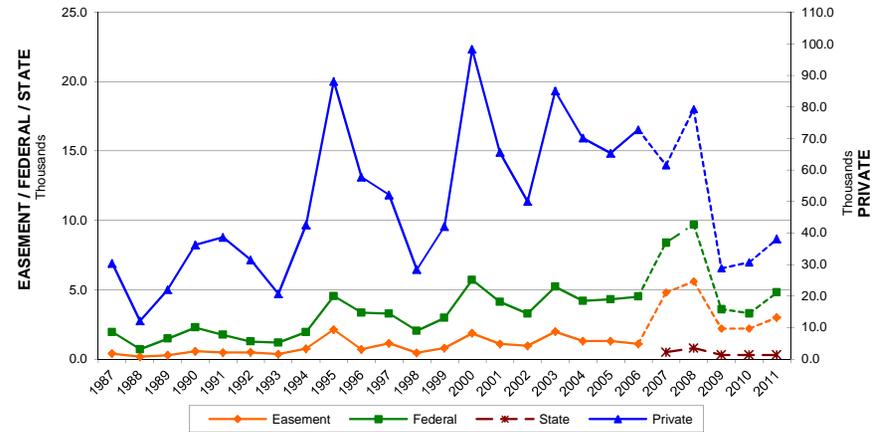
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ESTIMATED RECRUITS BY OWNERSHIP

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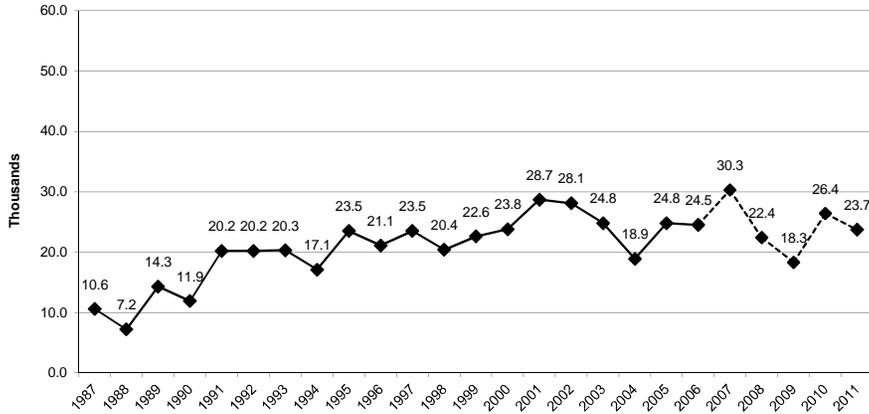
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**BORDER PRAIRIE AREA
OF THE
FERGUS FALLS
WETLAND MANAGEMENT DISTRICT**

[Click to return to Subsection Index](#)

NUMBER OF WET PONDS

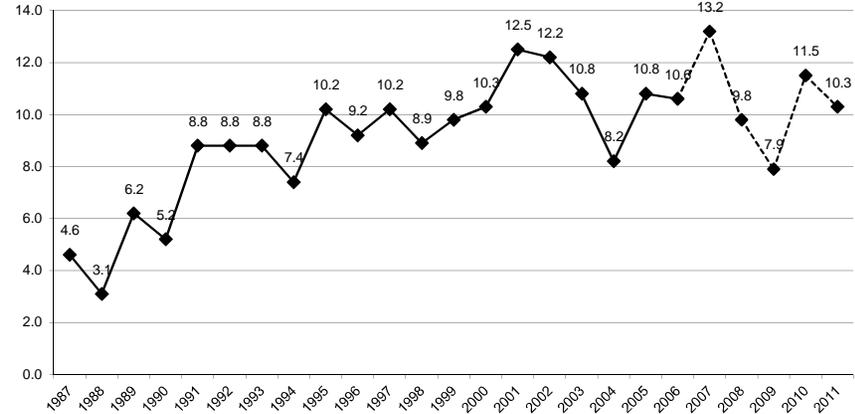
BORDER PRAIRIE AREA (OF THE FERGUS FALLS WMD)



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PONDS / SQ MILE

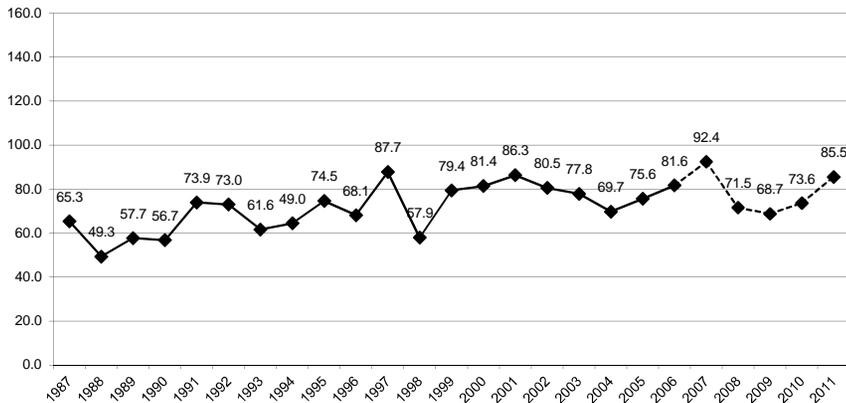
BORDER PRAIRIE AREA (OF THE FERGUS FALLS WMD)



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WETLAND DENSITY*

BORDER PRAIRIE AREA (OF THE FERGUS FALLS WMD)

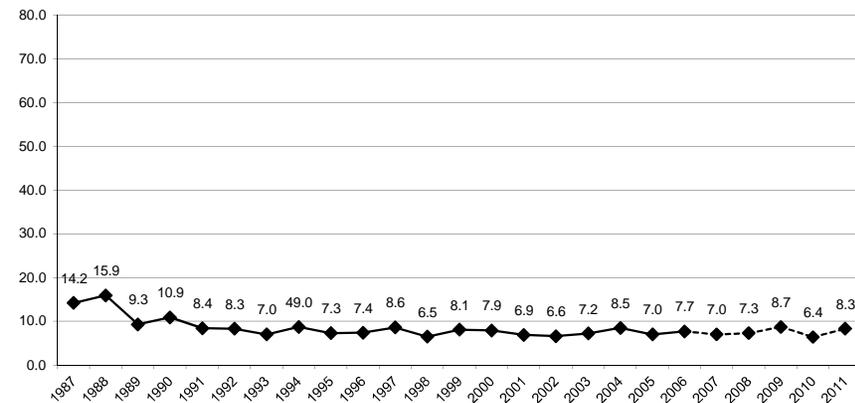


DATA VALUES ARE FOR THE PRAIRIE POTHOLE REGION ONLY

*WETLAND ACRES / SQ MILE

AVERAGE WETLAND SIZE*

BORDER PRAIRIE AREA (OF THE FERGUS FALLS WMD)



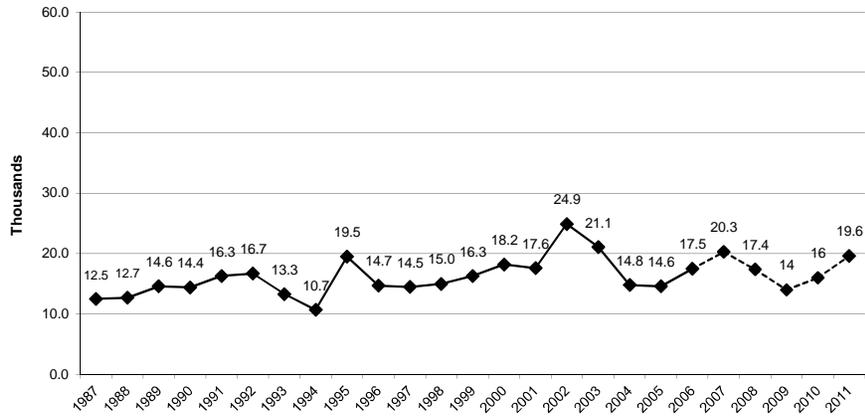
DATA VALUES ARE FOR THE PRAIRIE POTHOLE REGION ONLY

*ACRES

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MALLARD BREEDING PAIRS

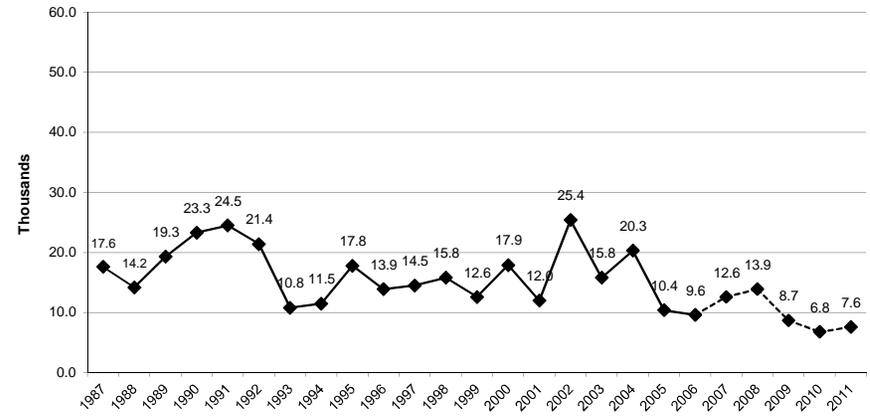
BORDER PRAIRIE AREA (OF THE FERGUS FALLS WMD)



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BW TEAL BREEDING PAIRS

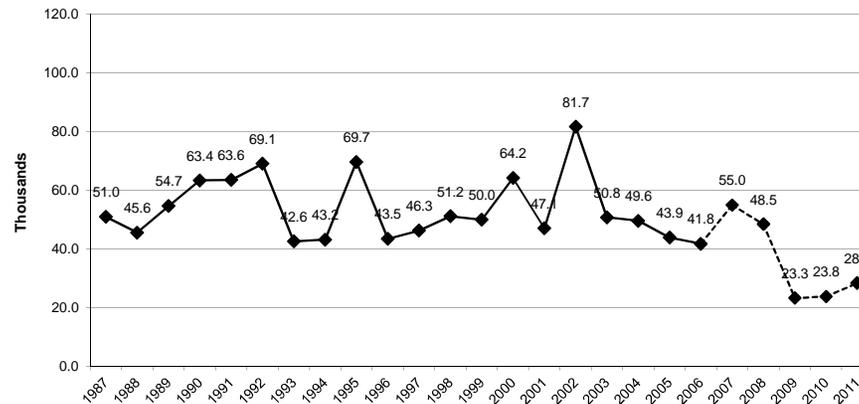
BORDER PRAIRIE AREA (OF THE FERGUS FALLS WMD)



DATA VALUES ARE FOR THE PRAIRIE POTHOLE REGION ONLY

BREEDING PAIRS ALL SPECIES*

BORDER PRAIRIE AREA (OF THE FERGUS FALLS WMD)



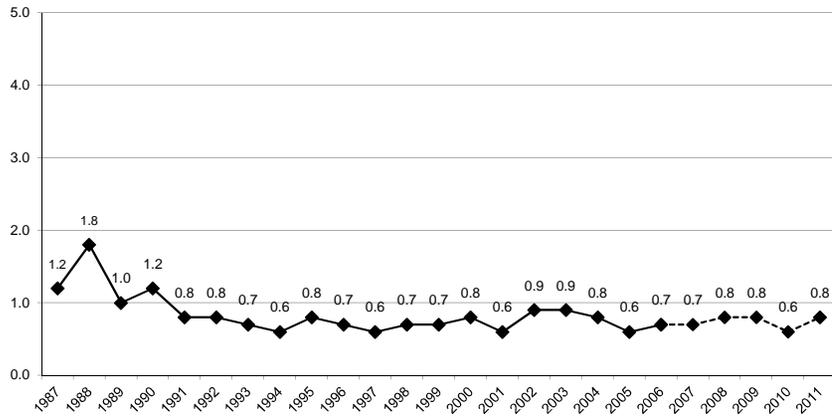
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MALLARD PAIRS / POND

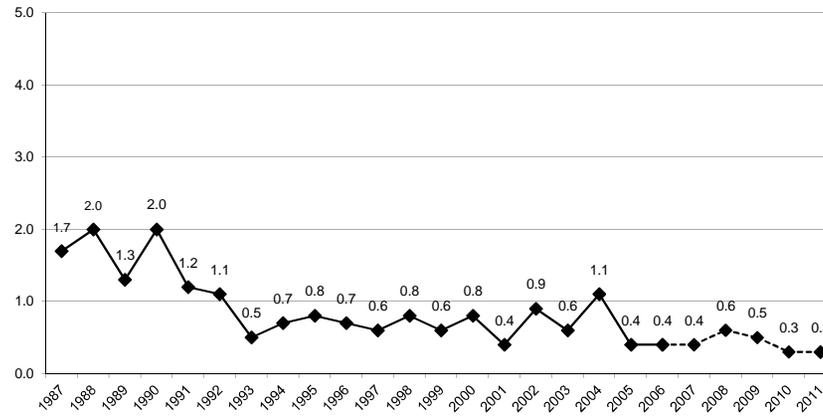
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BW TEAL PAIRS / POND

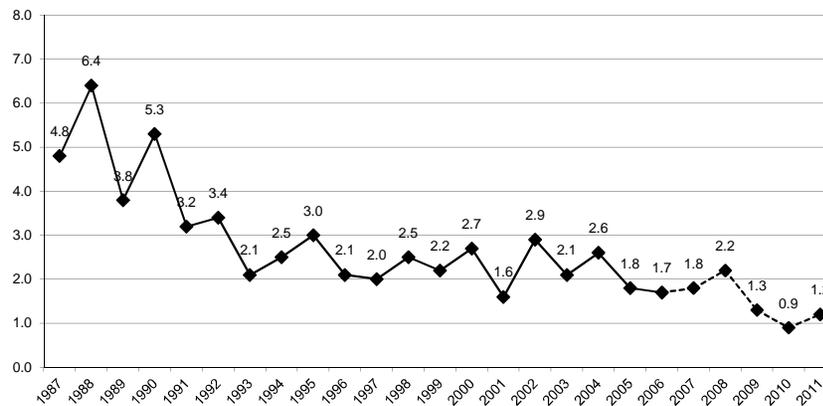
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PAIRS / POND ALL SPECIES*

BORDER PRAIRIE AREA (OF THE FERGUS FALLS WMD)



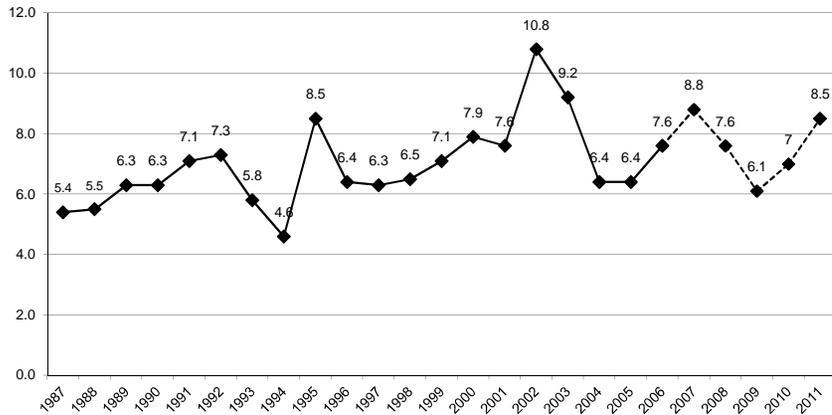
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MALLARD PAIRS / SQ MILE

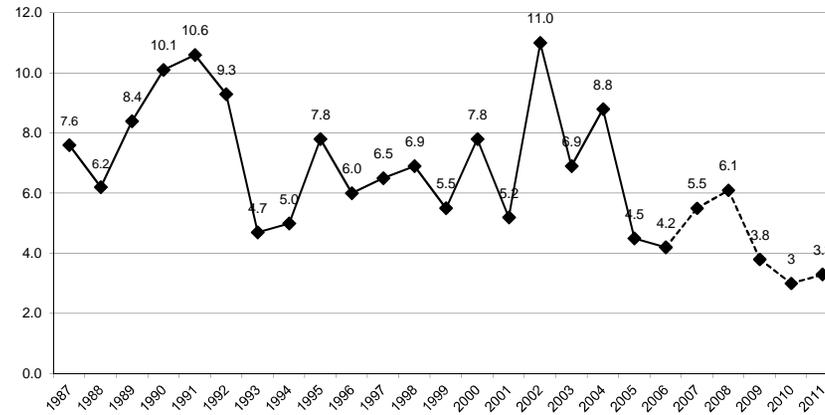
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BW TEAL PAIRS / SQ MILE

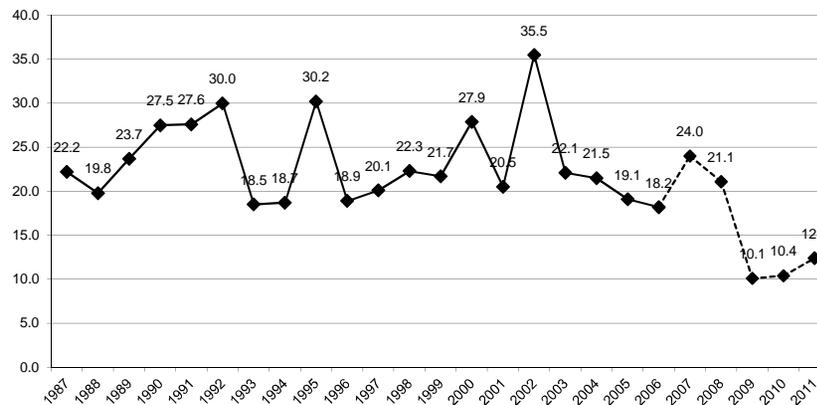
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PAIRS / SQ MILE ALL SPECIES*

BORDER PRAIRIE AREA (OF THE FERGUS FALLS WMD)



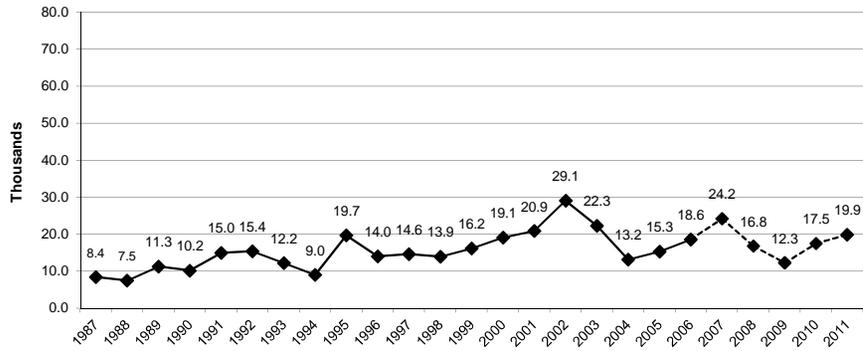
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NUMBER OF MALLARD RECRUITS PRODUCED

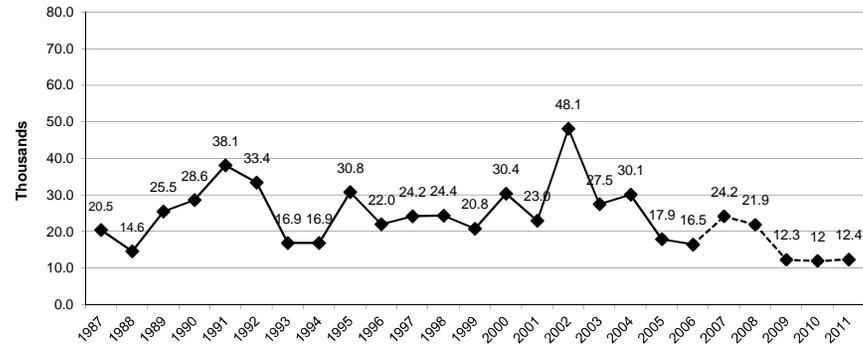
BORDER PRAIRIE AREA (OF THE FERGUS FALLS WMD)



DATA VALUES ARE FOR THE PRAIRIE POTHOLE REGION ONLY

NUMBER OF BW TEAL RECRUITS PRODUCED

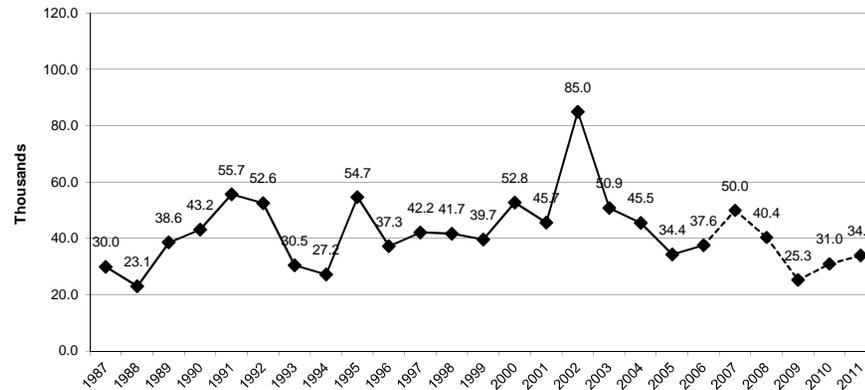
BORDER PRAIRIE AREA (OF THE FERGUS FALLS WMD)



DATA VALUES ARE FOR THE PRAIRIE POTHOLE REGION ONLY

NUMBER OF RECRUITS PRODUCED*

BORDER PRAIRIE AREA (OF THE FERGUS FALLS WMD)



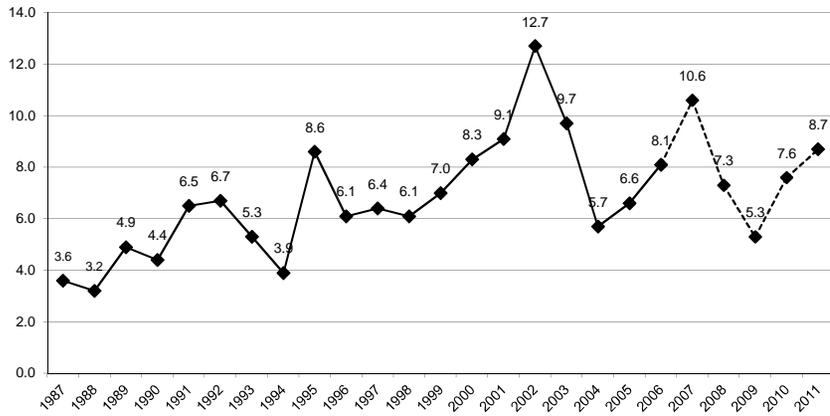
DATA VALUES ARE FOR THE PRAIRIE POTHOLE REGION ONLY

*DATA VALUES ARE FOR 5 SPECIES (MALLARD, GADWALL, BLUE-WINGED TEAL, SHOVELER, AND PINTAIL)

Note: Updated habitat and ownership database files, as well as, a state ownership category were implemented in the preparation of production estimates. Dashed lines represent updates from 2007 to current year.

MALLARD RECRUITS / SQ MILE

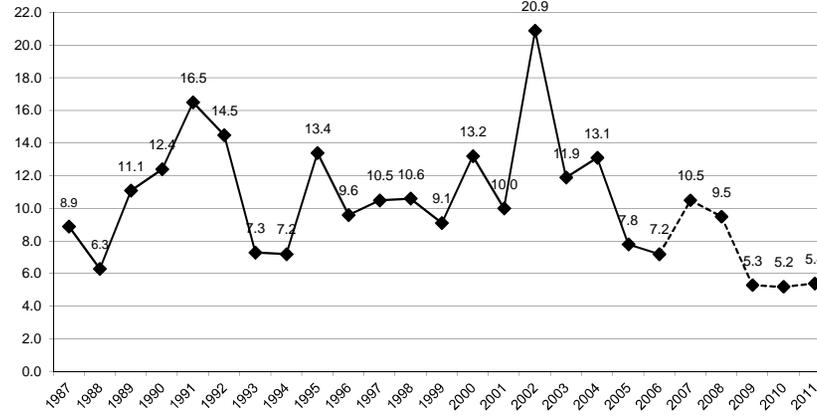
BORDER PRAIRIE AREA (OF THE FERGUS FALLS WMD)



DATA VALUES ARE FOR THE PRAIRIE POTHOLE REGION ONLY

BW TEAL RECRUITS / SQ MILE

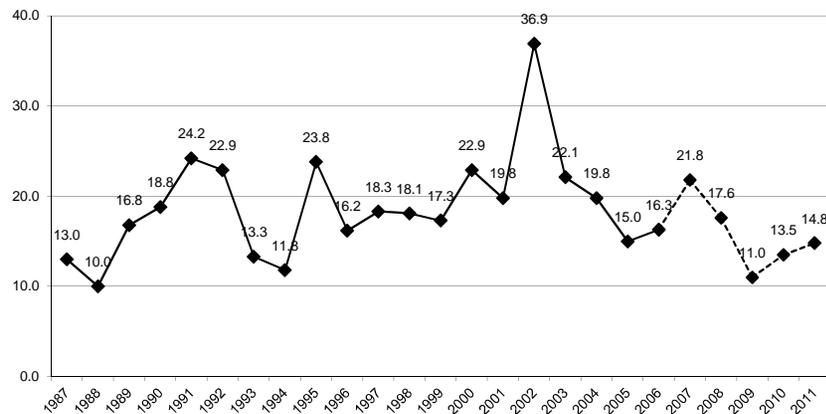
BORDER PRAIRIE AREA (OF THE FERGUS FALLS WMD)



DATA VALUES ARE FOR THE PRAIRIE POTHOLE REGION ONLY

RECRUITS / SQ MILE ALL SPECIES*

BORDER PRAIRIE AREA (OF THE FERGUS FALLS WMD)



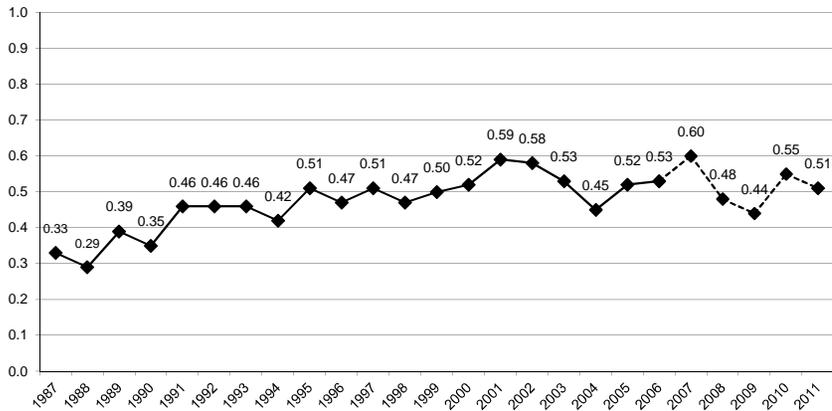
DATA VALUES ARE FOR THE PRAIRIE POTHOLE REGION ONLY

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MALLARD RECRUITMENT RATE*

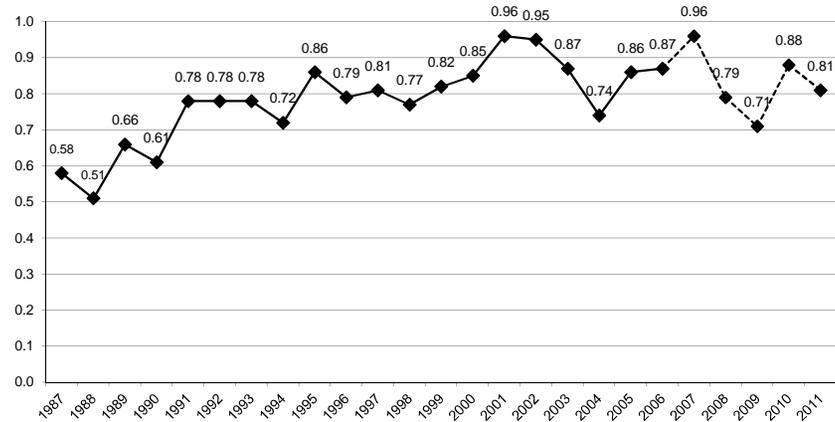
BORDER PRAIRIE AREA (OF THE FERGUS FALLS WMD)



DATA VALUES ARE FOR THE PRAIRIE POTHOLE REGION ONLY
 *It is estimated that a .49 Recruitment Rate is required for a stable mallard population

BW TEAL RECRUITMENT RATE

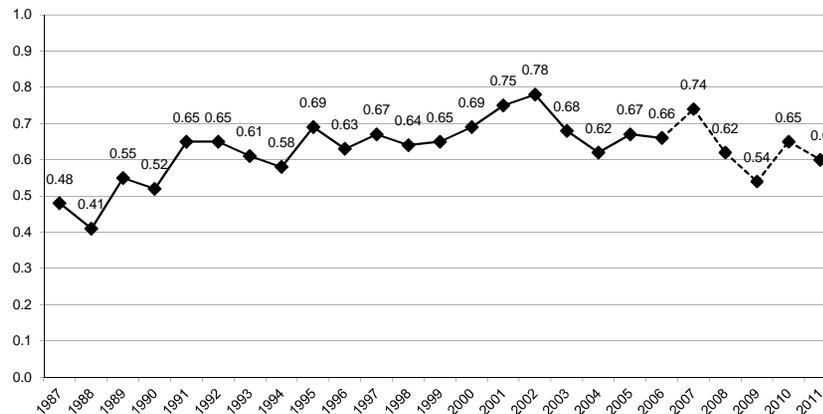
BORDER PRAIRIE AREA (OF THE FERGUS FALLS WMD)



DATA VALUES ARE FOR THE PRAIRIE POTHOLE REGION ONLY

RECRUITMENT RATE*

BORDER PRAIRIE AREA (OF THE FERGUS FALLS WMD)

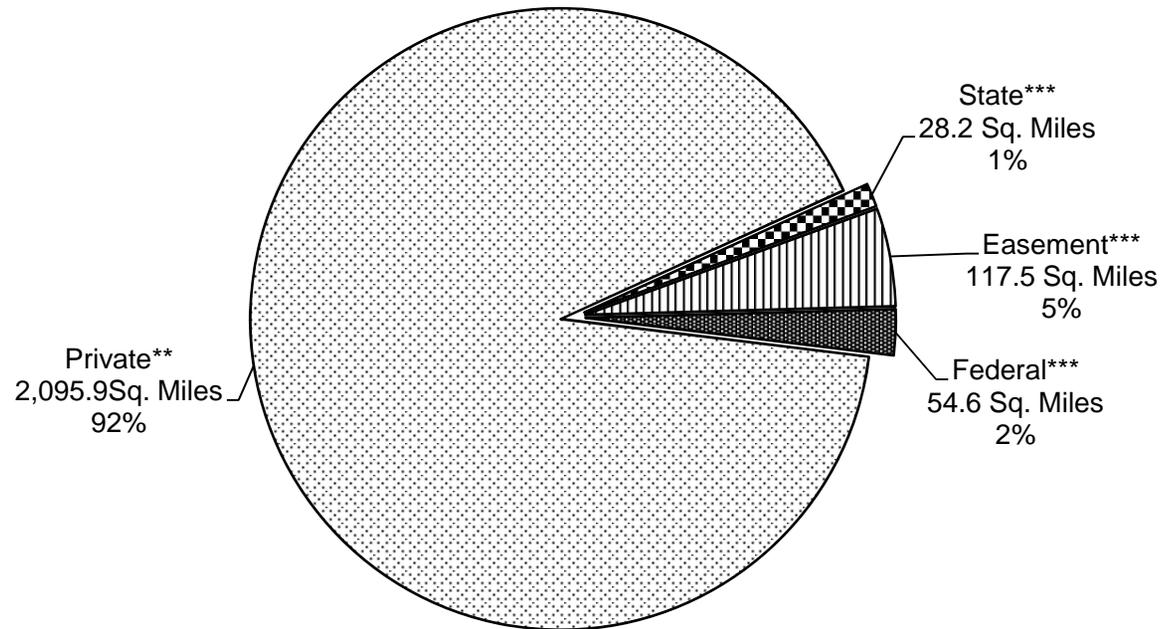


DATA VALUES ARE FOR THE PRAIRIE POTHOLE REGION ONLY
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Note: Updated habitat and ownership database files, as well as, a state ownership category were implemented in the preparation of production estimates. Dashed lines represent updates from 2007 to current year.

OWNERSHIP COMPOSITION*

BORDER PRAIRIE AREA (OF THE FERGUS FALLS WMD)



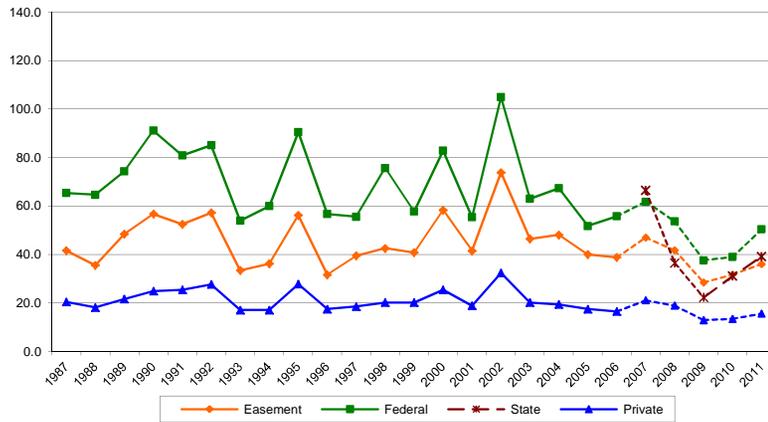
*DATA PRESENTED ARE FROM REPRESENTATIVE 4 SQ. MILE PLOTS IN THE PRAIRIE POTHOLE REGION ONLY.

**PRIVATE OWNERSHIP CATEGORY ALSO INCLUDES OTHER NGO CONSERVATION OWNERSHIPS.

***EASEMENT, FEDERAL AND STATE CATEGORIES ARE BASED ON SAMPLE PLOTS WHERE A MINIMUM OF 160 ACRES ARE IN FEDERAL OR STATE OWNERSHIP.

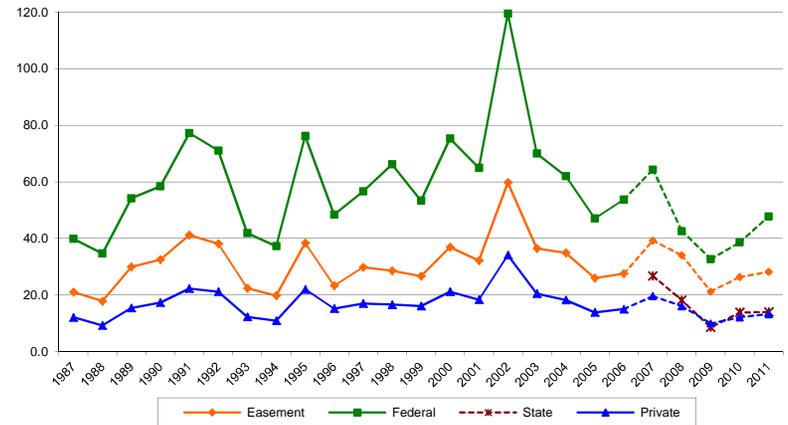
Note: Updated habitat and ownership database files, as well as, a state ownership category were implemented in the preparation of production estimates. Dashed lines represent updates from 2007 to current year.

ESTIMATED PAIRS / SQ. MILE BY OWNERSHIP
 13 SPECIES*
 BORDER PRAIRIE AREA (OF THE FERGUS FALLS WMD)



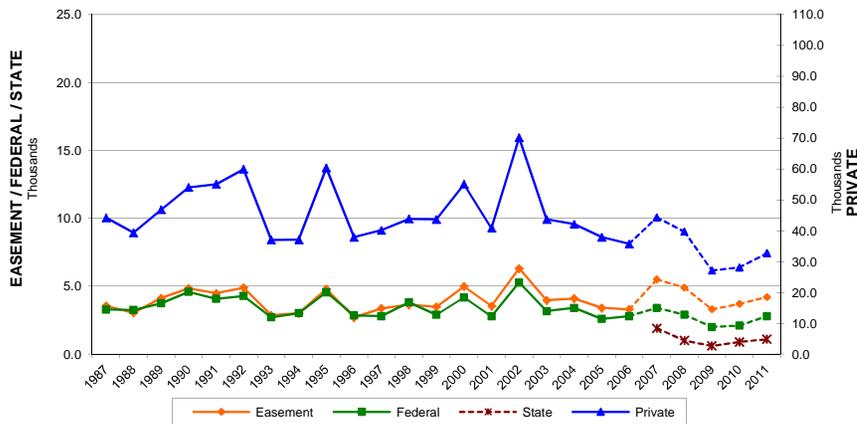
DATA VALUES ARE FOR THE PRAIRIE POTHOLE REGION ONLY
 *DATA VALUES ARE FOR 13 SPECIES (MALLARD, GADWALL, BLUE-WINGED TEAL, SHOVELER, PINTAIL, WIGEON, GREEN-WINGED TEAL, WOODDUCK, REDHEAD, CANVASBACK, L. SCAUP, RINGNECK, RUDDY DUCK)

ESTIMATED RECRUITS / SQ. MILE BY OWNERSHIP
 5 SPECIES*
 BORDER PRAIRIE AREA (OF THE FERGUS FALLS WMD)



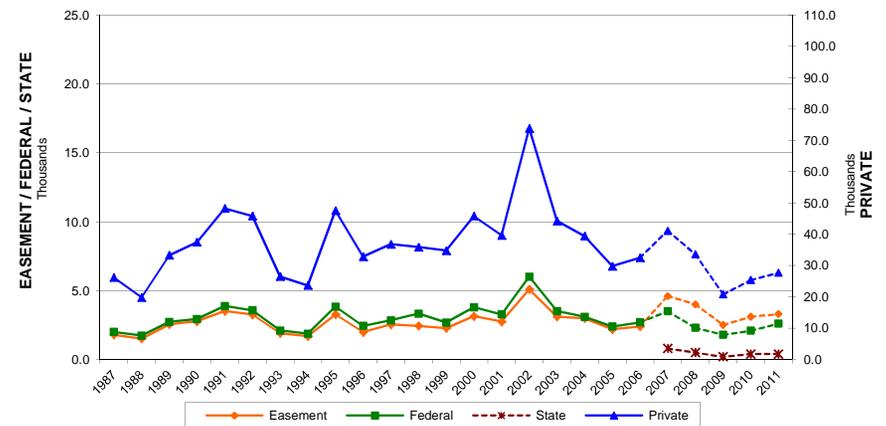
DATA VALUES ARE FOR THE PRAIRIE POTHOLE REGION ONLY
 *DATA VALUES ARE FOR 5 SPECIES (MALLARD, GADWALL, BLUE-WINGED TEAL, SHOVELER, AND PINTAIL)

ESTIMATED PAIRS BY OWNERSHIP
 13 SPECIES*
 BORDER PRAIRIE AREA (OF THE FERGUS FALLS WMD)



DATA VALUES ARE FOR THE PRAIRIE POTHOLE REGION ONLY
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ESTIMATED RECRUITS BY OWNERSHIP
 5 SPECIES*
 BORDER PRAIRIE AREA (OF THE FERGUS FALLS WMD)



DATA VALUES ARE FOR THE PRAIRIE POTHOLE REGION ONLY
 *DATA VALUES ARE FOR 5 SPECIES (MALLARD, GADWALL, BLUE-WINGED TEAL, SHOVELER, AND PINTAIL)

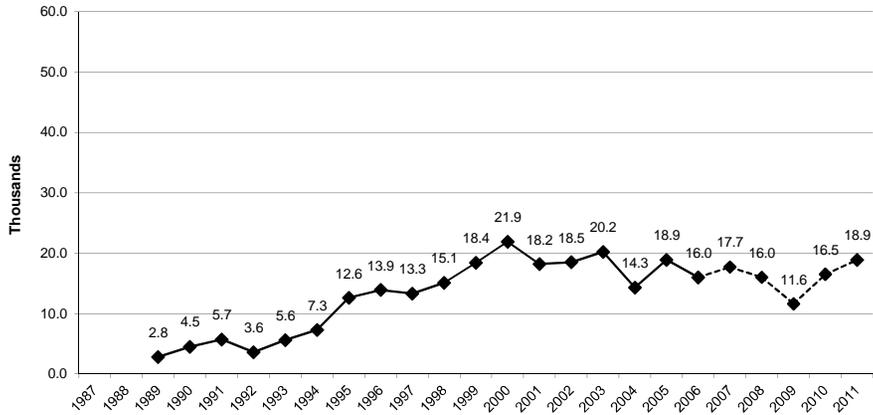
Note: Updated habitat and ownership database files, as well as, a state ownership category were implemented in the preparation of production estimates. Dashed lines represent updates from 2007 to current year.

**GLACIAL LAKES PRAIRIE AREA
OF THE
LITCHFIELD
WETLAND MANAGEMENT DISTRICT**

[Click to return to Subsection Index](#)

NUMBER OF WET PONDS

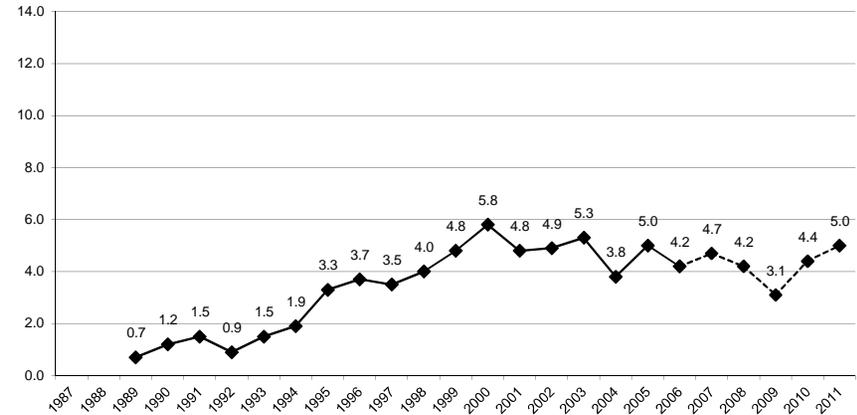
GLACIAL LAKES PRAIRIE AREA (OF THE LITCHFIELD WMD)



DATA VALUES ARE FOR THE PRAIRIE POTHOLE REGION ONLY

PONDS / SQ MILE

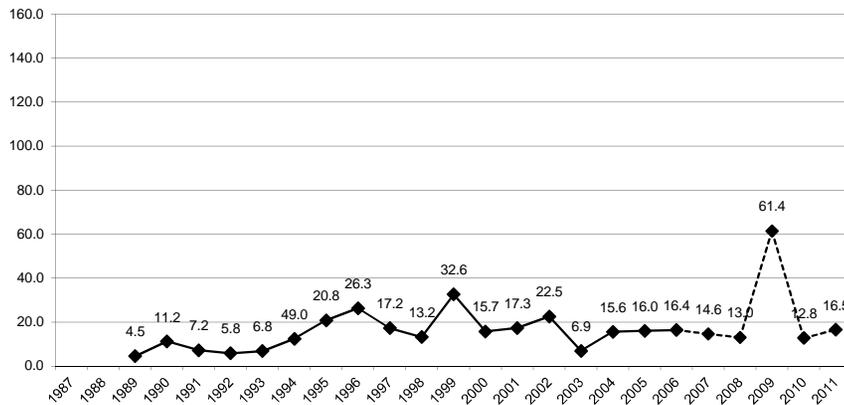
GLACIAL LAKES PRAIRIE AREA (OF THE LITCHFIELD WMD)



DATA VALUES ARE FOR THE PRAIRIE POTHOLE REGION ONLY

WETLAND DENSITY*

GLACIAL LAKES PRAIRIE AREA (OF THE LITCHFIELD WMD)

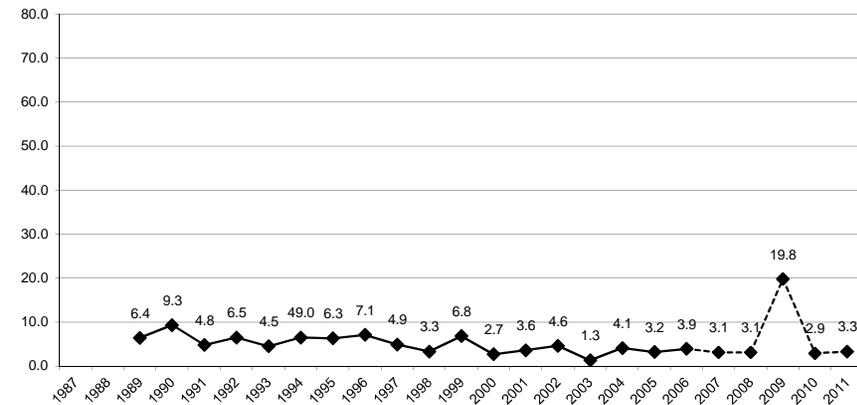


DATA VALUES ARE FOR THE PRAIRIE POTHOLE REGION ONLY

*WETLAND ACRES / SQ MILE

AVERAGE WETLAND SIZE*

GLACIAL LAKES PRAIRIE AREA (OF THE LITCHFIELD WMD)



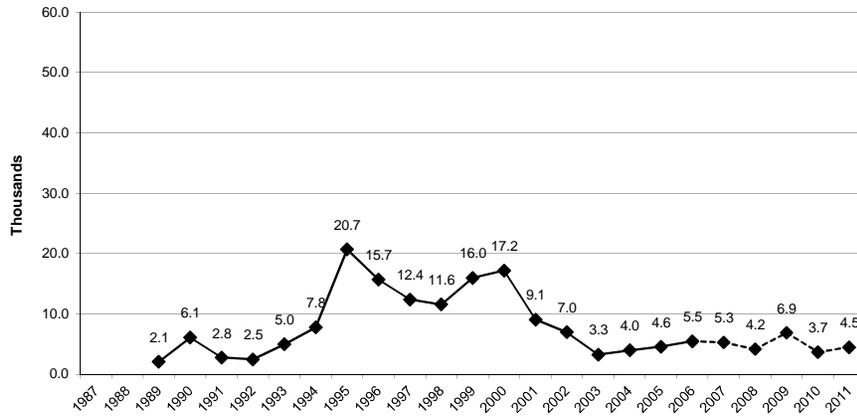
DATA VALUES ARE FOR THE PRAIRIE POTHOLE REGION ONLY

*ACRES

Note: Updated habitat and ownership database files, as well as, a state ownership category were implemented in the preparation of production estimates. Dashed lines represent updates from 2007 to current year.

MALLARD BREEDING PAIRS

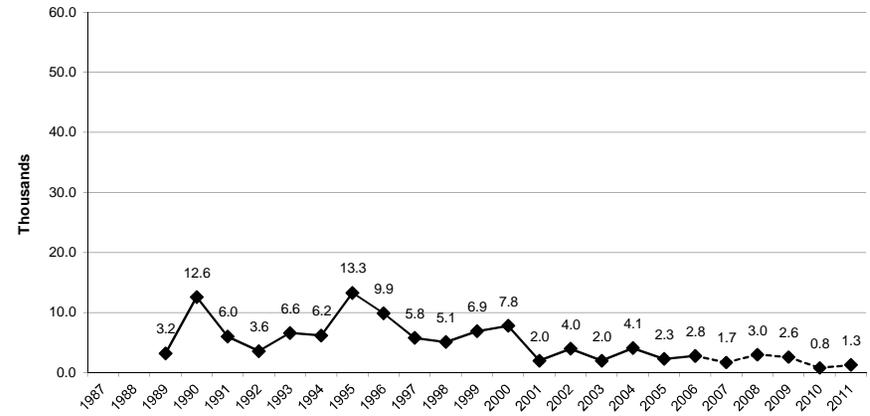
GLACIAL LAKES PRAIRIE AREA (OF THE LITCHFIELD WMD)



DATA VALUES ARE FOR THE PRAIRIE POTHOLE REGION ONLY

BW TEAL BREEDING PAIRS

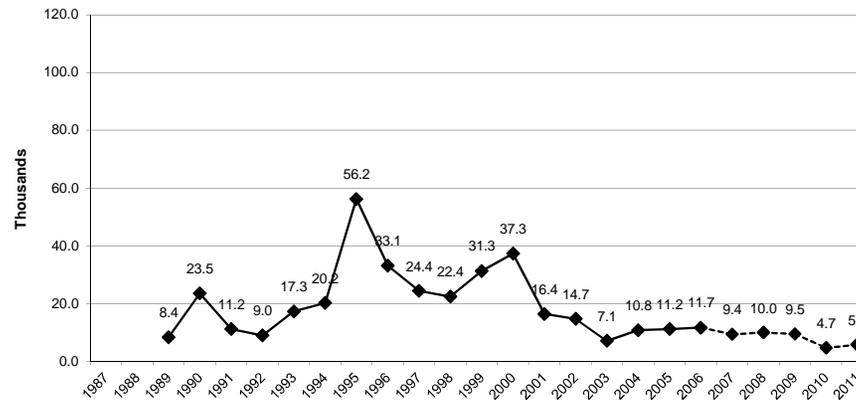
GLACIAL LAKES PRAIRIE AREA (OF THE LITCHFIELD WMD)



DATA VALUES ARE FOR THE PRAIRIE POTHOLE REGION ONLY

BREEDING PAIRS ALL SPECIES*

GLACIAL LAKES PRAIRIE AREA (OF THE LITCHFIELD WMD)



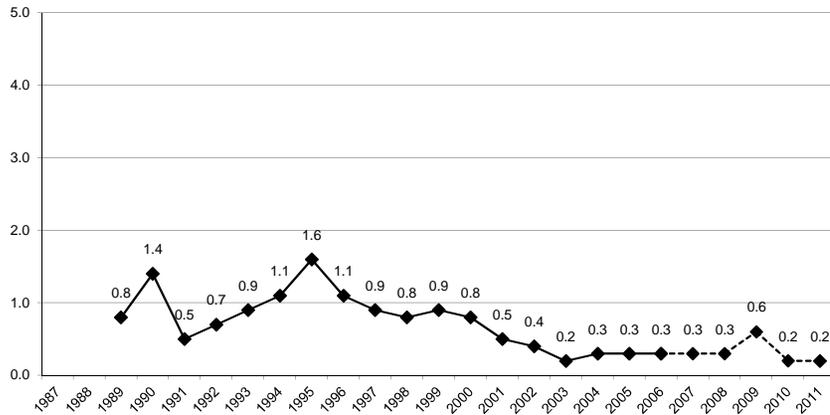
DATA VALUES ARE FOR THE PRAIRIE POTHOLE REGION ONLY

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Note: Updated habitat and ownership database files, as well as, a state ownership category were implemented in the preparation of production estimates. Dashed lines represent updates from 2007 to current year.

MALLARD PAIRS / POND

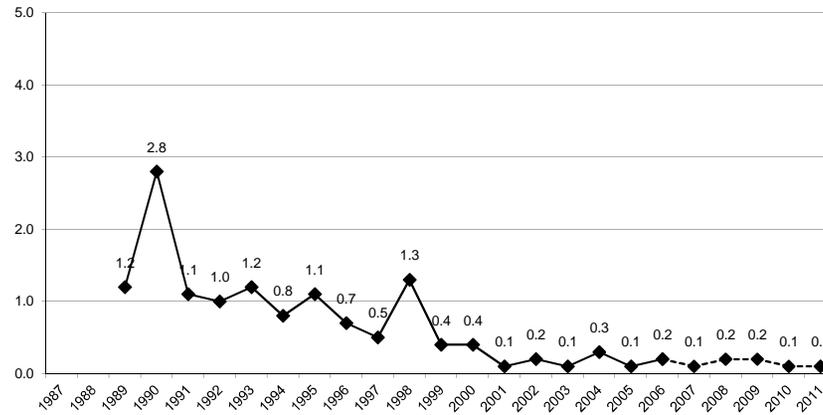
GLACIAL LAKES PRAIRIE AREA (OF THE LITCHFIELD WMD)



DATA VALUES ARE FOR THE PRAIRIE POTHOLE REGION ONLY

BW TEAL PAIRS / POND

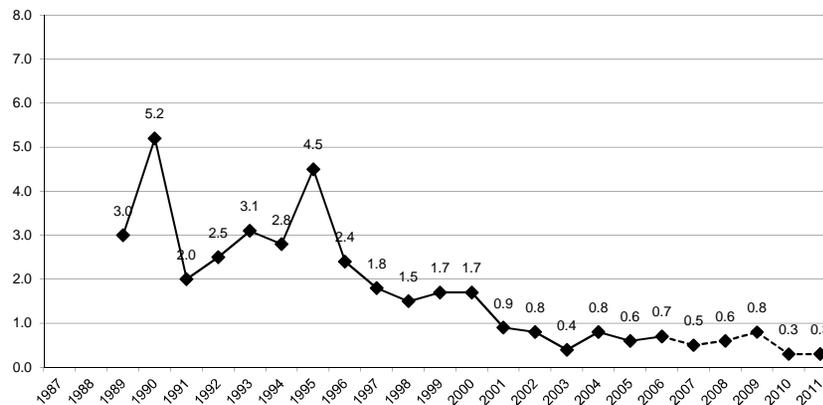
GLACIAL LAKES PRAIRIE AREA (OF THE LITCHFIELD WMD)



DATA VALUES ARE FOR THE PRAIRIE POTHOLE REGION ONLY

PAIRS / POND ALL SPECIES*

GLACIAL LAKES PRAIRIE AREA (OF THE LITCHFIELD WMD)



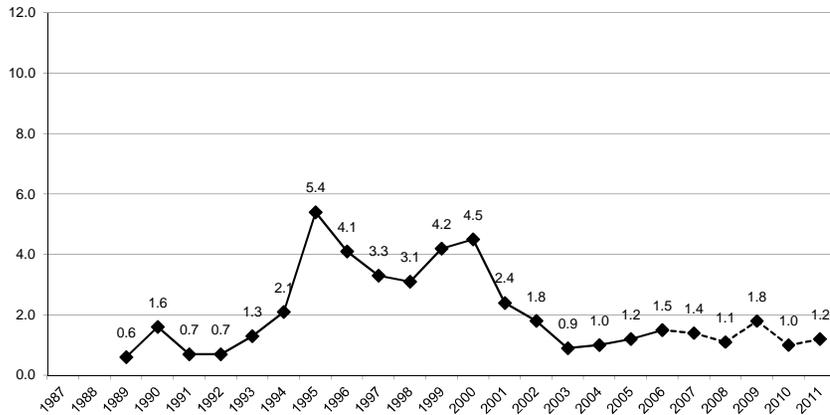
DATA VALUES ARE FOR THE PRAIRIE POTHOLE REGION ONLY

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MALLARD PAIRS / SQ MILE

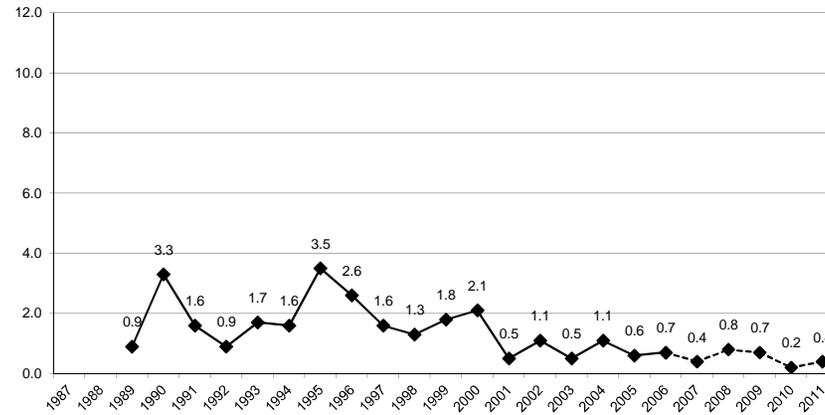
GLACIAL LAKES PRAIRIE AREA (OF THE LITCHFIELD WMD)



DATA VALUES ARE FOR THE PRAIRIE POTHOLE REGION ONLY

BW TEAL PAIRS / SQ MILE

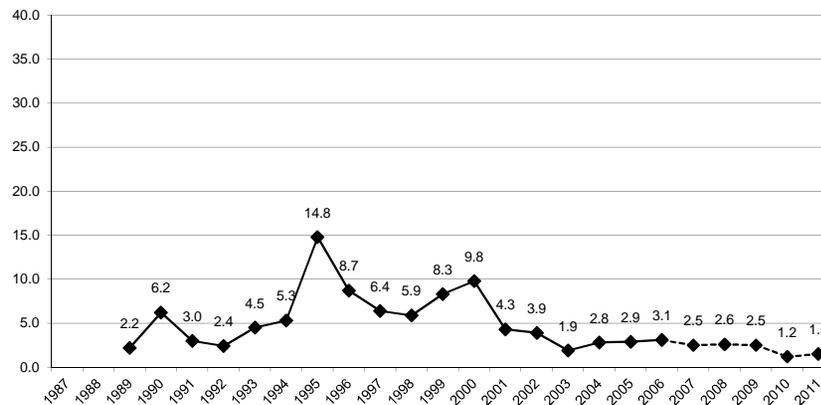
GLACIAL LAKES PRAIRIE AREA (OF THE LITCHFIELD WMD)



DATA VALUES ARE FOR THE PRAIRIE POTHOLE REGION ONLY

PAIRS / SQ MILE ALL SPECIES*

GLACIAL LAKES PRAIRIE AREA (OF THE LITCHFIELD WMD)



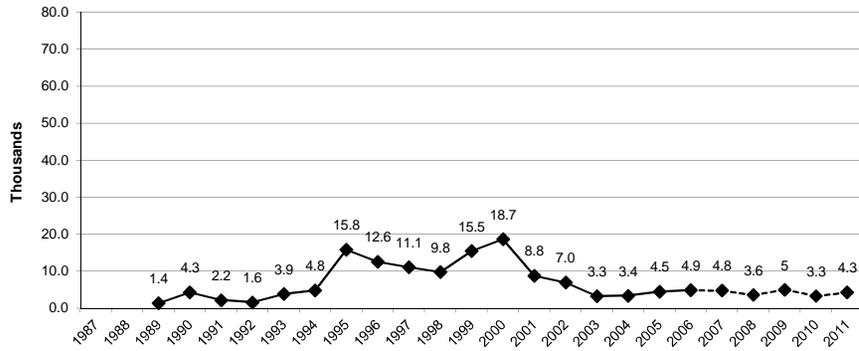
DATA VALUES ARE FOR THE PRAIRIE POTHOLE REGION ONLY

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NUMBER OF MALLARD RECRUITS PRODUCED

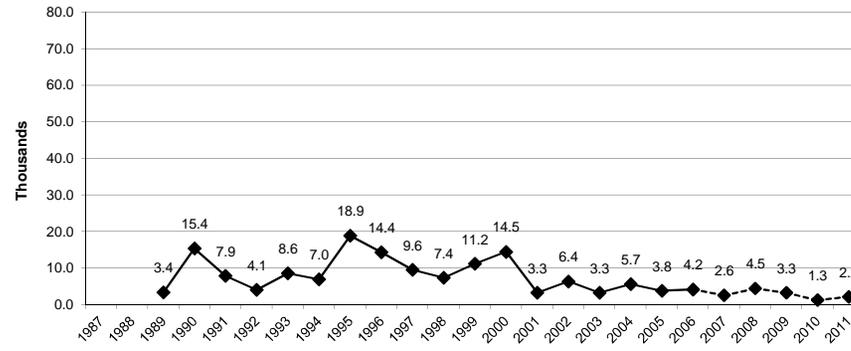
GLACIAL LAKES PRAIRIE AREA (OF THE LITCHFIELD WMD)



DATA VALUES ARE FOR THE PRAIRIE POTHOLE REGION ONLY

NUMBER OF BW TEAL RECRUITS PRODUCED

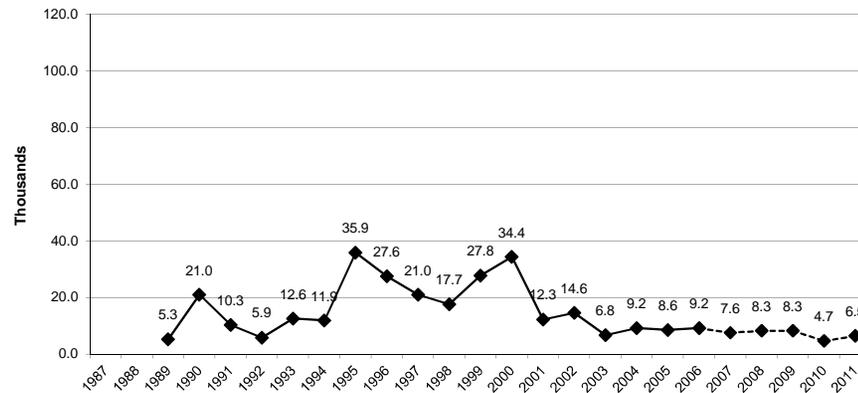
GLACIAL LAKES PRAIRIE AREA (OF THE LITCHFIELD WMD)



DATA VALUES ARE FOR THE PRAIRIE POTHOLE REGION ONLY

NUMBER OF RECRUITS PRODUCED*

GLACIAL LAKES PRAIRIE AREA (OF THE LITCHFIELD WMD)



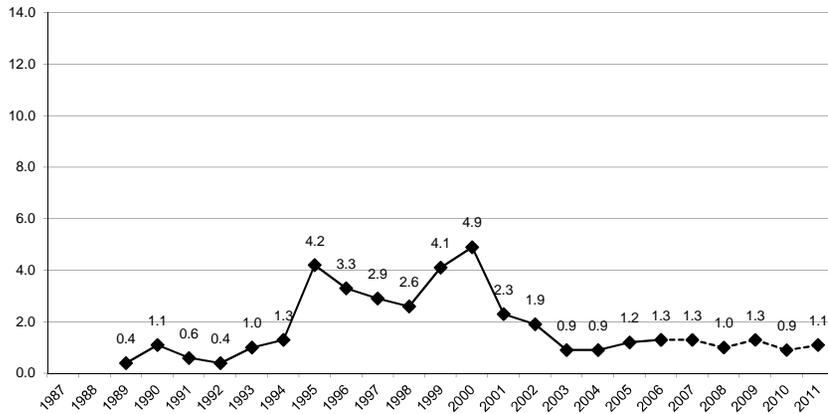
DATA VALUES ARE FOR THE PRAIRIE POTHOLE REGION ONLY

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MALLARD RECRUITS / SQ MILE

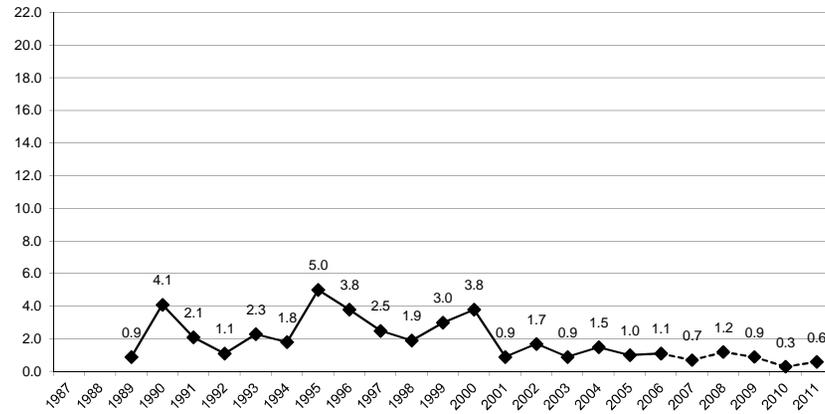
GLACIAL LAKES PRAIRIE AREA (OF THE LITCHFIELD WMD)



DATA VALUES ARE FOR THE PRAIRIE POTHOLE REGION ONLY

BW TEAL RECRUITS / SQ MILE

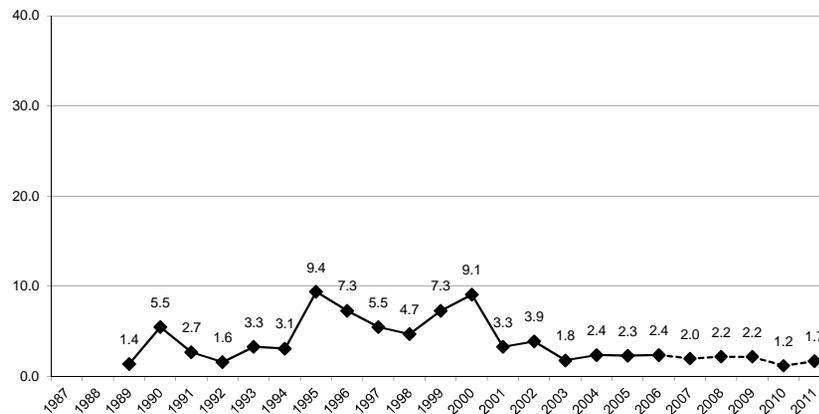
GLACIAL LAKES PRAIRIE AREA (OF THE LITCHFIELD WMD)



DATA VALUES ARE FOR THE PRAIRIE POTHOLE REGION ONLY

RECRUITS / SQ MILE ALL SPECIES*

GLACIAL LAKES PRAIRIE AREA (OF THE LITCHFIELD WMD)



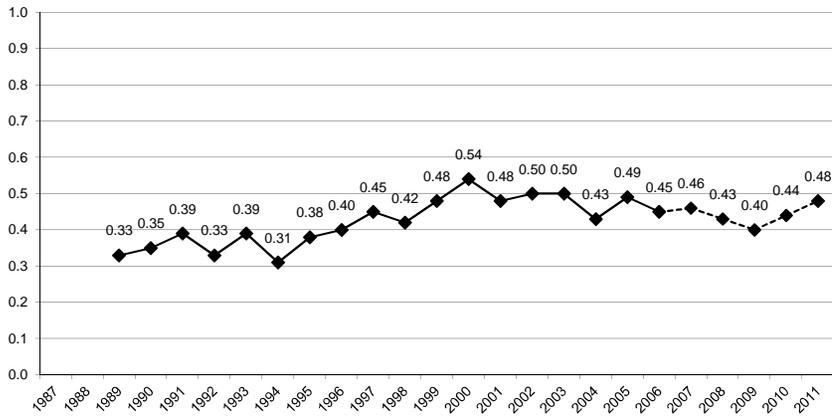
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MALLARD RECRUITMENT RATE*

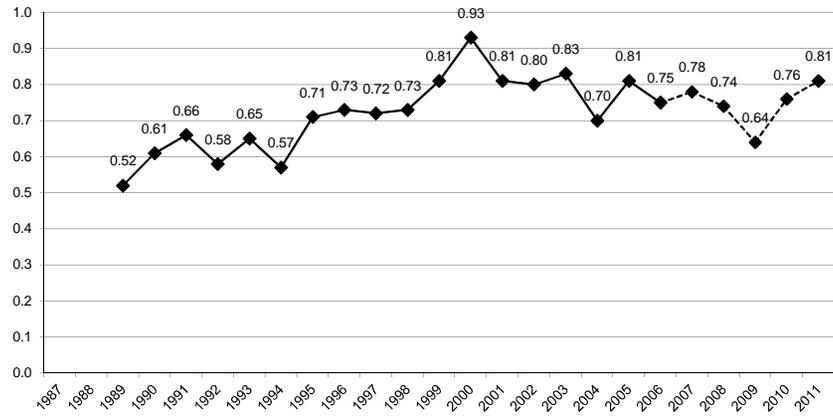
GLACIAL LAKES PRAIRIE AREA (OF THE LITCHFIELD WMD)



DATA VALUES ARE FOR THE PRAIRIE POTHOLE REGION ONLY
 *It is estimated that a .49 Recruitment Rate is required for a stable mallard population

BW TEAL RECRUITMENT RATE

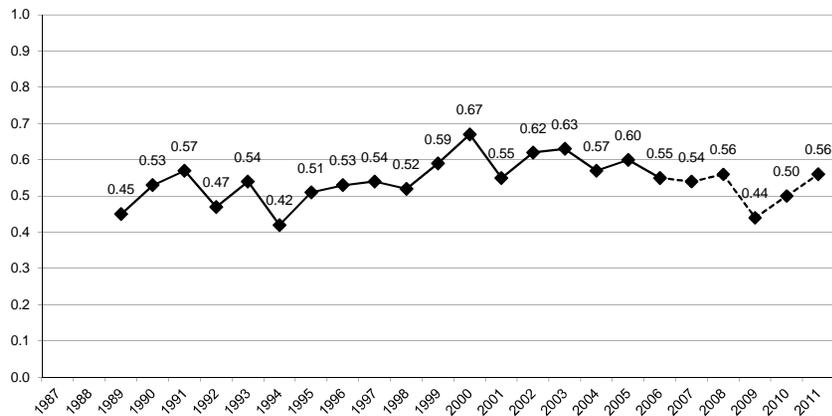
GLACIAL LAKES PRAIRIE AREA (OF THE LITCHFIELD WMD)



DATA VALUES ARE FOR THE PRAIRIE POTHOLE REGION ONLY

RECRUITMENT RATE*

GLACIAL LAKES PRAIRIE AREA (OF THE LITCHFIELD WMD)

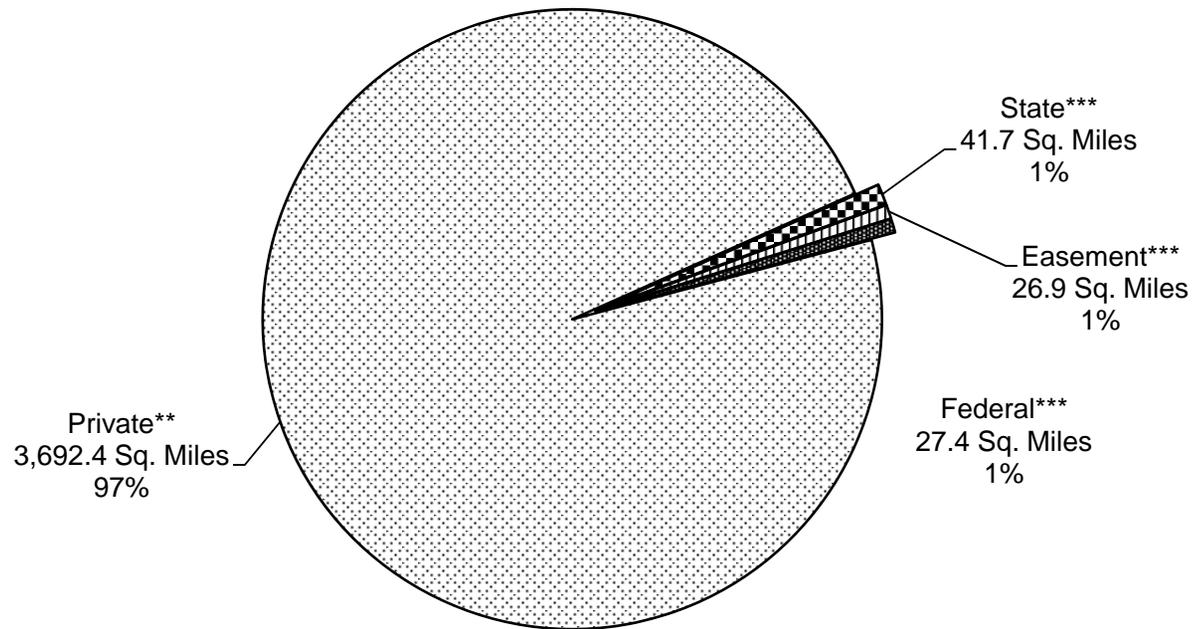


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OWNERSHIP COMPOSITION*

GLACIAL LAKES PRAIRIE AREA (OF THE LITCHFIELD WMD)



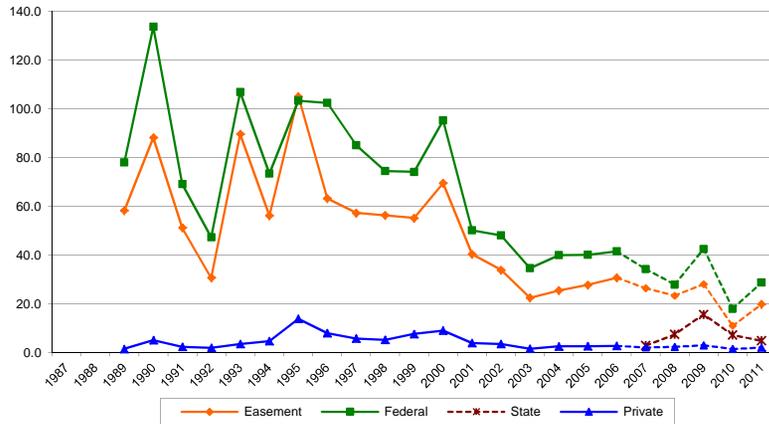
*DATA PRESENTED ARE FROM REPRESENTATIVE 4 SQ. MILE PLOTS IN THE PRAIRIE POTHOLE REGION ONLY.

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***EASEMENT, FEDERAL AND STATE CATEGORIES ARE BASED ON SAMPLE PLOTS WHERE A MINIMUM OF 160 ACRES ARE IN FEDERAL OR STATE OWNERSHIP.

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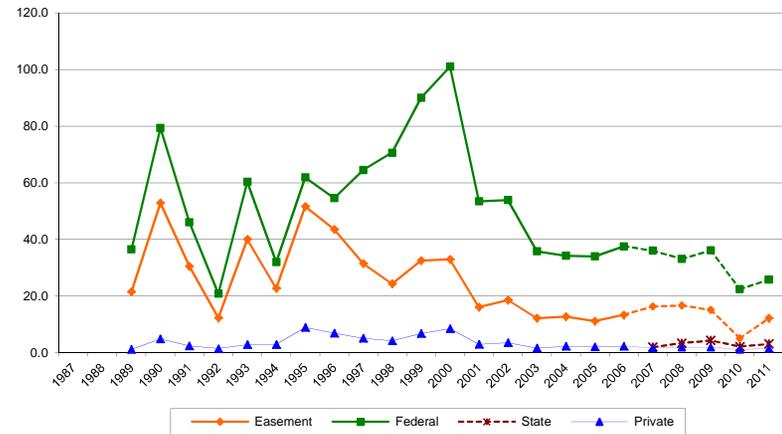
ESTIMATED PAIRS / SQ. MILE BY OWNERSHIP
 13 SPECIES*
 GLACIAL LAKES PRAIRIE AREA (OF THE LITCHFIELD WMD)



DATA VALUES ARE FOR THE PRAIRIE POTHOLE REGION ONLY

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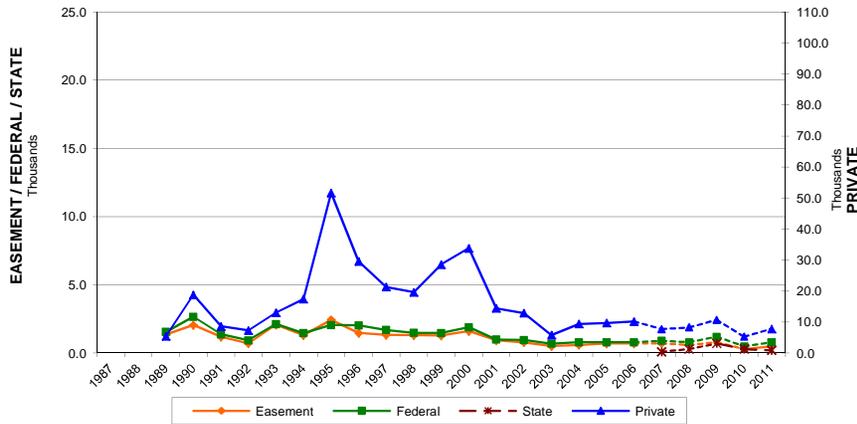
ESTIMATED RECRUITS / SQ. MILE BY OWNERSHIP
 5 SPECIES*
 GLACIAL LAKES PRAIRIE AREA (OF THE LITCHFIELD WMD)



DATA VALUES ARE FOR THE PRAIRIE POTHOLE REGION ONLY

*DATA VALUES ARE FOR 5 SPECIES (MALLARD, GADWALL, BLUE-WINGED TEAL, SHOVELER, AND PINTAIL)

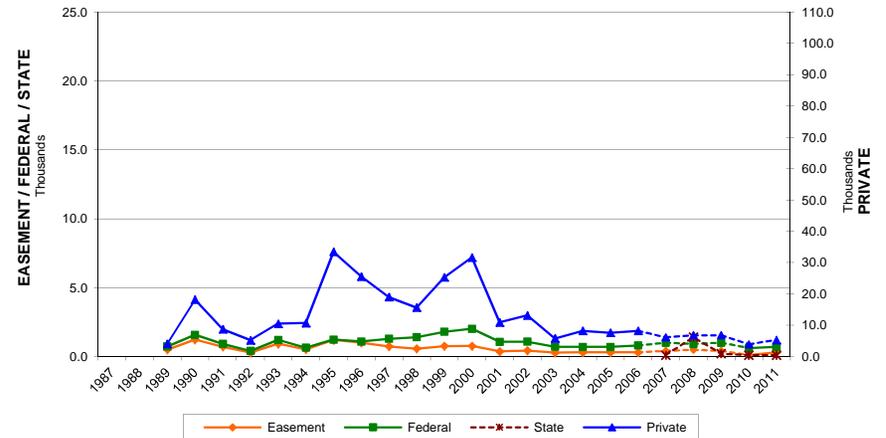
ESTIMATED PAIRS BY OWNERSHIP
 13 SPECIES*
 GLACIAL LAKES PRAIRIE AREA (OF THE LITCHFIELD WMD)



DATA VALUES ARE FOR THE PRAIRIE POTHOLE REGION ONLY

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ESTIMATED RECRUITS BY OWNERSHIP
 5 SPECIES*
 GLACIAL LAKES PRAIRIE AREA (OF THE LITCHFIELD WMD)



DATA VALUES ARE FOR THE PRAIRIE POTHOLE REGION ONLY

*DATA VALUES ARE FOR 5 SPECIES (MALLARD, GADWALL, BLUE-WINGED TEAL, SHOVELER, AND PINTAIL)

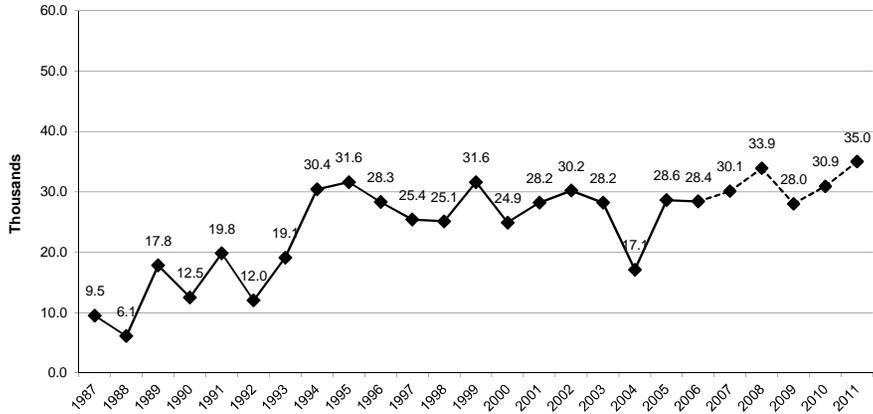
Note: Updated habitat and ownership database files, as well as, a state ownership category were implemented in the preparation of production estimates. Dashed lines represent updates from 2007 to current year.

**MN RIVER HEADWATERS PRAIRIE AREA
OF THE
MORRIS
WETLAND MANAGEMENT DISTRICT**

[Click to return to Subsection Index](#)

NUMBER OF WET PONDS

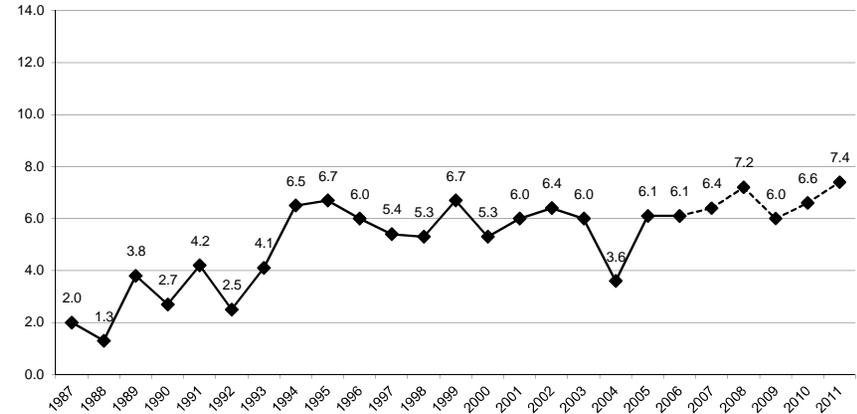
MN RIVER HEADWATERS PRAIRIE AREA (OF THE MORRIS WMD)



DATA VALUES ARE FOR THE PRAIRIE POTHOLE REGION ONLY

PONDS / SQ MILE

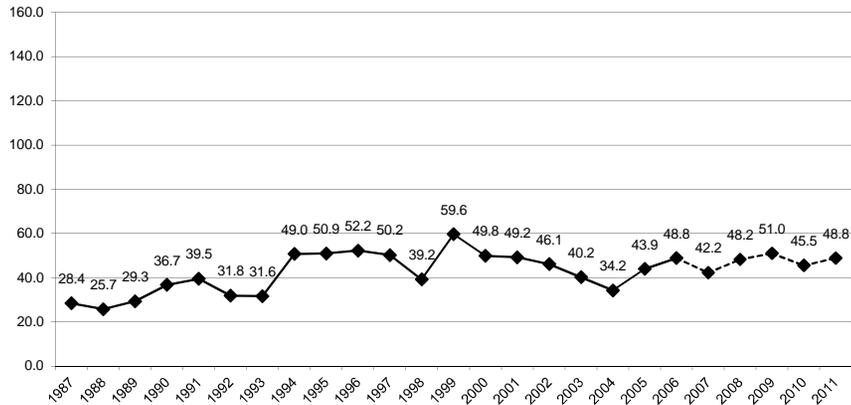
MN RIVER HEADWATERS PRAIRIE AREA (OF THE MORRIS WMD)



DATA VALUES ARE FOR THE PRAIRIE POTHOLE REGION ONLY

WETLAND DENSITY*

MN RIVER HEADWATERS PRAIRIE AREA (OF THE MORRIS WMD)

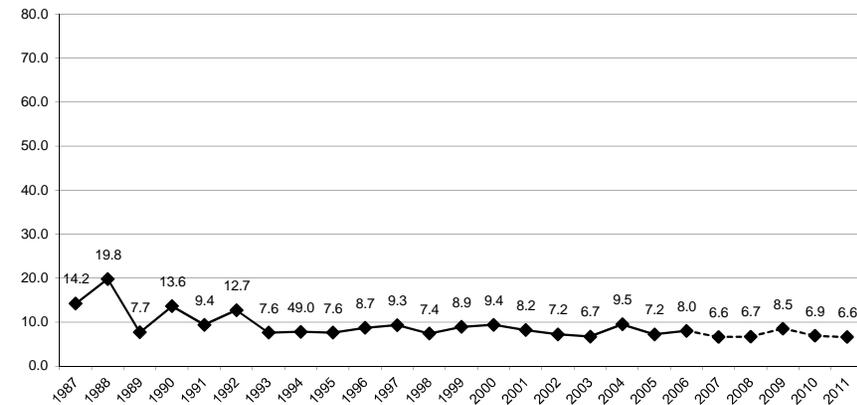


DATA VALUES ARE FOR THE PRAIRIE POTHOLE REGION ONLY

*WETLAND ACRES / SQ MILE

AVERAGE WETLAND SIZE*

MN RIVER HEADWATERS PRAIRIE AREA (OF THE MORRIS WMD)



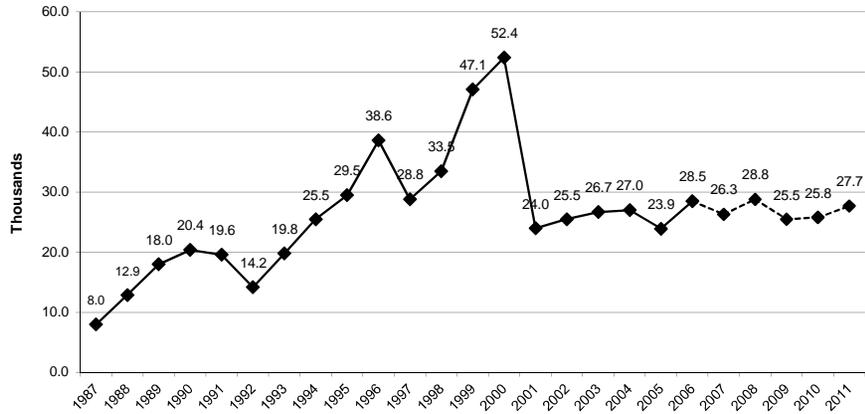
DATA VALUES ARE FOR THE PRAIRIE POTHOLE REGION ONLY

*ACRES

Note: Updated habitat and ownership database files, as well as, a state ownership category were implemented in the preparation of production estimates. Dashed lines represent updates from 2007 to current year.

MALLARD BREEDING PAIRS

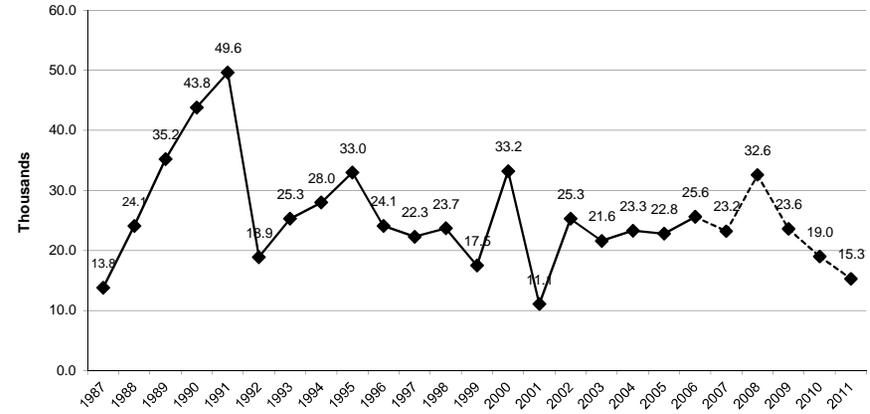
MN RIVER HEADWATERS PRAIRIE AREA (OF THE MORRIS WMD)



DATA VALUES ARE FOR THE PRAIRIE POTHOLE REGION ONLY

BW TEAL BREEDING PAIRS

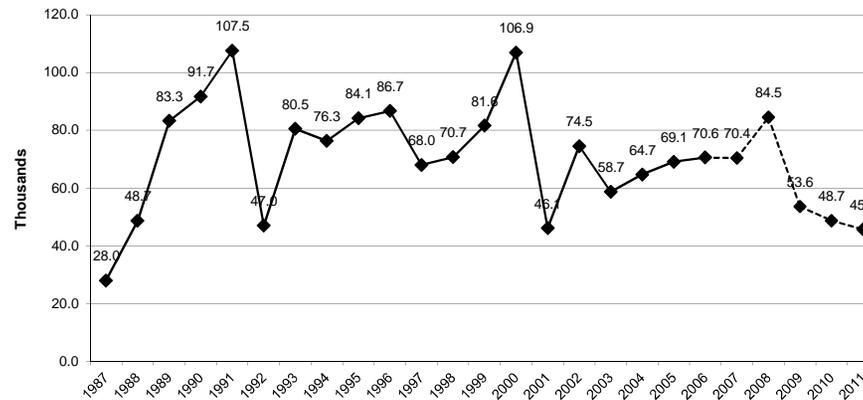
MN RIVER HEADWATERS PRAIRIE AREA (OF THE MORRIS WMD)



DATA VALUES ARE FOR THE PRAIRIE POTHOLE REGION ONLY

BREEDING PAIRS ALL SPECIES*

MN RIVER HEADWATERS PRAIRIE AREA (OF THE MORRIS WMD)



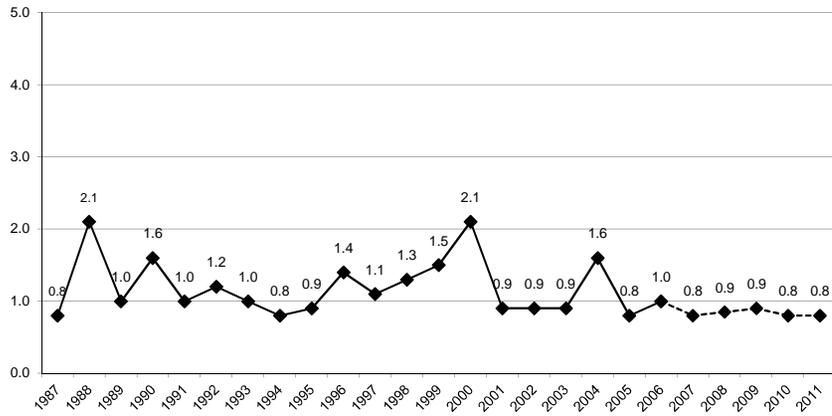
DATA VALUES ARE FOR THE PRAIRIE POTHOLE REGION ONLY

*DATA VALUES ARE FOR 13 SPECIES (MALLARD, GADWALL, BLUE-WINGED TEAL, SHOVELER, PINTAIL, WIGEON, GREEN-WINGED TEAL, WOODDUCK, REDHEAD, CANVASBACK, L. SCAUP, RINGNECK, RUDDY DUCK)

Note: Updated habitat and ownership database files, as well as, a state ownership category were implemented in the preparation of production estimates. Dashed lines represent updates from 2007 to current year.

MALLARD PAIRS / POND

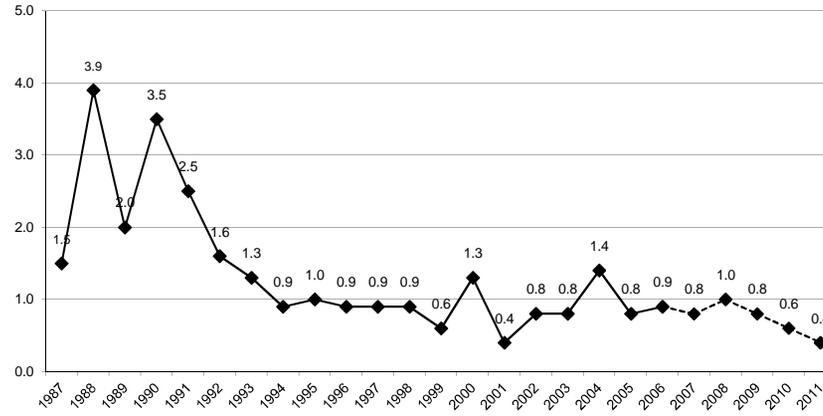
MN RIVERS HEADWATERS PRAIRIE AREA (OF THE MORRIS WMD)



DATA VALUES ARE FOR THE PRAIRIE POTHOLE REGION ONLY

BW TEAL PAIRS / POND

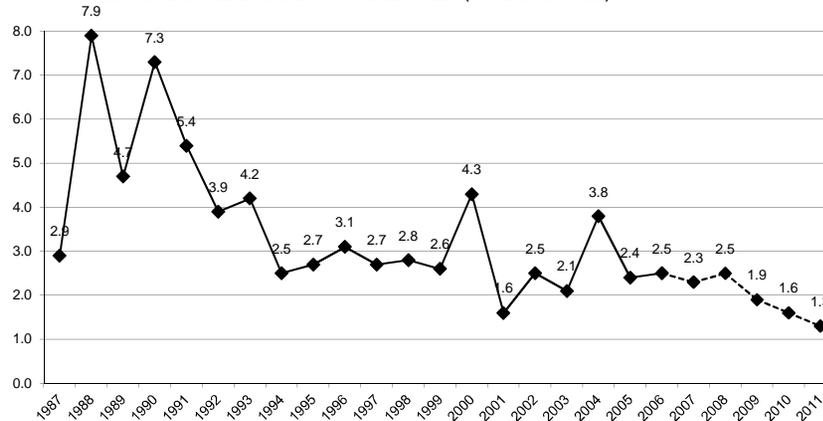
MN RIVERS HEADWATERS PRAIRIE AREA (OF THE MORRIS WMD)



DATA VALUES ARE FOR THE PRAIRIE POTHOLE REGION ONLY

PAIRS / POND ALL SPECIES*

MN RIVERS HEADWATERS PRAIRIE AREA (OF THE MORRIS WMD)



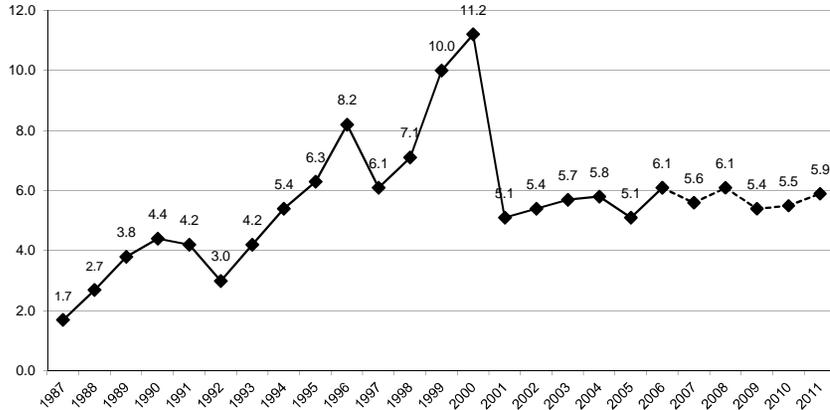
DATA VALUES ARE FOR THE PRAIRIE POTHOLE REGION ONLY

*DATA VALUES ARE FOR 13 SPECIES (MALLARD, GADWALL, BLUE-WINGED TEAL, SHOVELER, PINTAIL, WIGEON, GREEN-WINGED TEAL, WOODDUCK, REDHEAD, CANVASBACK, L. SCAUP, RINGNECK, RUDDY DUCK)

Note: Updated habitat and ownership database files, as well as, a state ownership category were implemented in the preparation of production estimates. Dashed lines represent updates from 2007 to current year.

MALLARD PAIRS / SQ MILE

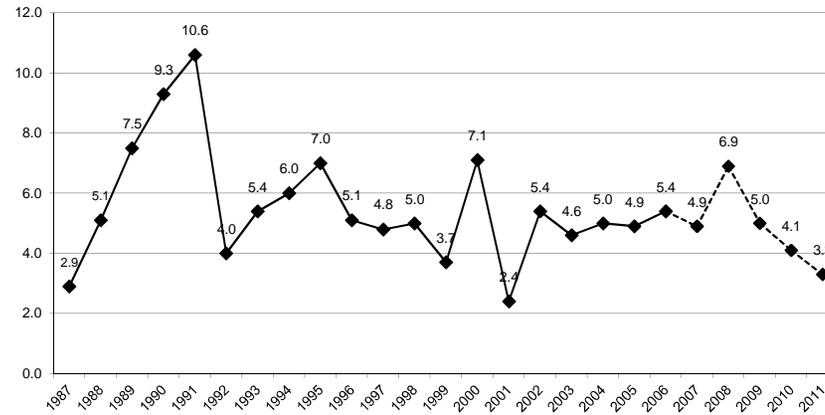
MN RIVER HEADWATERS PRAIRIE AREA (OF THE MORRIS WMD)



DATA VALUES ARE FOR THE PRAIRIE POTHOLE REGION ONLY

BW TEAL PAIRS / SQ MILE

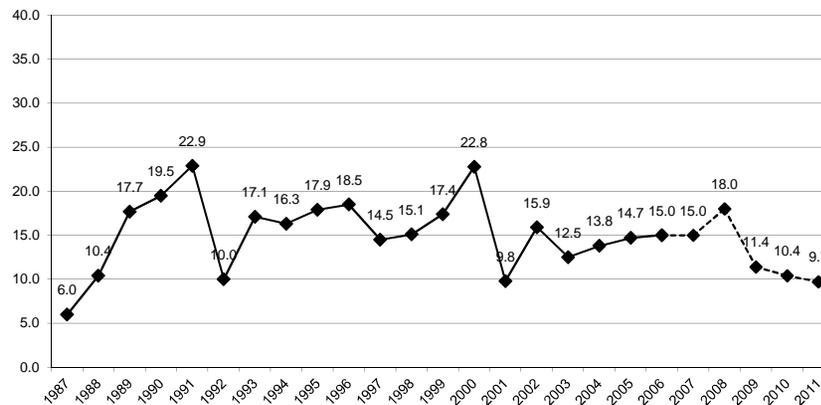
MN RIVER HEADWATERS PRAIRIE AREA (OF THE MORRIS WMD)



DATA VALUES ARE FOR THE PRAIRIE POTHOLE REGION ONLY

PAIRS / SQ MILE ALL SPECIES*

MN RIVER HEADWATERS PRAIRIE AREA (OF THE MORRIS WMD)



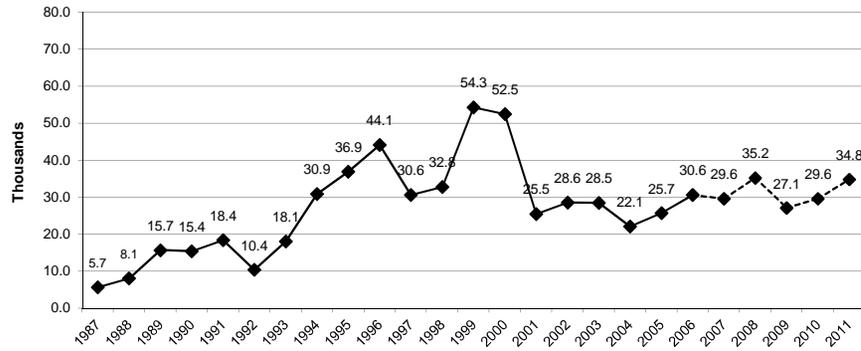
DATA VALUES ARE FOR THE PRAIRIE POTHOLE REGION ONLY

*DATA VALUES ARE FOR 13 SPECIES (MALLARD, GADWALL, BLUE-WINGED TEAL, SHOVELER, PINTAIL, WIGEON, GREEN-WINGED TEAL, WOODDUCK, REDHEAD, CANVASBACK, L. SCAUP, RINGNECK, RUDDY DUCK)

Note: Updated habitat and ownership database files, as well as, a state ownership category were implemented in the preparation of production estimates. Dashed lines represent updates from 2007 to current year.

NUMBER OF MALLARD RECRUITS PRODUCED

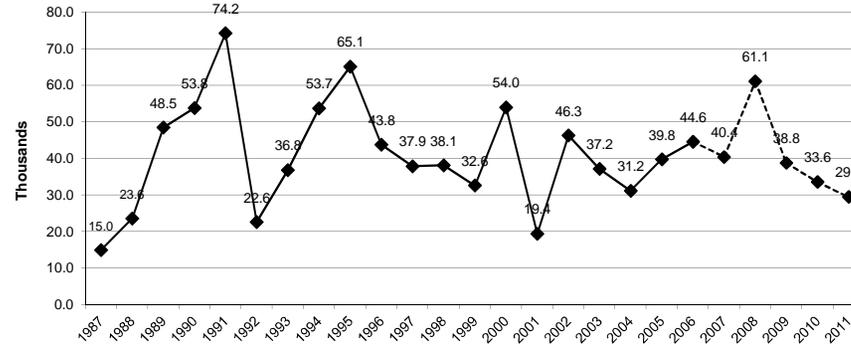
MN RIVER HEADWATERS PRAIRIE AREA (OF THE MORRIS WMD)



DATA VALUES ARE FOR THE PRAIRIE POTHOLE REGION ONLY

NUMBER OF BW TEAL RECRUITS PRODUCED

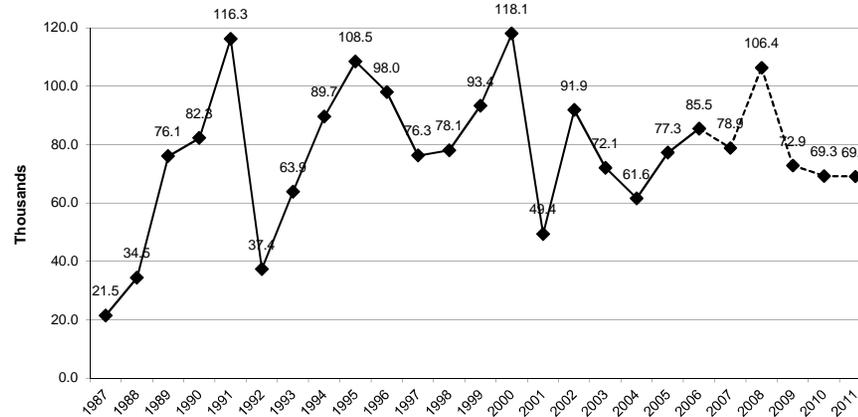
MN RIVER HEADWATERS PRAIRIE AREA (OF THE MORRIS WMD)



DATA VALUES ARE FOR THE PRAIRIE POTHOLE REGION ONLY

NUMBER OF RECRUITS PRODUCED*

MN RIVER HEADWATERS PRAIRIE AREA (OF THE MORRIS WMD)



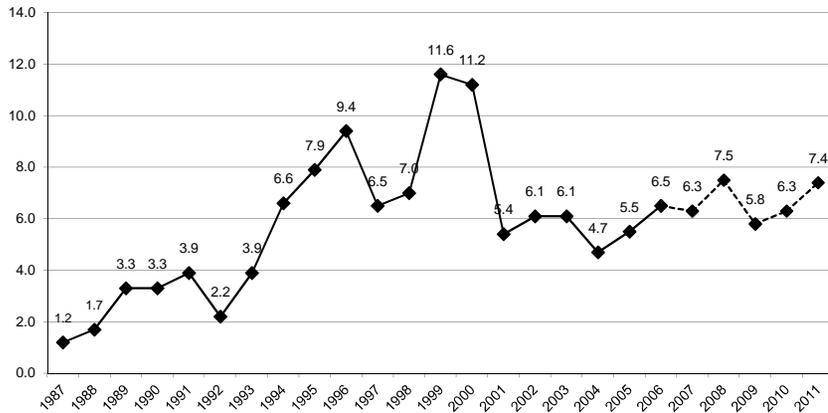
DATA VALUES ARE FOR THE PRAIRIE POTHOLE REGION ONLY

*DATA VALUES ARE FOR 5 SPECIES (MALLARD, GADWALL, BLUE-WINGED TEAL, SHOVELER, AND PINTAIL)

Note: Updated habitat and ownership database files, as well as, a state ownership category were implemented in the preparation of production estimates. Dashed lines represent updates from 2007 to current year.

MALLARD RECRUITS / SQ MILE

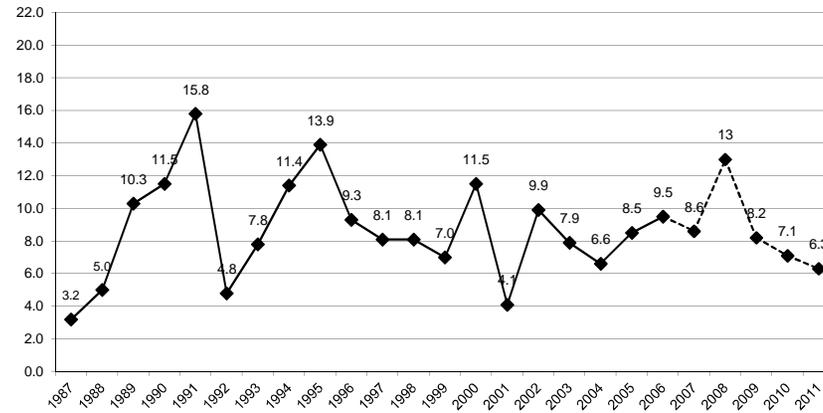
MN RIVER HEADWATERS PRAIRIE AREA (OF THE MORRIS WMD)



DATA VALUES ARE FOR THE PRAIRIE POTHOLE REGION ONLY

BW TEAL RECRUITS / SQ MILE

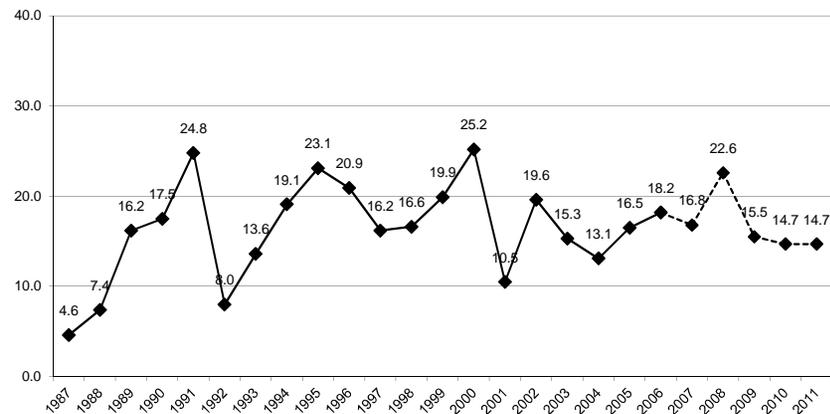
MN RIVER HEADWATERS PRAIRIE AREA (OF THE MORRIS WMD)



DATA VALUES ARE FOR THE PRAIRIE POTHOLE REGION ONLY

RECRUITS / SQ MILE ALL SPECIES*

MN RIVER HEADWATERS PRAIRIE AREA (OF THE MORRIS WMD)



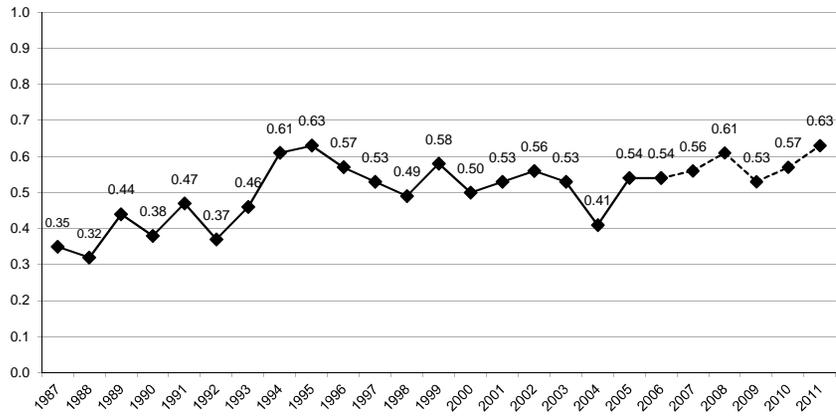
DATA VALUES ARE FOR THE PRAIRIE POTHOLE REGION ONLY

*DATA VALUES ARE FOR 5 SPECIES (MALLARD, GADWALL, BLUE-WINGED TEAL, SHOVELER, AND PINTAIL)

Note: Updated habitat and ownership database files, as well as, a state ownership category were implemented in the preparation of production estimates. Dashed lines represent updates from 2007 to current year.

MALLARD RECRUITMENT RATE*

MN RIVER HEADWATERS PRAIRIE AREA (OF THE MORRIS WMD)

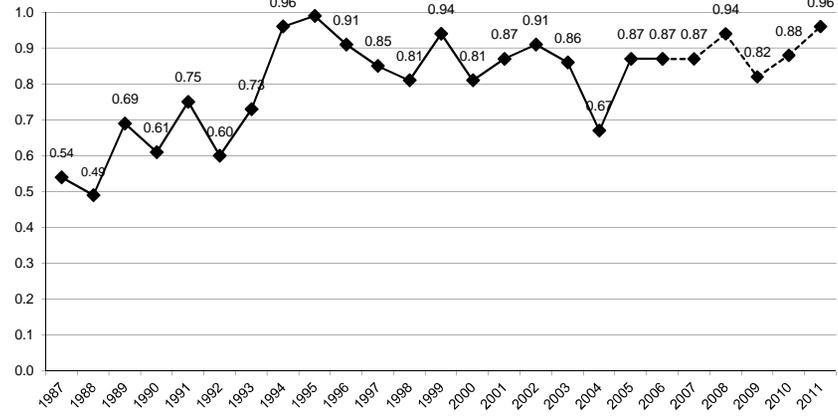


DATA VALUES ARE FOR THE PRAIRIE POTHOLE REGION ONLY

*It is estimated that a .49 Recruitment Rate is required for a stable mallard population

BW TEAL RECRUITMENT RATE

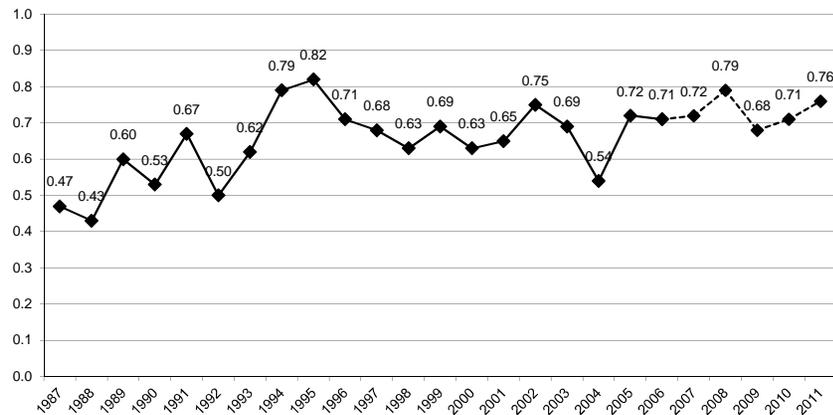
MN RIVER HEADWATERS PRAIRIE AREA (OF THE MORRIS WMD)



DATA VALUES ARE FOR THE PRAIRIE POTHOLE REGION ONLY

RECRUITMENT RATE*

MN RIVER HEADWATERS PRAIRIE AREA (OF THE MORRIS WMD)



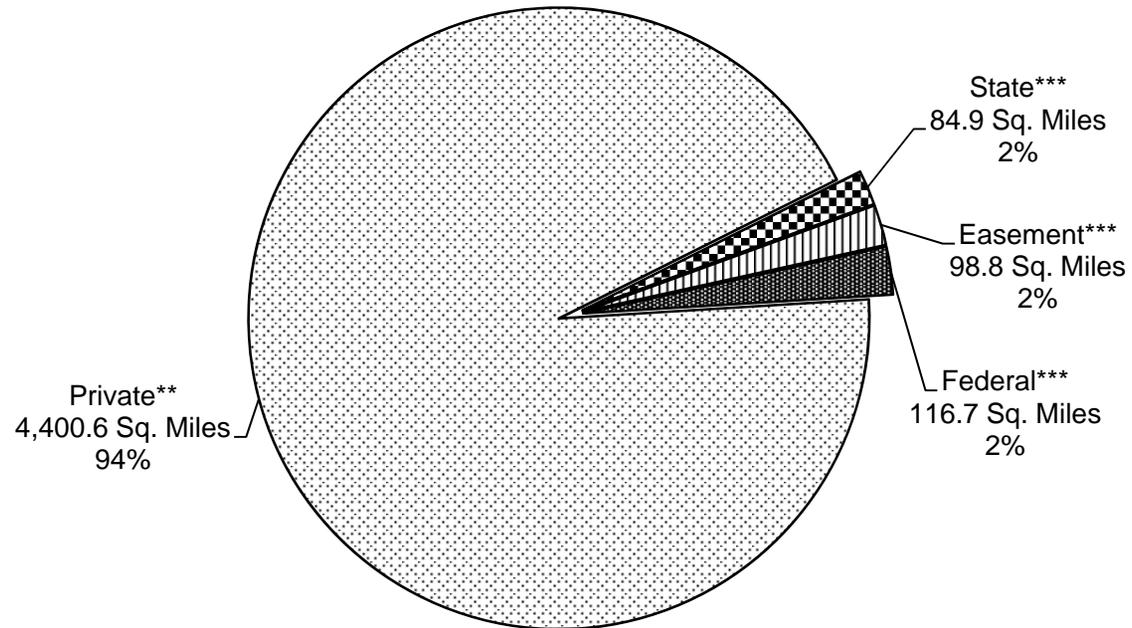
DATA VALUES ARE FOR THE PRAIRIE POTHOLE REGION ONLY

*DATA VALUES ARE FOR 5 SPECIES (MALLARD, GADWALL, BLUE-WINGED TEAL, SHOVELER, AND PINTAIL)

Note: Updated habitat and ownership database files, as well as, a state ownership category were implemented in the preparation of production estimates. Dashed lines represent updates from 2007 to current year.

OWNERSHIP COMPOSITION*

MN RIVER HEADWATERS PRAIRIE AREA (OF THE MORRIS WMD)



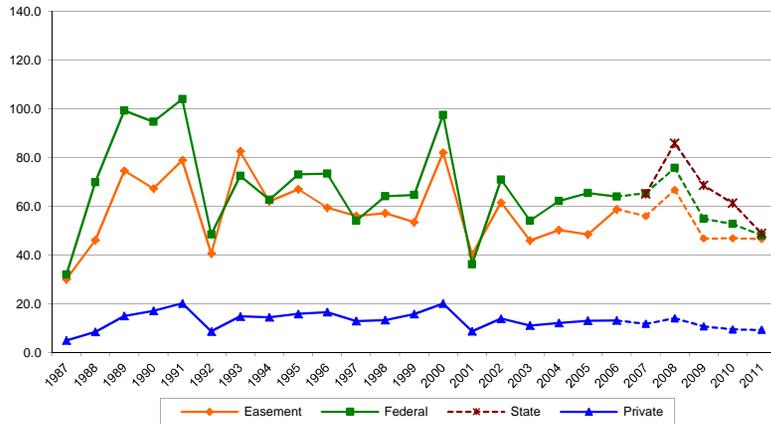
*DATA PRESENTED ARE FROM REPRESENTATIVE 4 SQ. MILE PLOTS IN THE PRAIRIE POTHOLE REGION ONLY.

**PRIVATE OWNERSHIP CATEGORY ALSO INCLUDES OTHER NGO CONSERVATION OWNERSHIPS.

***EASEMENT, FEDERAL AND STATE CATEGORIES ARE BASED ON SAMPLE PLOTS WHERE A MINIMUM OF 160 ACRES ARE IN FEDERAL OR STATE OWNERSHIP.

Note: Updated habitat and ownership database files, as well as, a state ownership category were implemented in the preparation of production estimates. Dashed lines represent updates from 2007 to current year.

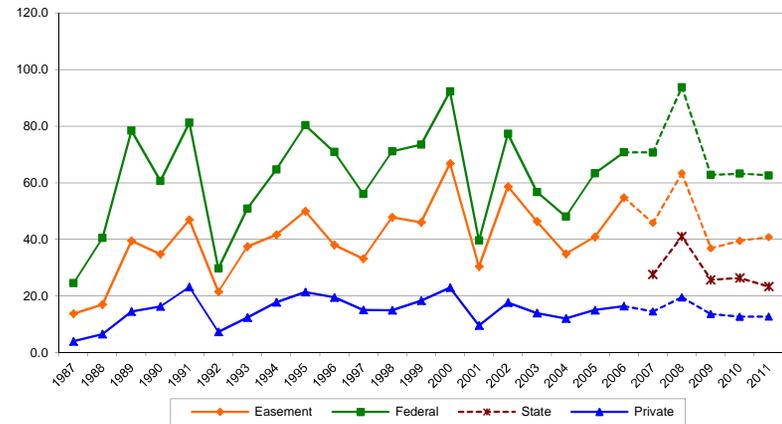
ESTIMATED PAIRS / SQ. MILE BY OWNERSHIP
13 SPECIES*
MN RIVER HEADWATERS PRAIRIE AREA (OF THE MORRIS WMD)



DATA VALUES ARE FOR THE PRAIRIE POTHOLE REGION ONLY

*DATA VALUES ARE FOR 13 SPECIES (MALLARD, GADWALL, BLUE-WINGED TEAL, SHOVELER, PINTAIL, WIGEON, GREEN-WINGED TEAL, WOODDUCK, REDHEAD, CANVASBACK, L. SCAUP, RINGNECK, RUDDY DUCK)

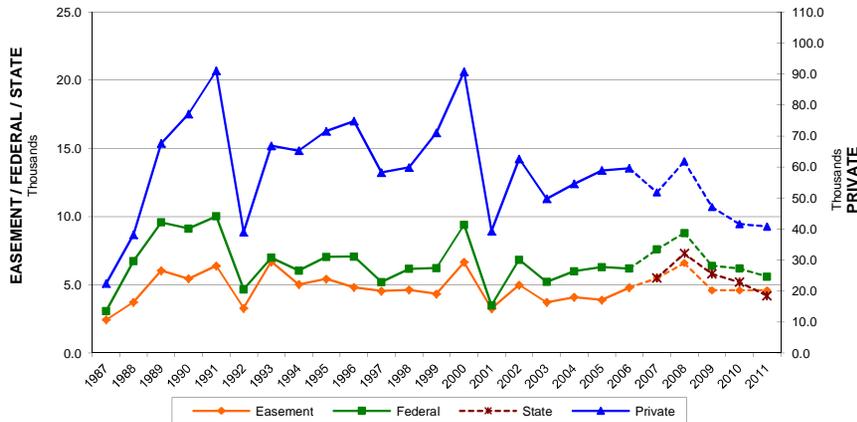
ESTIMATED RECRUITS / SQ. MILE BY OWNERSHIP
5 SPECIES*
MN RIVER HEADWATERS PRAIRIE AREA (OF THE MORRIS WMD)



DATA VALUES ARE FOR THE PRAIRIE POTHOLE REGION ONLY

*DATA VALUES ARE FOR 5 SPECIES (MALLARD, GADWALL, BLUE-WINGED TEAL, SHOVELER, AND PINTAIL)

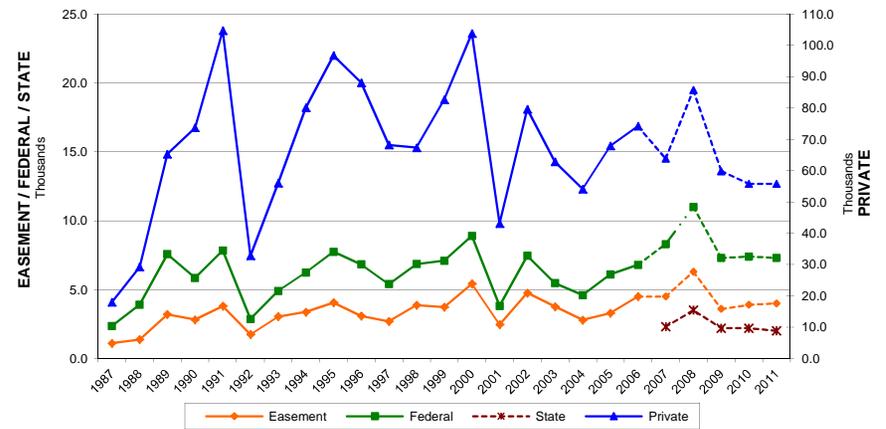
ESTIMATED PAIRS BY OWNERSHIP
13 SPECIES*
MN RIVER HEADWATERS PRAIRIE AREA (OF THE MORRIS WMD)



DATA VALUES ARE FOR THE PRAIRIE POTHOLE REGION ONLY

*DATA VALUES ARE FOR 13 SPECIES (MALLARD, GADWALL, BLUE-WINGED TEAL, SHOVELER, PINTAIL, WIGEON, GREEN-WINGED TEAL, WOODDUCK, REDHEAD, CANVASBACK, L. SCAUP, RINGNECK, RUDDY DUCK)

ESTIMATED RECRUITS BY OWNERSHIP
5 SPECIES*
MN RIVER HEADWATERS PRAIRIE AREA (OF THE MORRIS WMD)



DATA VALUES ARE FOR THE PRAIRIE POTHOLE REGION ONLY

*DATA VALUES ARE FOR 5 SPECIES (MALLARD, GADWALL, BLUE-WINGED TEAL, SHOVELER, AND PINTAIL)

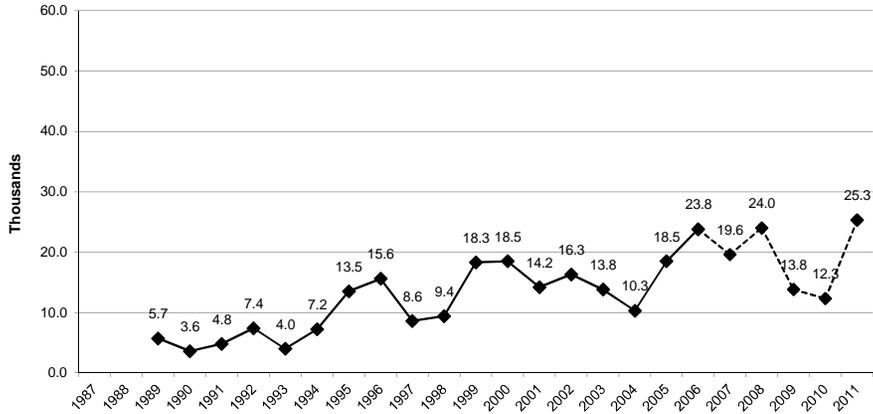
Note: Updated habitat and ownership database files, as well as, a state ownership category were implemented in the preparation of production estimates. Dashed lines represent updates from 2007 to current year.

**ASPEN PARKLAND PRAIRIE AREA
OF THE
ROSEAU
WETLAND MANAGEMENT DISTRICT**

[Click to return to Subsection Index](#)

NUMBER OF WET PONDS

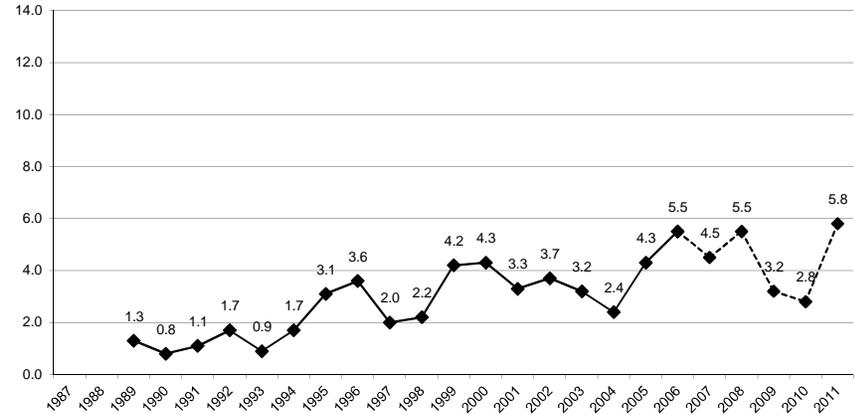
ASPEN PARKLAND PRAIRIE AREA (OF THE ROSEAU WMD)



DATA VALUES ARE FOR THE PRAIRIE POTHOLE REGION ONLY

PONDS / SQ MILE

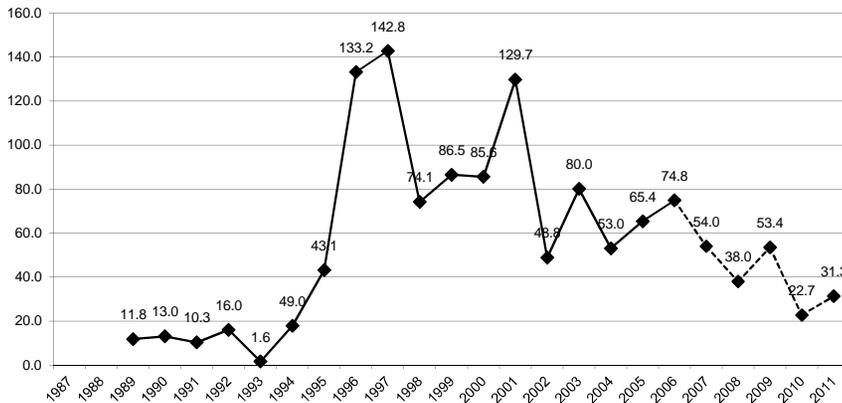
ASPEN PARKLAND PRAIRIE AREA (OF THE ROSEAU WMD)



DATA VALUES ARE FOR THE PRAIRIE POTHOLE REGION ONLY

WETLAND DENSITY*

ASPEN PARKLAND PRAIRIE AREA (OF THE ROSEAU WMD)

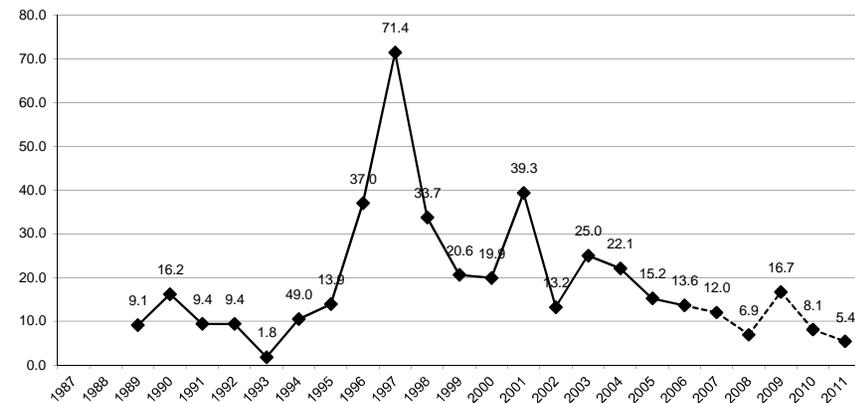


DATA VALUES ARE FOR THE PRAIRIE POTHOLE REGION ONLY

*WETLAND ACRES / SQ MILE

AVERAGE WETLAND SIZE*

ASPEN PARKLAND PRAIRIE AREA (OF THE ROSEAU WMD)



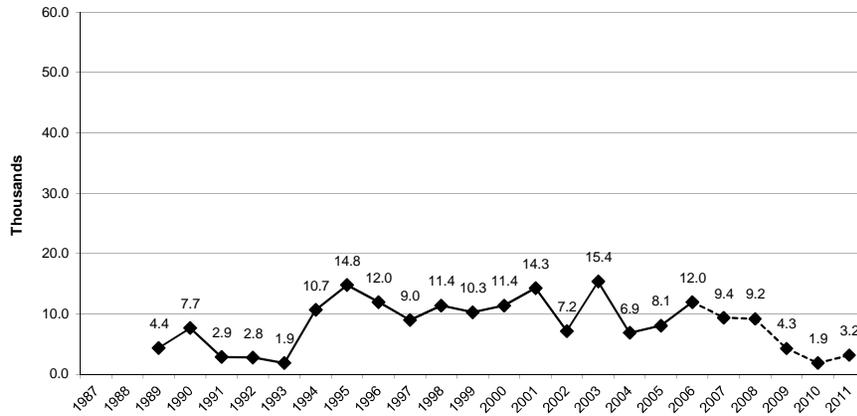
DATA VALUES ARE FOR THE PRAIRIE POTHOLE REGION ONLY

*ACRES

Note: Updated habitat and ownership database files, as well as, a state ownership category were implemented in the preparation of production estimates. Dashed lines represent updates from 2007 to current year.

MALLARD BREEDING PAIRS

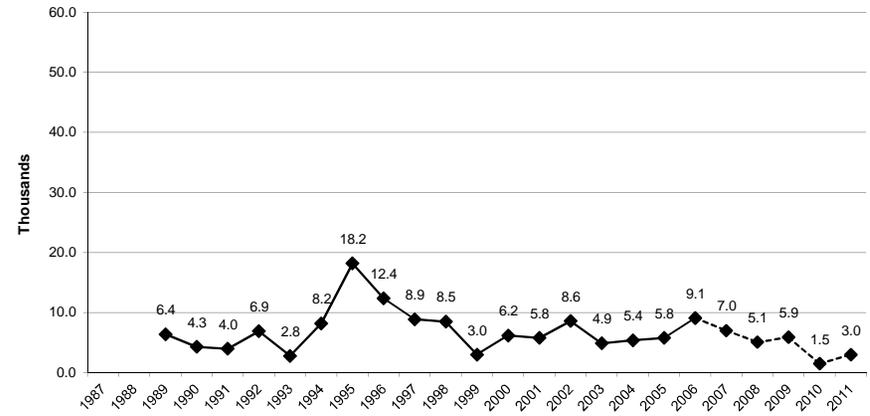
ASPEN PARKLAND PRAIRIE AREA (OF THE ROSEAU WMD)



DATA VALUES ARE FOR THE PRAIRIE POTHOLE REGION ONLY

BW TEAL BREEDING PAIRS

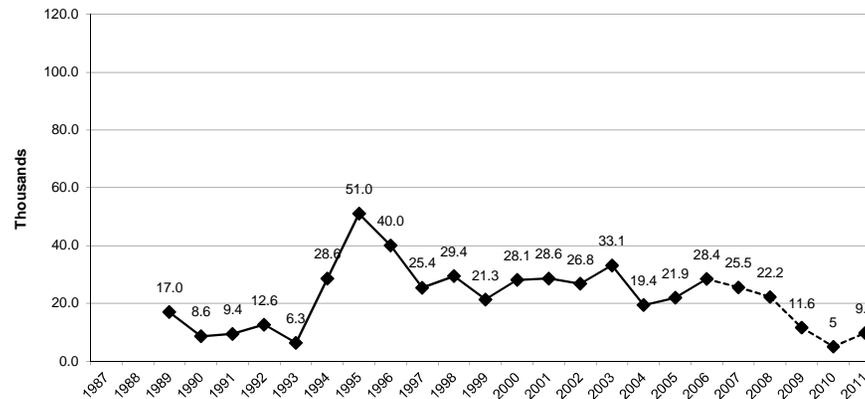
ASPEN PARKLAND PRAIRIE AREA (OF THE ROSEAU WMD)



DATA VALUES ARE FOR THE PRAIRIE POTHOLE REGION ONLY

BREEDING PAIRS ALL SPECIES*

ASPEN PARKLAND PRAIRIE AREA (OF THE ROSEAU WMD)



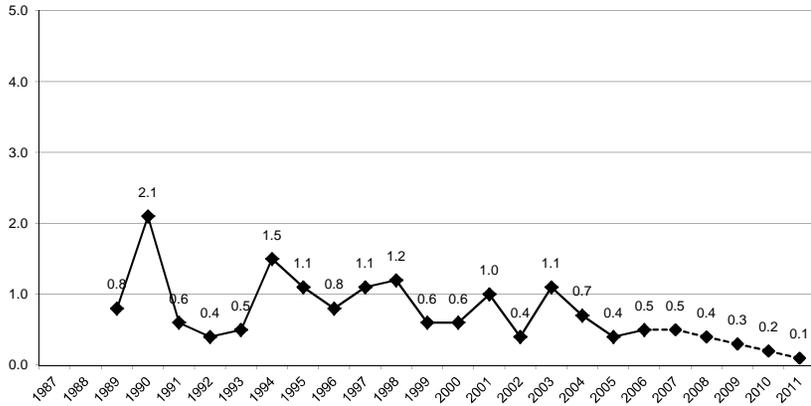
DATA VALUES ARE FOR THE PRAIRIE POTHOLE REGION ONLY

*DATA VALUES ARE FOR 13 SPECIES (MALLARD, GADWALL, BLUE-WINGED TEAL, SHOVELER, PINTAIL, WIGEON, GREEN-WINGED TEAL, WOODDUCK, REDHEAD, CANVASBACK, L. SCAUP, RINGNECK, RUDDY DUCK)

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MALLARD PAIRS / POND

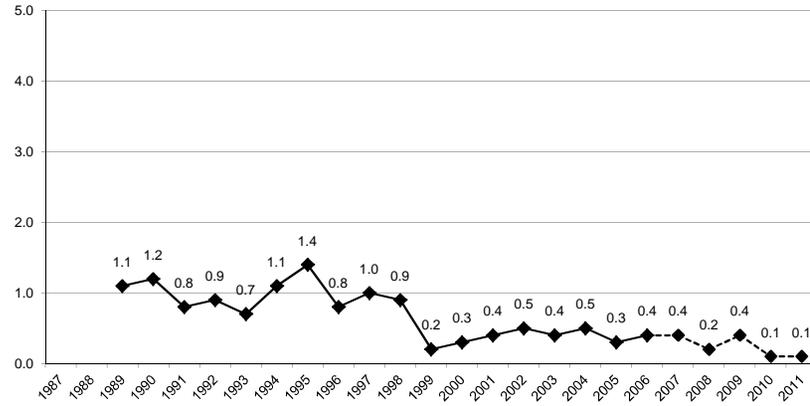
ASPEN PARKLAND PRAIRIE AREA (OF THE ROSEAU WMD)



DATA VALUES ARE FOR THE PRAIRIE POTHOLE REGION ONLY

BW TEAL PAIRS / POND

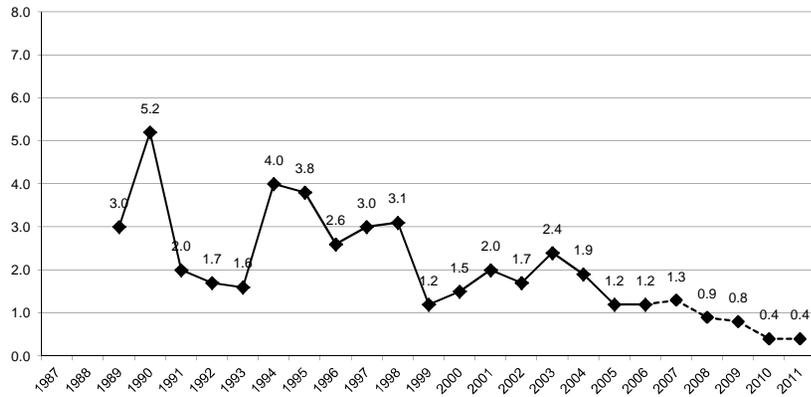
ASPEN PARKLAND PRAIRIE AREA (OF THE ROSEAU WMD)



DATA VALUES ARE FOR THE PRAIRIE POTHOLE REGION ONLY

PAIRS / POND ALL SPECIES*

ASPEN PARKLAND PRAIRIE AREA (OF THE ROSEAU WMD)



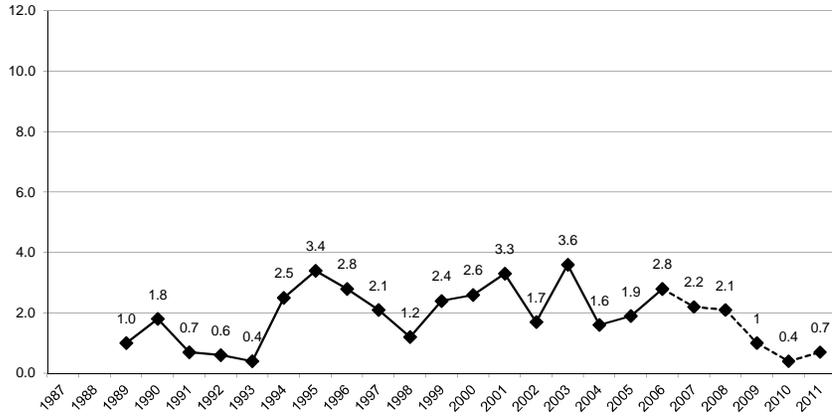
DATA VALUES ARE FOR THE PRAIRIE POTHOLE REGION ONLY

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MALLARD PAIRS / SQ MILE

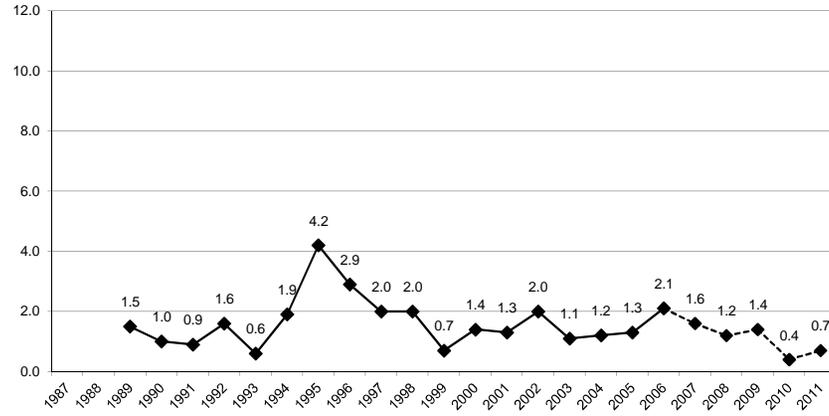
ASPEN PARKLAND PRAIRIE AREA (OF THE ROSEAU WMD)



DATA VALUES ARE FOR THE PRAIRIE POTHOLE REGION ONLY

BW TEAL PAIRS / SQ MILE

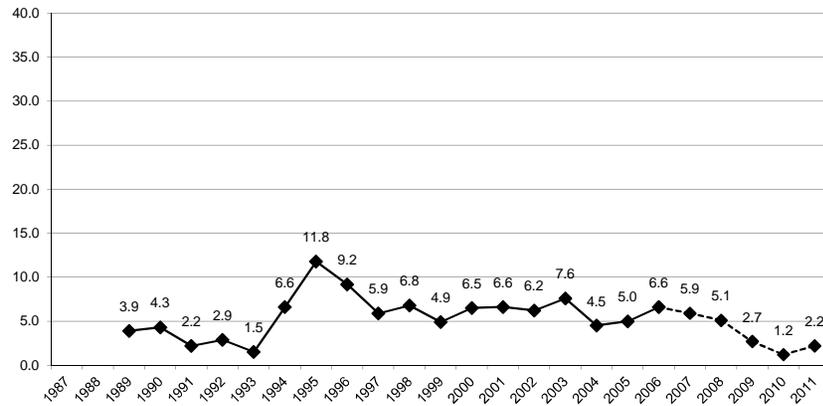
ASPEN PARKLAND PRAIRIE AREA (OF THE ROSEAU WMD)



DATA VALUES ARE FOR THE PRAIRIE POTHOLE REGION ONLY

PAIRS / SQ MILE ALL SPECIES*

ASPEN PARKLAND PRAIRIE AREA (OF THE ROSEAU WMD)



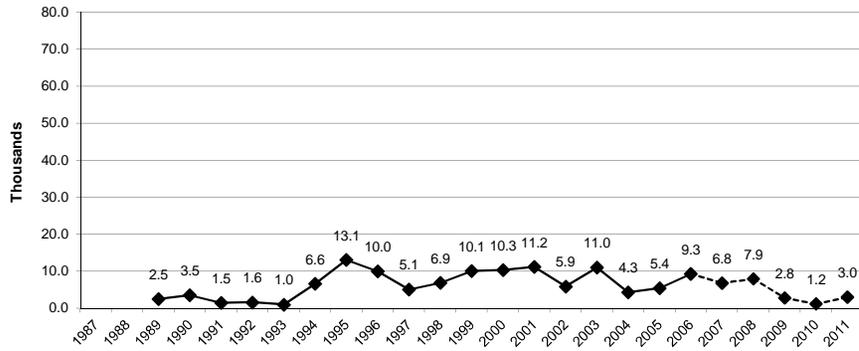
DATA VALUES ARE FOR THE PRAIRIE POTHOLE REGION ONLY

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NUMBER OF MALLARD RECRUITS PRODUCED

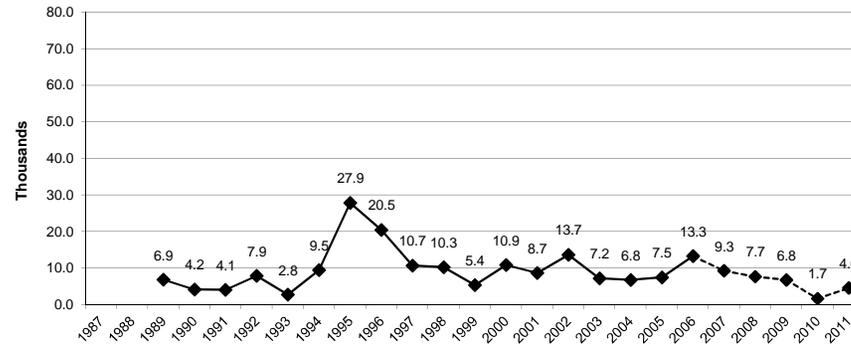
ASPEN PARKLAND PRAIRIE AREA (OF THE ROSEAU WMD)



DATA VALUES ARE FOR THE PRAIRIE POTHOLE REGION ONLY

NUMBER OF BW TEAL RECRUITS PRODUCED

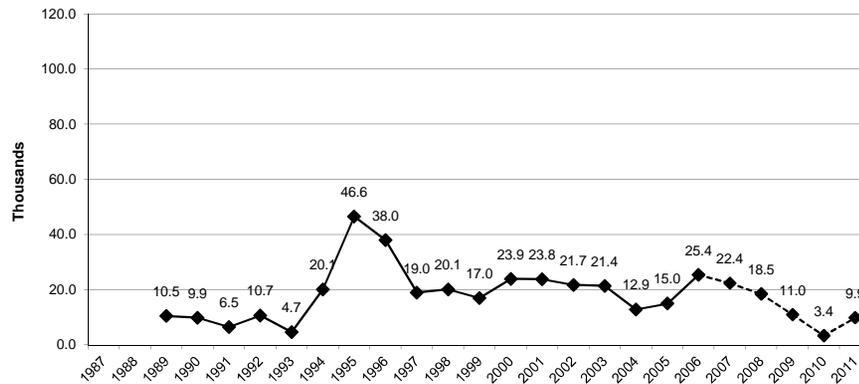
ASPEN PARKLAND PRAIRIE AREA (OF THE ROSEAU WMD)



DATA VALUES ARE FOR THE PRAIRIE POTHOLE REGION ONLY

NUMBER OF RECRUITS PRODUCED*

ASPEN PARKLAND PRAIRIE AREA (OF THE ROSEAU WMD)



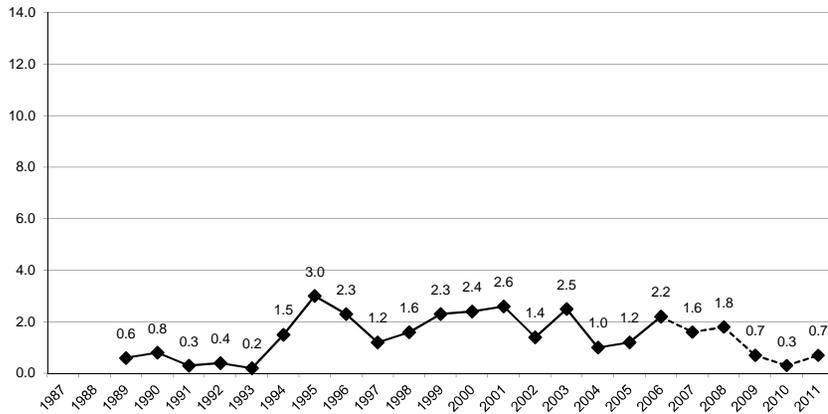
DATA VALUES ARE FOR THE PRAIRIE POTHOLE REGION ONLY

*DATA VALUES ARE FOR 5 SPECIES (MALLARD, GADWALL, BLUE-WINGED TEAL, SHOVELER, AND PINTAIL)

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MALLARD RECRUITS / SQ MILE

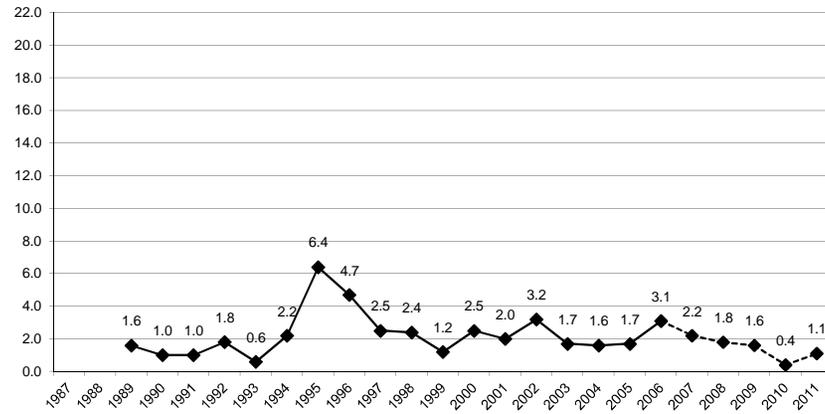
ASPEN PARKLAND PRAIRIE AREA (OF THE ROSEAU WMD)



DATA VALUES ARE FOR THE PRAIRIE POTHOLE REGION ONLY

BW TEAL RECRUITS / SQ MILE

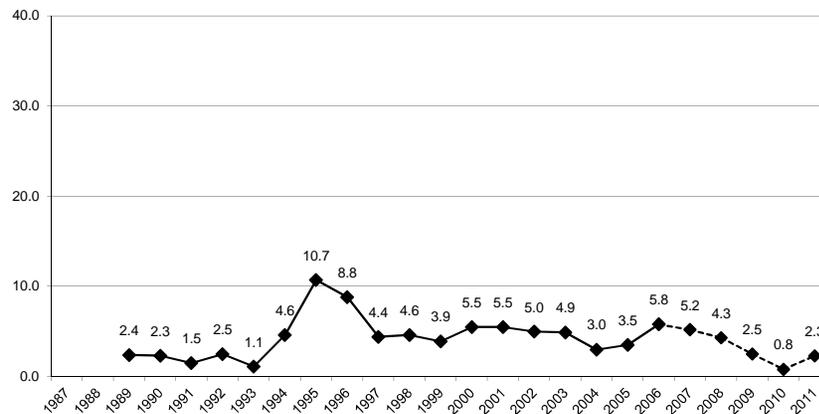
ASPEN PARKLAND PRAIRIE AREA (OF THE ROSEAU WMD)



DATA VALUES ARE FOR THE PRAIRIE POTHOLE REGION ONLY

RECRUITS / SQ MILE ALL SPECIES*

ASPEN PARKLAND PRAIRIE AREA (OF THE ROSEAU WMD)



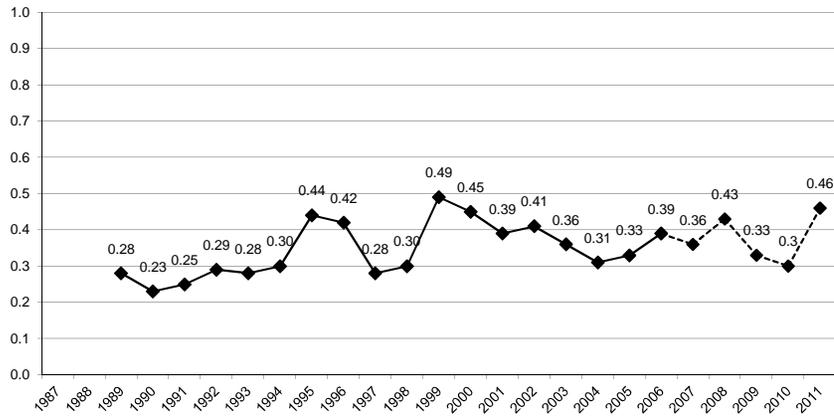
DATA VALUES ARE FOR THE PRAIRIE POTHOLE REGION ONLY

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Note: Updated habitat and ownership database files, as well as, a state ownership category were implemented in the preparation of production estimates. Dashed lines represent updates from 2007 to current year.

MALLARD RECRUITMENT RATE*

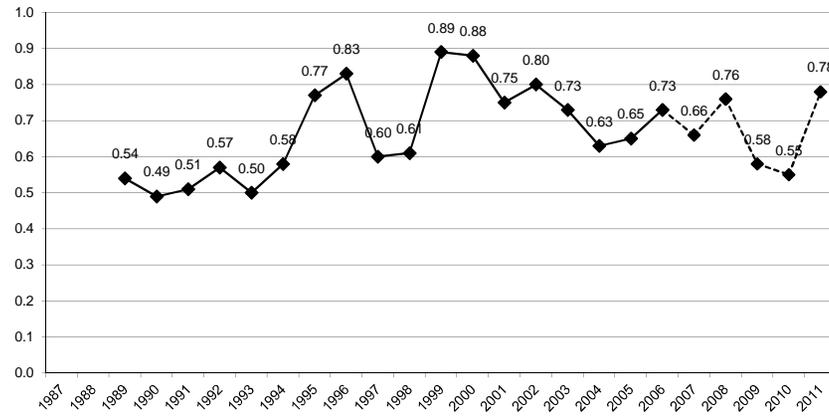
ASPEN PARKLAND PRAIRIE AREA (OF THE ROSEAU WMD)



DATA VALUES ARE FOR THE PRAIRIE POTHOLE REGION ONLY
 *It is estimated that a .49 Recruitment Rate is required for a stable mallard population

BW TEAL RECRUITMENT RATE

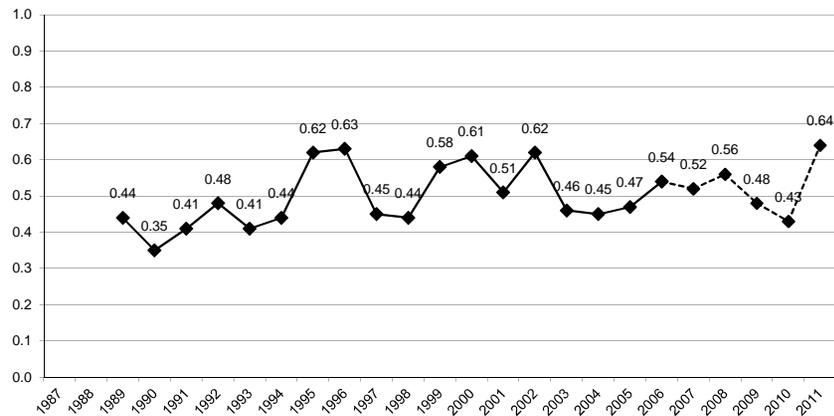
ASPEN PARKLAND PRAIRIE AREA (OF THE ROSEAU WMD)



DATA VALUES ARE FOR THE PRAIRIE POTHOLE REGION ONLY

RECRUITMENT RATE*

ASPEN PARKLAND PRAIRIE AREA (OF THE ROSEAU WMD)

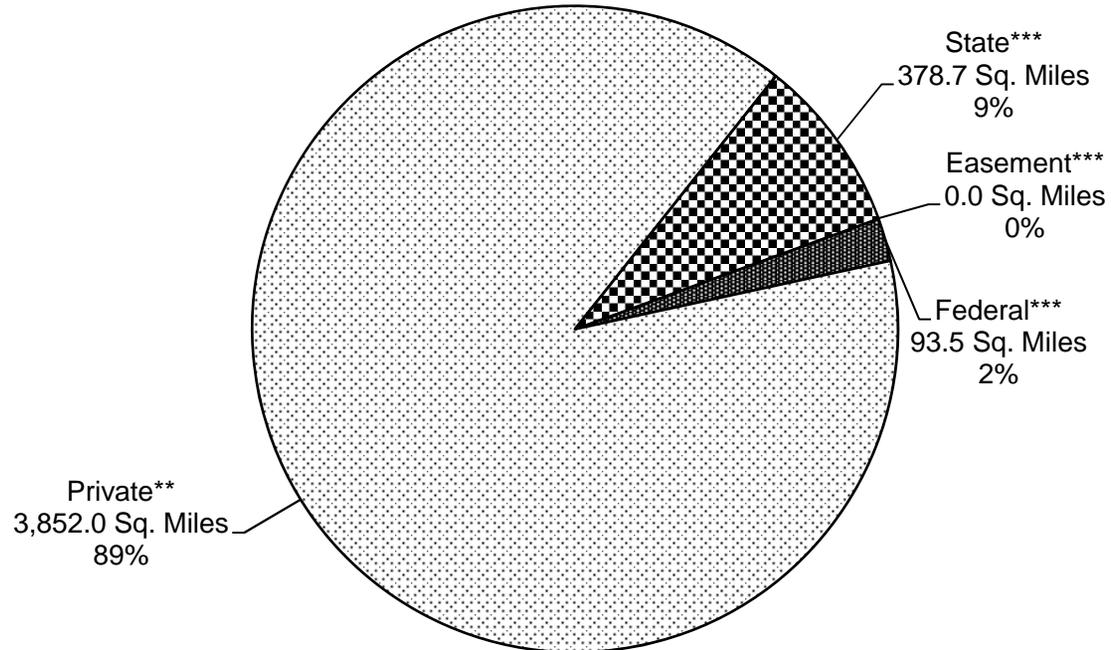


DATA VALUES ARE FOR THE PRAIRIE POTHOLE REGION ONLY
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Note: Updated habitat and ownership database files, as well as, a state ownership category were implemented in the preparation of production estimates. Dashed lines represent updates from 2007 to current year.

OWNERSHIP COMPOSITION*

ASPEN PARKLAND PRAIRIE AREA (OF THE ROSEAU WMD)



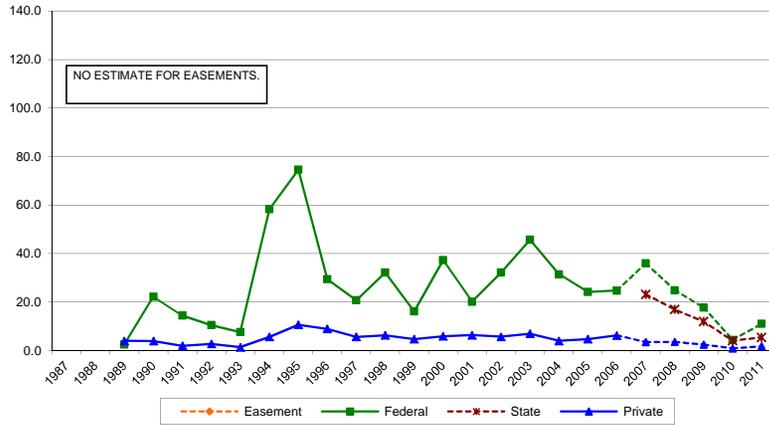
*DATA PRESENTED ARE FROM REPRESENTATIVE 4 SQ. MILE PLOTS IN THE PRAIRIE POTHOLE REGION ONLY.

**PRIVATE OWNERSHIP CATEGORY ALSO INCLUDES OTHER NGO CONSERVATION OWNERSHIPS.

***EASEMENT, FEDERAL AND STATE CATEGORIES ARE BASED ON SAMPLE PLOTS WHERE A MINIMUM OF 160 ACRES ARE IN FEDERAL OR STATE OWNERSHIP.

Note: Updated habitat and ownership database files, as well as, a state ownership category were implemented in the preparation of production estimates. Dashed lines represent updates from 2007 to current year.

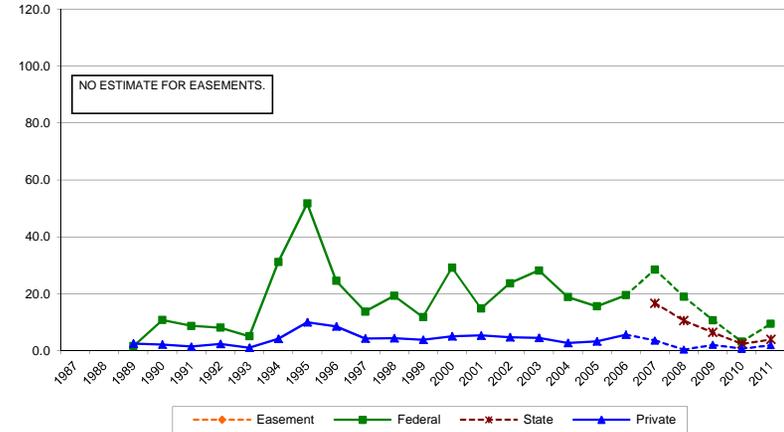
ESTIMATED PAIRS / SQ. MILE BY OWNERSHIP
13 SPECIES*
ASPEN PARKLAND PRAIRIE AREA (OF THE ROSEAU WMD)



DATA VALUES ARE FOR THE PRAIRIE POT HOLE REGION ONLY

*DATA VALUES ARE FOR 13 SPECIES (MALLARD, GADWALL, BLUE-WINGED TEAL, SHOVELER, PINTAIL, WIGEON, GREEN-WINGED TEAL, WOODDUCK, REDHEAD, CANVASBACK, L. SCAUP, RINGNECK, RUDDY DUCK)

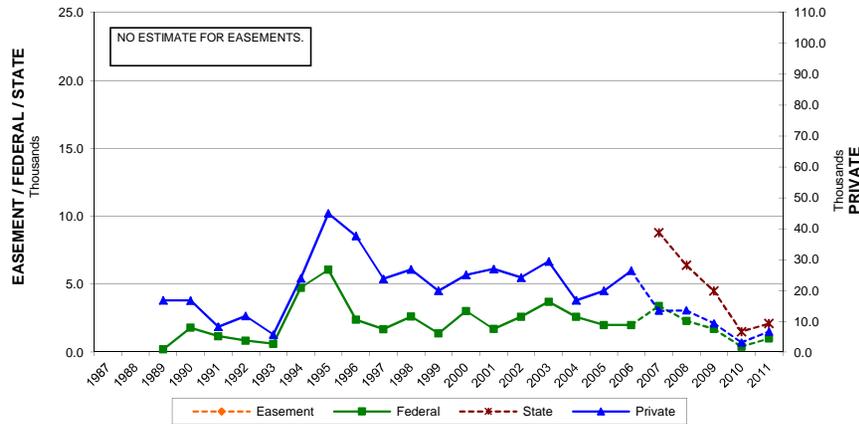
ESTIMATED RECRUITS / SQ. MILE BY OWNERSHIP
5 SPECIES*
ASPEN PARKLAND PRAIRIE AREA (OF THE ROSEAU WMD)



DATA VALUES ARE FOR THE PRAIRIE POT HOLE REGION ONLY

*DATA VALUES ARE FOR 5 SPECIES (MALLARD, GADWALL, BLUE-WINGED TEAL, SHOVELER, AND PINTAIL)

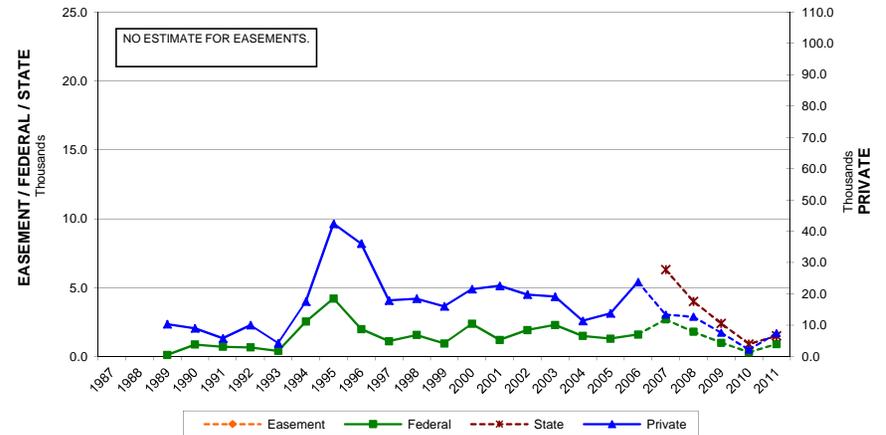
ESTIMATED PAIRS BY OWNERSHIP
13 SPECIES*
ASPEN PARKLAND PRAIRIE AREA (OF THE ROSEAU WMD)



DATA VALUES ARE FOR THE PRAIRIE POT HOLE REGION ONLY

*DATA VALUES ARE FOR 13 SPECIES (MALLARD, GADWALL, BLUE-WINGED TEAL, SHOVELER, PINTAIL, WIGEON, GREEN-WINGED TEAL, WOODDUCK, REDHEAD, CANVASBACK, L. SCAUP, RINGNECK, RUDDY DUCK)

ESTIMATED RECRUITS BY OWNERSHIP
5 SPECIES*
ASPEN PARKLAND PRAIRIE AREA (OF THE ROSEAU WMD)



DATA VALUES ARE FOR THE PRAIRIE POT HOLE REGION ONLY

*DATA VALUES ARE FOR 5 SPECIES (MALLARD, GADWALL, BLUE-WINGED TEAL, SHOVELER, AND PINTAIL)

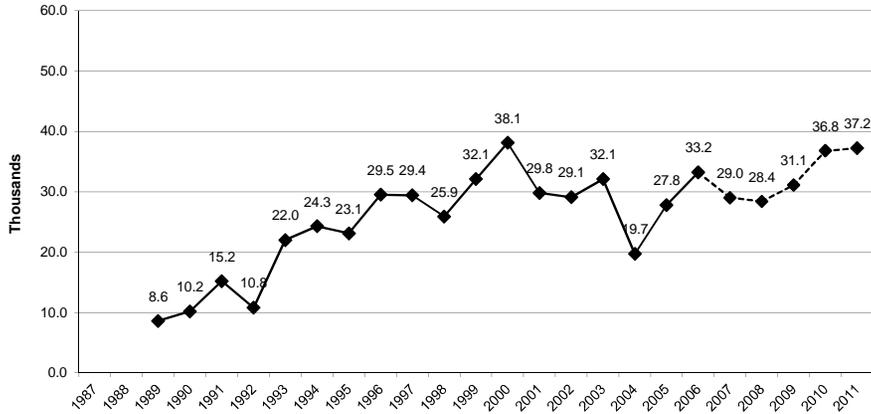
Note: Updated habitat and ownership database files, as well as, a state ownership category were implemented in the preparation of production estimates. Dashed lines represent updates from 2007 to current year.

**GREAT DIVIDE PRAIRIE AREA
OF THE
WINDOM
WETLAND MANAGEMENT DISTRICT**

[Click to return to Subsection Index](#)

NUMBER OF WET PONDS

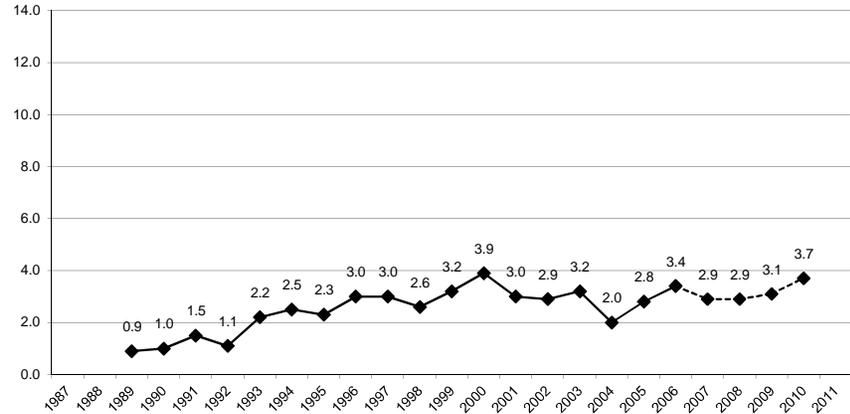
GREAT DIVIDE PRAIRIE AREA (OF THE WINDOM WMD)



DATA VALUES ARE FOR THE PRAIRIE POTHOLE REGION ONLY

PONDS / SQ MILE

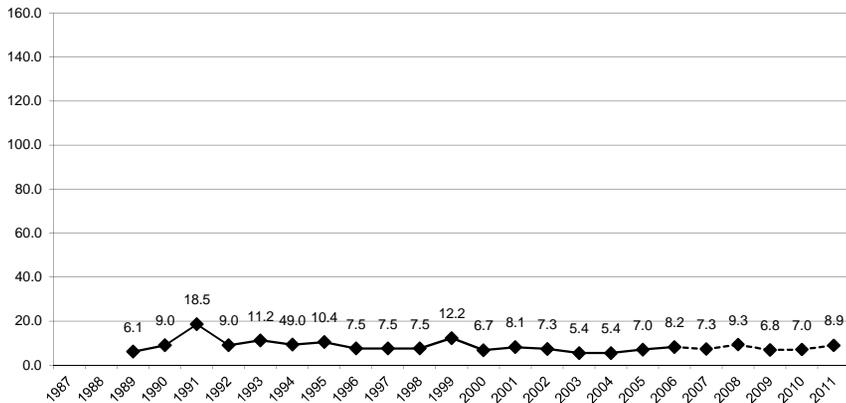
GREAT DIVIDE PRAIRIE AREA (OF THE WINDOM WMD)



DATA VALUES ARE FOR THE PRAIRIE POTHOLE REGION ONLY

WETLAND DENSITY*

GREAT DIVIDE PRAIRIE AREA (OF THE WINDOM WMD)

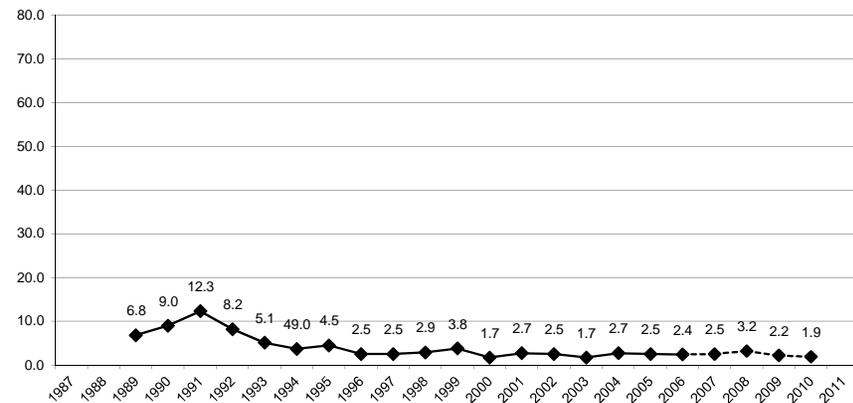


DATA VALUES ARE FOR THE PRAIRIE POTHOLE REGION ONLY

*WETLAND ACRES / SQ MILE

AVERAGE WETLAND SIZE*

GREAT DIVIDE PRAIRIE AREA (OF THE WINDOM WMD)



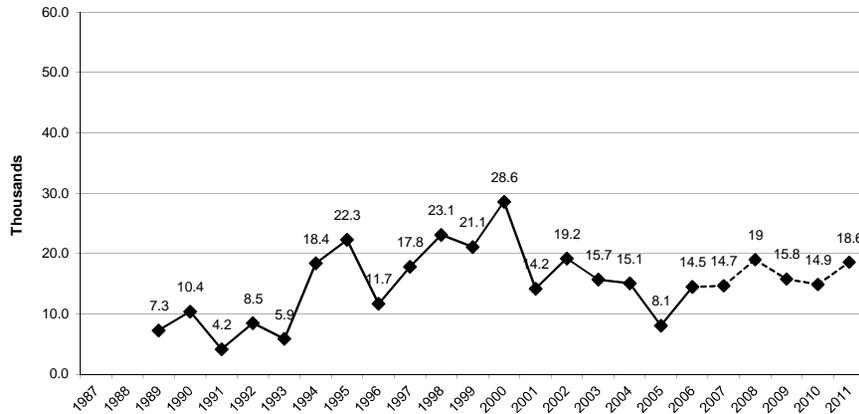
DATA VALUES ARE FOR THE PRAIRIE POTHOLE REGION ONLY

*ACRES

Note: Updated habitat and ownership database files, as well as, a state ownership category were implemented in the preparation of production estimates. Dashed lines represent updates from 2007 to current year.

MALLARD BREEDING PAIRS

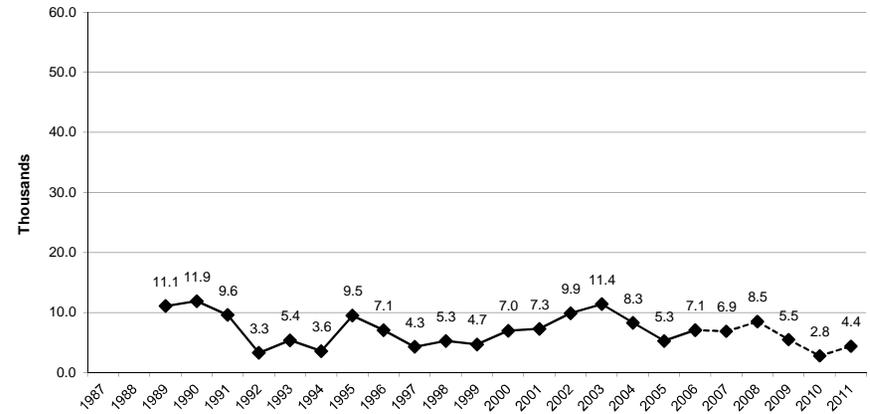
GREAT DIVIDE PRAIRIE AREA (OF THE WINDOM WMD)



DATA VALUES ARE FOR THE PRAIRIE POTHOLE REGION ONLY

BW TEAL BREEDING PAIRS

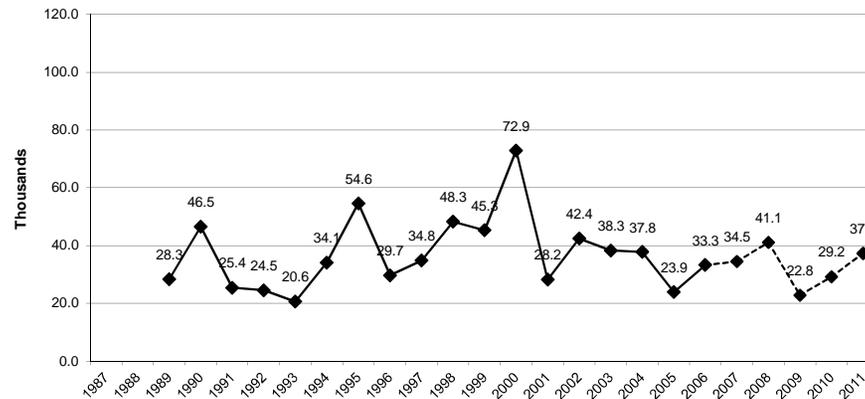
GREAT DIVIDE PRAIRIE AREA (OF THE WINDOM WMD)



DATA VALUES ARE FOR THE PRAIRIE POTHOLE REGION ONLY

BREEDING PAIRS ALL SPECIES*

GREAT DIVIDE PRAIRIE AREA (OF THE WINDOM WMD)



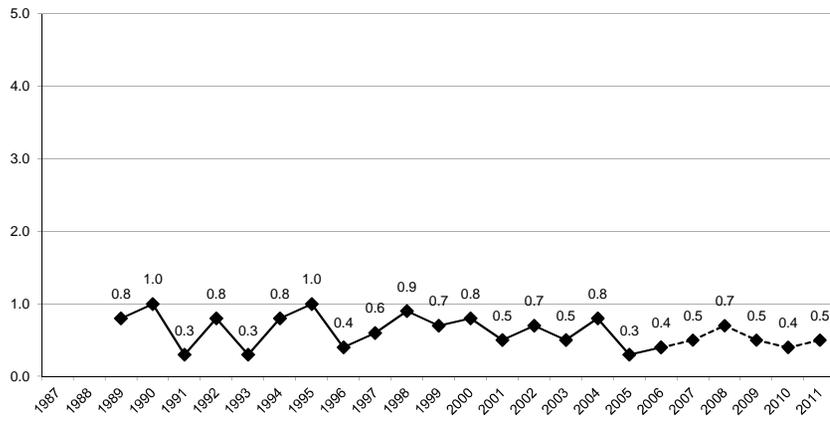
DATA VALUES ARE FOR THE PRAIRIE POTHOLE REGION ONLY

*DATA VALUES ARE FOR 13 SPECIES (MALLARD, GADWALL, BLUE-WINGED TEAL, SHOVELER, PINTAIL, WIGEON, GREEN-WINGED TEAL, WOODDUCK, REDHEAD, CANVASBACK, L. SCAUP, RINGNECK, RUDDY DUCK)

Note: Updated habitat and ownership database files, as well as, a state ownership category were implemented in the preparation of production estimates. Dashed lines represent updates from 2007 to current year.

MALLARD PAIRS / POND

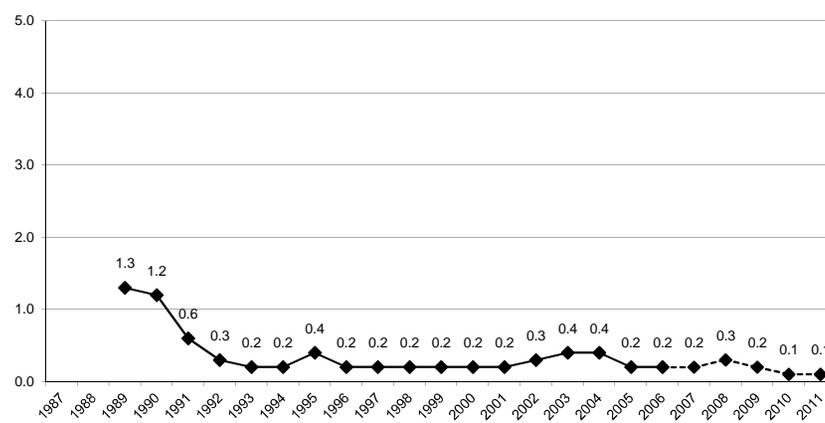
GREAT DIVIDE PRAIRIE AREA (OF THE WINDOM WMD)



DATA VALUES ARE FOR THE PRAIRIE POTHOLE REGION ONLY

BW TEAL PAIRS / POND

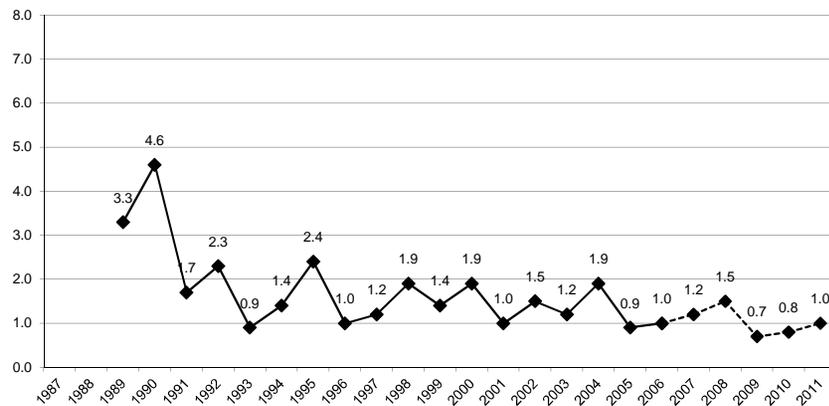
GREAT DIVIDE PRAIRIE AREA (OF THE WINDOM WMD)



DATA VALUES ARE FOR THE PRAIRIE POTHOLE REGION ONLY

PAIRS / POND ALL SPECIES*

GREAT DIVIDE PRAIRIE AREA (OF THE WINDOM WMD)



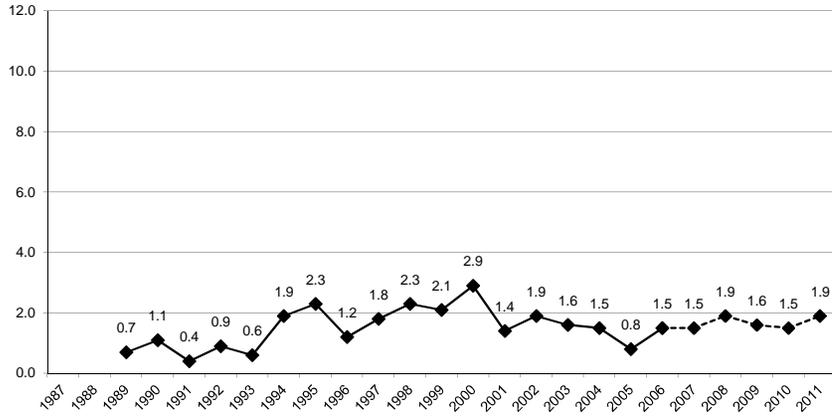
DATA VALUES ARE FOR THE PRAIRIE POTHOLE REGION ONLY

*DATA VALUES ARE FOR 13 SPECIES (MALLARD, GADWALL, BLUE-WINGED TEAL, SHOVELER, PINTAIL, WIGEON, GREEN-WINGED TEAL, WOODDUCK, REDHEAD, CANVASBACK, L. SCAUP, RINGNECK, RUDDY DUCK)

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MALLARD PAIRS / SQ MILE

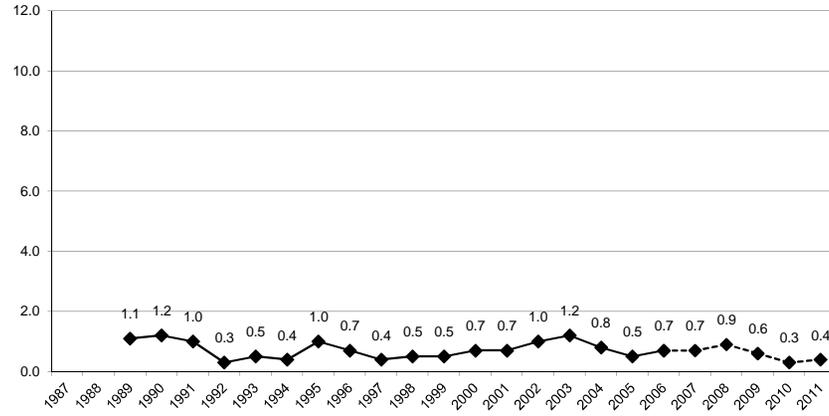
GREAT DIVIDE PRAIRIE AREA (OF THE WINDOM WMD)



DATA VALUES ARE FOR THE PRAIRIE POTHOLE REGION ONLY

BW TEAL PAIRS / SQ MILE

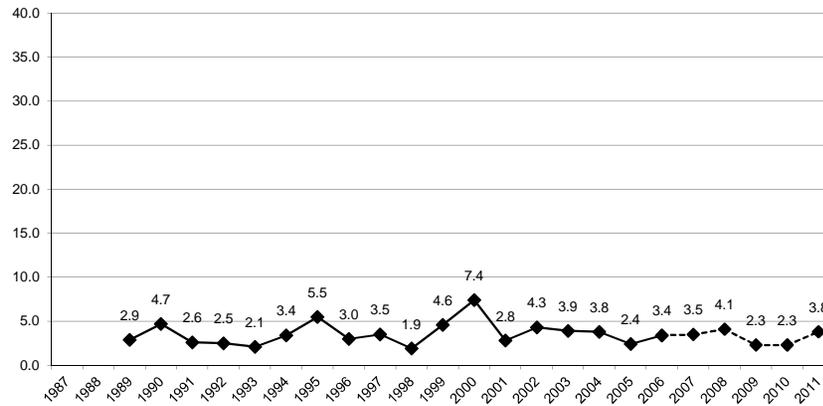
GREAT DIVIDE PRAIRIE AREA (OF THE WINDOM WMD)



DATA VALUES ARE FOR THE PRAIRIE POTHOLE REGION ONLY

PAIRS / SQ MILE ALL SPECIES*

GREAT DIVIDE PRAIRIE AREA (OF THE WINDOM WMD)



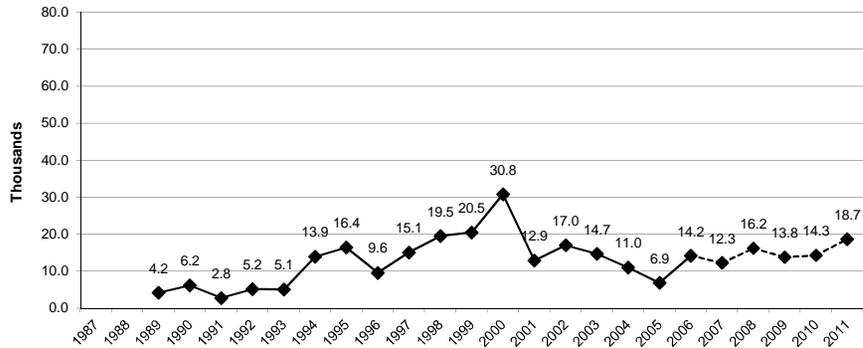
DATA VALUES ARE FOR THE PRAIRIE POTHOLE REGION ONLY

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NUMBER OF MALLARD RECRUITS PRODUCED

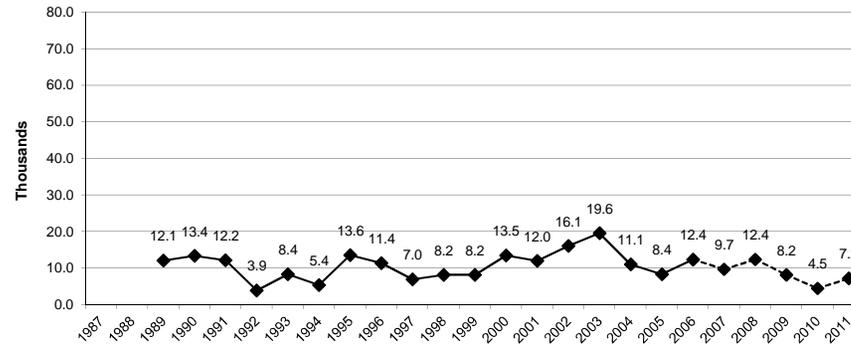
GREAT DIVIDE PRAIRIE AREA (OF THE WNDOM WMD)



DATA VALUES ARE FOR THE PRAIRIE POTHOLE REGION ONLY

NUMBER OF BW TEAL RECRUITS PRODUCED

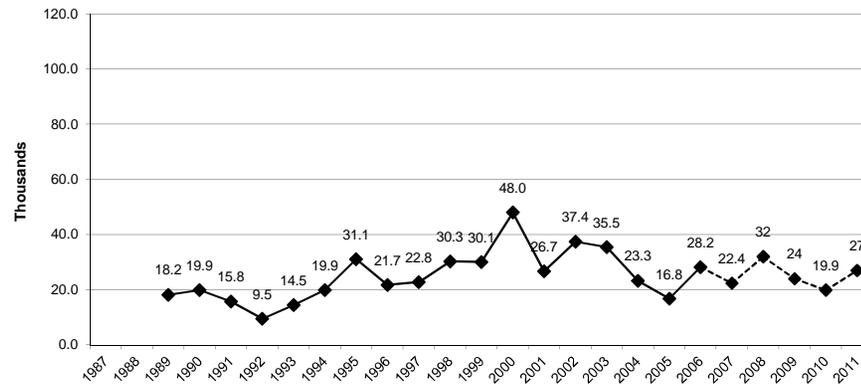
GREAT DIVIDE PRAIRIE AREA (OF THE WNDOM WMD)



DATA VALUES ARE FOR THE PRAIRIE POTHOLE REGION ONLY

NUMBER OF RECRUITS PRODUCED*

GREAT DIVIDE PRAIRIE AREA (OF THE WNDOM WMD)



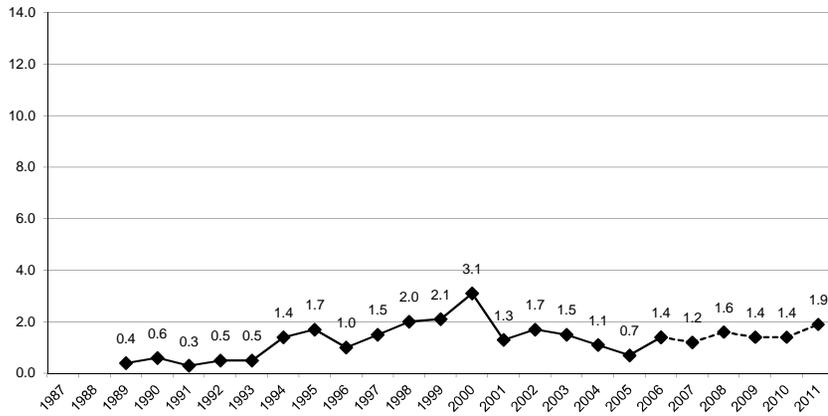
DATA VALUES ARE FOR THE PRAIRIE POTHOLE REGION ONLY

*DATA VALUES ARE FOR 5 SPECIES (MALLARD, GADWALL, BLUE-WINGED TEAL, SHOVELER, AND PINTAIL)

Note: Updated habitat and ownership database files, as well as, a state ownership category were implemented in the preparation of production estimates. Dashed lines represent updates from 2007 to current year.

MALLARD RECRUITS / SQ MILE

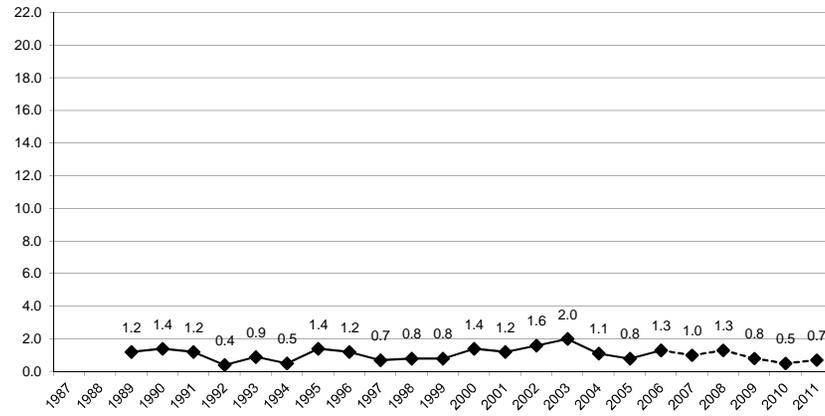
GREAT DIVIDE PRAIRIE AREA (OF THE WINDOM WMD)



DATA VALUES ARE FOR THE PRAIRIE POTHOLE REGION ONLY

BW TEAL RECRUITS / SQ MILE

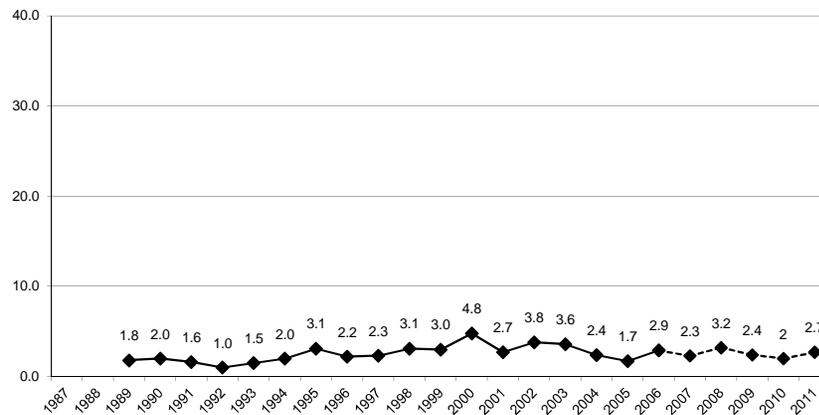
GREAT DIVIDE PRAIRIE AREA (OF THE WINDOM WMD)



DATA VALUES ARE FOR THE PRAIRIE POTHOLE REGION ONLY

RECRUITS / SQ MILE ALL SPECIES*

GREAT DIVIDE PRAIRIE AREA (OF THE WINDOM WMD)



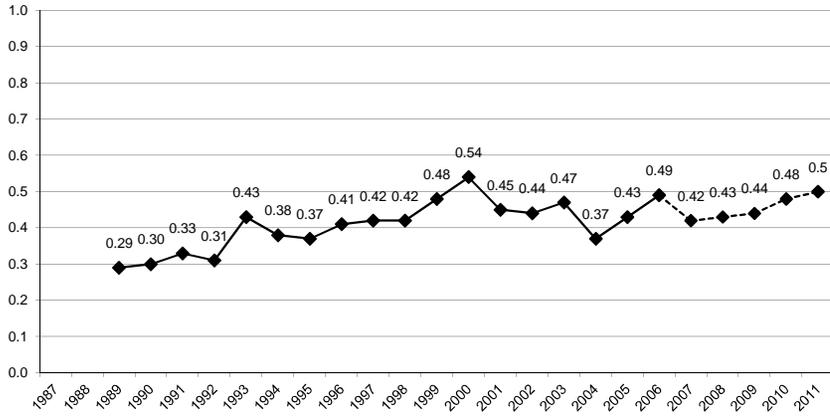
DATA VALUES ARE FOR THE PRAIRIE POTHOLE REGION ONLY

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Note: Updated habitat and ownership database files, as well as, a state ownership category were implemented in the preparation of production estimates. Dashed lines represent updates from 2007 to current year.

MALLARD RECRUITMENT RATE*

GREAT DIVIDE PRAIRIE AREA (OF THE WINDOM WMD)

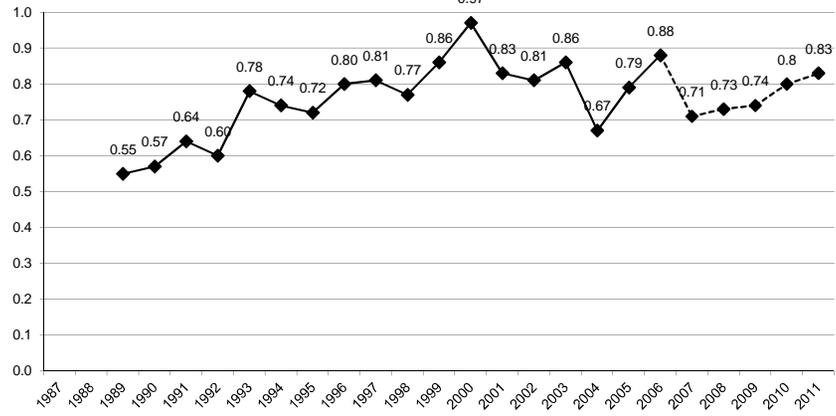


DATA VALUES ARE FOR THE PRAIRIE POTHOLE REGION ONLY

*It is estimated that a .49 Recruitment Rate is required for a stable mallard population

BW TEAL RECRUITMENT RATE

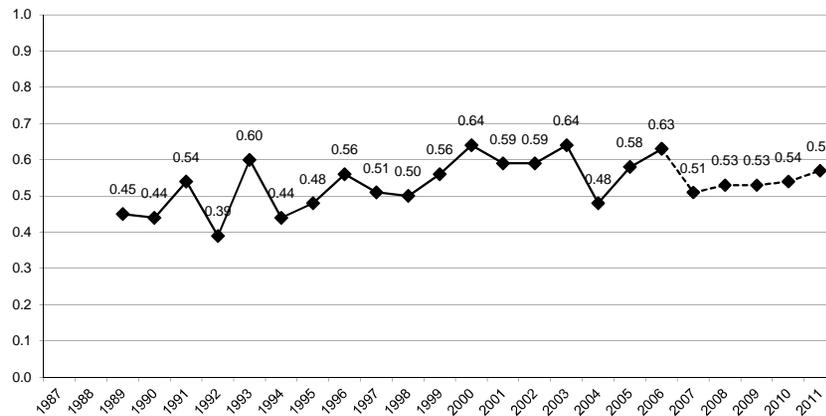
GREAT DIVIDE PRAIRIE AREA (OF THE WINDOM WMD)



DATA VALUES ARE FOR THE PRAIRIE POTHOLE REGION ONLY

RECRUITMENT RATE*

GREAT DIVIDE PRAIRIE AREA (OF THE WINDOM WMD)



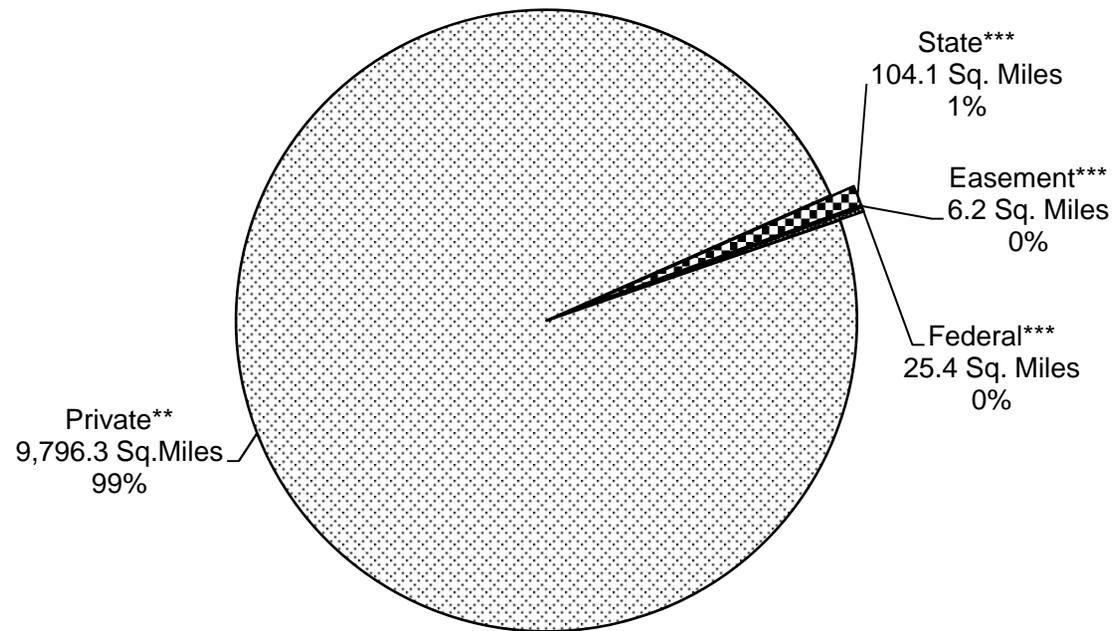
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OWNERSHIP COMPOSITION*

GREAT DIVIDE PRAIRIE AREA (OF THE WINDOM WMD)



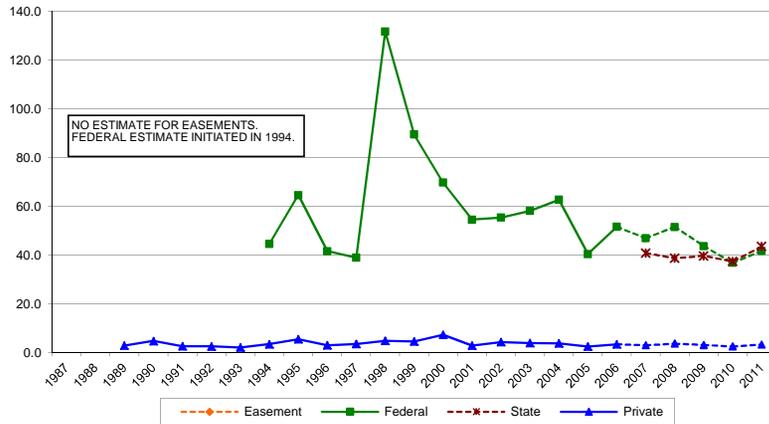
*DATA PRESENTED ARE FROM REPRESENTATIVE 4 SQ. MILE PLOTS IN THE PRAIRIE POTHOLE REGION ONLY.

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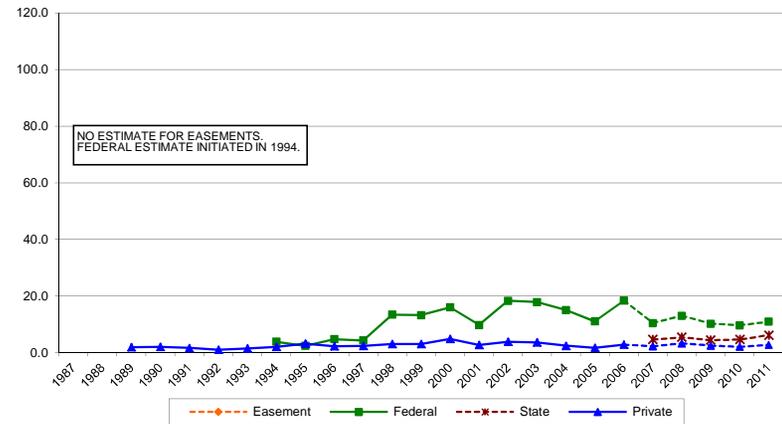
ESTIMATED PAIRS / SQ. MILE BY OWNERSHIP 13 SPECIES* GREAT DIVIDE PRAIRIE AREA (OF THE WINDOM WMD)



DATA VALUES ARE FOR THE PRAIRIE POTHOLE REGION ONLY

*DATA VALUES ARE FOR 13 SPECIES (MALLARD, GADWALL, BLUE-WINGED TEAL, SHOVELER, PINTAIL, WIGEON, GREEN-WINGED TEAL, WOODDUCK, REDHEAD, CANVASBACK, L. SCAUP, RINGNECK, RUDDY DUCK)

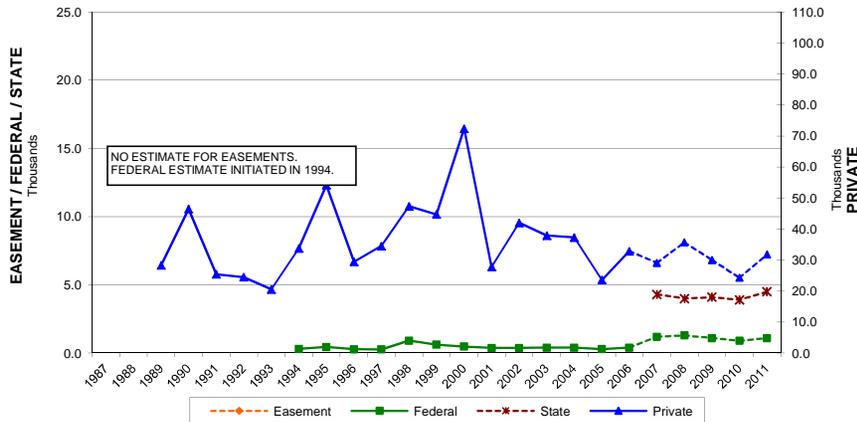
ESTIMATED RECRUITS / SQ. MILE BY OWNERSHIP 5 SPECIES* GREAT DIVIDE PRAIRIE AREA (OF THE WINDOM WMD)



DATA VALUES ARE FOR THE PRAIRIE POTHOLE REGION ONLY

*DATA VALUES ARE FOR 5 SPECIES (MALLARD, GADWALL, BLUE-WINGED TEAL, SHOVELER, AND PINTAIL)

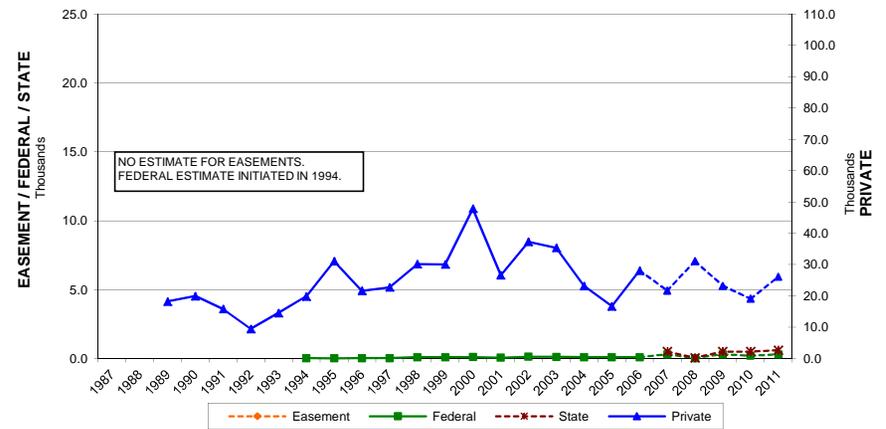
ESTIMATED PAIRS BY OWNERSHIP 13 SPECIES* GREAT DIVIDE PRAIRIE AREA (OF THE WINDOM WMD)



DATA VALUES ARE FOR THE PRAIRIE POTHOLE REGION ONLY

*DATA VALUES ARE FOR 13 SPECIES (MALLARD, GADWALL, BLUE-WINGED TEAL, SHOVELER, PINTAIL, WIGEON, GREEN-WINGED TEAL, WOODDUCK, REDHEAD, CANVASBACK, L. SCAUP, RINGNECK, RUDDY DUCK)

ESTIMATED RECRUITS BY OWNERSHIP 5 SPECIES* GREAT DIVIDE PRAIRIE AREA (OF THE WINDOM WMD)



DATA VALUES ARE FOR THE PRAIRIE POTHOLE REGION ONLY

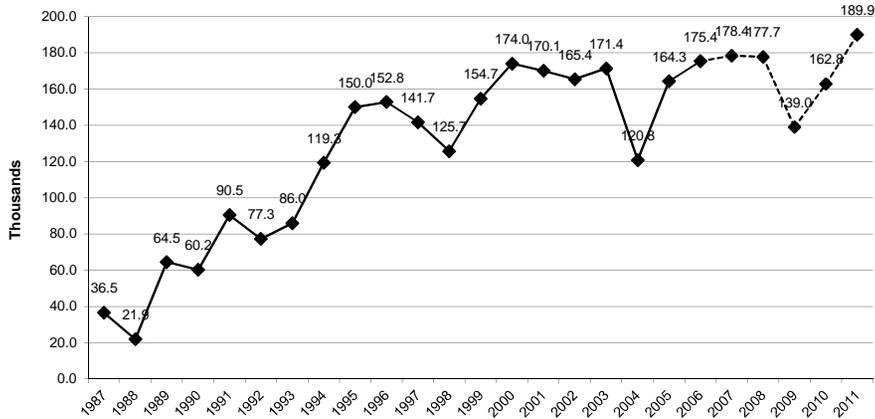
*DATA VALUES ARE FOR 5 SPECIES (MALLARD, GADWALL, BLUE-WINGED TEAL, SHOVELER, AND PINTAIL)

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MINNESOTA PRAIRIE POTHOLE REGION

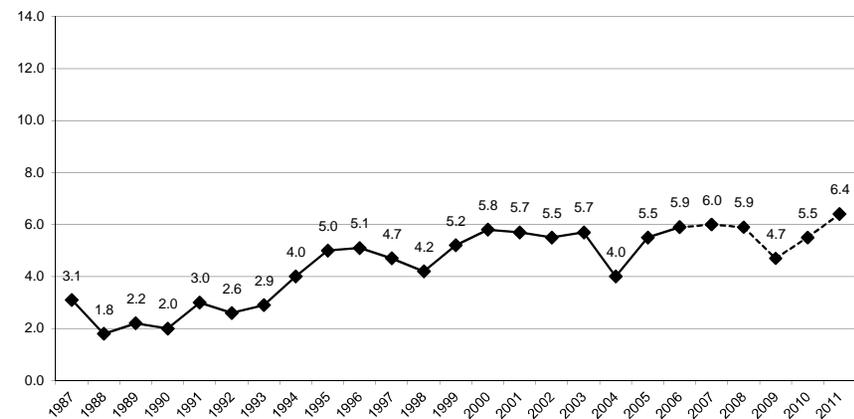
[Click to return to Subsection Index](#)

NUMBER OF WET PONDS MINNESOTA PRAIRIE POTHOLE REGION



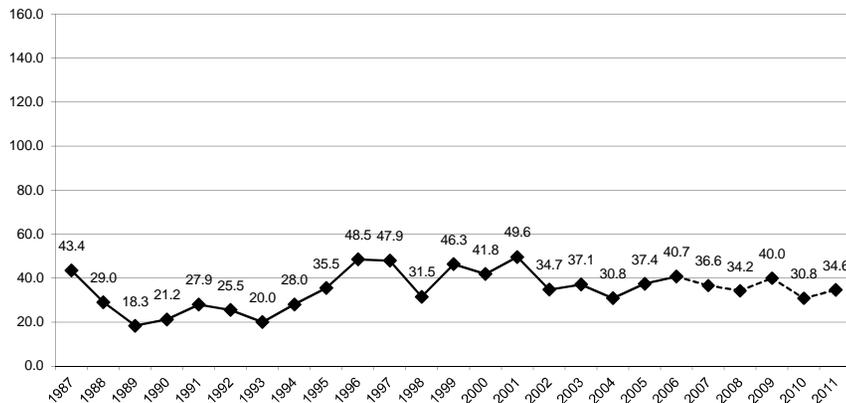
DATA VALUES ARE FOR THE PPR ONLY. 1987 and 1988 data are for Agassiz Ridge, Border Prairie, and MN River Headwaters Prairie Area's.

PONDS / SQ MILE MINNESOTA PRAIRIE POTHOLE REGION



DATA VALUES ARE FOR THE PPR ONLY. 1987 and 1988 data are for Agassiz Ridge, Border Prairie, and MN River Headwaters Prairie Area's.

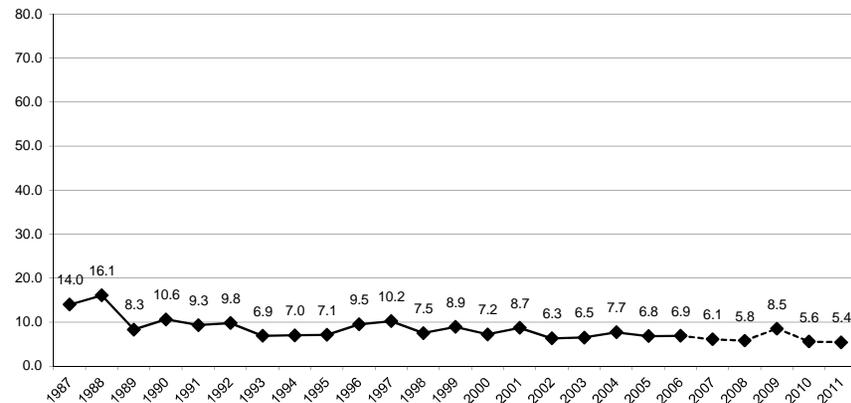
WETLAND DENSITY* MINNESOTA PRAIRIE POTHOLE REGION



DATA VALUES ARE FOR THE PPR ONLY. 1987 and 1988 data are for Agassiz Ridge, Border Prairie, and MN River Headwaters Prairie Area's.

*WETLAND ACRES / SQ MILE

AVERAGE WETLAND SIZE* MINNESOTA PRAIRIE POTHOLE REGION

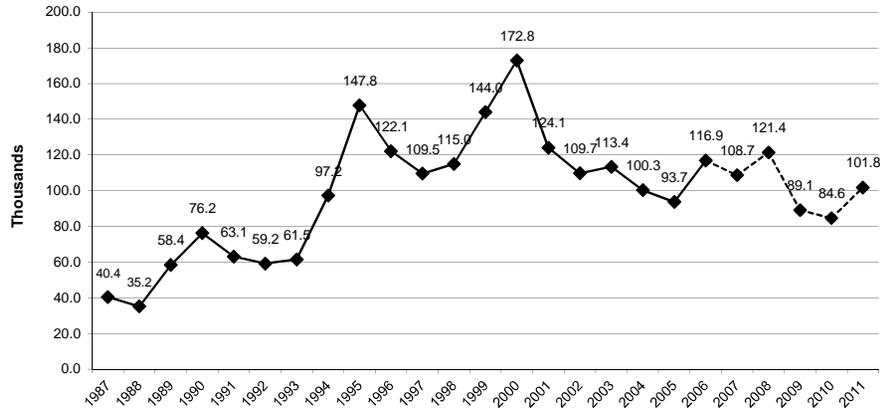


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*ACRES

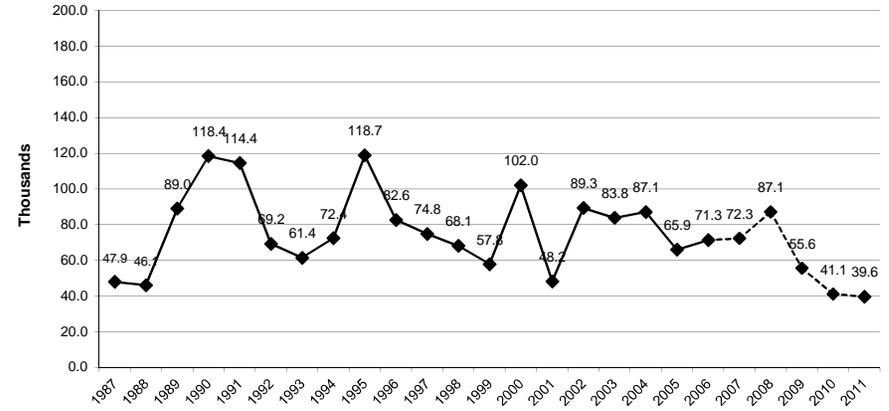
Note: Updated habitat and ownership database files, as well as, a state ownership category were implemented in the preparation of production estimates. Dashed lines represent updates from 2007 to current year.

MALLARD BREEDING PAIRS MINNESOTA PRAIRIE POTHOLE REGION



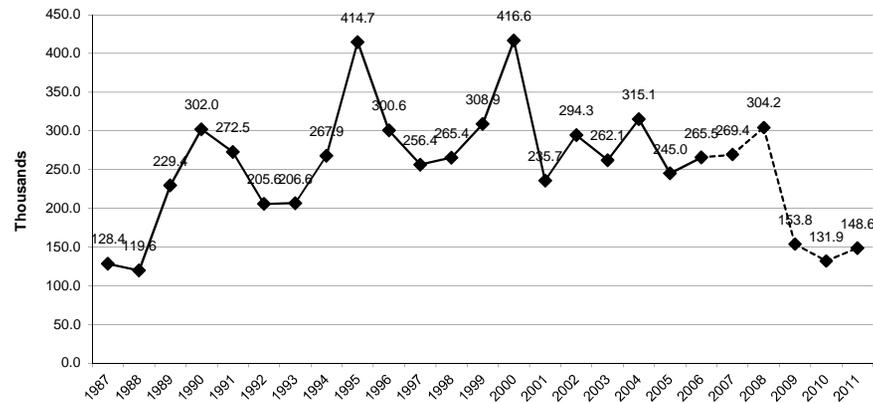
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BW TEAL BREEDING PAIRS MINNESOTA PRAIRIE POTHOLE REGION



DATA VALUES ARE FOR THE PPR ONLY. 1987 and 1988 data are for Agassiz Ridge, Border Prairie, and MN River Headwaters Prairie Area's.

BREEDING PAIRS ALL SPECIES* MINNESOTA PRAIRIE POTHOLE REGION

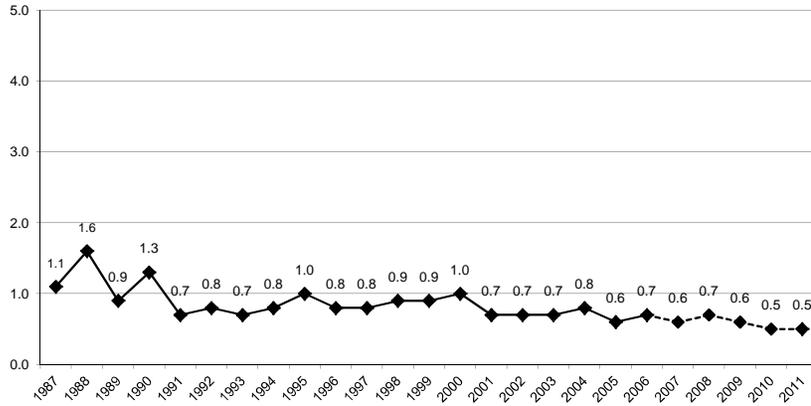


DATA VALUES ARE FOR THE PPR ONLY. 1987 and 1988 data are for Agassiz Ridge, Border Prairie, and MN River Headwaters Prairie Area's.

*DATA VALUES ARE FOR 13 SPECIES (MALLARD, GADWALL, BLUE-WINGED TEAL, SHOVELER, PINTAIL, WIGEON, GREEN-WINGED TEAL, WOODDUCK, REDHEAD, CANVASBACK, L. SCAUP, RINGNECK, RUDDY DUCK)

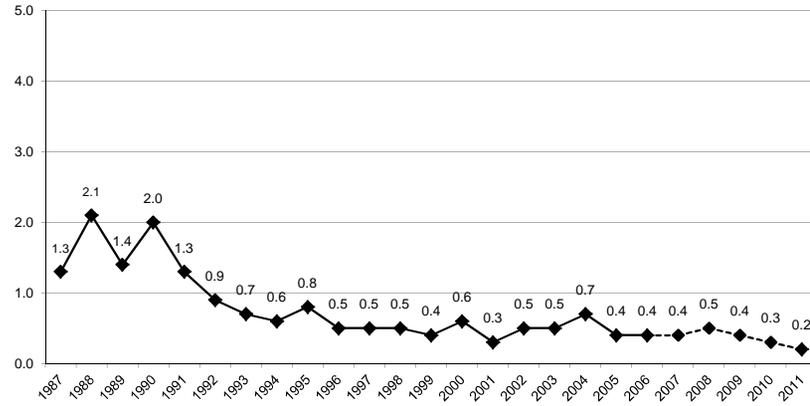
Note: Updated habitat and ownership database files, as well as, a state ownership category were implemented in the preparation of production estimates. Dashed lines represent updates from 2007 to current year.

MALLARD PAIRS / POND MINNESOTA PRAIRIE POTHOLE REGION



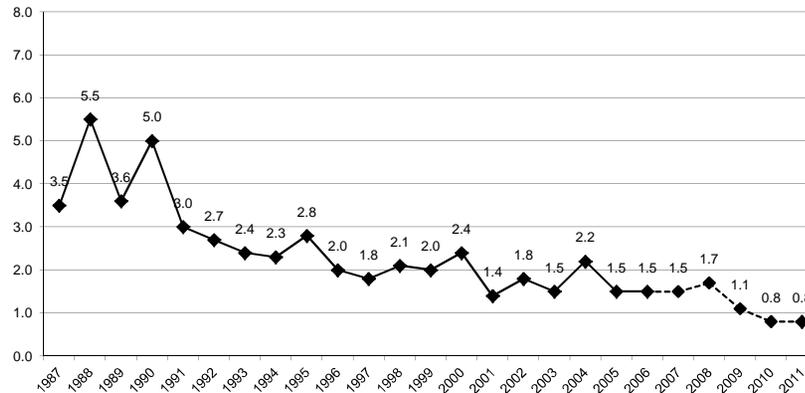
DATA VALUES ARE FOR THE PPR ONLY. 1987 and 1988 data are for Agassiz Ridge, Border Prairie, and MN River Headwaters Prairie Area's.

BW TEAL PAIRS / POND MINNESOTA PRAIRIE POTHOLE REGION



DATA VALUES ARE FOR THE PPR ONLY. 1987 and 1988 data are for Agassiz Ridge, Border Prairie, and MN River Headwaters Prairie Area's.

PAIRS / POND ALL SPECIES* MINNESOTA PRAIRIE POTHOLE REGION



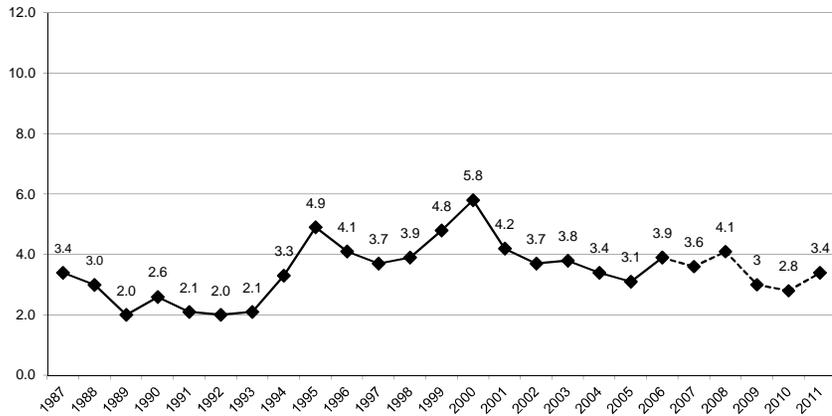
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MALLARD PAIRS / SQ MILE

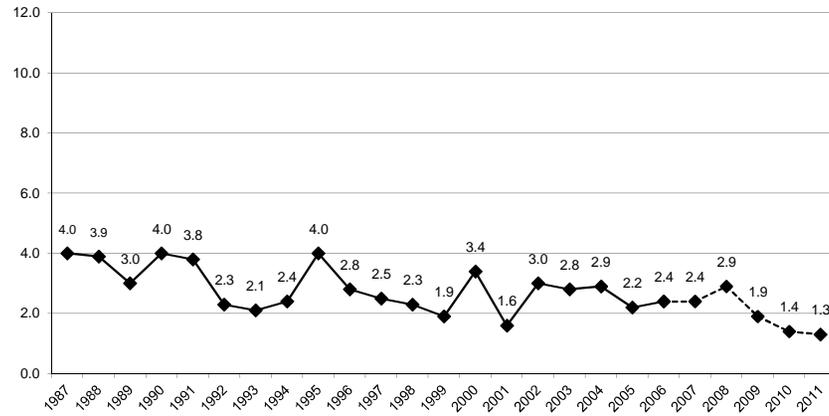
MINNESOTA PRAIRIE POTHOLE REGION



DATA VALUES ARE FOR THE PPR ONLY. 1987 and 1988 data are for Agassiz Ridge, Border Prairie, and MN River Headwaters Prairie Area's.

BW TEAL PAIRS / SQ MILE

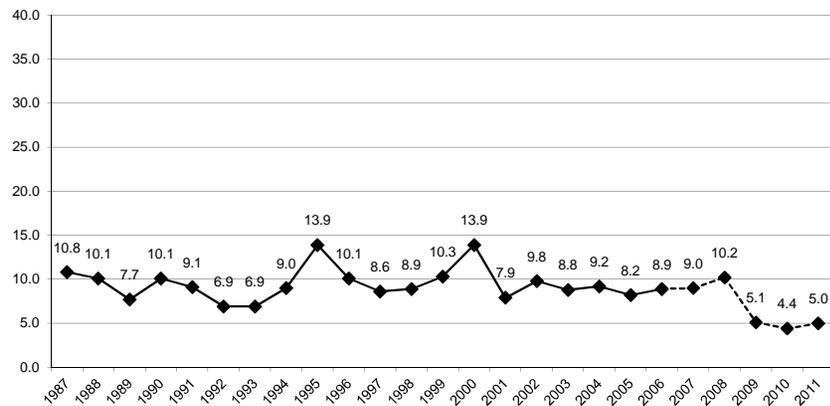
MINNESOTA PRAIRIE POTHOLE REGION



DATA VALUES ARE FOR THE PPR ONLY. 1987 and 1988 data are for Agassiz Ridge, Border Prairie, and MN River Headwaters Prairie Area's.

PAIRS / SQ MILE ALL SPECIES*

MINNESOTA PRAIRIE POTHOLE REGION



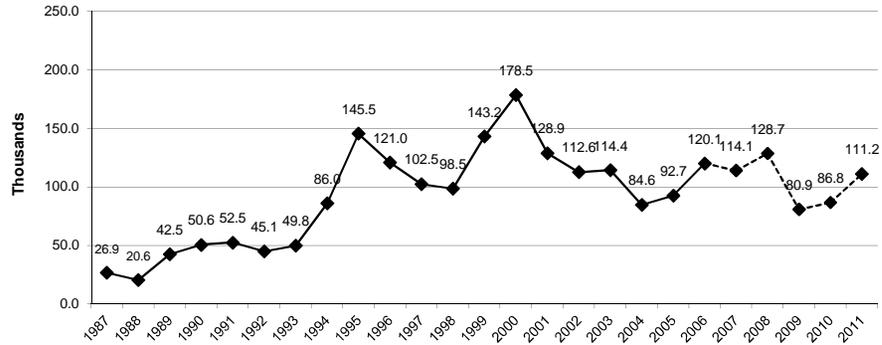
DATA VALUES ARE FOR THE PPR ONLY. 1987 and 1988 data are for Agassiz Ridge, Border Prairie, and MN River Headwaters Prairie Area's.

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Note: Updated habitat and ownership database files, as well as, a state ownership category were implemented in the preparation of production estimates. Dashed lines represent updates from 2007 to current year.

NUMBER OF MALLARD RECRUITS PRODUCED

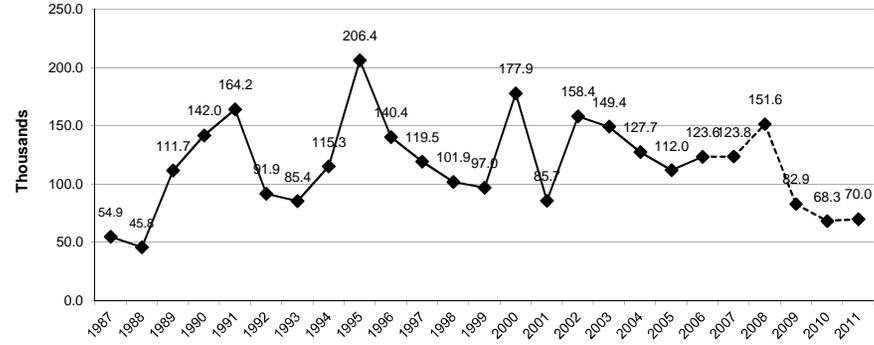
MINNESOTA PRAIRIE POTHOLE REGION



DATA VALUES ARE FOR THE PPR ONLY. 1987 and 1988 data are for Agassiz Ridge, Border Prairie, and MN River Headwaters Prairie Area's.

NUMBER OF BW TEAL RECRUITS PRODUCED

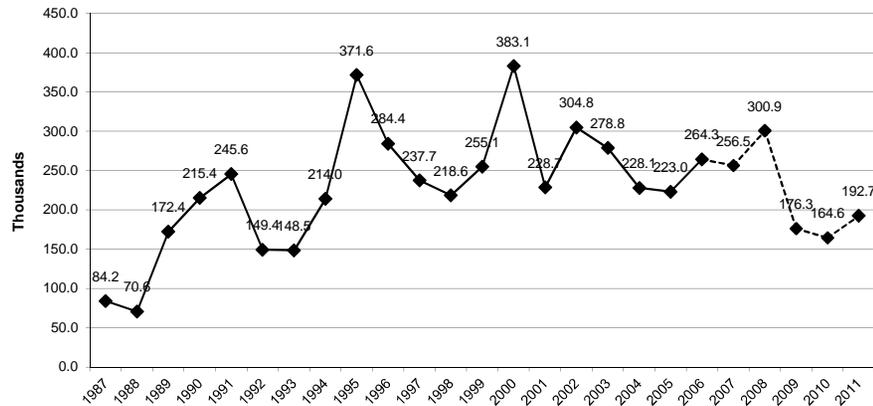
MINNESOTA PRAIRIE POTHOLE REGION



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NUMBER OF RECRUITS PRODUCED*

MINNESOTA PRAIRIE POTHOLE REGION

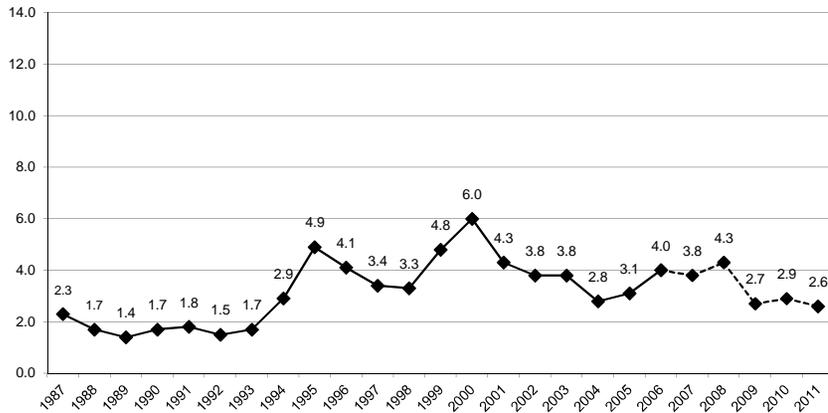


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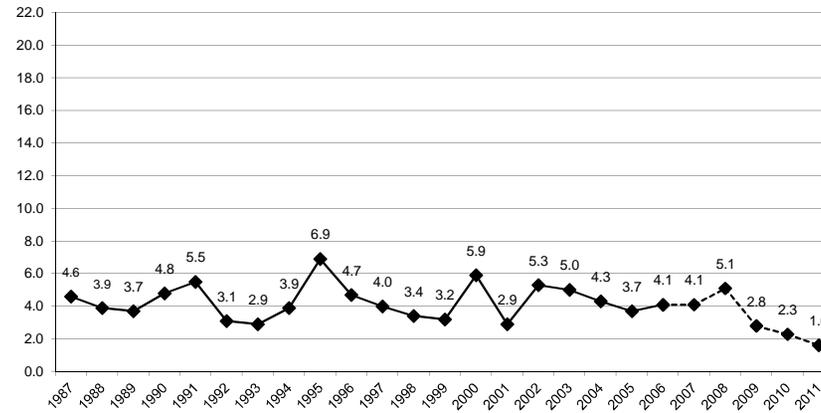
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MALLARD RECRUITS / SQ MILE MINNESOTA PRAIRIE POTHOLE REGION



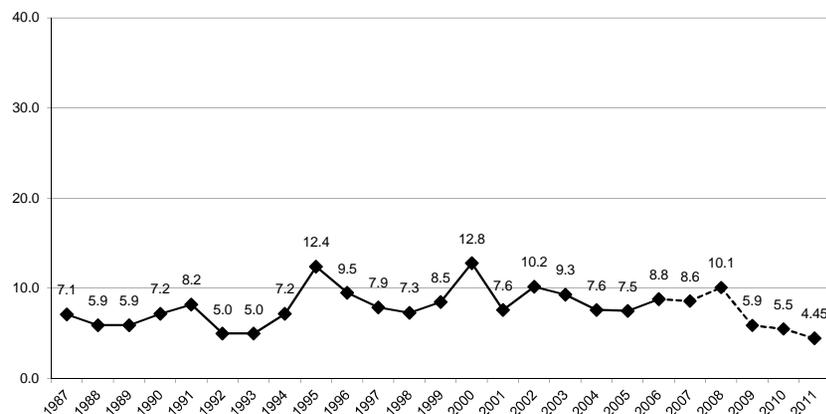
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BW TEAL RECRUITS / SQ MILE MINNESOTA PRAIRIE POTHOLE REGION



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RECRUITS / SQ MILE ALL SPECIES* MINNESOTA PRAIRIE POTHOLE REGION

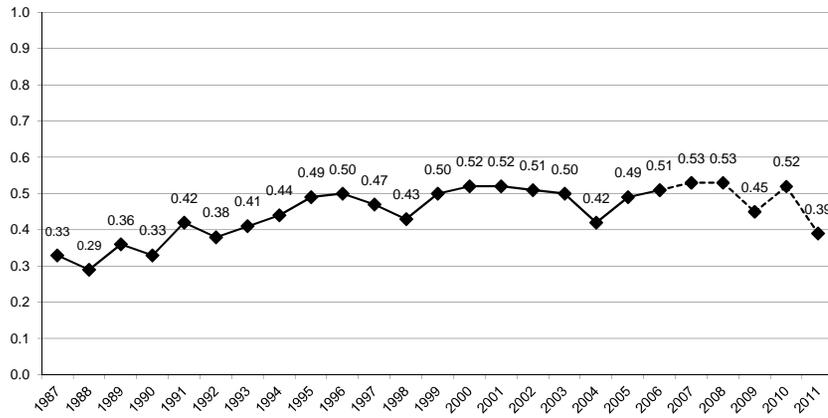


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MALLARD RECRUITMENT RATE*

MINNESOTA PRAIRIE POTHOLE REGION

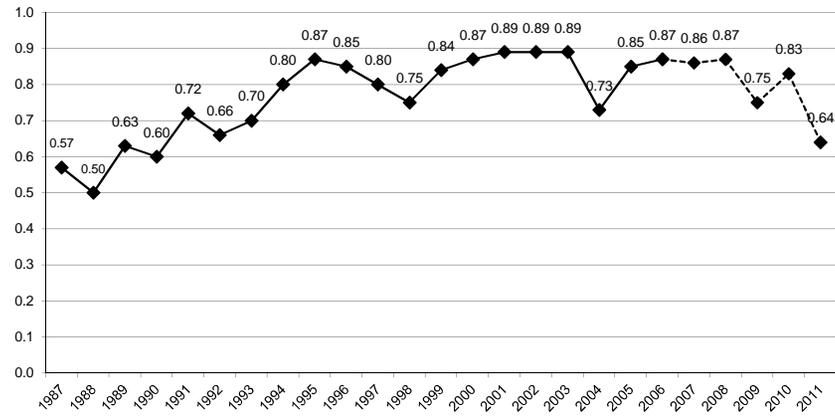


DATA VALUES ARE FOR THE PPR ONLY. 1987 and 1988 data are for Agassiz Ridge, Border Prairie, and MN River Headwaters Prairie Area's.

*It is estimated that a .49 Recruitment Rate is required for a stable mallard population

BW TEAL RECRUITMENT RATE

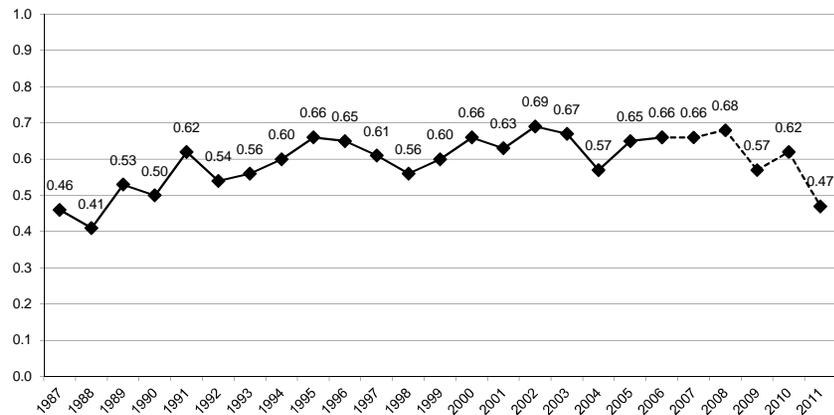
MINNESOTA PRAIRIE POTHOLE REGION



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RECRUITMENT RATE*

MINNESOTA PRAIRIE POTHOLE REGION



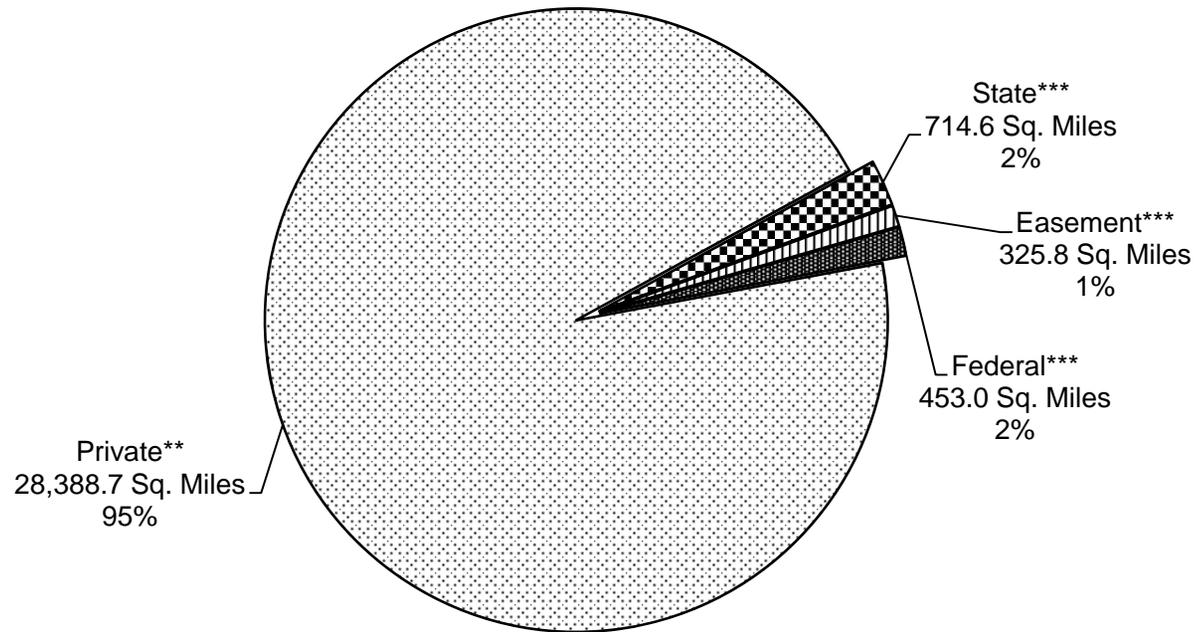
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OWNERSHIP COMPOSITION*

MINNESOTA PRAIRIE POTHOLE REGION



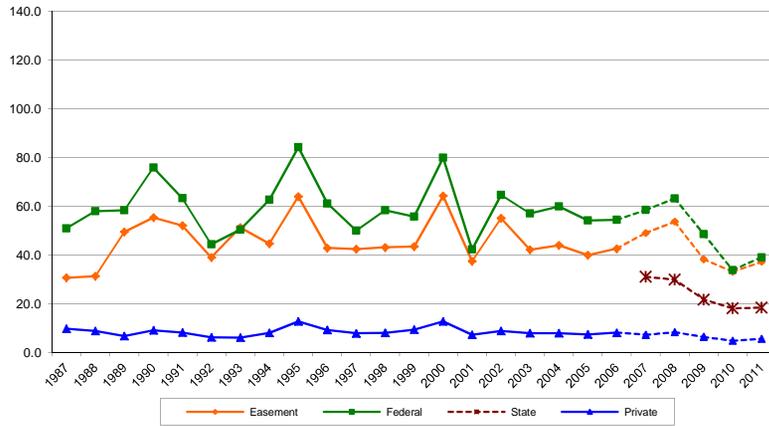
*DATA PRESENTED ARE FROM REPRESENTATIVE 4 SQ. MILE PLOTS IN THE PRAIRIE POTHOLE REGION ONLY.

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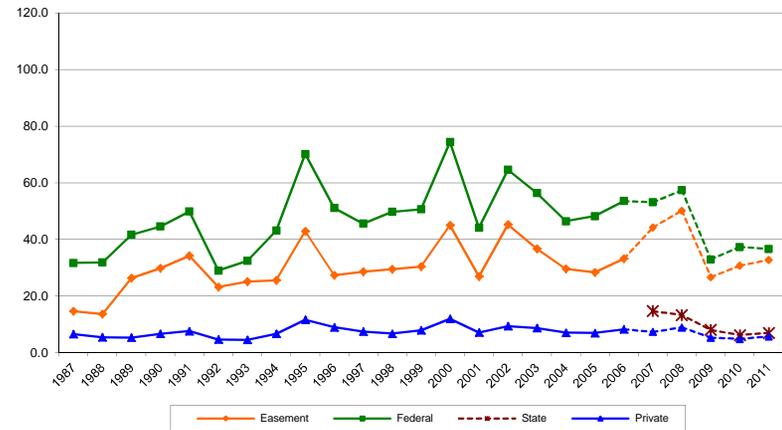
Note: Updated habitat and ownership database files, as well as, a state ownership category were implemented in the preparation of production estimates. Dashed lines represent updates from 2007 to current year.

ESTIMATED PAIRS / SQ. MILE BY OWNERSHIP
13 SPECIES*
MINNESOTA PRAIRIE POTHOLE REGION



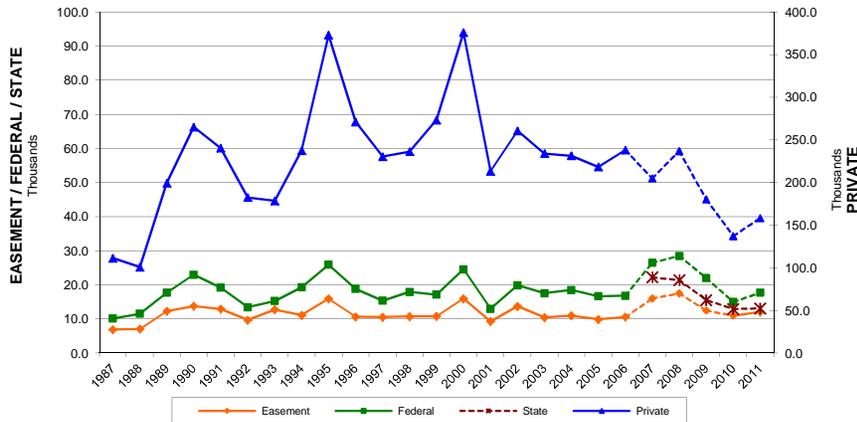
DATA VALUES ARE FOR THE PRAIRIE POTHOLE REGION ONLY
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ESTIMATED RECRUITS / SQ. MILE BY OWNERSHIP
5 SPECIES*
MINNESOTA PRAIRIE POTHOLE REGION



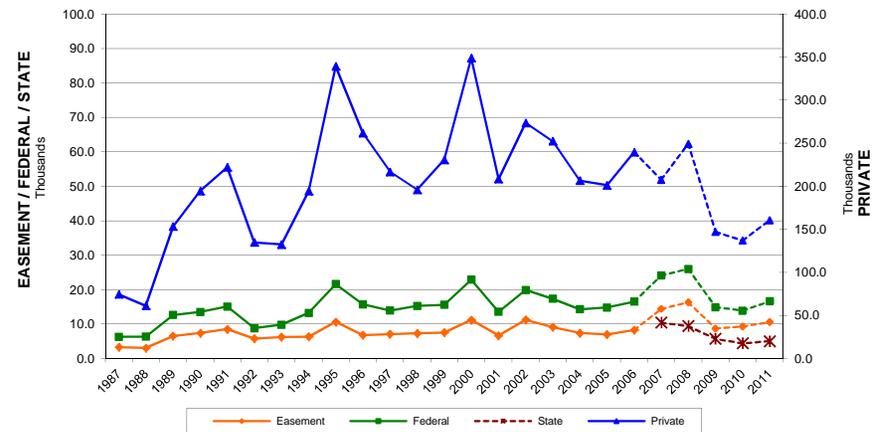
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ESTIMATED PAIRS BY OWNERSHIP
13 SPECIES*
MINNESOTA PRAIRIE POTHOLE REGION



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ESTIMATED RECRUITS BY OWNERSHIP
5 SPECIES*
MINNESOTA PRAIRIE POTHOLE REGION



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SECTION INDEX

Detroit Lakes WMD Transition Zone*

Fergus Falls WMD Transition Zone*

Litchfield WMD Transition Zone*

Minnesota Valley WMD Transition Zone*

Roseau Transition WMD Zone*

Minnesota Transition Zone*

*Each section contains five pages presenting the following information:

Wetland data

Total breeding pair data

Pairs per pond

Pairs per square mile

Ownership composition

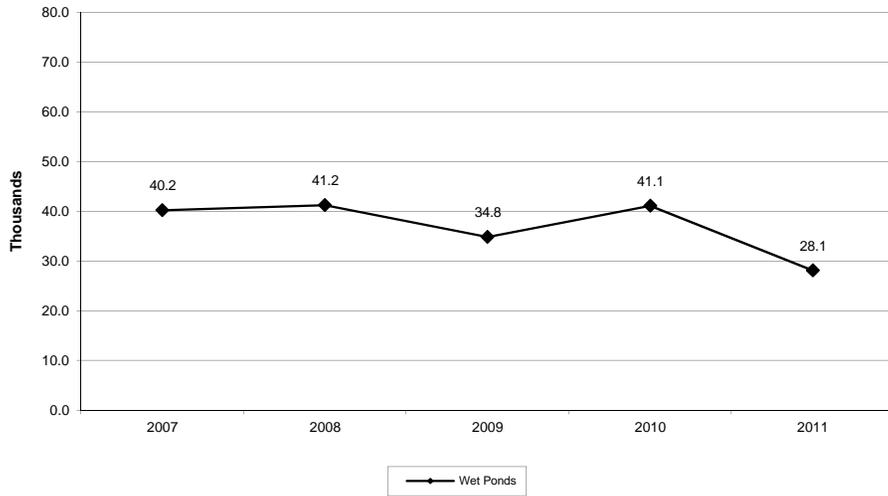
Pairs by ownership strata

[Click to return to Main Index](#)

**TRANSITION ZONE
OF THE
DETROIT LAKES
WETLAND MANAGEMENT DISTRICT**

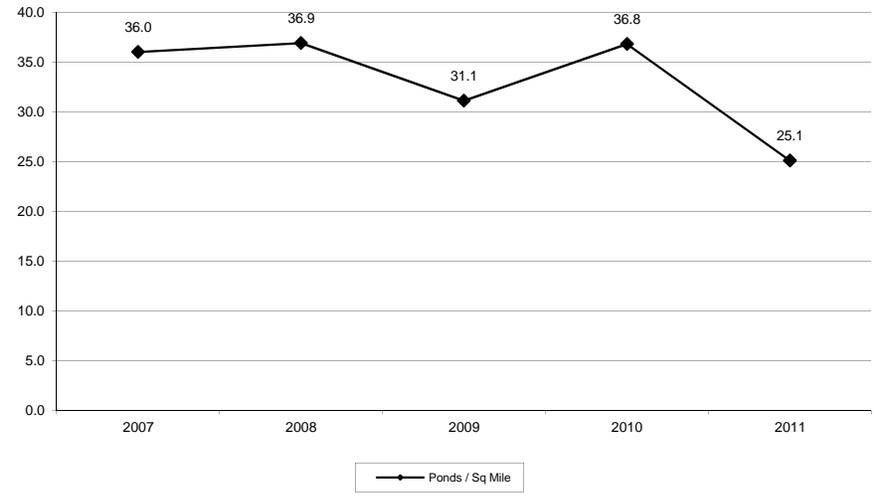
[Click to return to Subsection Index](#)

NUMBER OF WET PONDS DETROIT LAKES TRANSITION ZONE AREA



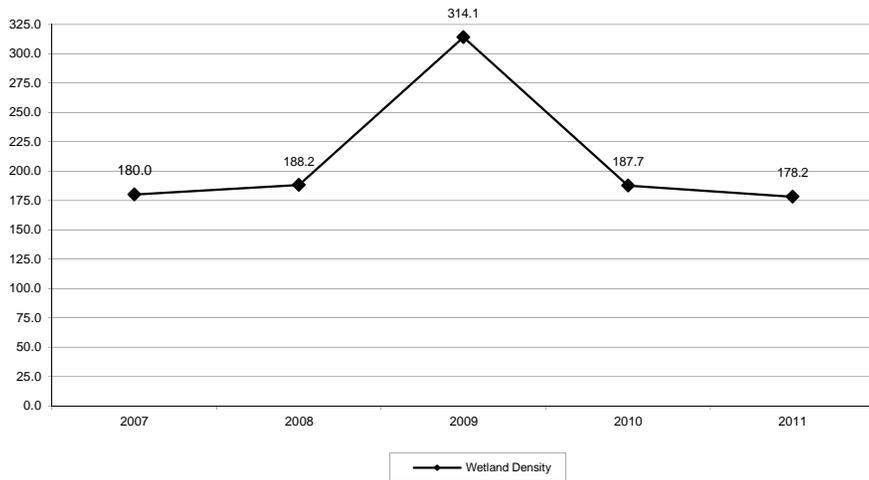
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PONDS / SQ MILE DETROIT LAKES TRANSITION ZONE AREA



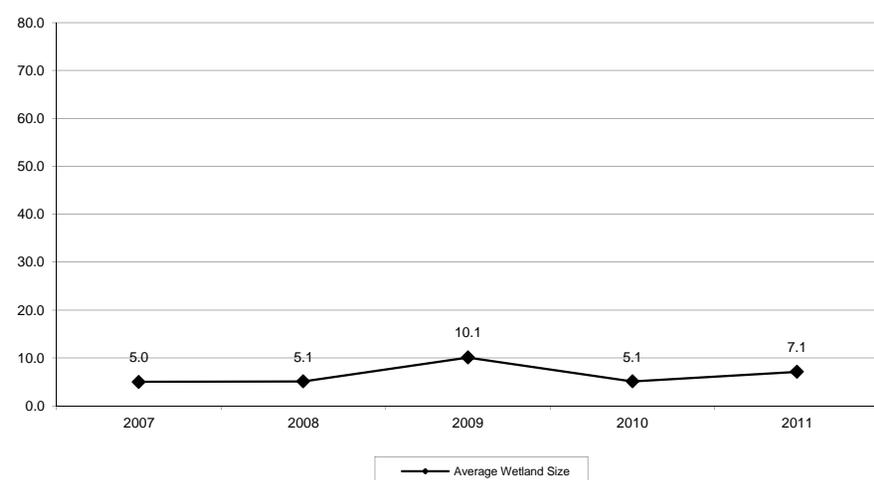
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WETLAND DENSITY* DETROIT LAKES TRANSITION ZONE AREA



DATA VALUES ARE FOR THE TRANSITION ZONE ONLY
*WETLAND ACRES / SQ MILE

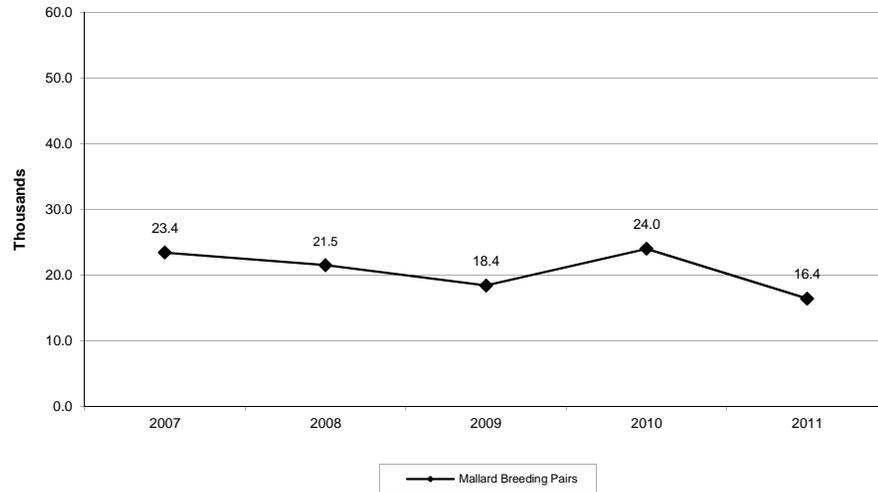
AVERAGE WETLAND SIZE* DETROIT LAKES TRANSITION ZONE AREA



DATA VALUES ARE FOR THE TRANSITION ZONE ONLY
*ACRES

MALLARD BREEDING PAIRS

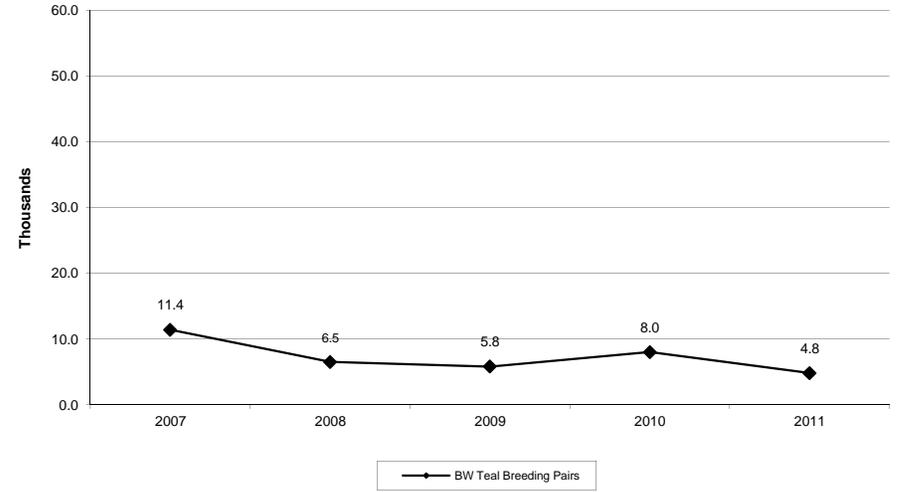
DETROIT LAKES TRANSITION ZONE AREA



DATA VALUES ARE FOR THE TRANSITION ZONE ONLY

BW TEAL BREEDING PAIRS

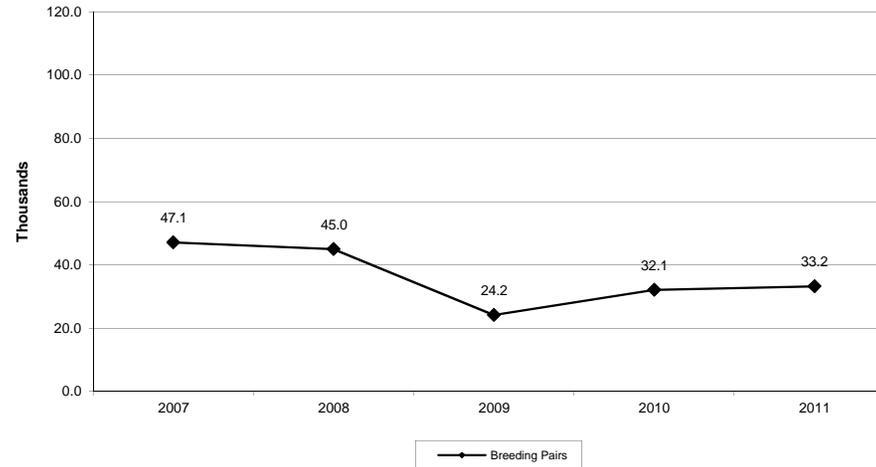
DETROIT LAKES TRANSITION ZONE AREA



DATA VALUES ARE FOR THE TRANSITION ZONE ONLY

BREEDING PAIRS ALL SPECIES*

DETROIT LAKES TRANSITION ZONE AREA

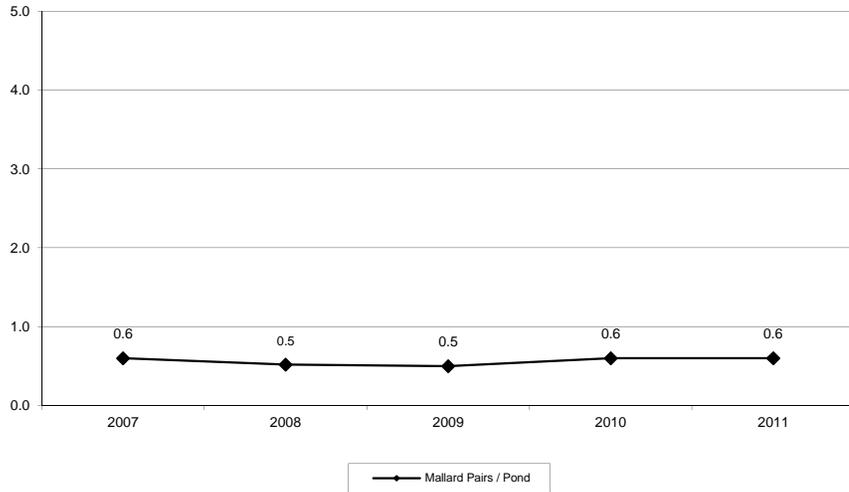


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MALLARD PAIRS / POND

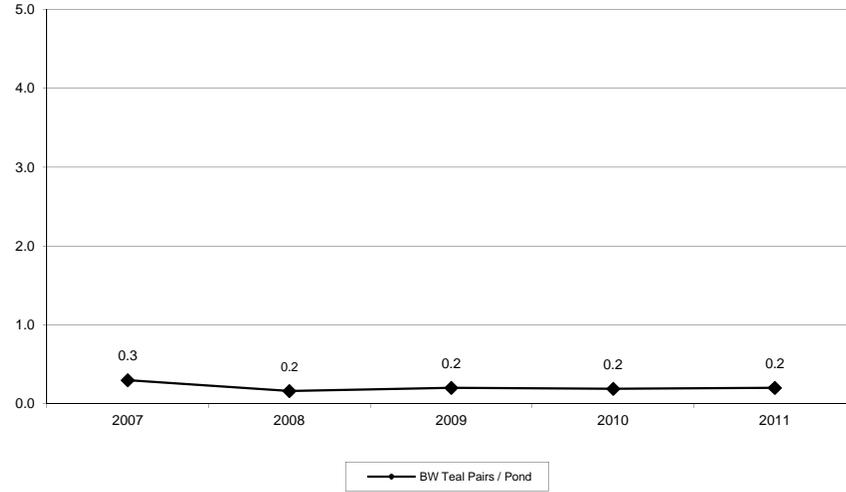
DETROIT LAKES TRANSITION ZONE AREA



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BW TEAL PAIRS / POND

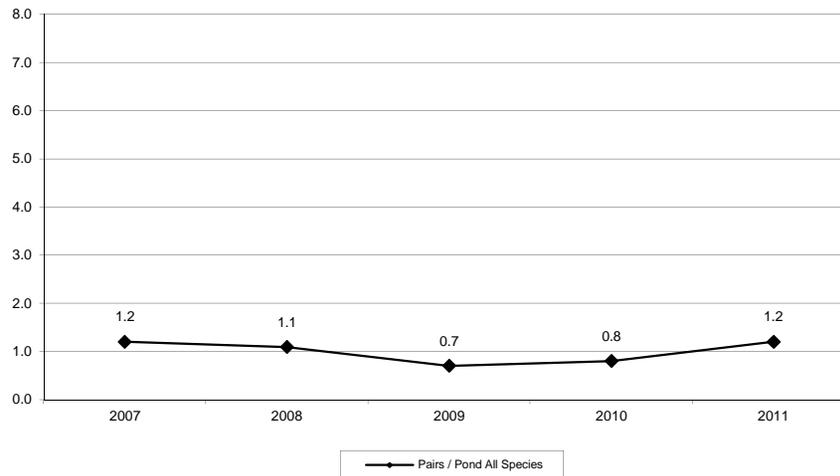
DETROIT LAKES TRANSITION ZONE AREA



DATA VALUES ARE FOR THE TRANSITION ZONE ONLY

PAIRS / POND ALL SPECIES*

DETROIT LAKES TRANSITION ZONE AREA

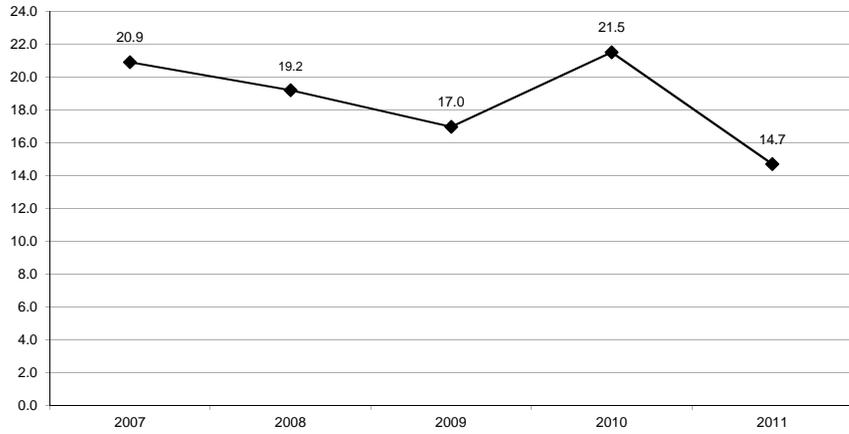


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MALLARD PAIRS / SQ MILE

DETROIT LAKES TRANSITION ZONE AREA

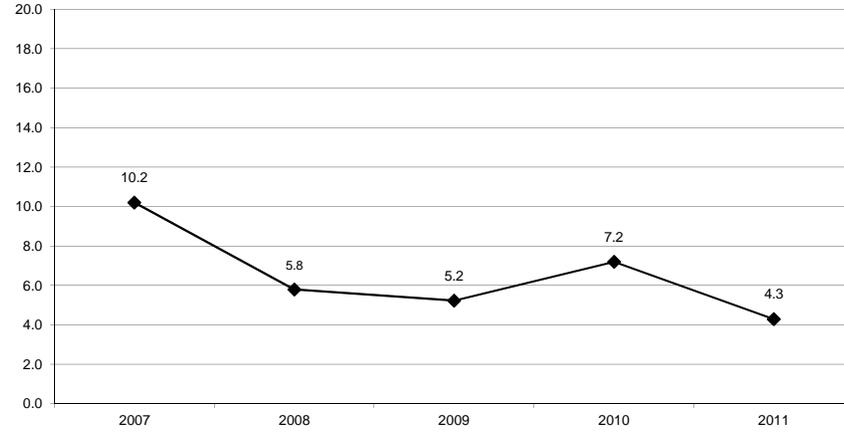


—●— Mallard Pairs / Sq Mile

DATA VALUES ARE FOR THE TRANSITION ZONE ONLY

BW TEAL PAIRS / SQ MILE

DETROIT LAKES TRANSITION ZONE AREA

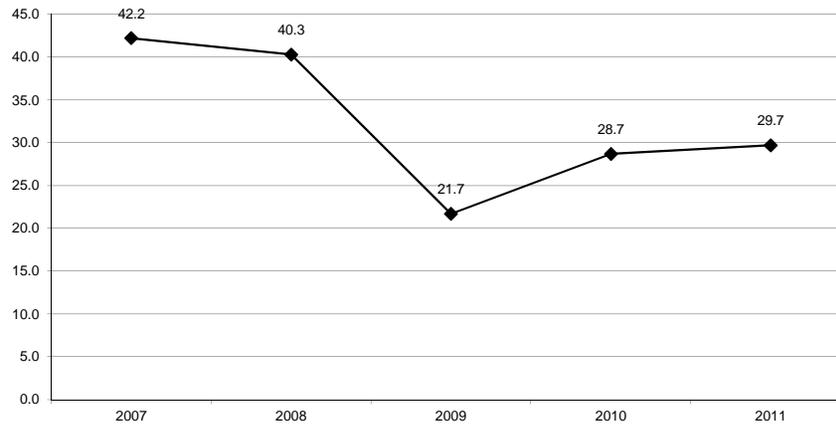


—●— BW Teal Pairs / Sq Mile

DATA VALUES ARE FOR THE TRANSITION ZONE ONLY

PAIRS / SQ MILE ALL SPECIES*

DETROIT LAKES TRANSITION ZONE AREA



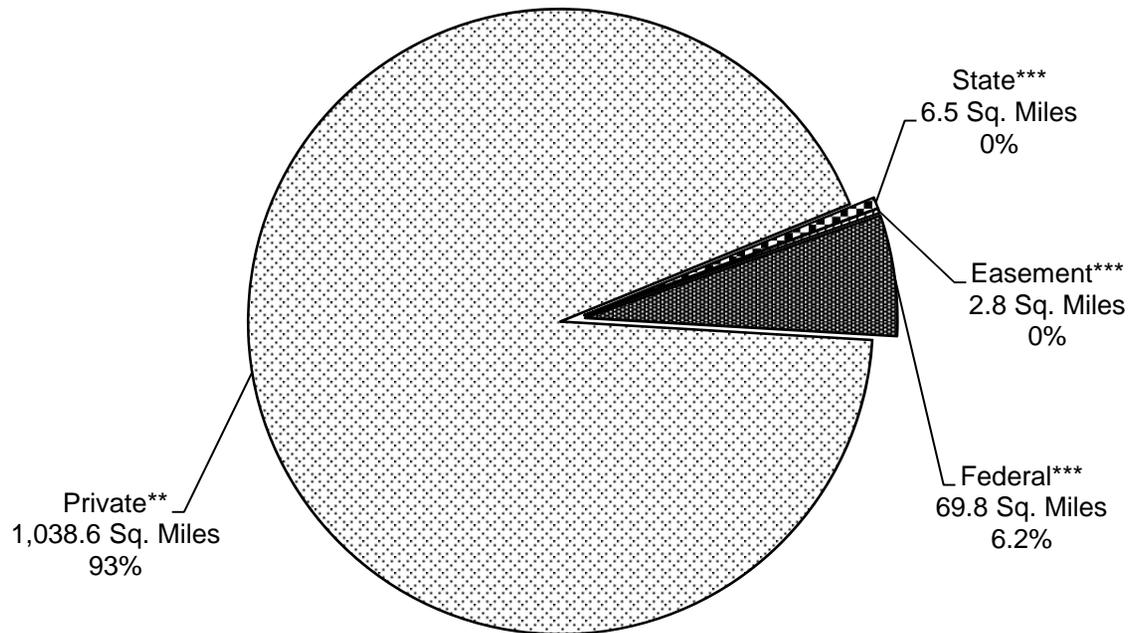
—●— Pairs / Sq Mile

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OWNERSHIP COMPOSITION*

DETROIT LAKES TRANSITION ZONE AREA



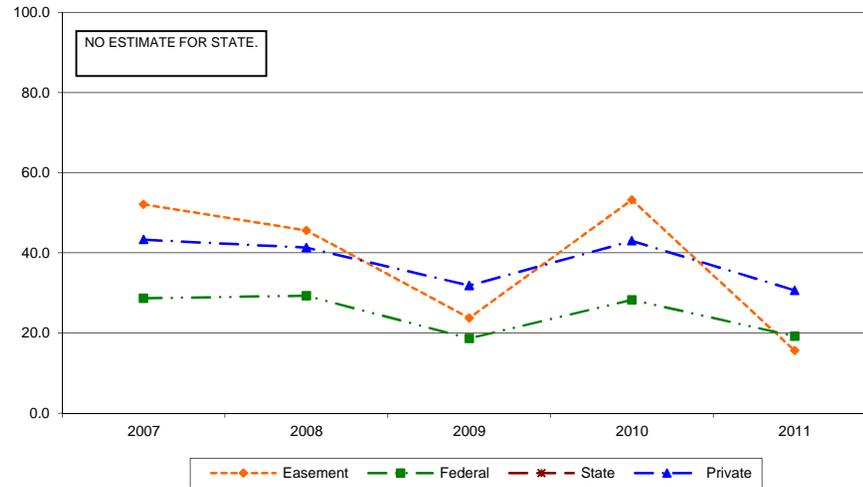
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ESTIMATED PAIRS / SQ. MILE BY OWNERSHIP

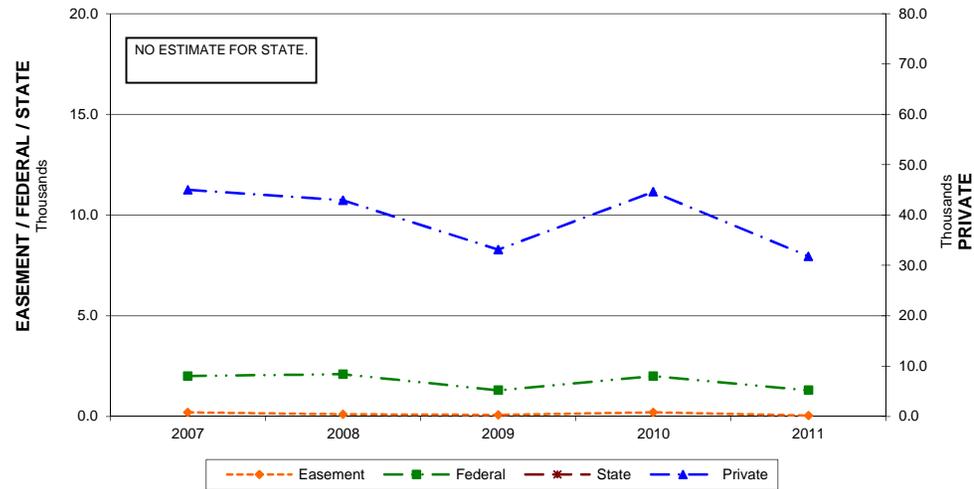
13 SPECIES*
DETROIT LAKES TRANSITION ZONE AREA



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ESTIMATED PAIRS BY OWNERSHIP

13 SPECIES*
DETROIT LAKES TRANSITION ZONE AREA

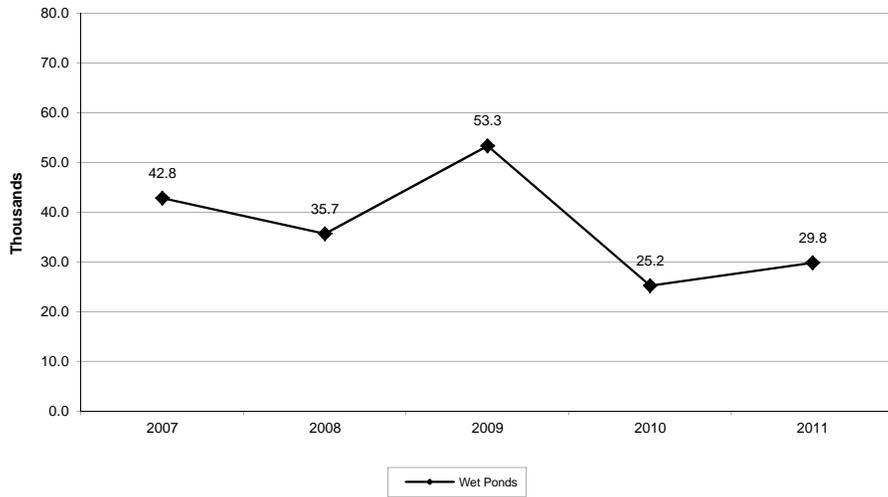


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**TRANSITION ZONE
OF THE
FERGUS FALLS
WETLAND MANAGEMENT DISTRICT**

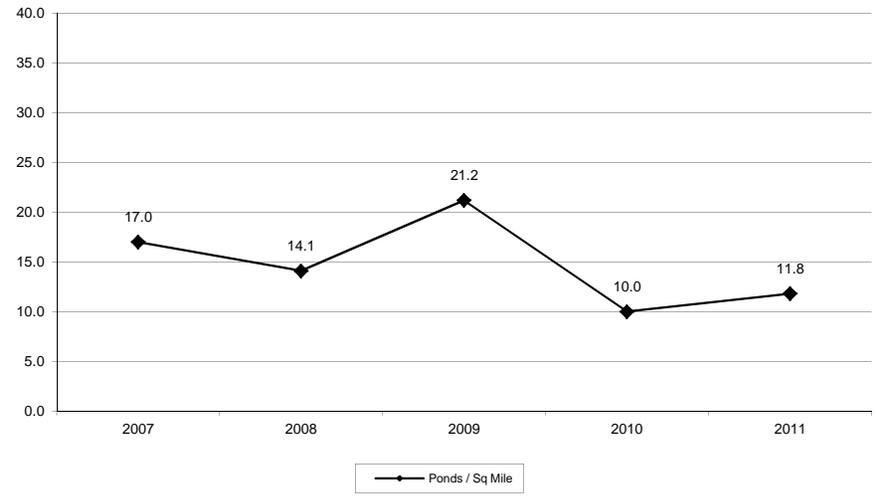
[Click to return to Subsection Index](#)

NUMBER OF WET PONDS FERGUS FALLS TRANSITION ZONE AREA



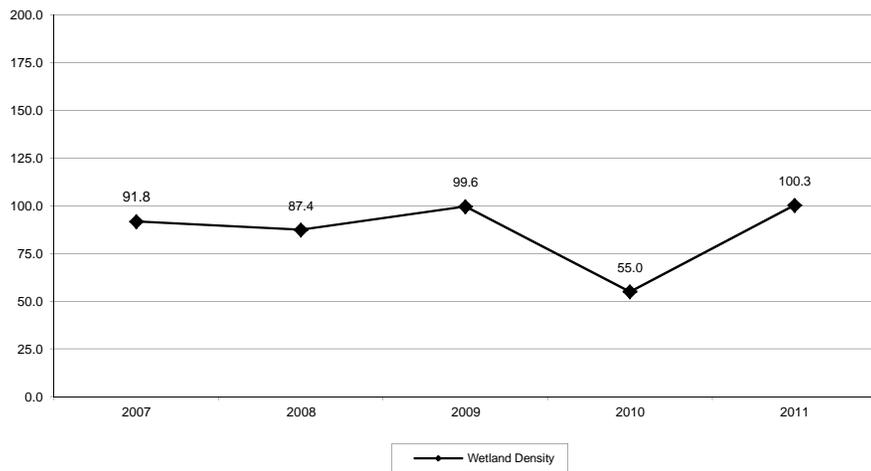
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PONDS / SQ MILE FERGUS FALLS TRANSITION ZONE AREA



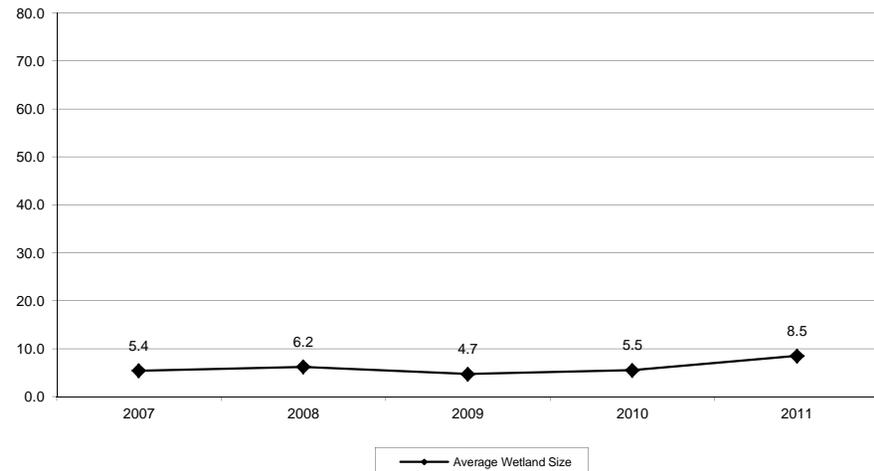
DATA VALUES ARE FOR THE TRANSITION ZONE AREA ONLY

WETLAND DENSITY* FERGUS FALLS TRANSITION ZONE AREA



DATA VALUES ARE FOR THE TRANSITION ZONE ONLY
*WETLAND ACRES / SQ MILE

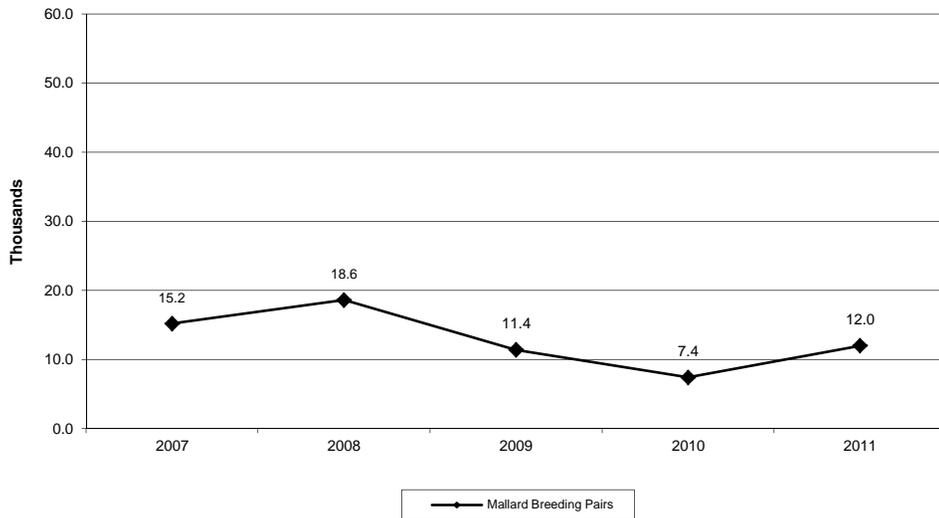
AVERAGE WETLAND SIZE* FERGUS FALLS TRANSITION ZONE AREA



DATA VALUES ARE FOR THE TRANSITION ZONE ONLY
*ACRES

MALLARD BREEDING PAIRS

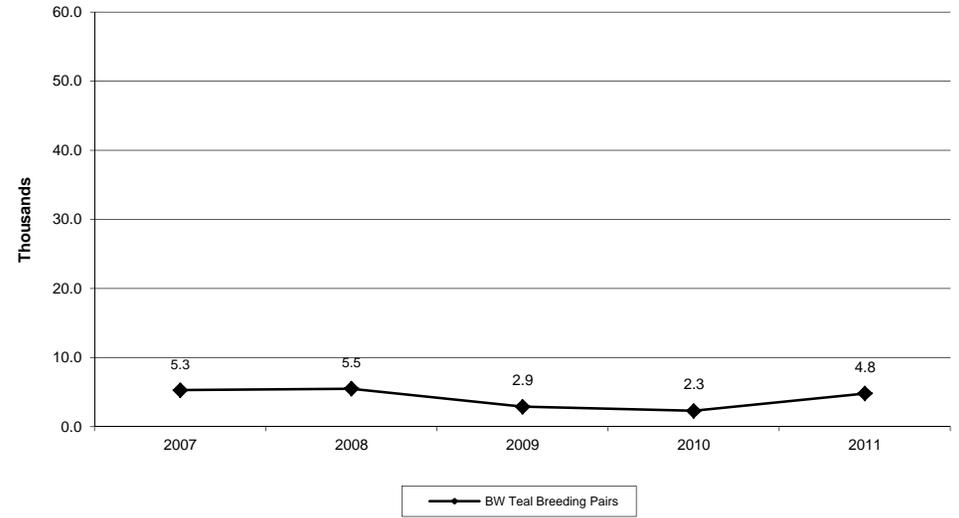
FERGUS FALLS TRANSITION ZONE AREA



DATA VALUES ARE FOR THE TRANSITION ZONE ONLY

BW TEAL BREEDING PAIRS

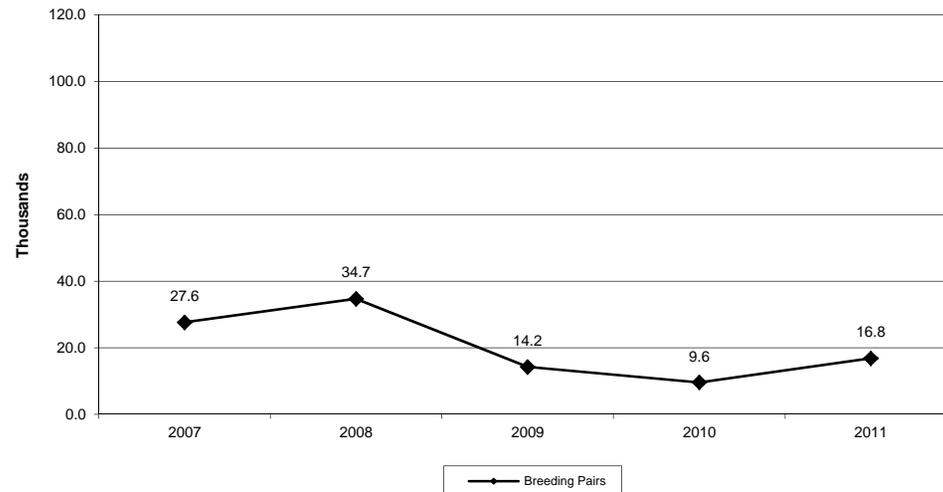
FERGUS FALLS TRANSITION ZONE AREA



DATA VALUES ARE FOR THE TRANSITION ZONE ONLY

BREEDING PAIRS ALL SPECIES*

FERGUS FALLS TRANSITION ZONE AREA

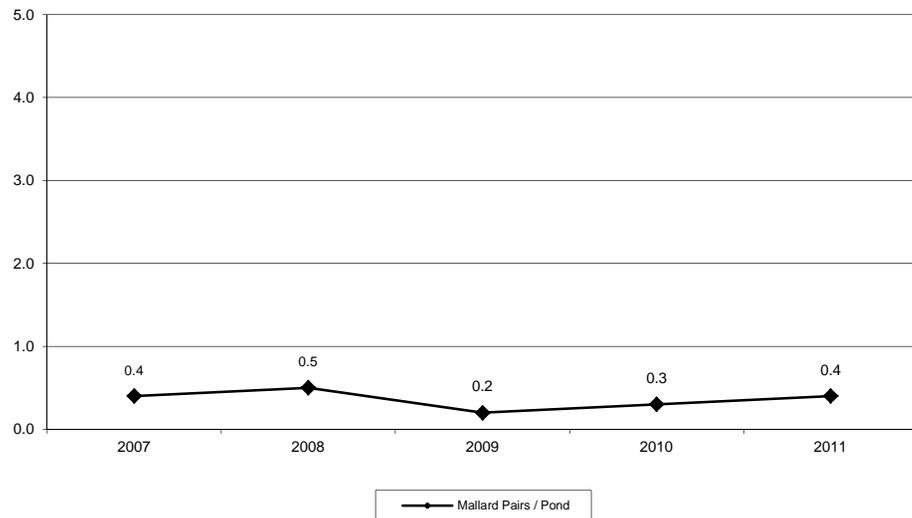


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MALLARD PAIRS / POND

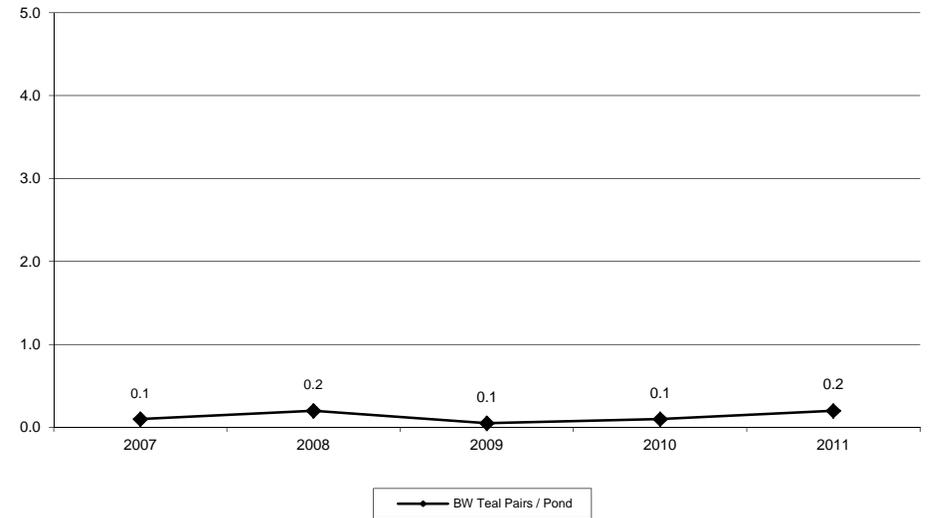
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BW TEAL PAIRS / POND

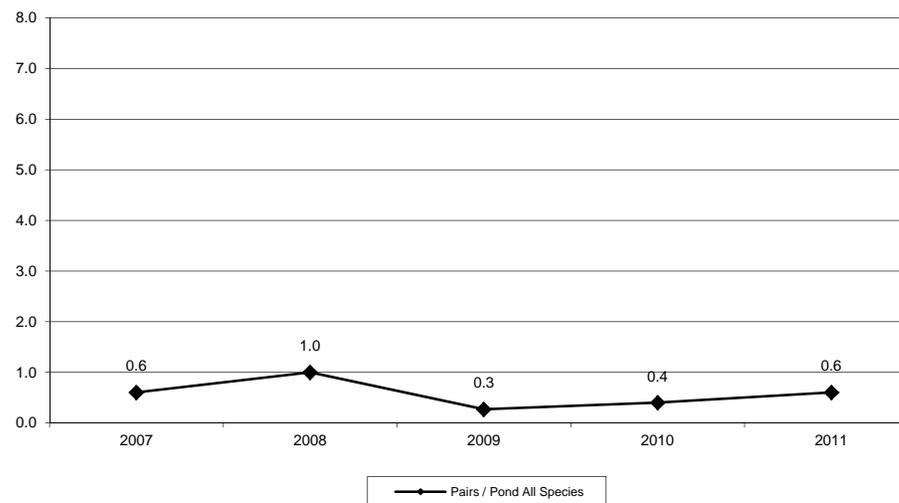
FERGUS FALLS TRANSITION ZONE AREA



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PAIRS / POND ALL SPECIES*

FERGUS FALLS TRANSITION ZONE AREA

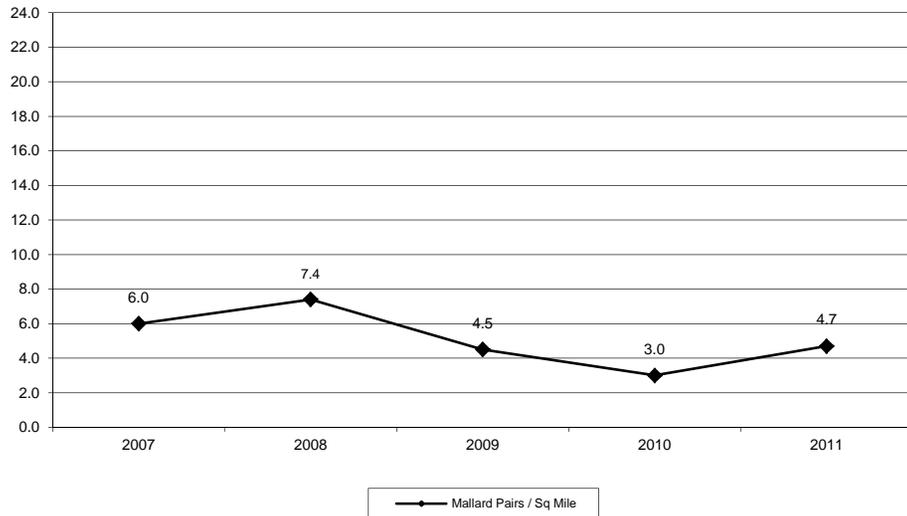


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MALLARD PAIRS / SQ MILE

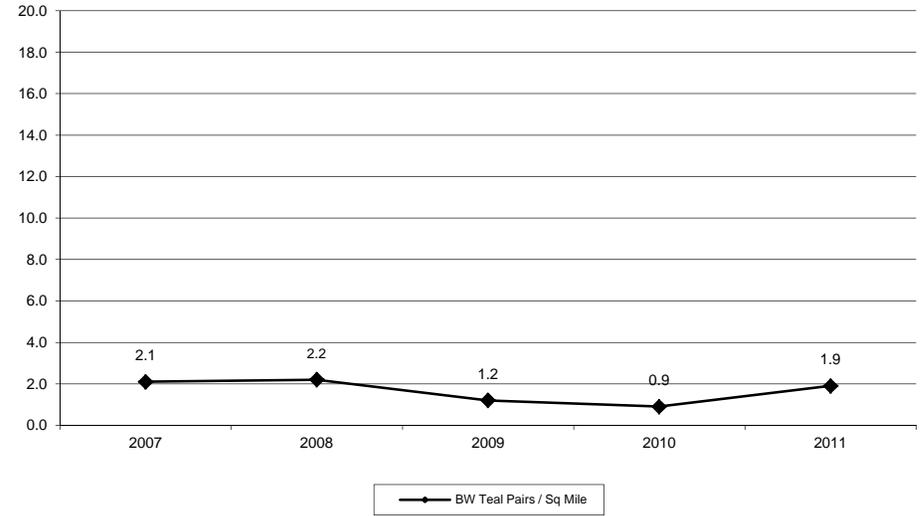
FERGUS FALLS TRANSITION ZONE AREA



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BW TEAL PAIRS / SQ MILE

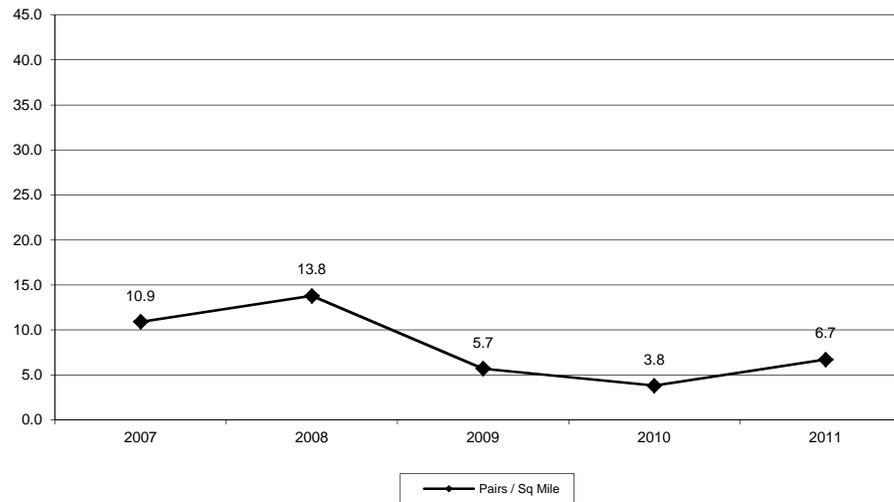
FERGUS FALLS TRANSITION ZONE AREA



DATA VALUES ARE FOR THE TRANSITION ZONE ONLY

PAIRS / SQ MILE ALL SPECIES*

FERGUS FALLS TRANSITION ZONE AREA

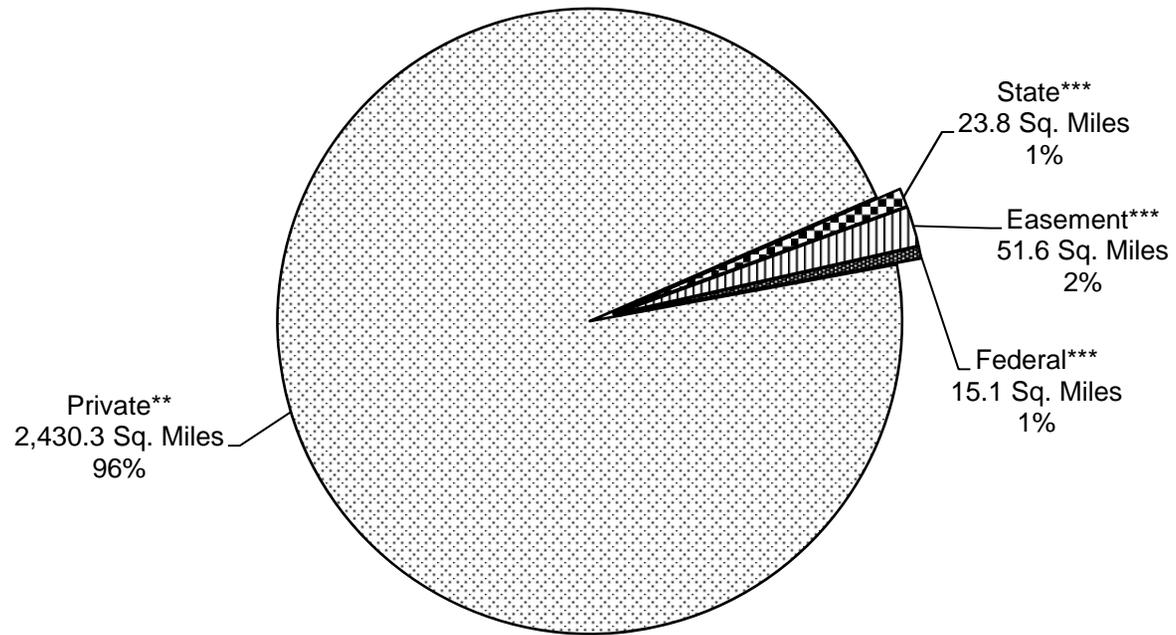


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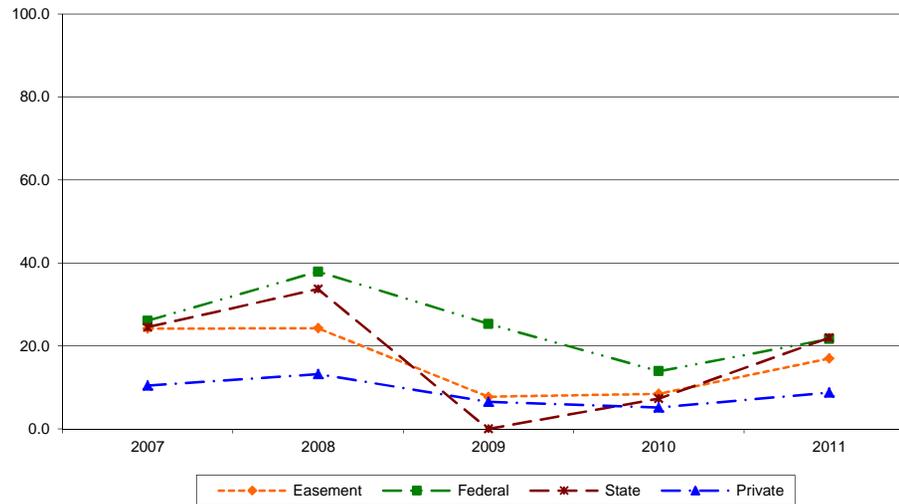
OWNERSHIP COMPOSITION*

FERGUS FALLS TRANSITION ZONE AREA



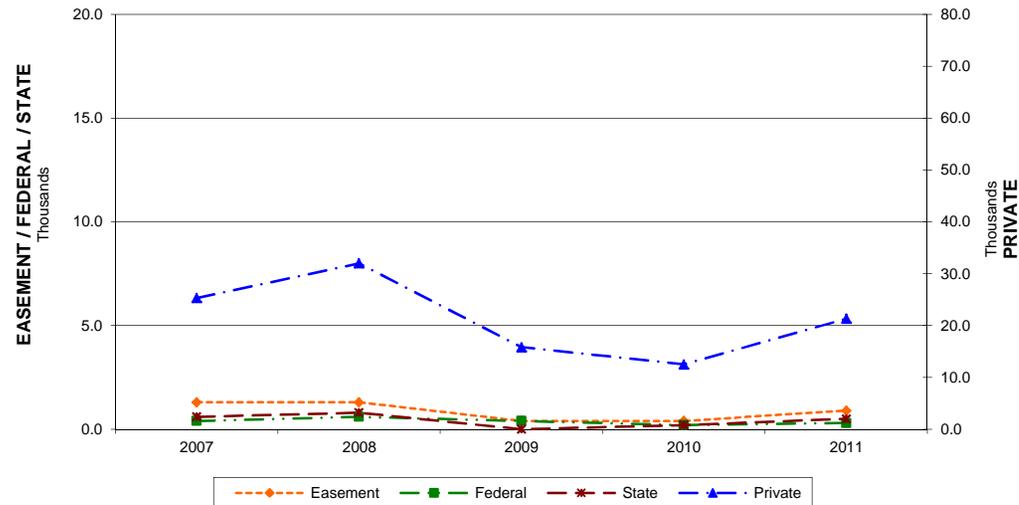
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ESTIMATED PAIRS / SQ. MILE BY OWNERSHIP 13 SPECIES* FERGUS FALLS TRANSITION ZONE AREA



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ESTIMATED PAIRS BY OWNERSHIP 13 SPECIES* FERGUS FALLS TRANSITION ZONE AREA



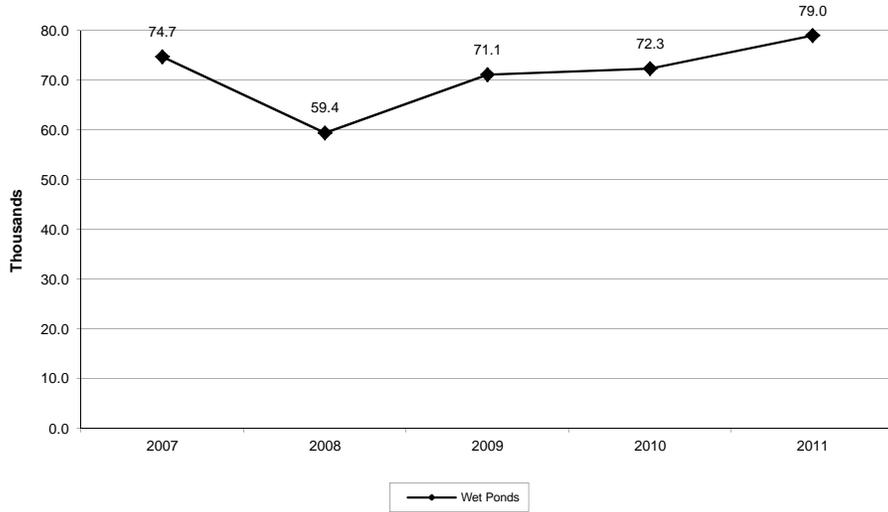
DATA VALUES ARE FOR THE TRANSITION ZONE ONLY
 *DATA VALUES ARE FOR 13 SPECIES (MALLARD, GADWALL, BLUE-WINGED TEAL, SHOVELER, PINTAIL, WIGEON, GREEN-WINGED TEAL, WOODDUCK, REDHEAD, CANVASBACK, L. SCAUP, RINGNECK, RUDDY DUCK)

**TRANSITION ZONE
OF THE
LITCHFIELD
WETLAND MANAGEMENT DISTRICT**

[Click to return to Subsection Index](#)

NUMBER OF WET PONDS

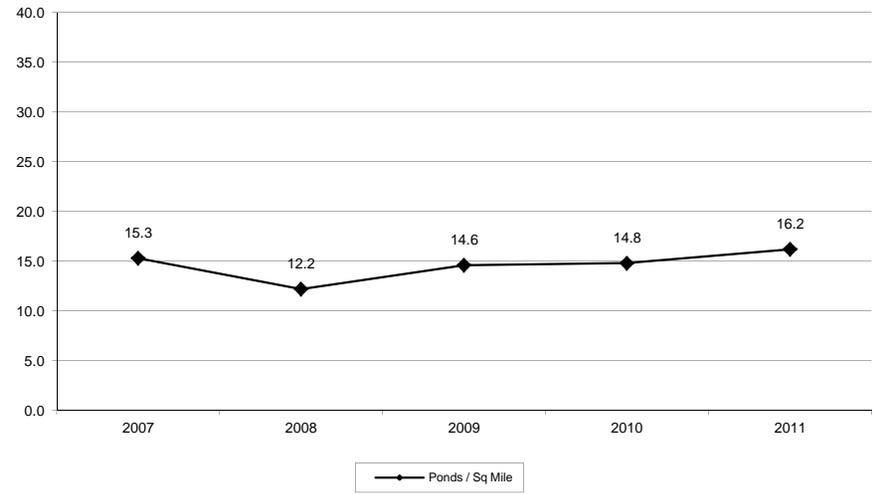
LITCHFIELD TRANSITION ZONE AREA



DATA VALUES ARE FOR THE TRANSITION ZONE ONLY

PONDS / SQ MILE

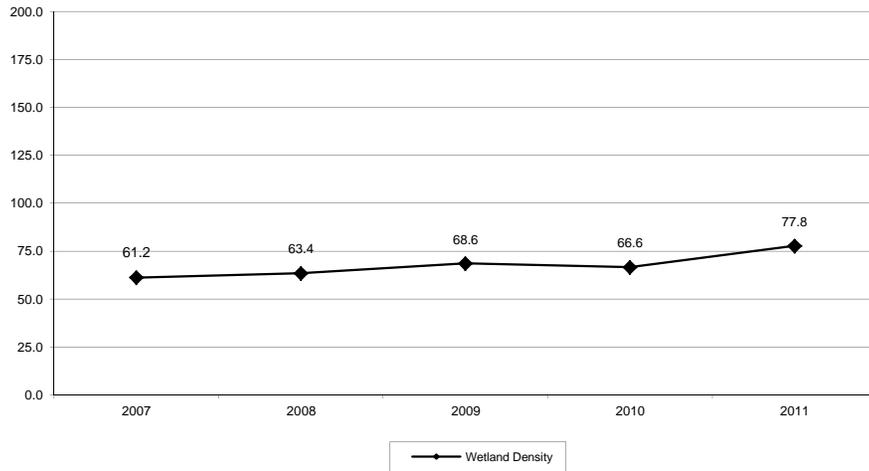
LITCHFIELD TRANSITION ZONE AREA



DATA VALUES ARE FOR THE TRANSITION ZONE ONLY

WETLAND DENSITY*

LITCHFIELD TRANSITION ZONE AREA

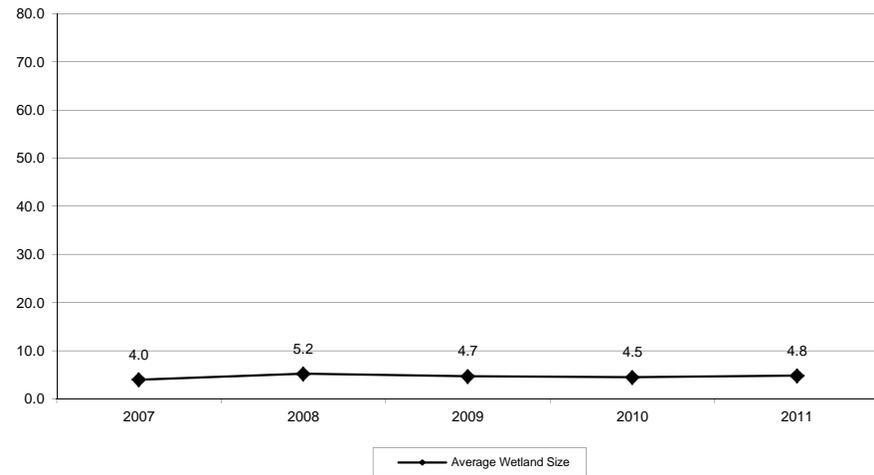


DATA VALUES ARE FOR THE TRANSITION ZONE ONLY

*WETLAND ACRES / SQ MILE

AVERAGE WETLAND SIZE*

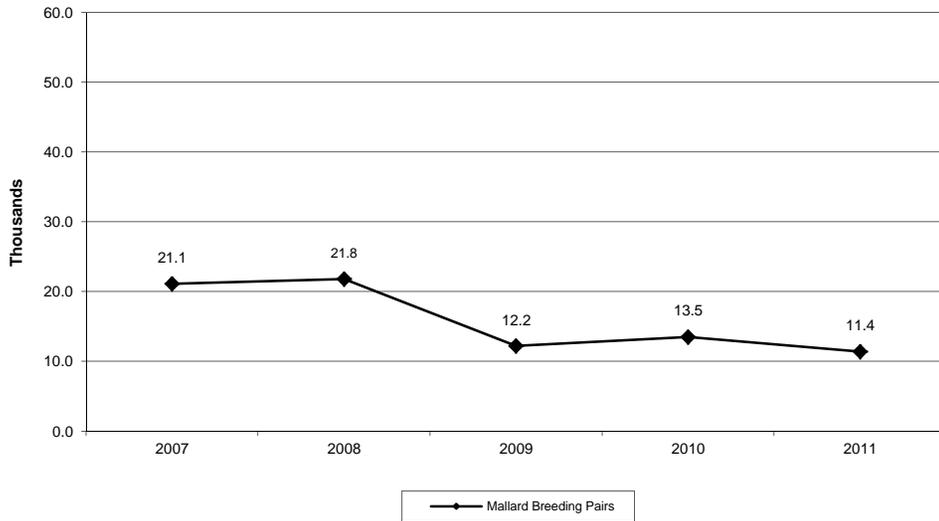
LITCHFIELD TRANSITION ZONE AREA



DATA VALUES ARE FOR THE TRANSITION ZONE ONLY

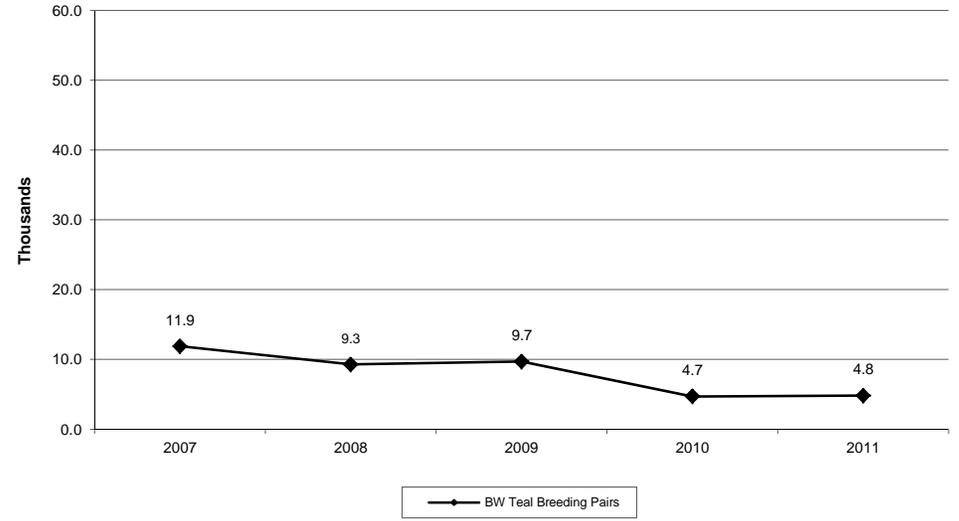
*ACRES

MALLARD BREEDING PAIRS LITCHFIELD TRANSITION ZONE AREA



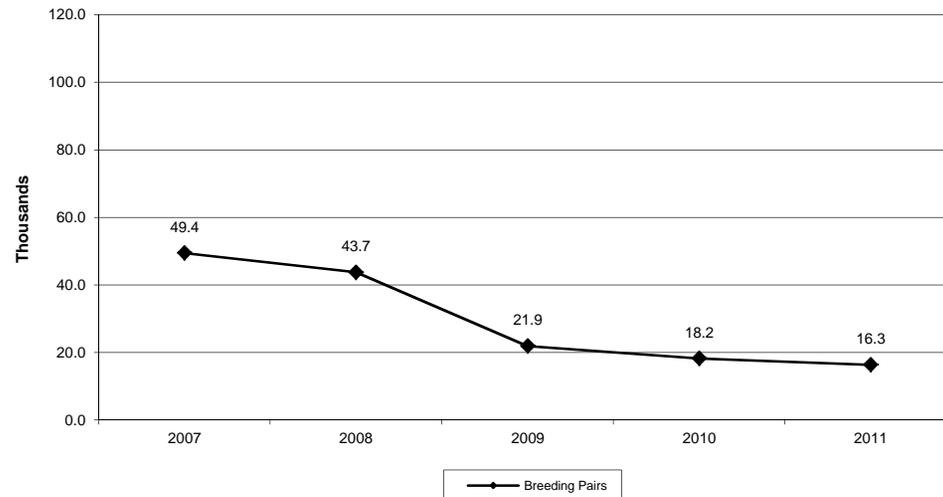
DATA VALUES ARE FOR THE TRANSITION ZONE ONLY

BW TEAL BREEDING PAIRS LITCHFIELD TRANSITION ZONE AREA



DATA VALUES ARE FOR THE TRANSITION ZONE ONLY

BREEDING PAIRS ALL SPECIES* LITCHFIELD TRANSITION ZONE AREA

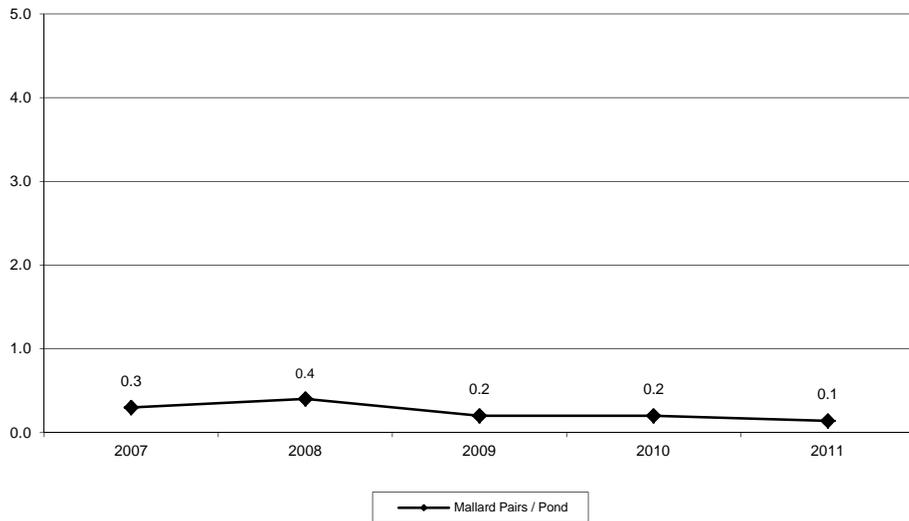


DATA VALUES ARE FOR THE TRANSITION ZONE ONLY

*DATA VALUES ARE FOR 13 SPECIES (MALLARD, GADWALL, BLUE-WINGED TEAL, SHOVELER, PINTAIL, WIGEON, GREEN-WINGED TEAL, WOODDUCK, REDHEAD, CANVASBACK, L. SCAUP, RINGNECK, RUDDY DUCK)

MALLARD PAIRS / POND

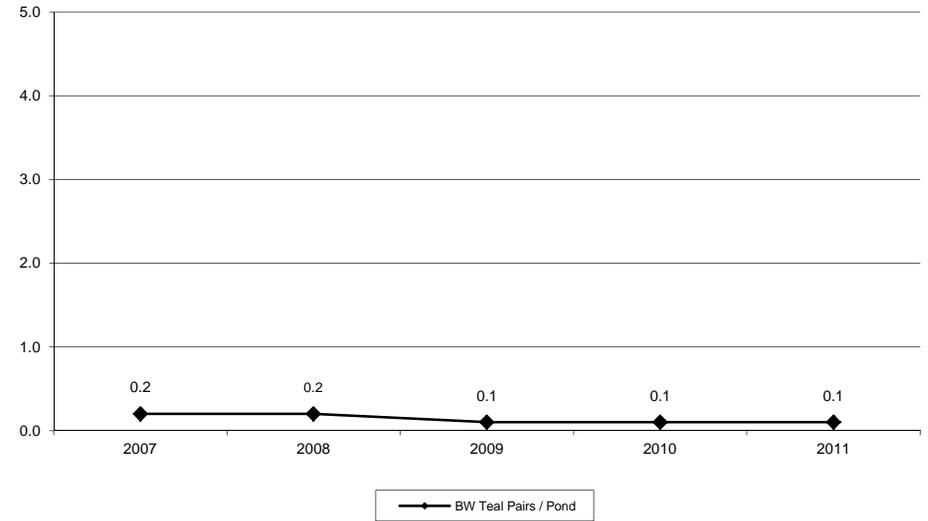
LITCHFIELD TRANSITION ZONE AREA



DATA VALUES ARE FOR THE TRANSITION ZONE ONLY

BW TEAL PAIRS / POND

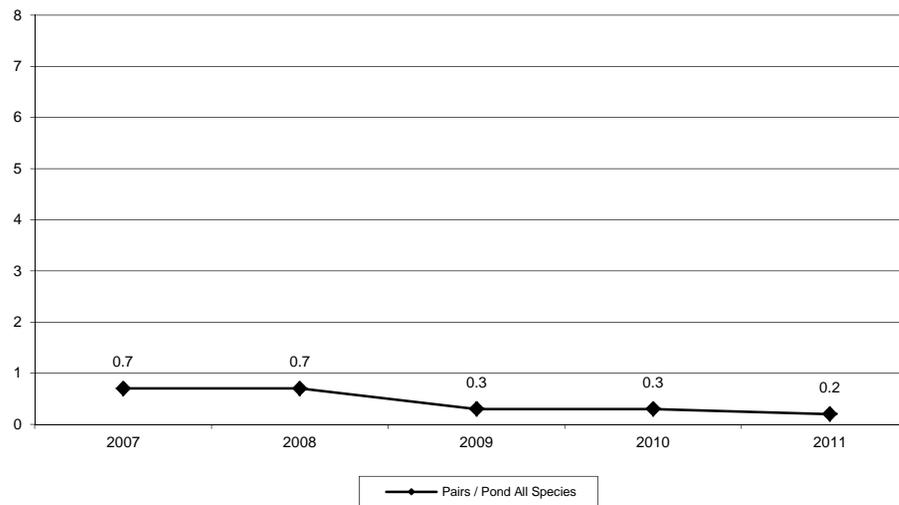
LITCHFIELD TRANSITION ZONE AREA



DATA VALUES ARE FOR THE TRANSITION ZONE ONLY

PAIRS / POND ALL SPECIES*

LITCHFIELD TRANSITION ZONE AREA

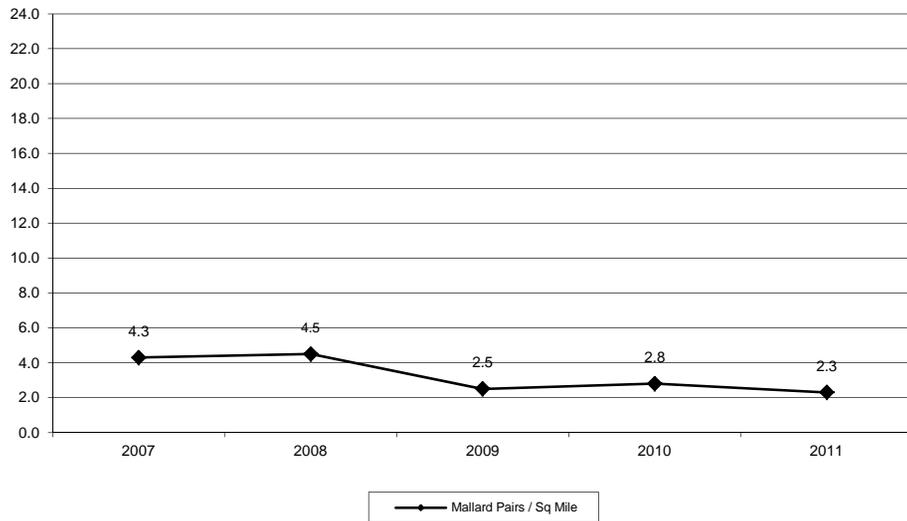


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MALLARD PAIRS / SQ MILE

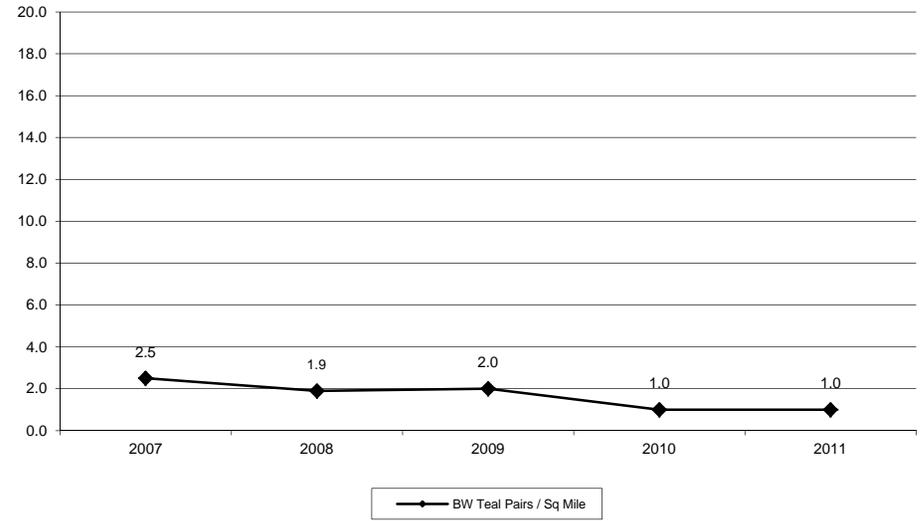
LITCHFIELD TRANSITION ZONE AREA



DATA VALUES ARE FOR THE TRANSITION ZONE ONLY

BW TEAL PAIRS / SQ MILE

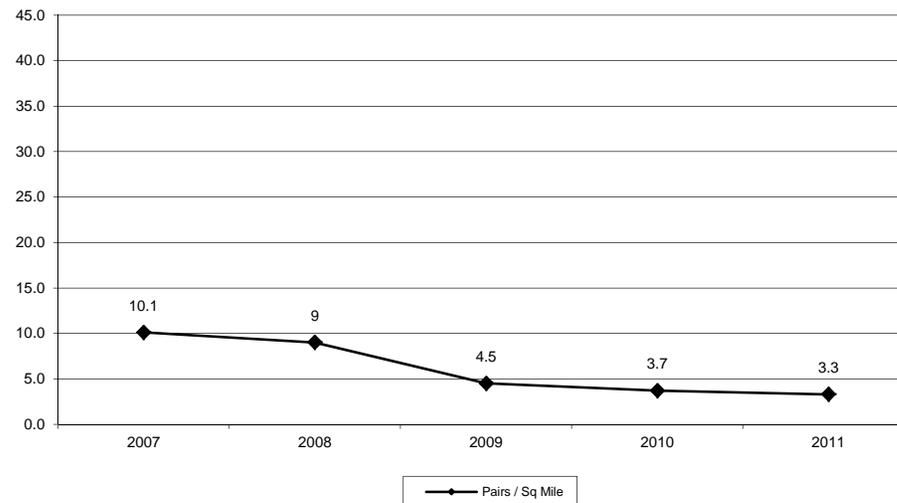
LITCHFIELD TRANSITION ZONE AREA



DATA VALUES ARE FOR THE TRANSITION ZONE ONLY

PAIRS / SQ MILE ALL SPECIES*

LITCHFIELD TRANSITION ZONE AREA

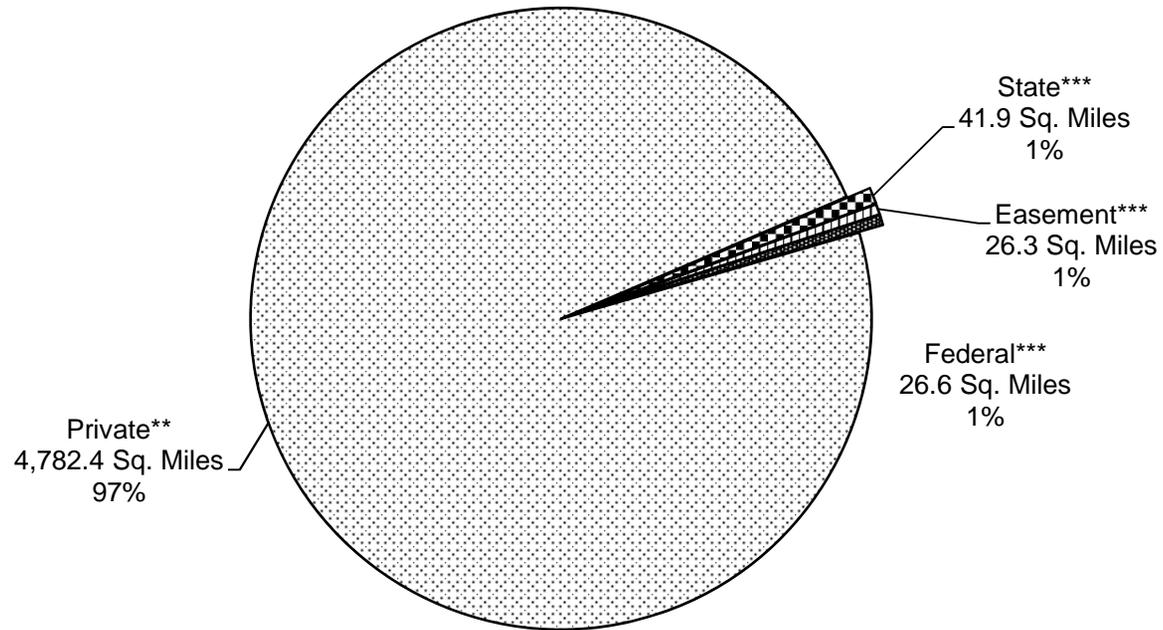


DATA VALUES ARE FOR THE TRANSITION ZONE ONLY

*DATA VALUES ARE FOR 13 SPECIES (MALLARD, GADWALL, BLUE-WINGED TEAL, SHOVELER, PINTAIL, WIGEON, GREEN-WINGED TEAL, WOODDUCK, REDHEAD, CANVASBACK, L. SCAUP, RINGNECK, RUDDY DUCK)

OWNERSHIP COMPOSITION*

LITCHFIELD TRANSITION ZONE AREA

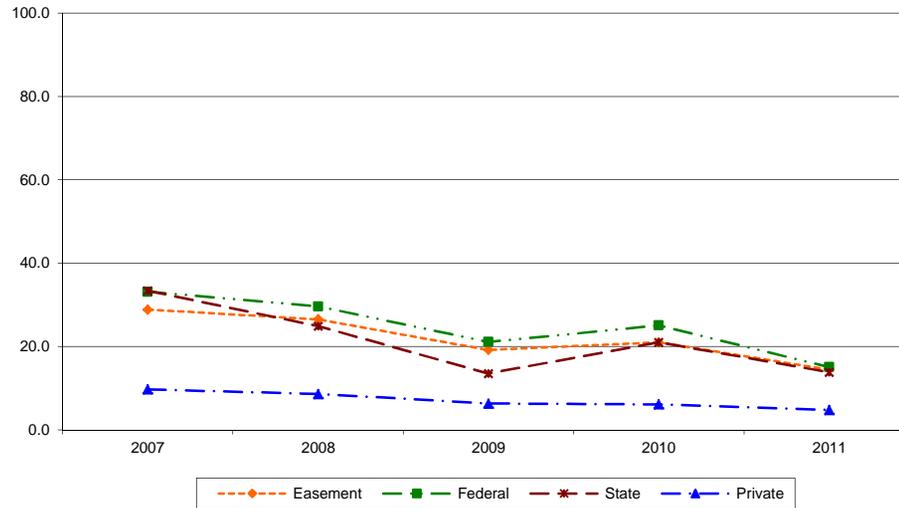


*DATA PRESENTED ARE FROM REPRESENTATIVE 4 SQ. MILE PLOTS IN THE TRANSITION ZONE ONLY.

**PRIVATE OWNERSHIP CATEGORY ALSO INCLUDES OTHER NGO CONSERVATION OWNERSHIPS.

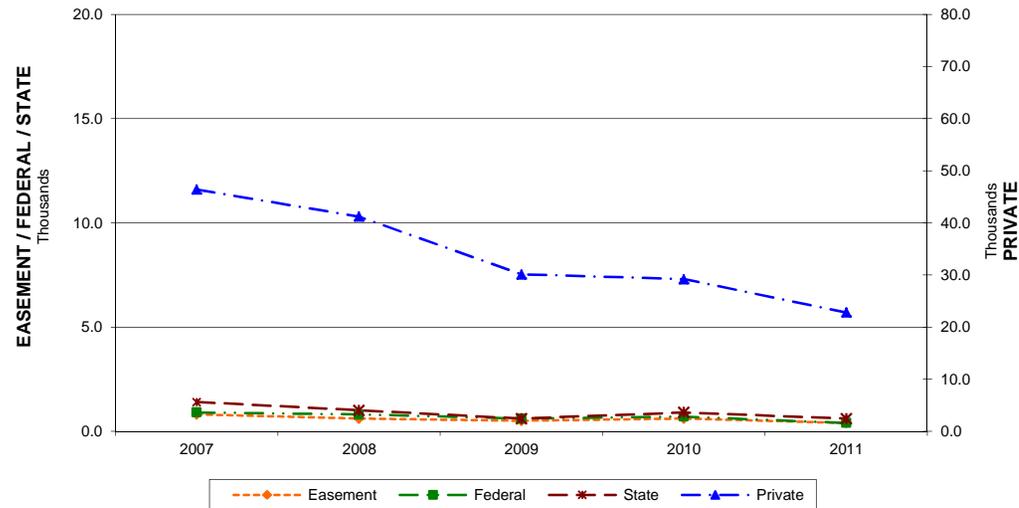
***EASEMENT, FEDERAL AND STATE CATEGORIES ARE BASED ON SAMPLE PLOTS WHERE A MINIMUM OF 160 ACRES ARE IN FEDERAL OR STATE OWNERSHIP.

ESTIMATED PAIRS / SQ. MILE BY OWNERSHIP 13 SPECIES* LITCHFIELD TRANSITION ZONE AREA



DATA VALUES ARE FOR THE TRANSITION ZONE ONLY
 *DATA VALUES ARE FOR 13 SPECIES (MALLARD, GADWALL, BLUE-WINGED TEAL, SHOVELER, PINTAIL, WIGEON, GREEN-WINGED TEAL, WOODDUCK, REDHEAD, CANVASBACK, L. SCAUP, RINGNECK, RUDDY DUCK)

ESTIMATED PAIRS BY OWNERSHIP 13 SPECIES* LITCHFIELD TRANSITION ZONE AREA



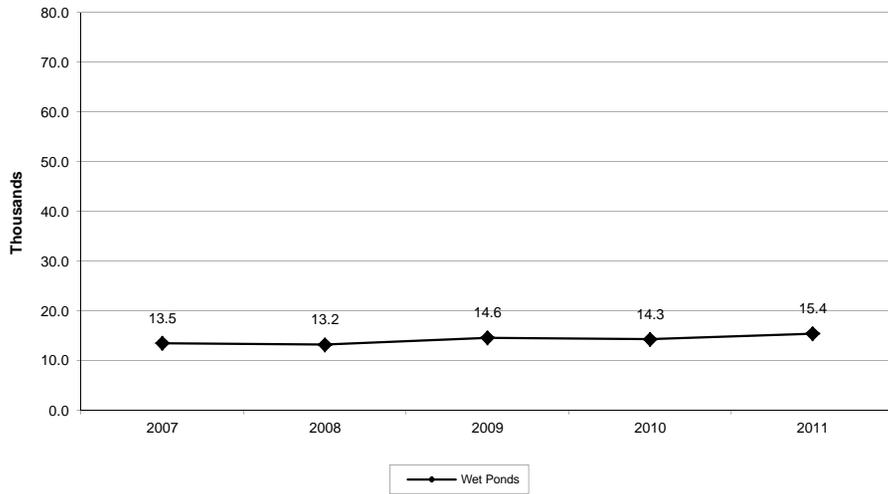
DATA VALUES ARE FOR THE TRANSITION ZONE ONLY
 *DATA VALUES ARE FOR 13 SPECIES (MALLARD, GADWALL, BLUE-WINGED TEAL, SHOVELER, PINTAIL, WIGEON, GREEN-WINGED TEAL, WOODDUCK, REDHEAD, CANVASBACK, L. SCAUP, RINGNECK, RUDDY DUCK)

**TRANSITION ZONE
OF THE
MINNESOTA VALLEY
WETLAND MANAGEMENT DISTRICT**

[Click to return to Subsection Index](#)

NUMBER OF WET PONDS

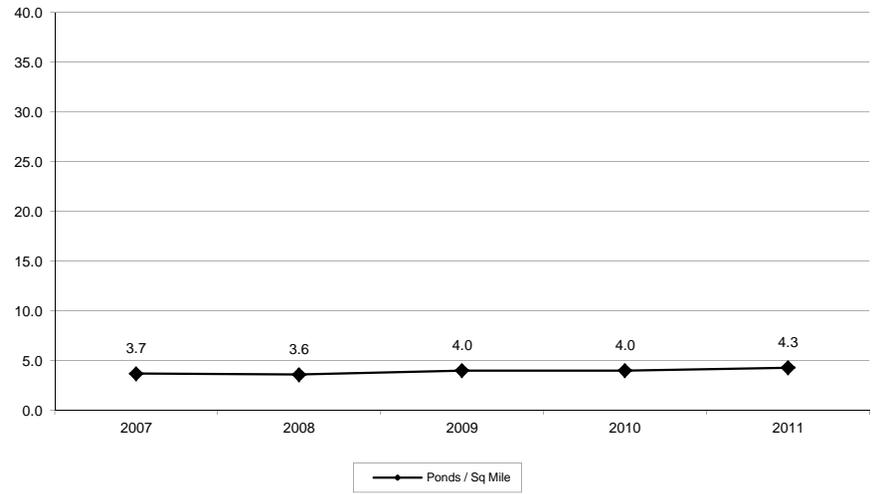
MINNESOTA VALLEY TRANSITION ZONE AREA



DATA VALUES ARE FOR THE TRANSITION ZONE ONLY

PONDS / SQ MILE

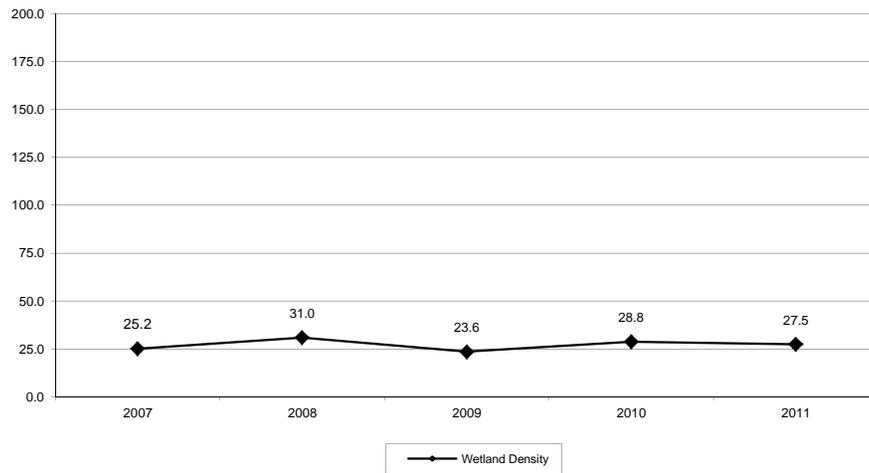
MINNESOTA VALLEY TRANSITION ZONE AREA



DATA VALUES ARE FOR THE TRANSITION ZONE ONLY

WETLAND DENSITY*

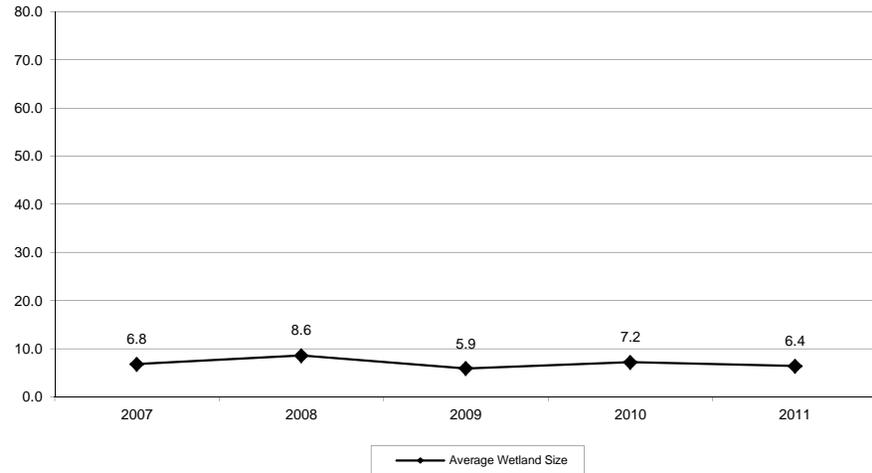
MINNESOTA VALLEY TRANSITION ZONE AREA



DATA VALUES ARE FOR THE TRANSITION ZONE ONLY
*WETLAND ACRES / SQ MILE

AVERAGE WETLAND SIZE*

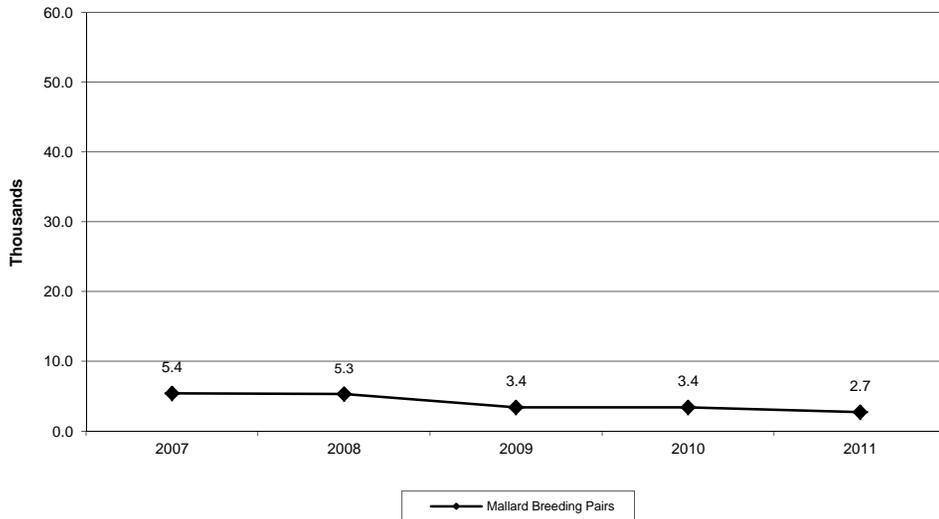
MINNESOTA VALLEY TRANSITION ZONE AREA



DATA VALUES ARE FOR THE TRANSITION ZONE ONLY
*ACRES

MALLARD BREEDING PAIRS

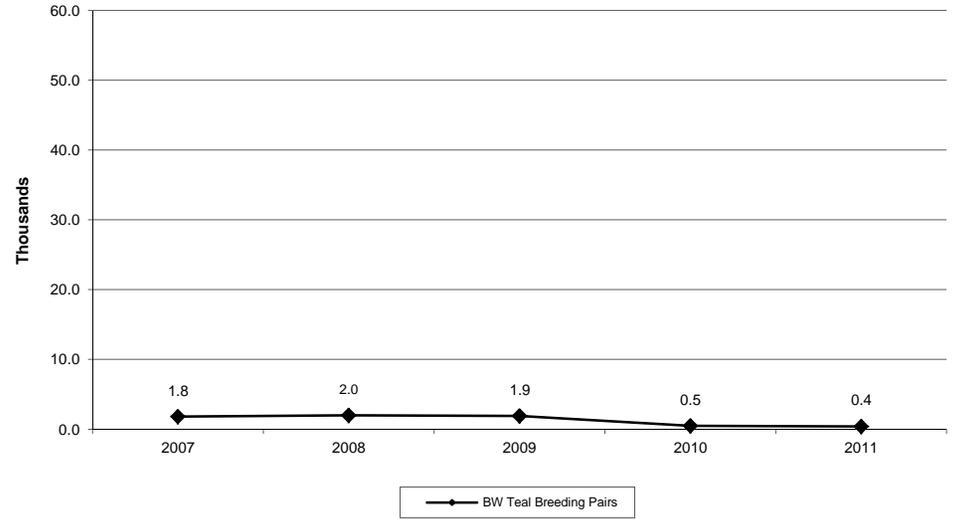
MINNESOTA VALLEY TRANSITION ZONE AREA



DATA VALUES ARE FOR THE TRANSITION ZONE ONLY

BW TEAL BREEDING PAIRS

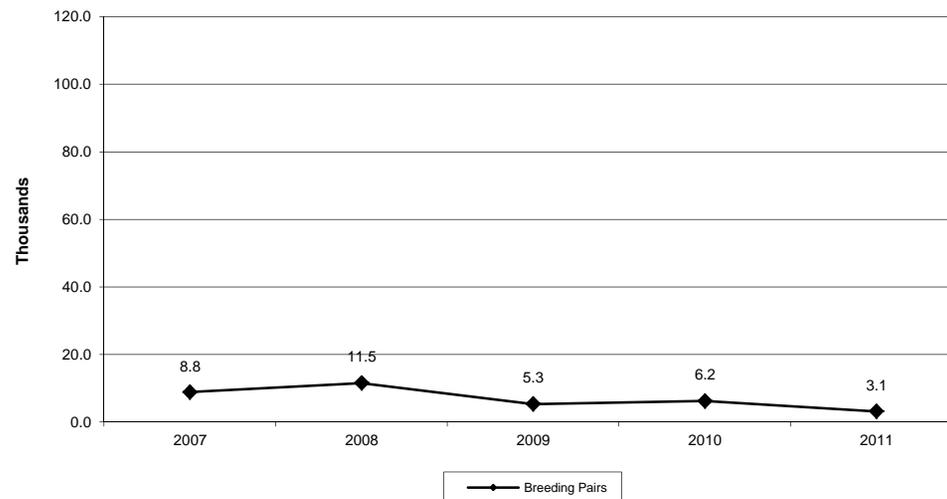
MINNESOTA VALLEY TRANSITION ZONE AREA



DATA VALUES ARE FOR THE TRANSITION ZONE ONLY

BREEDING PAIRS ALL SPECIES*

MINNESOTA VALLEY TRANSITION ZONE AREA

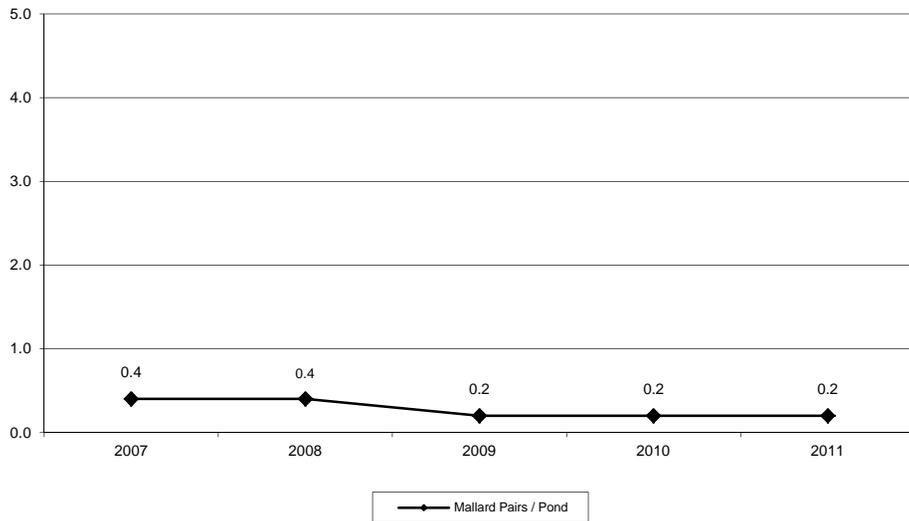


DATA VALUES ARE FOR THE TRANSITION ZONE ONLY

*DATA VALUES ARE FOR 13 SPECIES (MALLARD, GADWALL, BLUE-WINGED TEAL, SHOVELER, PINTAIL, WIGEON, GREEN-WINGED TEAL, WOODDUCK, REDHEAD, CANVASBACK, L. SCAUP, RINGNECK, RUDDY DUCK)

MALLARD PAIRS / POND

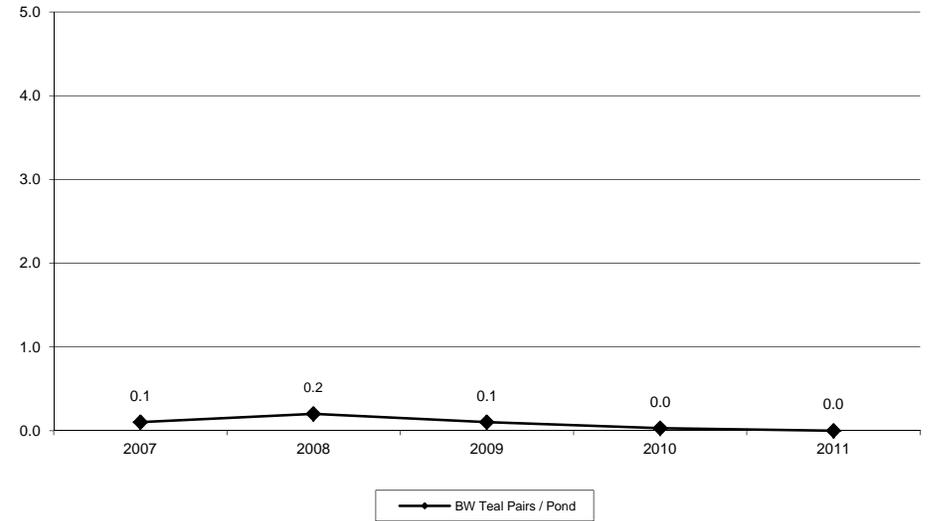
MINNESOTA VALLEY TRANSITION ZONE AREA



DATA VALUES ARE FOR THE TRANSITION ZONE ONLY

BW TEAL PAIRS / POND

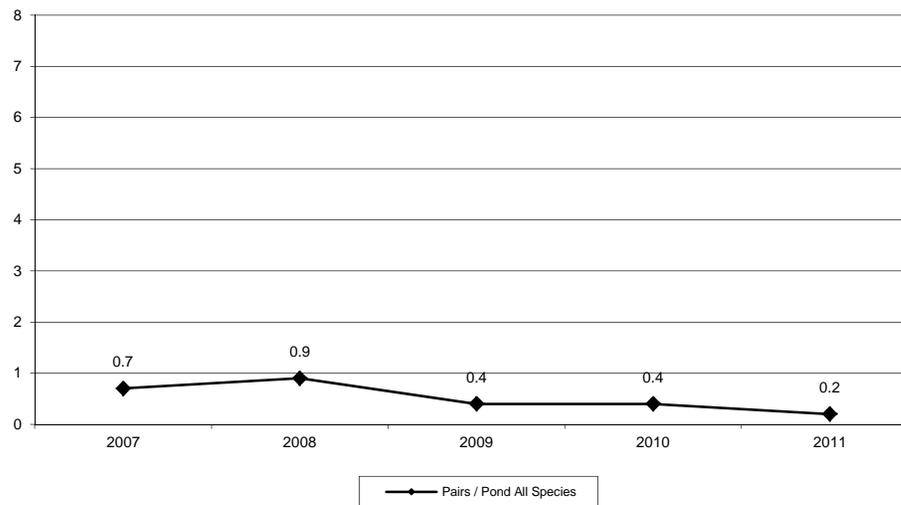
MINNESOTA VALLEY TRANSITION ZONE AREA



DATA VALUES ARE FOR THE TRANSITION ZONE ONLY

PAIRS / POND ALL SPECIES*

MINNESOTA VALLEY TRANSITION ZONE AREA

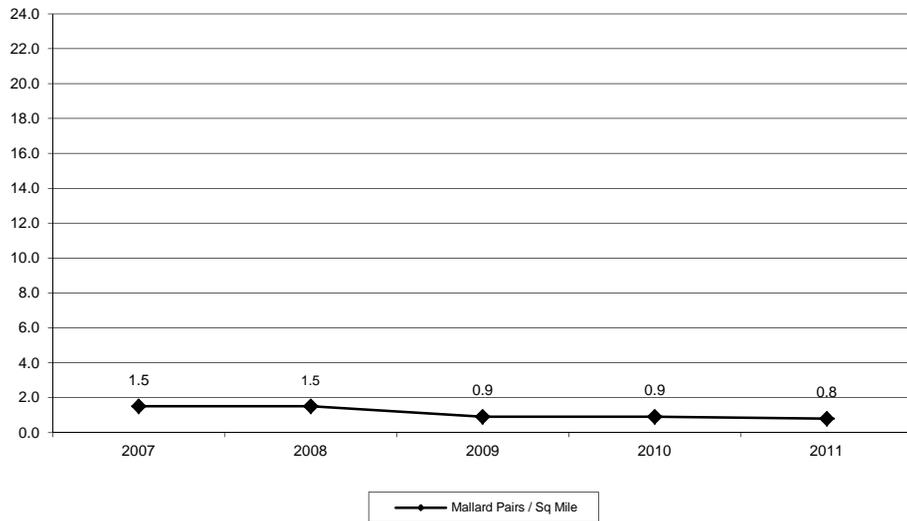


DATA VALUES ARE FOR THE TRANSITION ZONE ONLY

*DATA VALUES ARE FOR 13 SPECIES (MALLARD, GADWALL, BLUE-WINGED TEAL, SHOVELER, PINTAIL, WIGEON, GREEN-WINGED TEAL, WOODDUCK, REDHEAD, CANVASBACK, L. SCAUP, RINGNECK, RUDDY DUCK)

MALLARD PAIRS / SQ MILE

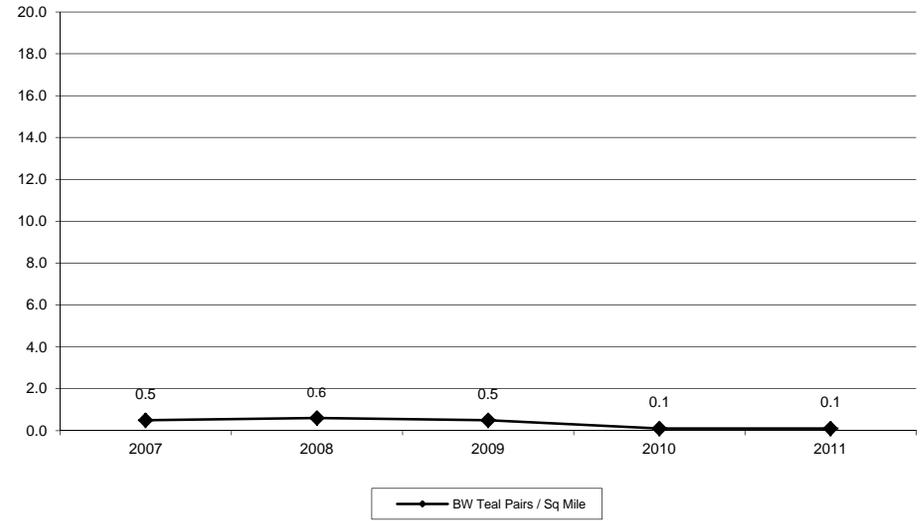
MINNESOTA VALLEY TRANSITION ZONE AREA



DATA VALUES ARE FOR THE TRANSITION ZONE ONLY

BW TEAL PAIRS / SQ MILE

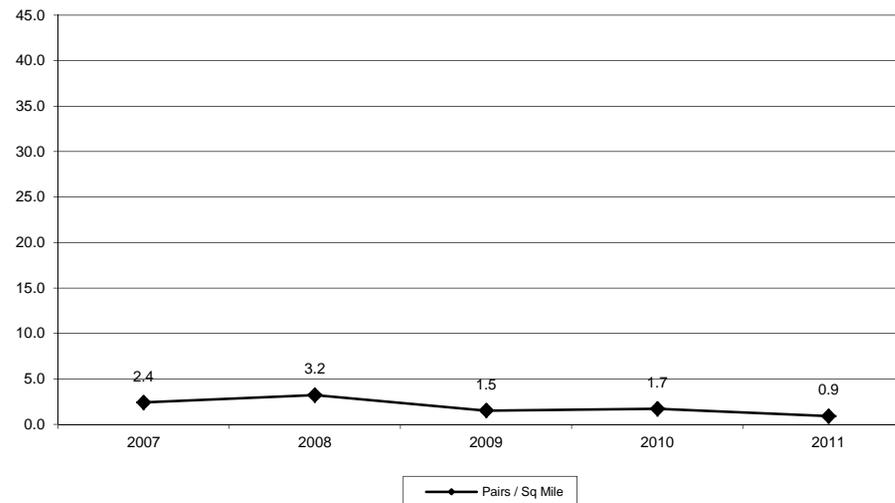
MINNESOTA VALLEY TRANSITION ZONE AREA



DATA VALUES ARE FOR THE TRANSITION ZONE ONLY

PAIRS / SQ MILE ALL SPECIES*

MINNESOTA VALLEY TRANSITION ZONE AREA

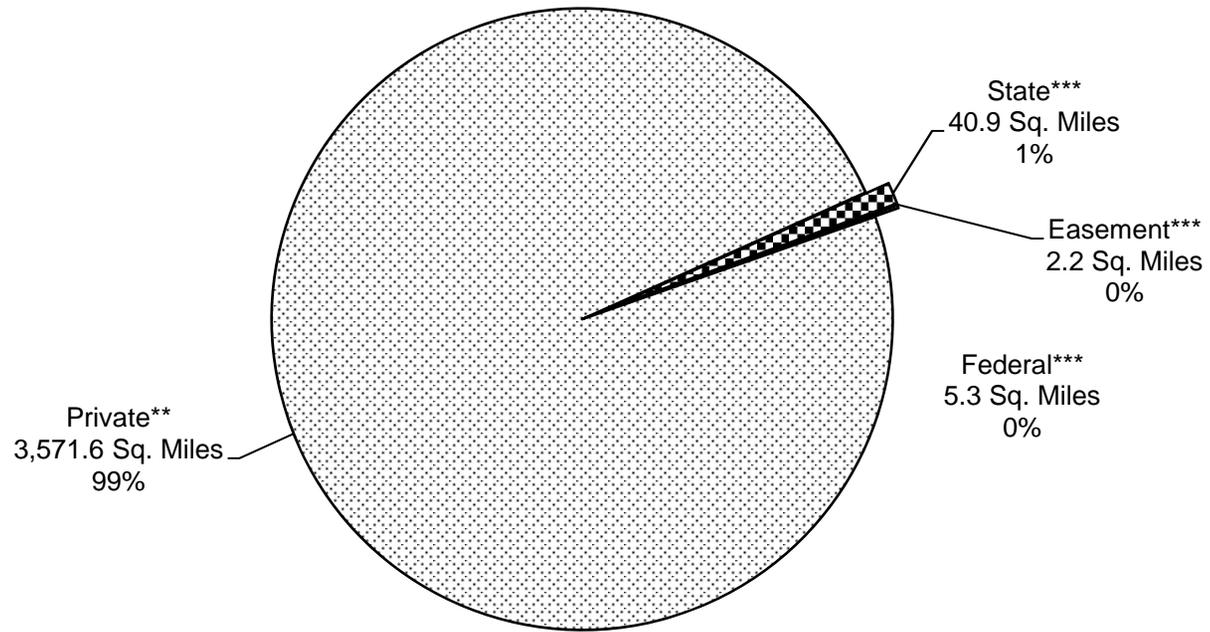


DATA VALUES ARE FOR THE TRANSITION ZONE ONLY

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OWNERSHIP COMPOSITION*

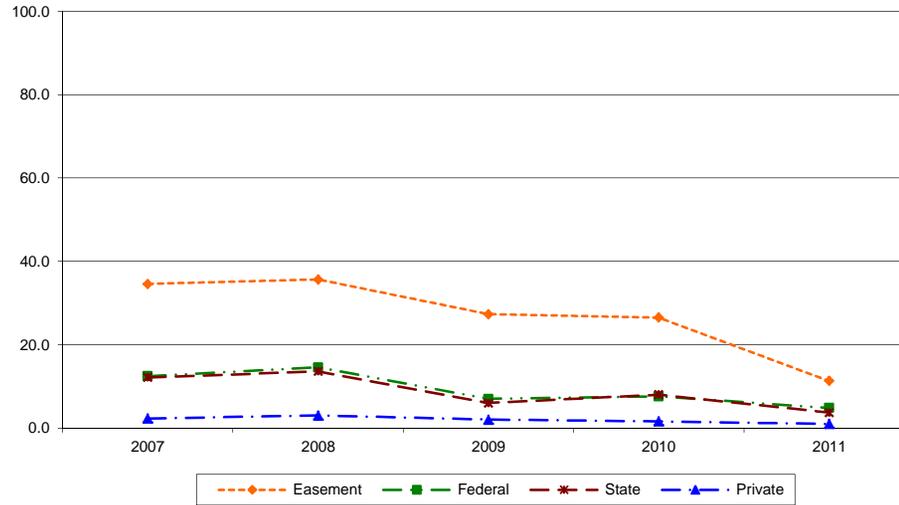
MINNESOTA VALLEY TRANSITION ZONE AREA



*DATA PRESENTED ARE FROM REPRESENTATIVE 4 SQ. MILE PLOTS IN THE TRANSITION ZONE ONLY.
**PRIVATE OWNERSHIP CATEGORY ALSO INCLUDES OTHER NGO CONSERVATION OWNERSHIPS.
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ESTIMATED PAIRS / SQ. MILE BY OWNERSHIP

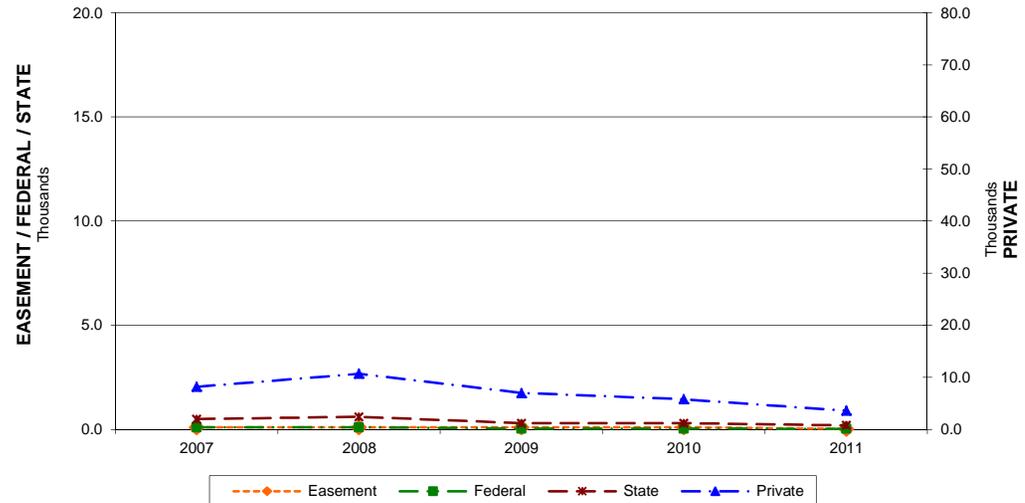
13 SPECIES*
MINNESOTA VALLEY TRANSITION ZONE AREA



DATA VALUES ARE FOR THE TRANSITION ZONE ONLY
 *DATA VALUES ARE FOR 13 SPECIES (MALLARD, GADWALL, BLUE-WINGED TEAL, SHOVELER, PINTAIL, WIGEON, GREEN-WINGED TEAL, WOODDUCK, REDHEAD, CANVASBACK, L. SCAUP, RINGNECK, RUDDY DUCK)

ESTIMATED PAIRS BY OWNERSHIP

13 SPECIES*
MINNESOTA VALLEY TRANSITION ZONE AREA



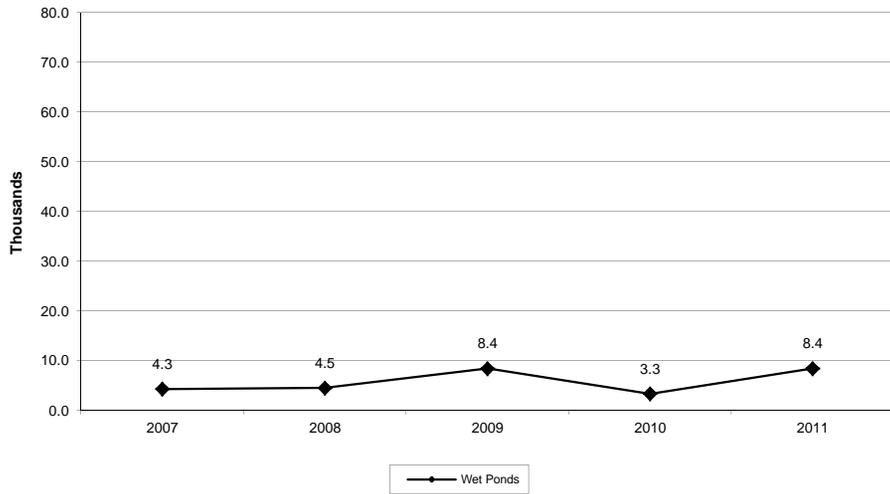
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**TRANSITION ZONE
OF THE
ROSEAU
WETLAND MANAGEMENT DISTRICT**

[Click to return to Subsection Index](#)

NUMBER OF WET PONDS

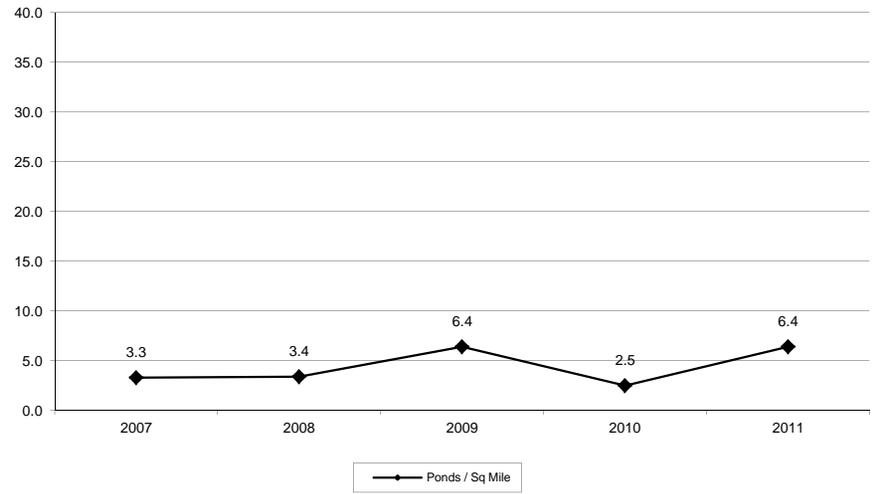
ROSEAU TRANSITION ZONE AREA



DATA VALUES ARE FOR THE TRANSITION ZONE ONLY

PONDS / SQ MILE

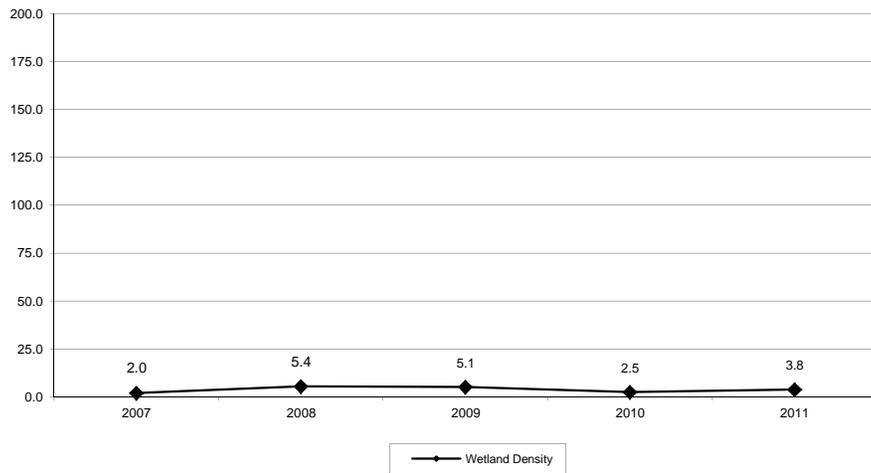
ROSEAU TRANSITION ZONE AREA



DATA VALUES ARE FOR THE TRANSITION ZONE ONLY

WETLAND DENSITY*

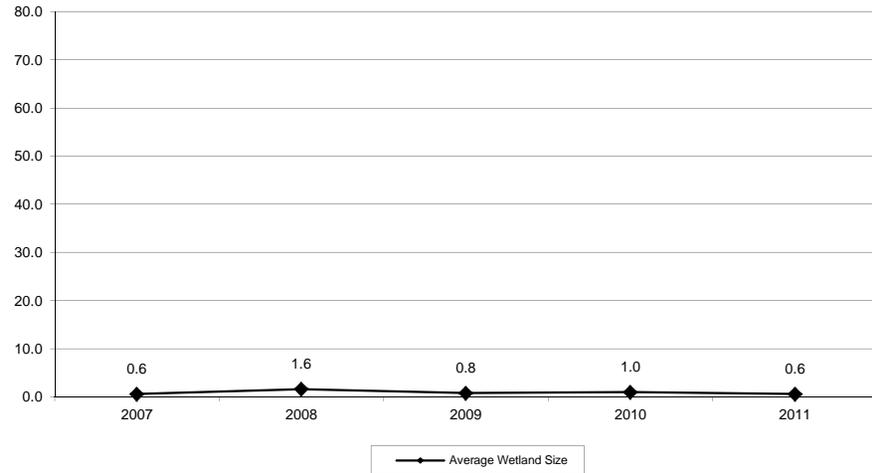
ROSEAU TRANSITION ZONE AREA



DATA VALUES ARE FOR THE TRANSITION ZONE ONLY
*WETLAND ACRES / SQ MILE

AVERAGE WETLAND SIZE*

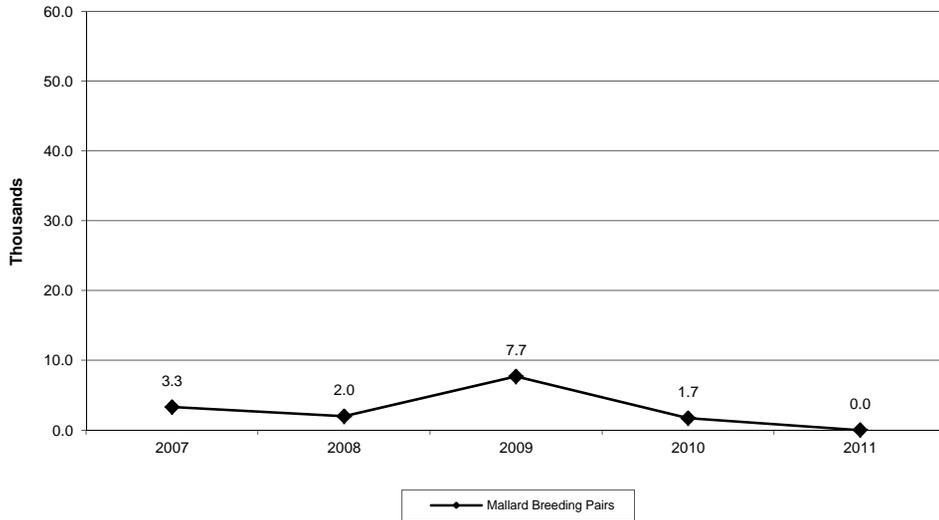
ROSEAU TRANSITION ZONE AREA



DATA VALUES ARE FOR THE TRANSITION ZONE ONLY
*ACRES

MALLARD BREEDING PAIRS

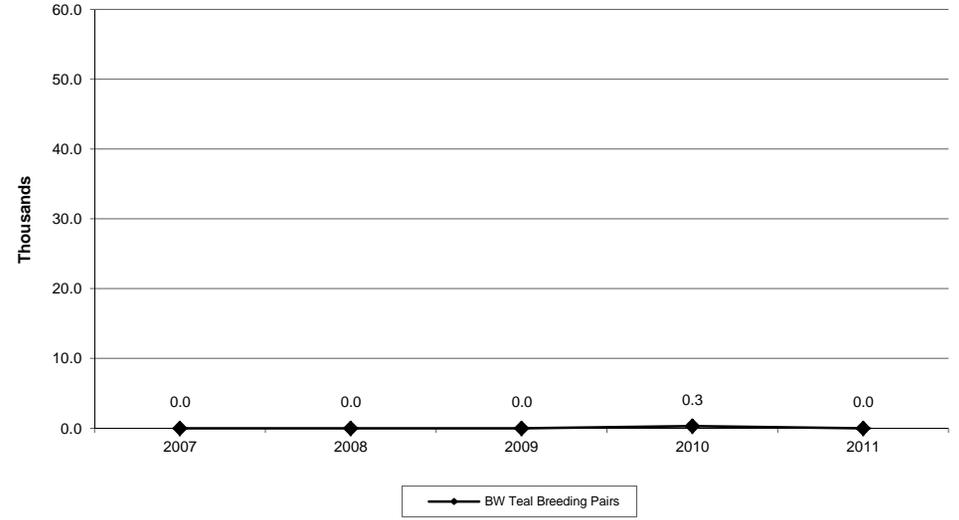
ROSEAU TRANSITION ZONE AREA



DATA VALUES ARE FOR THE TRANSITION ZONE ONLY

BW TEAL BREEDING PAIRS

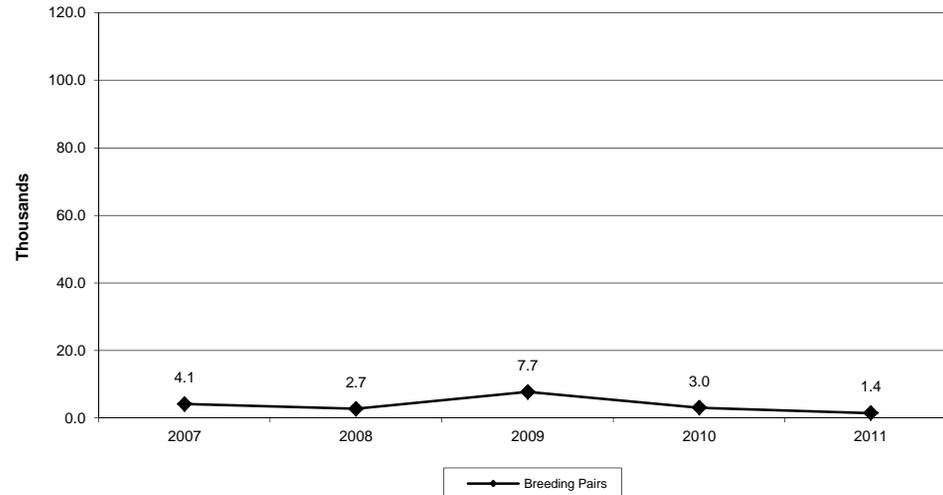
ROSEAU TRANSITION ZONE AREA



DATA VALUES ARE FOR THE TRANSITION ZONE ONLY

BREEDING PAIRS ALL SPECIES*

ROSEAU TRANSITION ZONE AREA

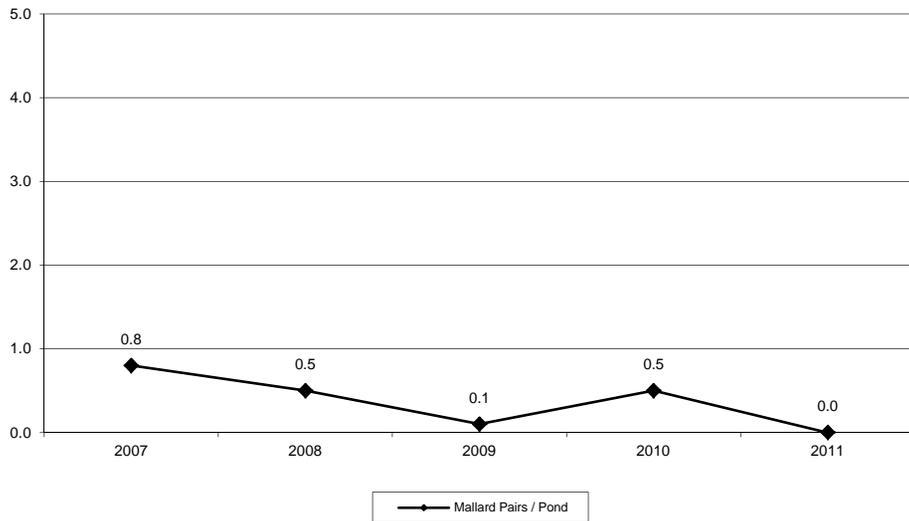


DATA VALUES ARE FOR THE TRANSITION ZONE ONLY

*DATA VALUES ARE FOR 13 SPECIES (MALLARD, GADWALL, BLUE-WINGED TEAL, SHOVELER, PINTAIL, WIGEON, GREEN-WINGED TEAL, WOODDUCK, REDHEAD, CANVASBACK, L. SCAUP, RINGNECK, RUDDY DUCK)

MALLARD PAIRS / POND

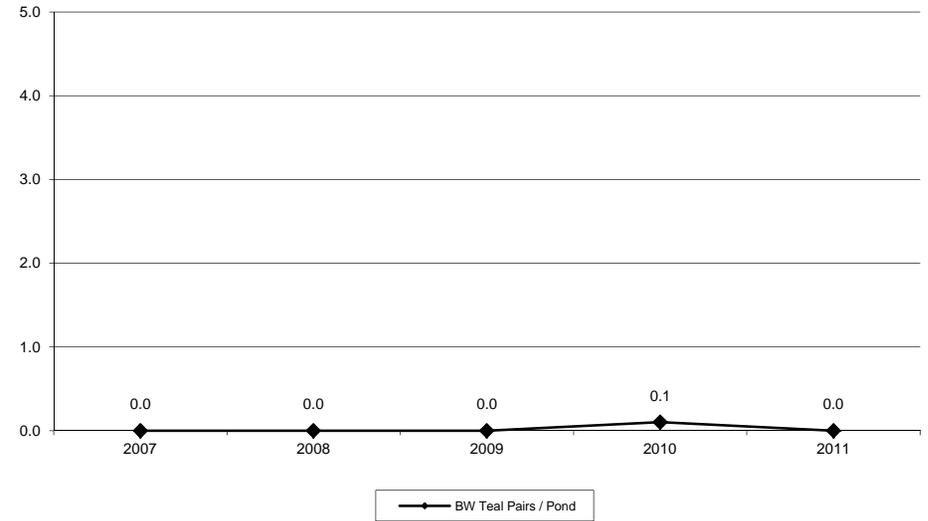
ROSEAU TRANSITION ZONE AREA



DATA VALUES ARE FOR THE TRANSITION ZONE ONLY

BW TEAL PAIRS / POND

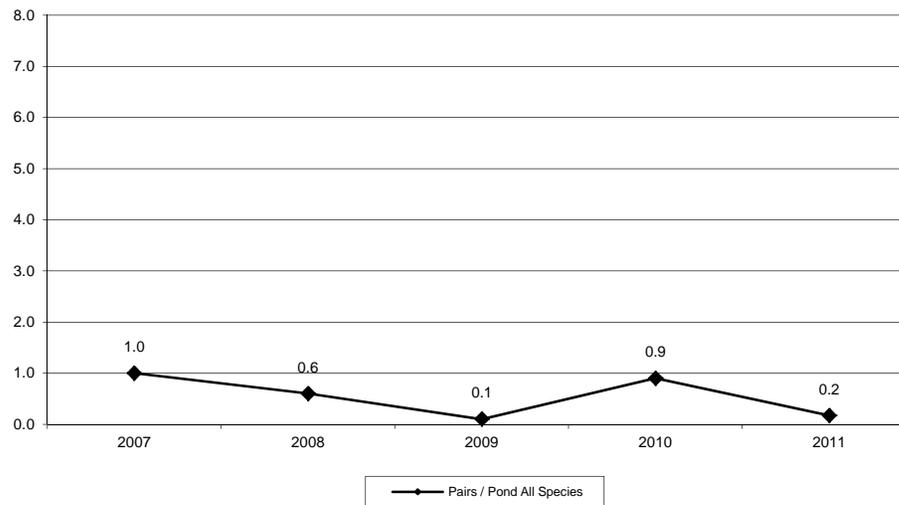
ROSEAU TRANSITION ZONE AREA



DATA VALUES ARE FOR THE TRANSITION ZONE ONLY

PAIRS / POND ALL SPECIES*

ROSEAU TRANSITION ZONE AREA

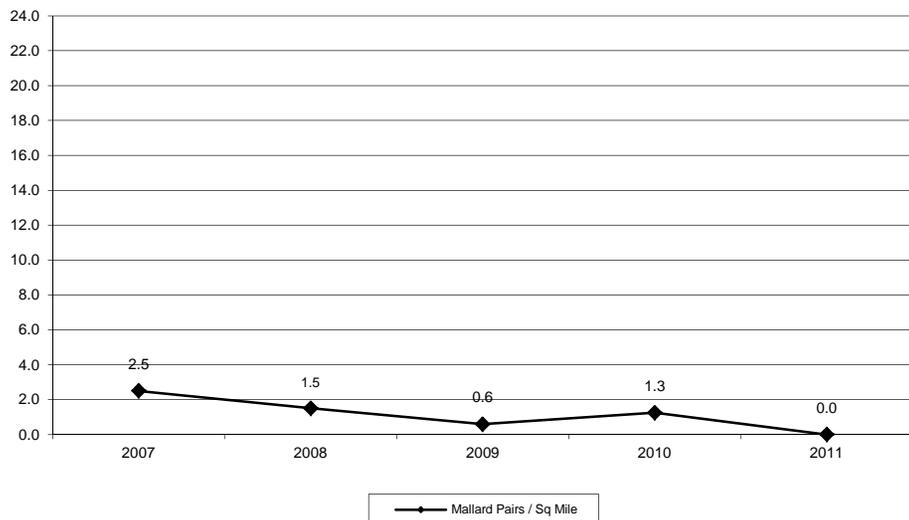


DATA VALUES ARE FOR THE TRANSITION ZONE AREA ONLY

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MALLARD PAIRS / SQ MILE

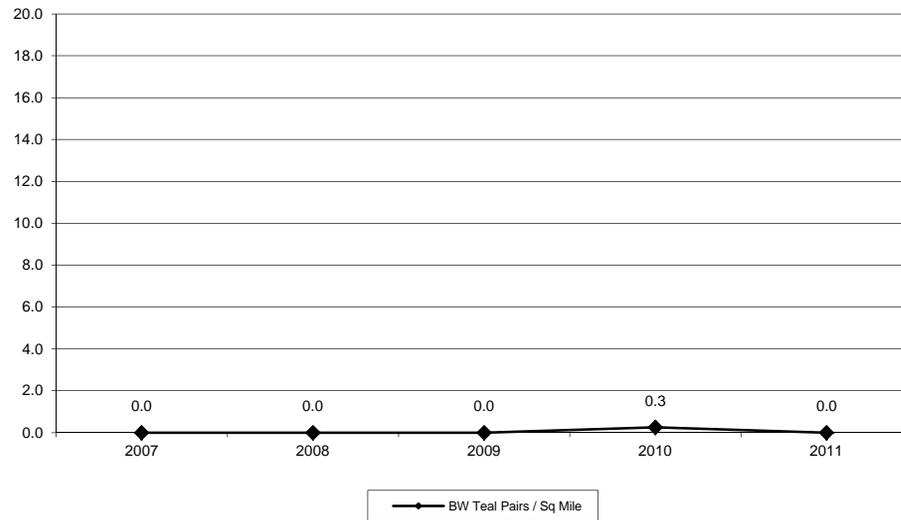
ROSEAU TRANSITION ZONE AREA



DATA VALUES ARE FOR THE TRANSITION ZONE ONLY

BW TEAL PAIRS / SQ MILE

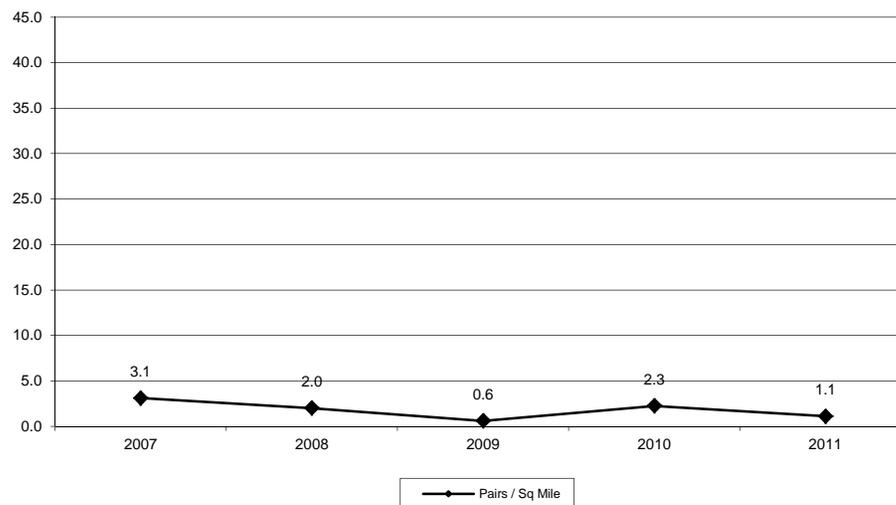
ROSEAU TRANSITION ZONE AREA



DATA VALUES ARE FOR THE TRANSITION ZONE ONLY

PAIRS / SQ MILE ALL SPECIES*

ROSEAU TRANSITION ZONE AREA

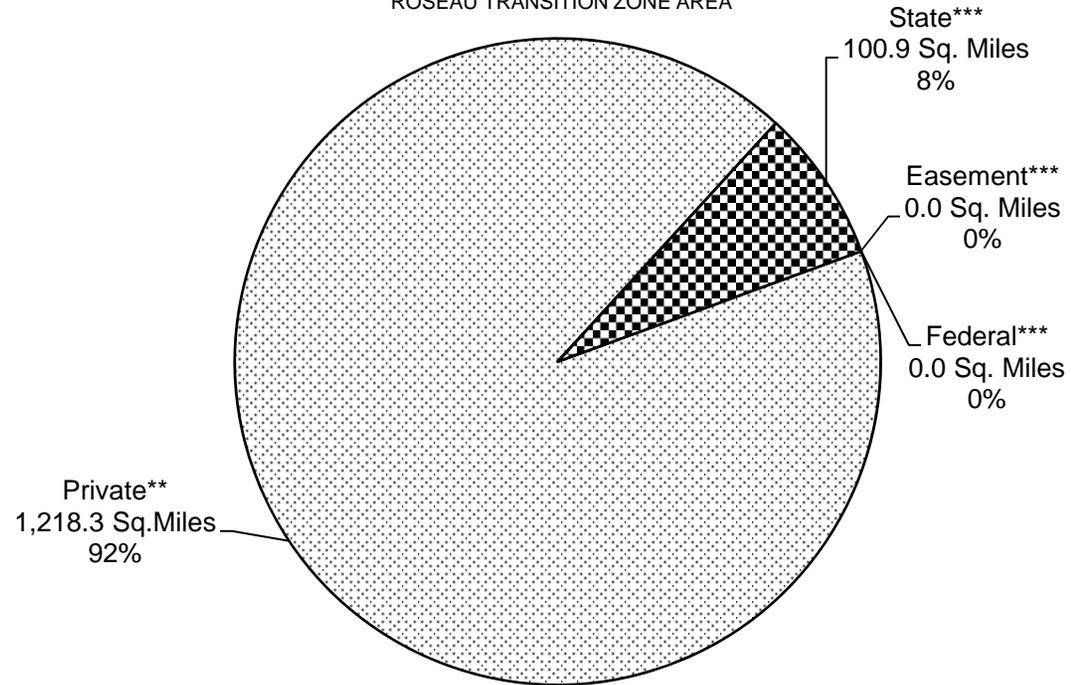


DATA VALUES ARE FOR THE TRANSITION ZONE ONLY

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OWNERSHIP COMPOSITION*

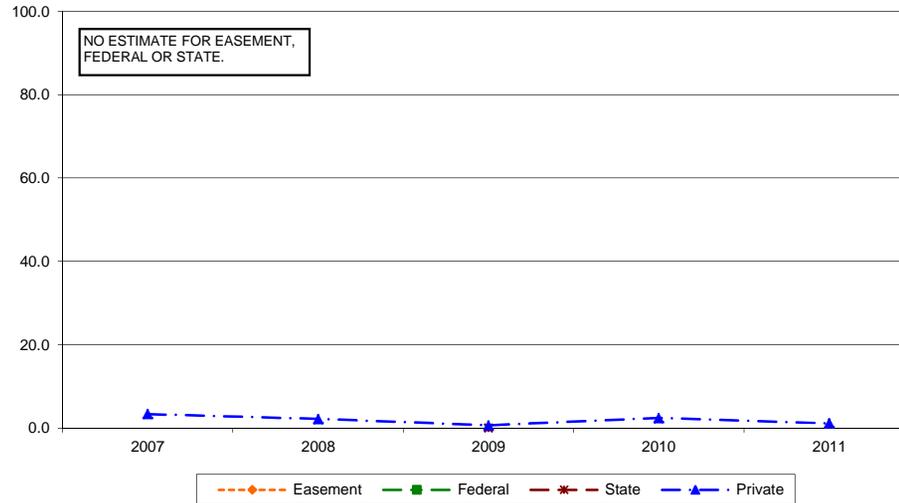
ROSEAU TRANSITION ZONE AREA



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ESTIMATED PAIRS / SQ. MILE BY OWNERSHIP

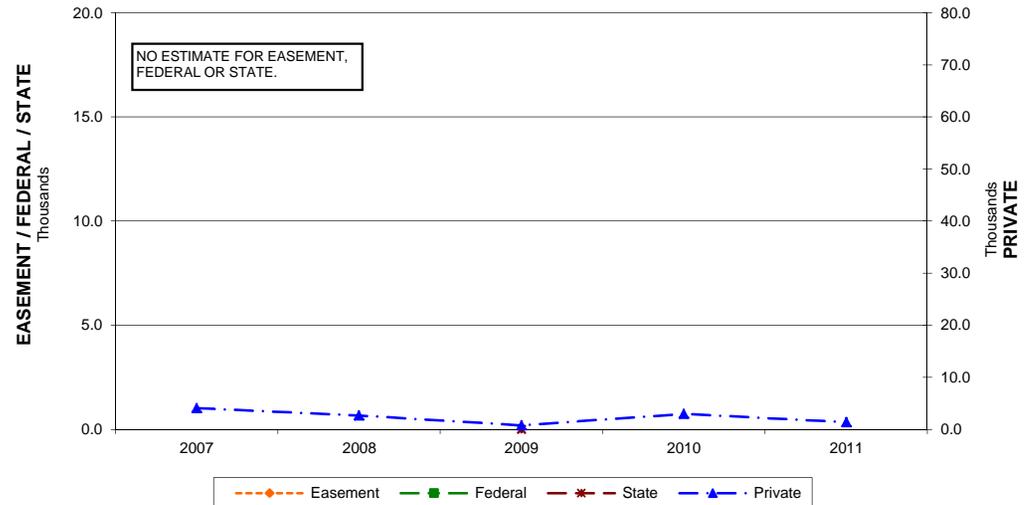
13 SPECIES*
ROSEAU TRANSITION ZONE AREA



DATA VALUES ARE FOR THE TRANSITION ZONE ONLY
*DATA VALUES ARE FOR 13 SPECIES (MALLARD, GADWALL, BLUE-WINGED TEAL, SHOVELER, PINTAIL, WIGEON, GREEN-WINGED TEAL, WOODDUCK, REDHEAD, CANVASBACK, L. SCAUP, RINGNECK, RUDDY DUCK)

ESTIMATED PAIRS BY OWNERSHIP

13 SPECIES*
ROSEAU TRANSITION ZONE AREA

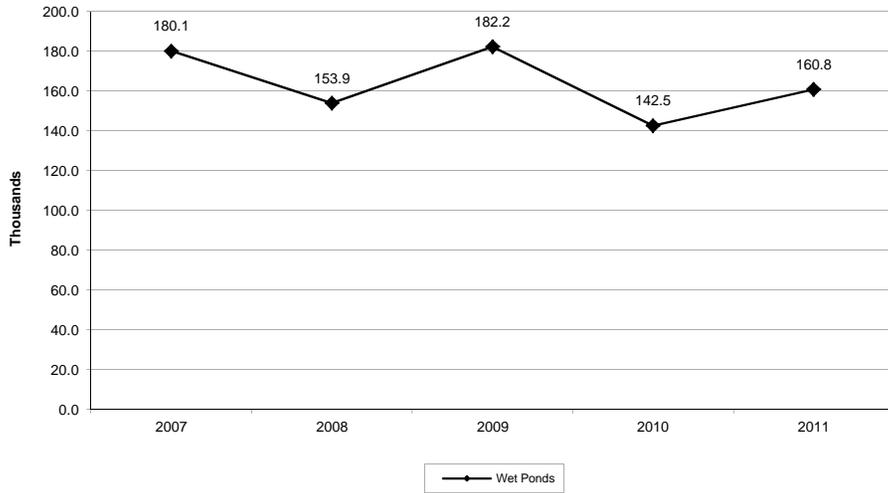


DATA VALUES ARE FOR THE TRANSITION ZONE ONLY
*DATA VALUES ARE FOR 13 SPECIES (MALLARD, GADWALL, BLUE-WINGED TEAL, SHOVELER, PINTAIL, WIGEON, GREEN-WINGED TEAL, WOODDUCK, REDHEAD, CANVASBACK, L. SCAUP, RINGNECK, RUDDY DUCK)

MINNESOTA TRANSITION ZONE

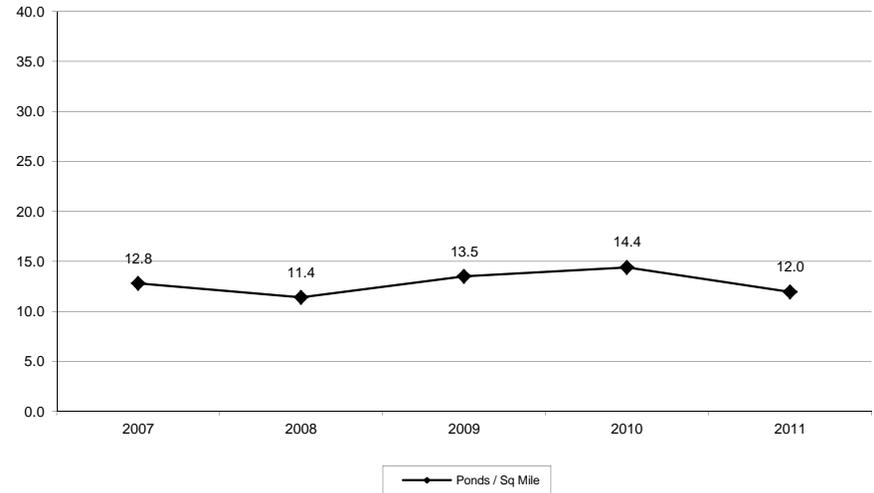
[Click to return to Subsection Index](#)

NUMBER OF WET PONDS MINNESOTA TRANSITION ZONE AREA



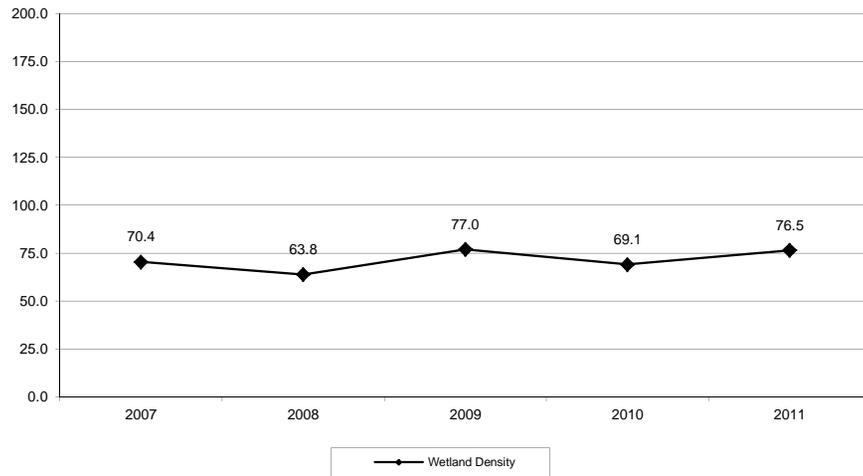
DATA VALUES ARE FOR THE TRANSION ZONE ONLY.

PONDS / SQ MILE MINNESOTA TRANSITION ZONE AREA



DATA VALUES ARE FOR THE TRANSION ZONE ONLY.

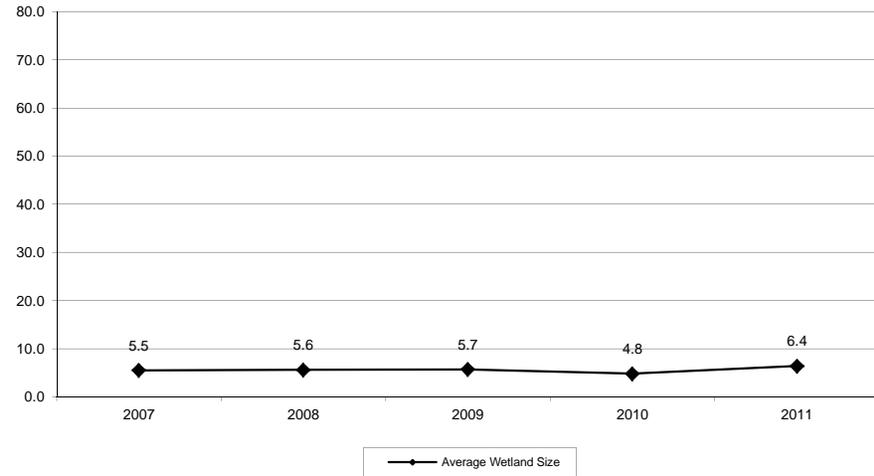
WETLAND DENSITY* MINNESOTA TRANSITION ZONE AREA



DATA VALUES ARE FOR THE TRANSION ZONE ONLY.

*WETLAND ACRES / SQ MILE

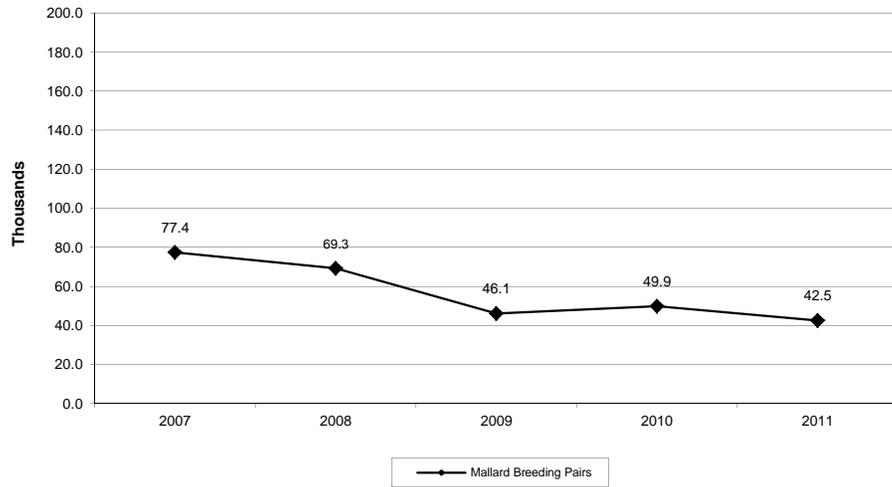
AVERAGE WETLAND SIZE* MINNESOTA TRANSITION ZONE AREA



DATA VALUES ARE FOR THE TRANSION ZONE ONLY.

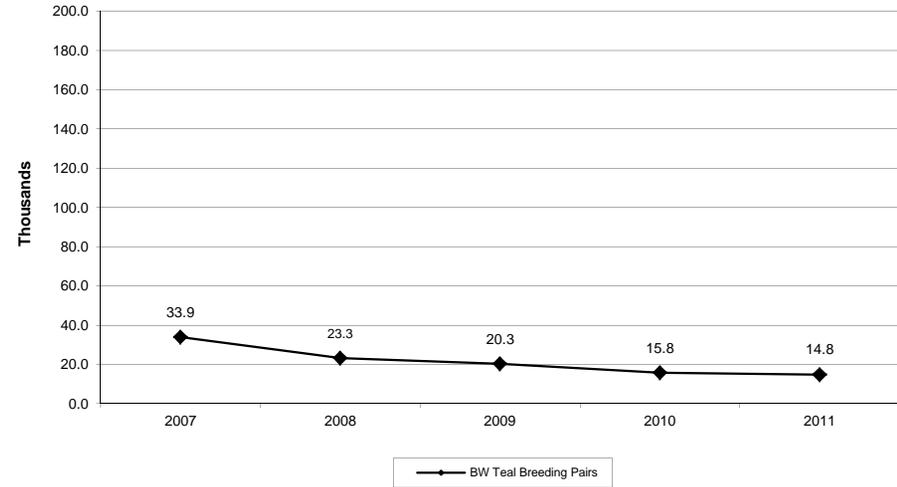
*ACRES

MALLARD BREEDING PAIRS MINNESOTA TRANSITION ZONE AREA



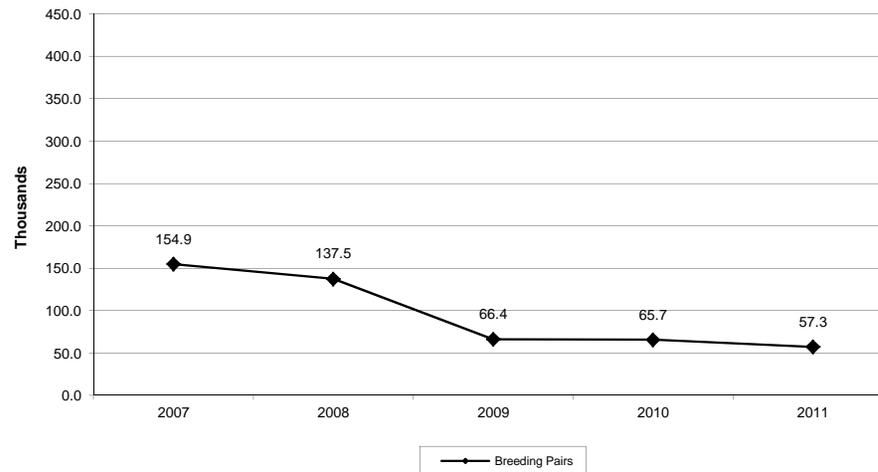
DATA VALUES ARE FOR THE TRANSION ZONE ONLY.

BW TEAL BREEDING PAIRS MINNESOTA TRANSITION ZONE AREA



DATA VALUES ARE FOR THE TRANSION ZONE ONLY.

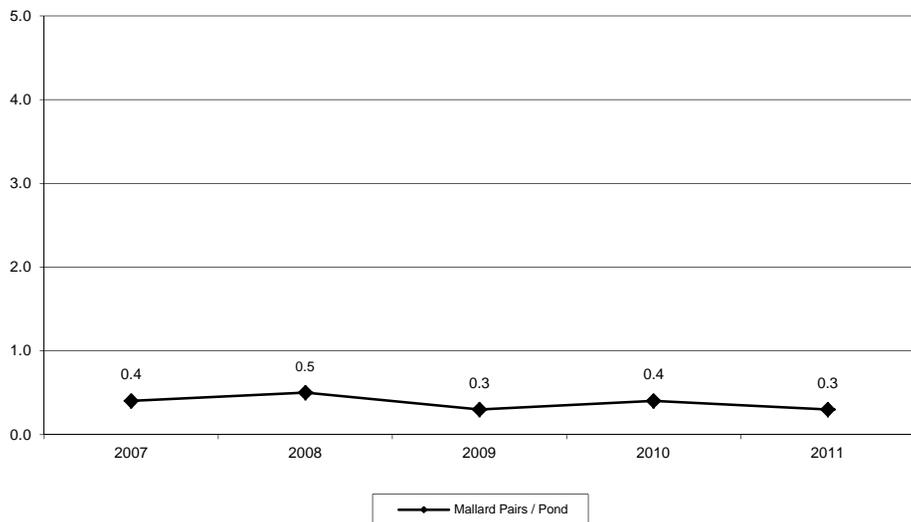
BREEDING PAIRS ALL SPECIES* MINNESOTA TRANSITION ZONE AREA



DATA VALUES ARE FOR THE TRANSION ZONE ONLY.

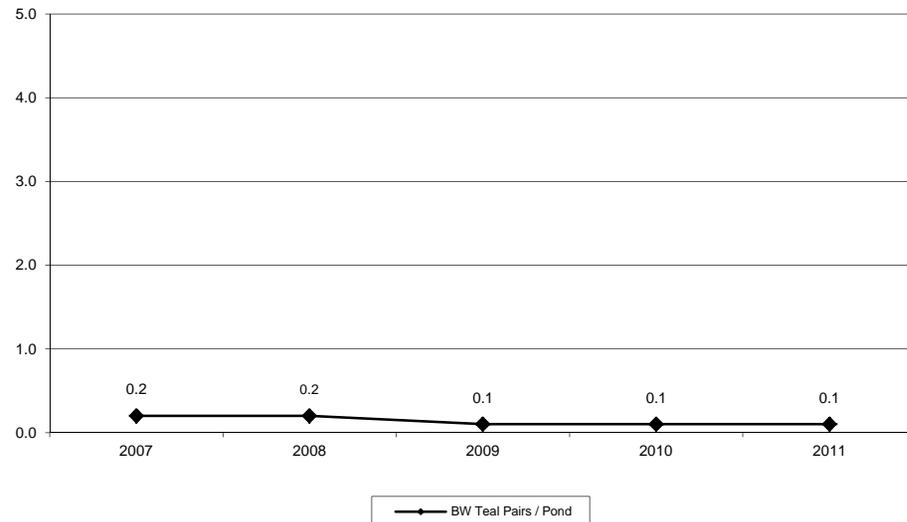
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MALLARD PAIRS / POND MINNESOTA TRANSITION ZONE AREA



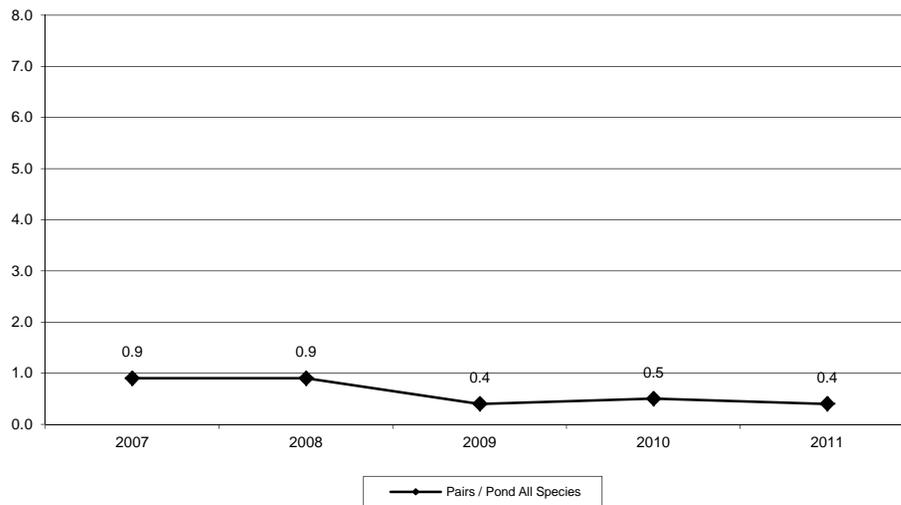
DATA VALUES ARE FOR THE TRANSION ZONE ONLY.

BW TEAL PAIRS / POND MINNESOTA TRANSITION ZONE AREA



DATA VALUES ARE FOR THE TRANSION ZONE ONLY.

PAIRS / POND ALL SPECIES* MINNESOTA TRANSITION ZONE AREA

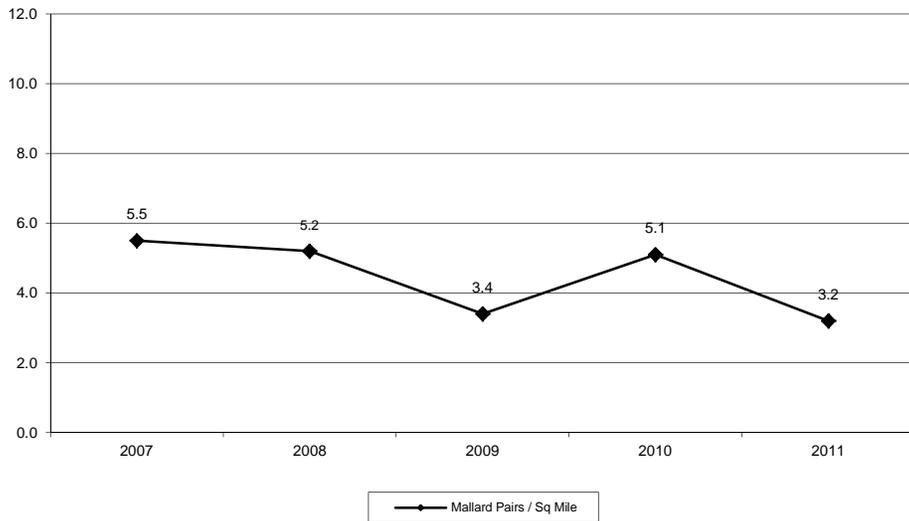


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MALLARD PAIRS / SQ MILE

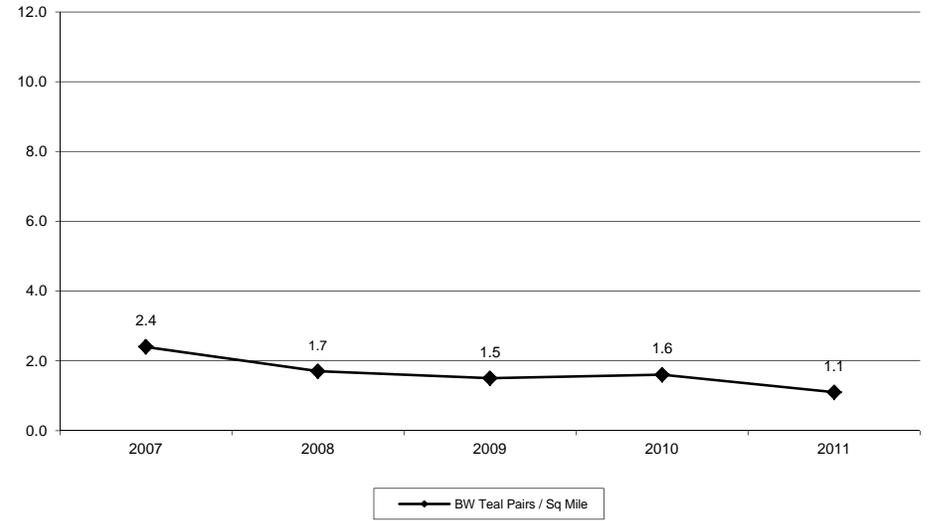
MINNESOTA TRANSITION ZONE AREA



DATA VALUES ARE FOR THE TRANSION ZONE ONLY.

BW TEAL PAIRS / SQ MILE

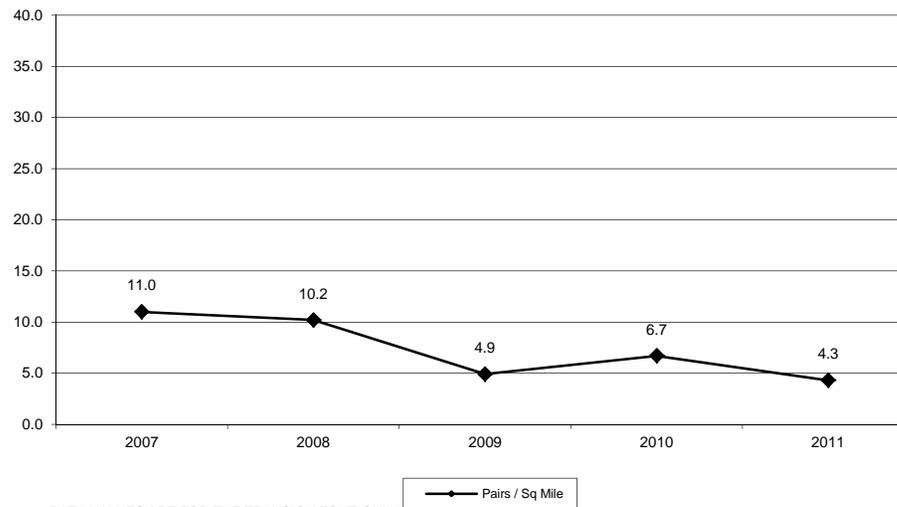
MINNESOTA TRANSITION ZONE AREA



DATA VALUES ARE FOR THE TRANSION ZONE ONLY.

PAIRS / SQ MILE ALL SPECIES*

MINNESOTA TRANSITION ZONE AREA

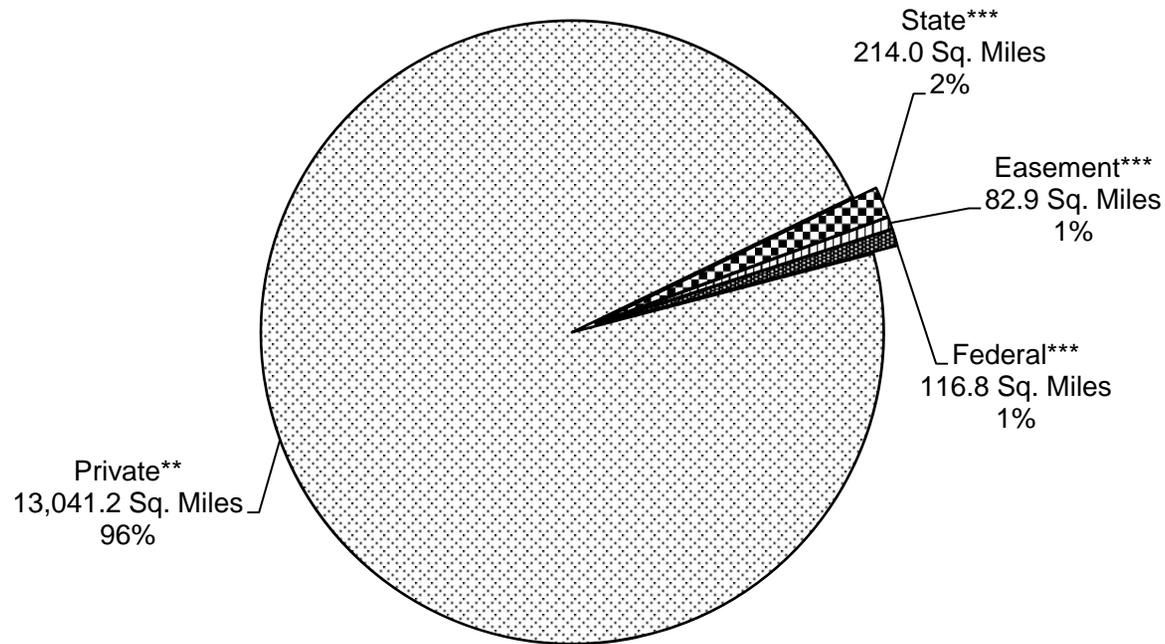


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OWNERSHIP COMPOSITION*

MINNESOTA TRANSITION ZONE AREA



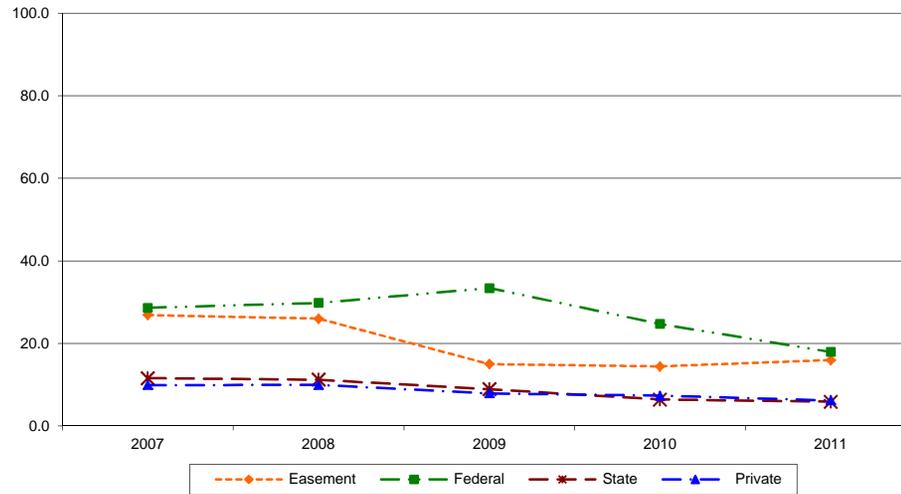
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ESTIMATED PAIRS / SQ. MILE BY OWNERSHIP

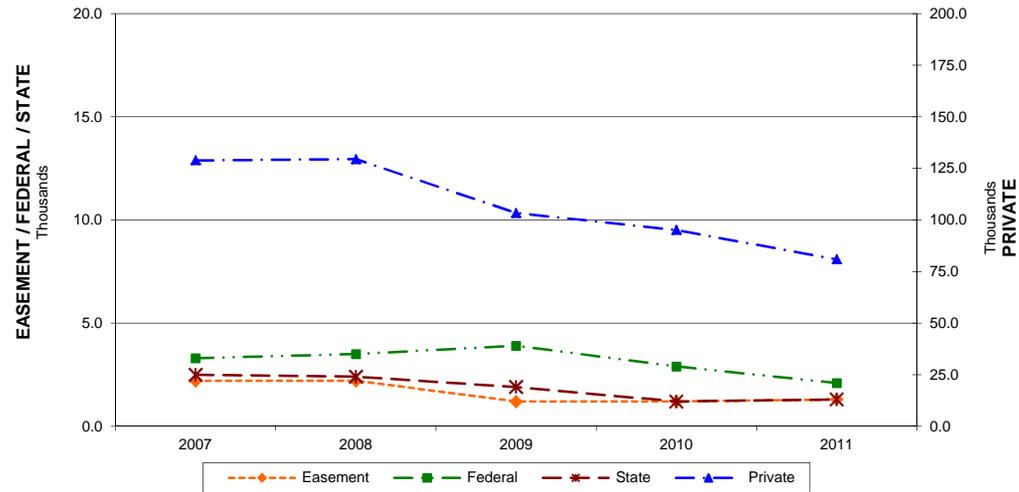
13 SPECIES*
MINNESOTA TRANSITION ZONE AREA



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ESTIMATED PAIRS BY OWNERSHIP

13 SPECIES*
MINNESOTA TRANSITION ZONE AREA



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SECTION INDEX

Iowa Northern Prairie Pothole Region*

*Each section contains nine pages presenting the following information:

Wetland data

Total breeding pair data

Pairs per pond

Pairs per square mile

Total recruit data

Recruits per square mile

Recruitment rate

Ownership composition

Pairs and recruits by ownership strata

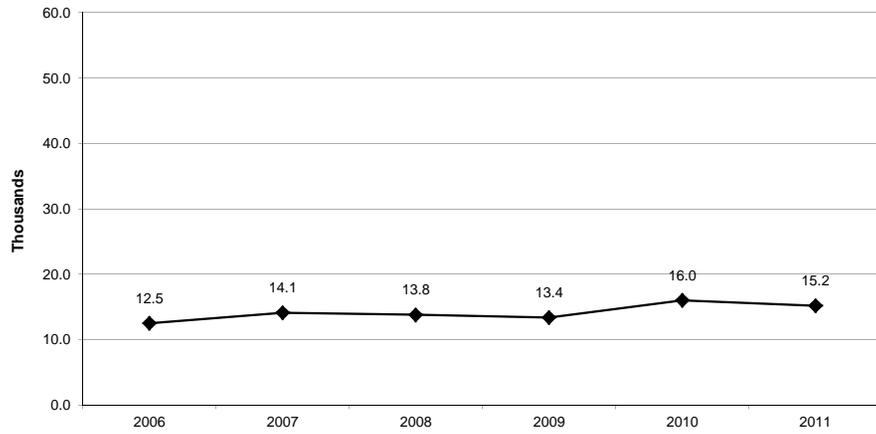
[Click to return to Main Index](#)

IOWA NORTHERN PRAIRIE POTHOLE REGION

[Click to return to Subsection Index](#)

NUMBER OF WET PONDS

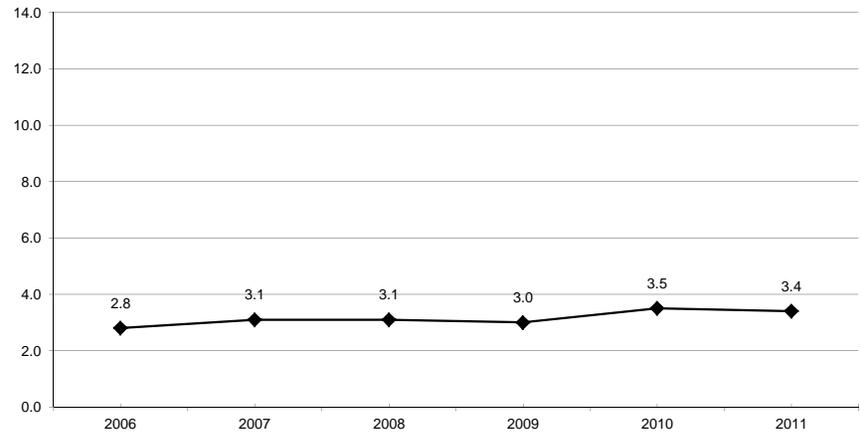
IOWA NORTHERN PRAIRIE POTHOLE REGION



DATA VALUES ARE FOR THE PRAIRIE POTHOLE REGION ONLY

PONDS / SQ MILE

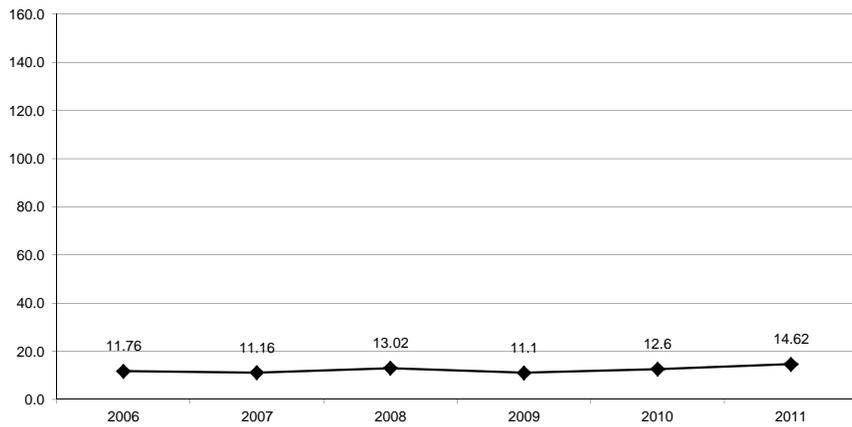
IOWA NORTHERN PRAIRIE POTHOLE REGION



DATA VALUES ARE FOR THE PRAIRIE POTHOLE REGION ONLY

WETLAND DENSITY*

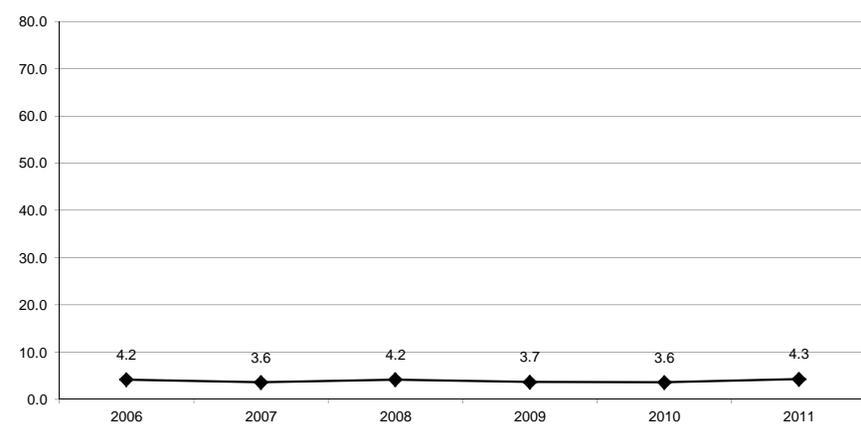
IOWA NORTHERN PRAIRIE POTHOLE REGION



DATA VALUES ARE FOR THE PRAIRIE POTHOLE REGION ONLY
*WETLAND ACRES / SQ MILE

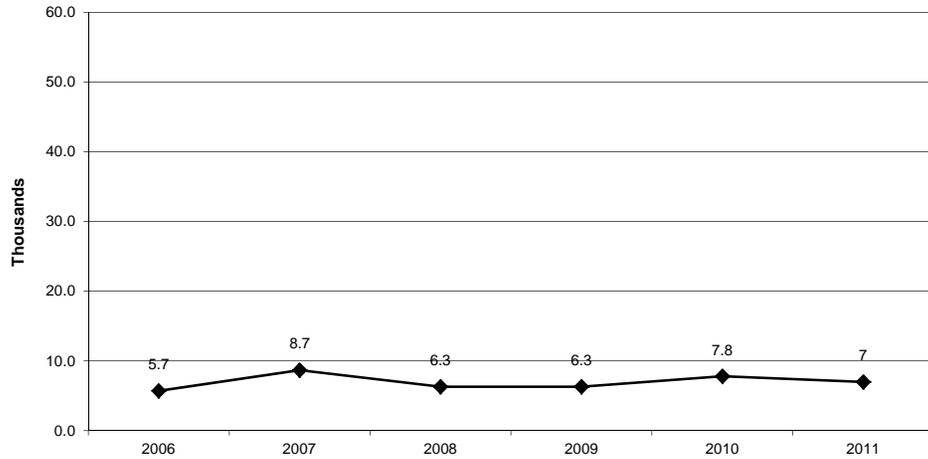
AVERAGE WETLAND SIZE*

IOWA NORTHERN PRAIRIE POTHOLE REGION



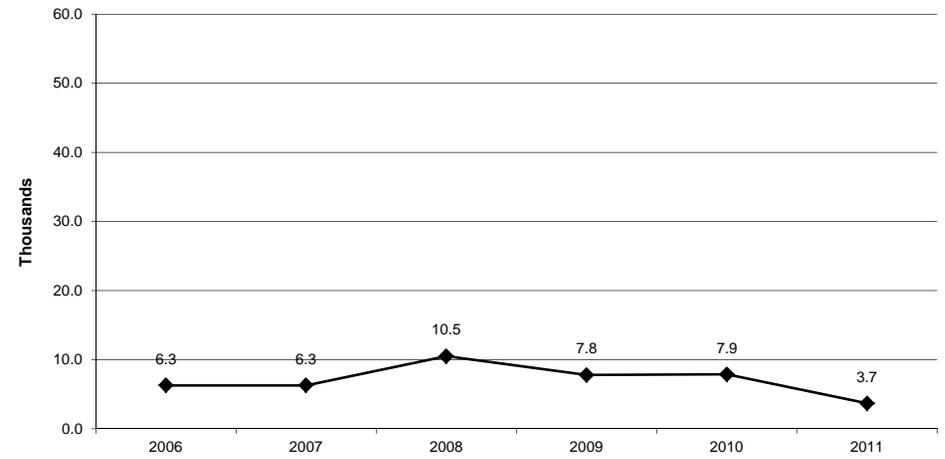
DATA VALUES ARE FOR THE PRAIRIE POTHOLE REGION ONLY
*ACRES

MALLARD BREEDING PAIRS IOWA NORTHERN PRAIRIE POTHOLE REGION



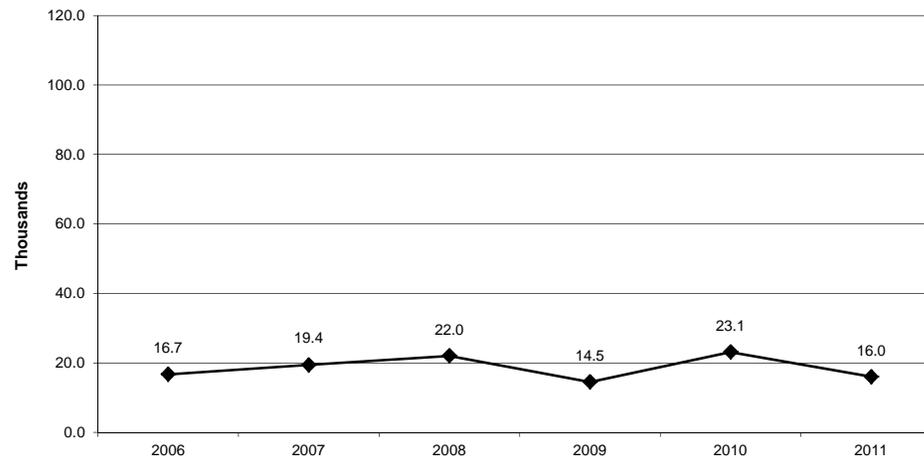
DATA VALUES ARE FOR THE PRAIRIE POTHOLE REGION ONLY

BW TEAL BREEDING PAIRS IOWA NORTHERN PRAIRIE POTHOLE REGION



DATA VALUES ARE FOR THE PRAIRIE POTHOLE REGION ONLY

BREEDING PAIRS ALL SPECIES* IOWA NORTHERN PRAIRIE POTHOLE REGION

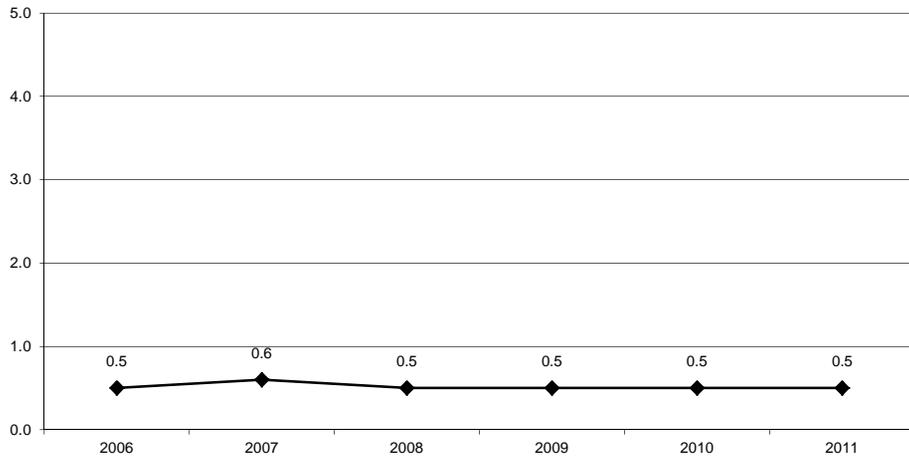


DATA VALUES ARE FOR THE PRAIRIE POTHOLE REGION ONLY

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MALLARD PAIRS / POND

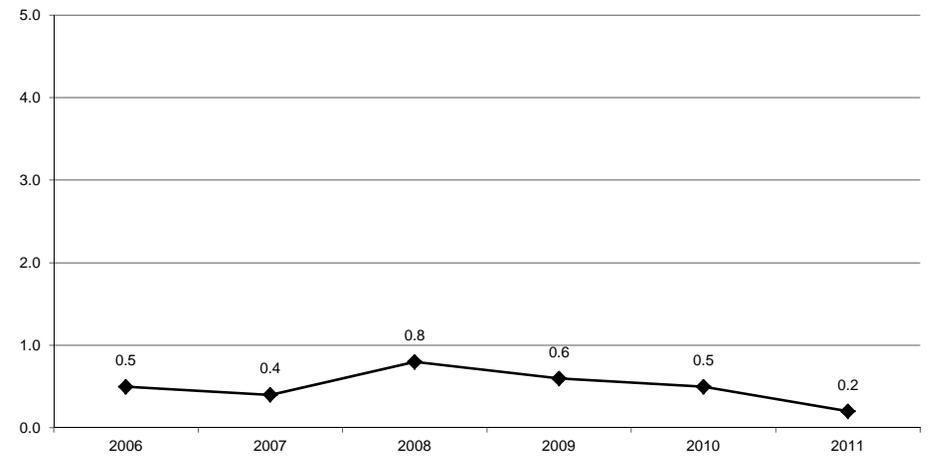
IOWA NORTHERN PRAIRIE POTHOLE REGION



DATA VALUES ARE FOR THE PRAIRIE POTHOLE REGION ONLY

BW TEAL PAIRS / POND

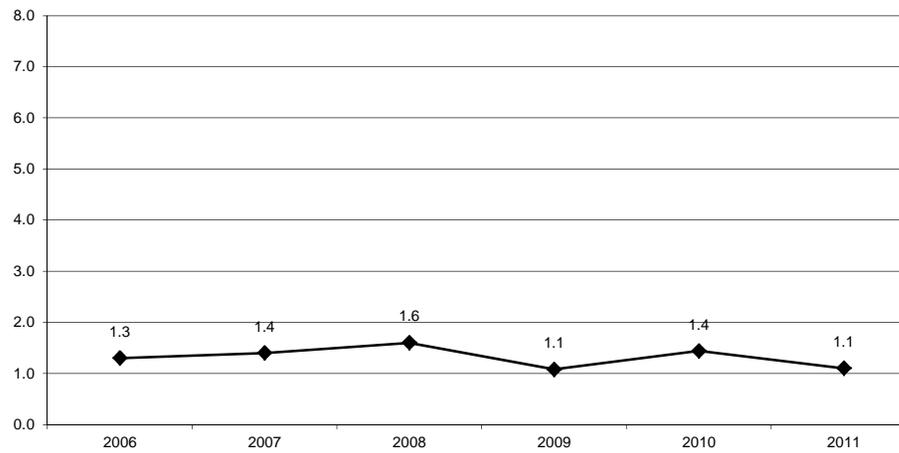
IOWA NORTHERN PRAIRIE POTHOLE REGION



DATA VALUES ARE FOR THE PRAIRIE POTHOLE REGION ONLY

PAIRS / POND ALL SPECIES*

IOWA NORTHERN PRAIRIE POTHOLE REGION

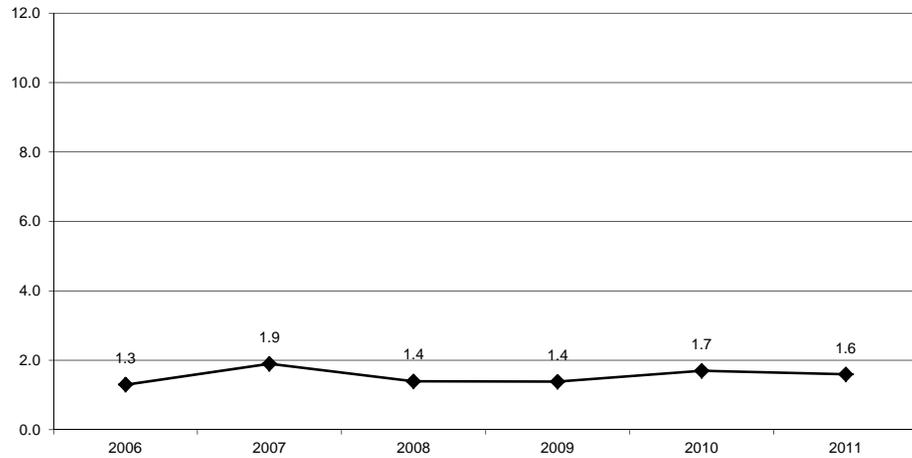


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MALLARD PAIRS / SQ MILE

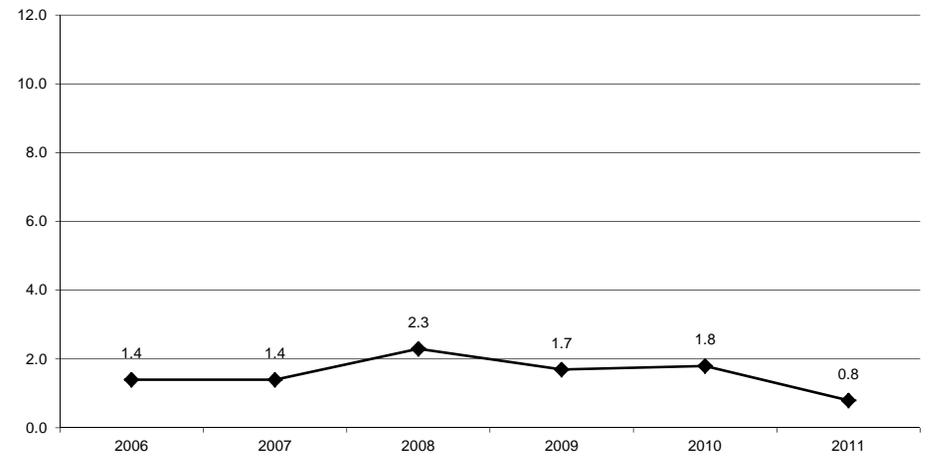
IOWA NORTHERN PRAIRIE POTHOLE REGION



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BW TEAL PAIRS / SQ MILE

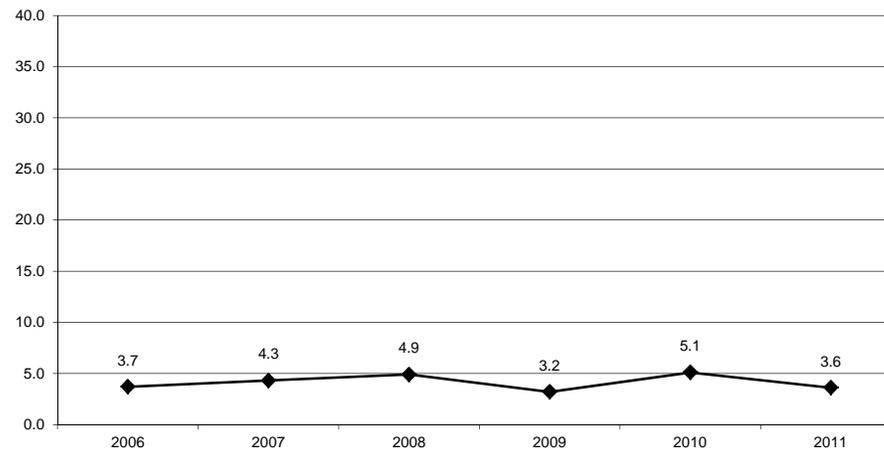
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PAIRS / SQ MILE ALL SPECIES*

IOWA NORTHERN PRAIRIE POTHOLE REGION

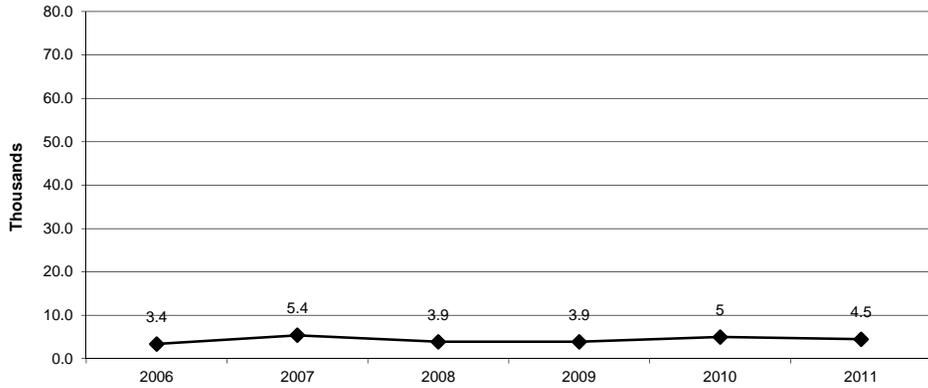


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NUMBER OF MALLARD RECRUITS PRODUCED

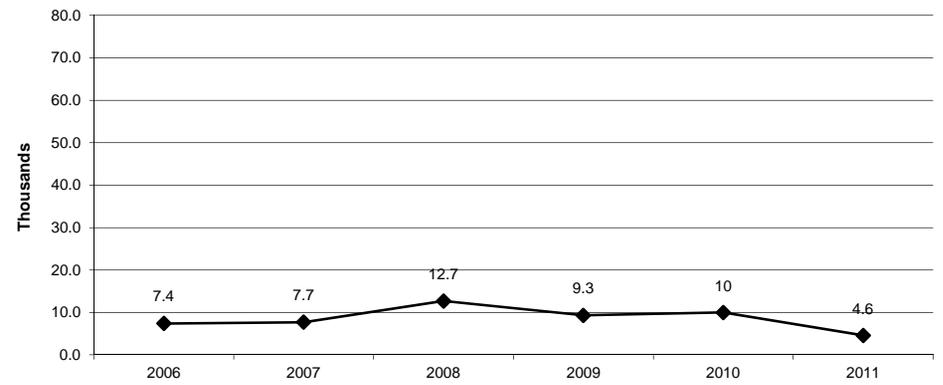
IOWA NORTHERN PRAIRIE POTHOLE REGION



DATA VALUES ARE FOR THE PRAIRIE POTHOLE REGION ONLY

NUMBER OF BW TEAL RECRUITS PRODUCED

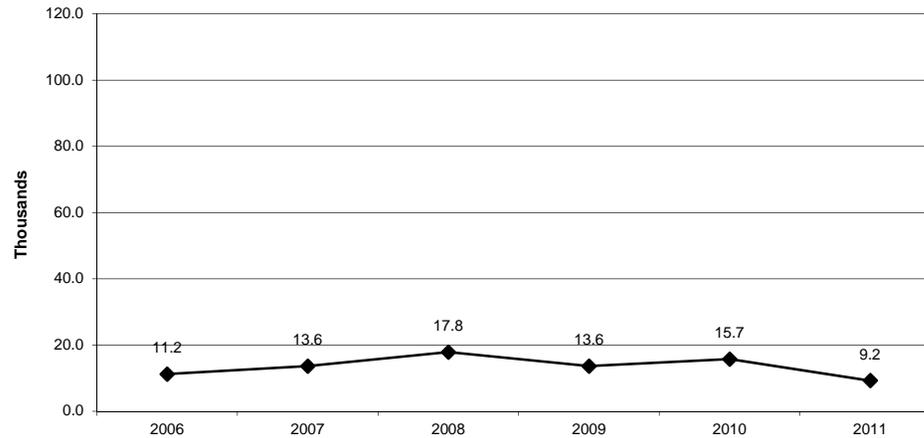
IOWA NORTHERN PRAIRIE POTHOLE REGION



DATA VALUES ARE FOR THE PRAIRIE POTHOLE REGION ONLY

NUMBER OF RECRUITS PRODUCED*

IOWA NORTHERN PRAIRIE POTHOLE REGION

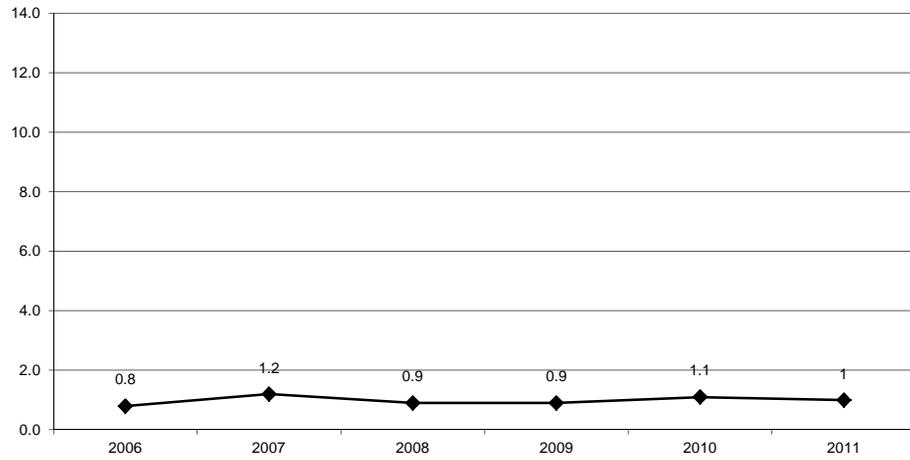


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MALLARD RECRUITS / SQ MILE

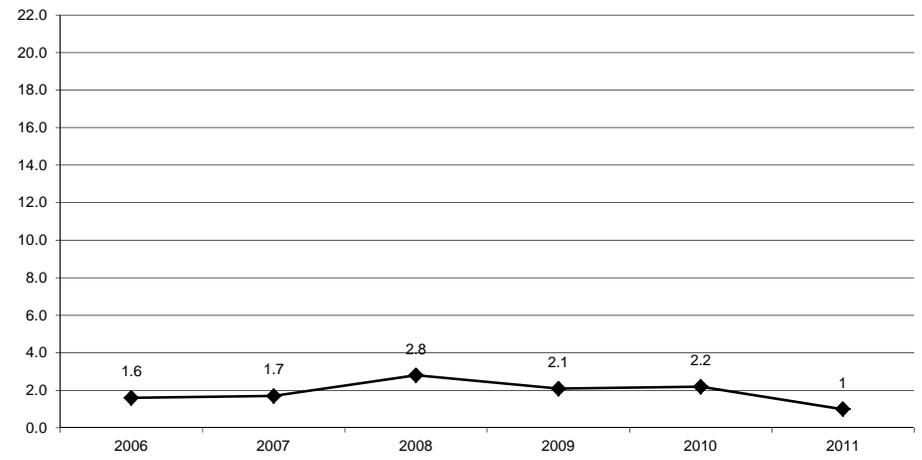
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BW TEAL RECRUITS / SQ MILE

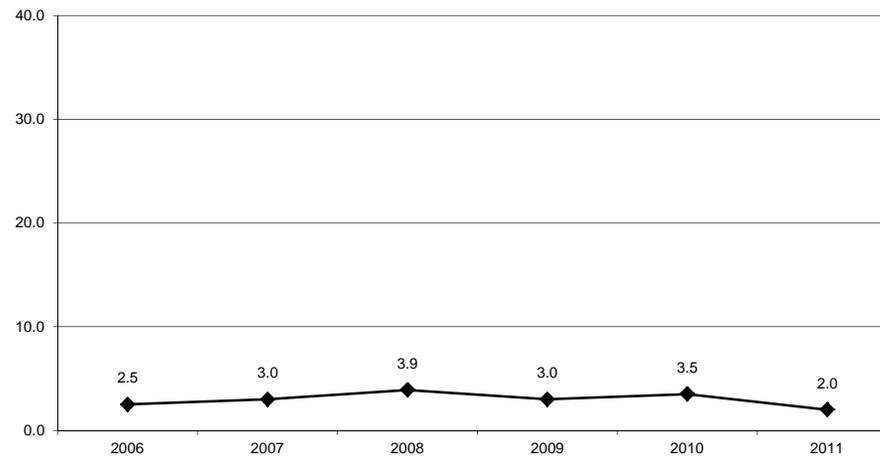
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DATA VALUES ARE FOR THE PRAIRIE POTHOLE REGION ONLY

RECRUITS / SQ MILE ALL SPECIES*

IOWA NORTHERN PRAIRIE POTHOLE REGION

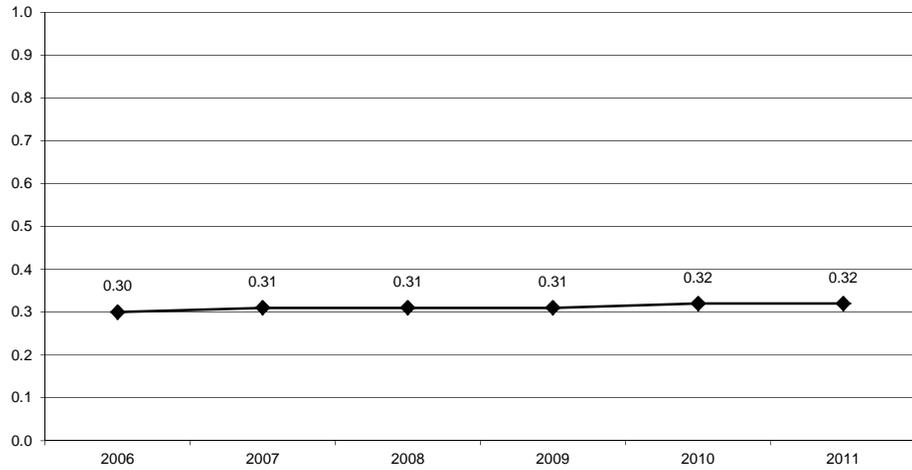


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MALLARD RECRUITMENT RATE*

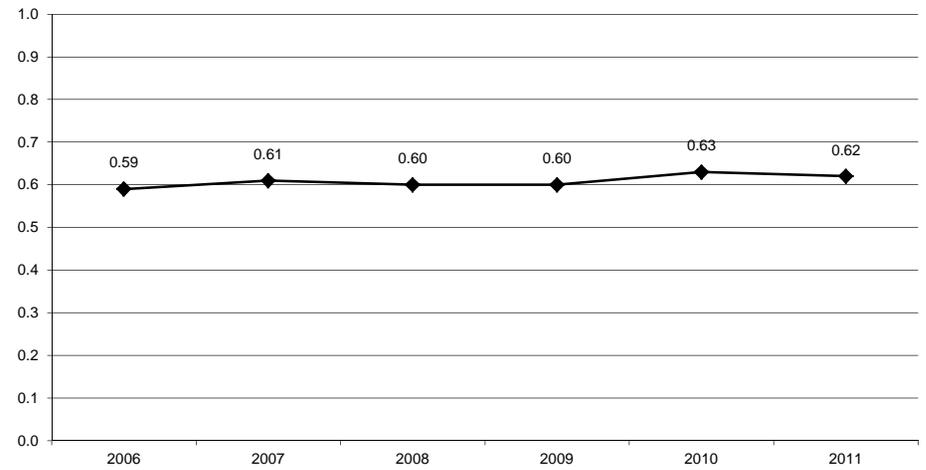
IOWA NORTHERN PRAIRIE POTHOLE REGION



DATA VALUES ARE FOR THE PRAIRIE POTHOLE REGION ONLY
 *It is estimated that a .49 Recruitment Rate is required for a stable mallard population

BW TEAL RECRUITMENT RATE

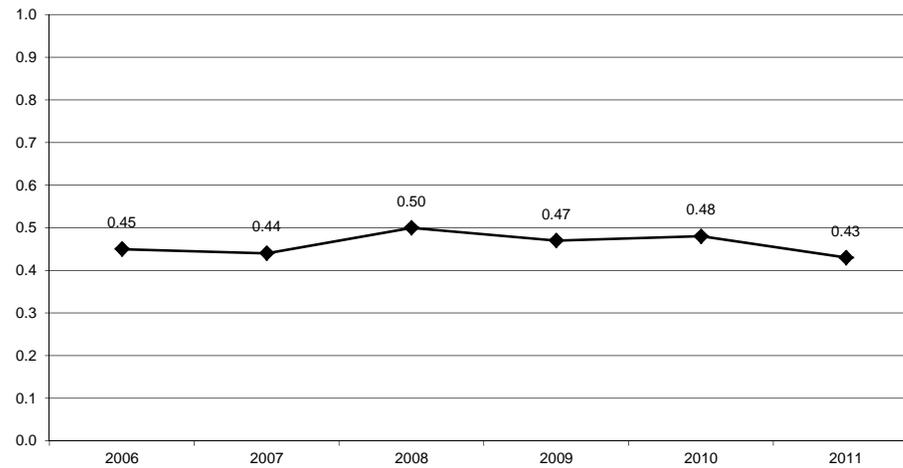
IOWA NORTHERN PRAIRIE POTHOLE REGION



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RECRUITMENT RATE*

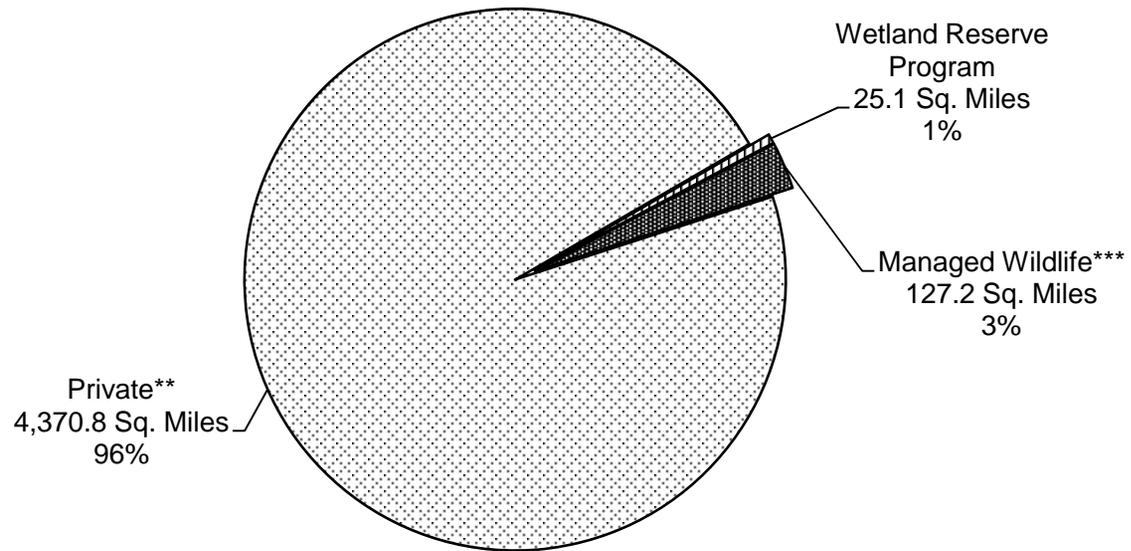
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OWNERSHIP COMPOSITION*

IOWA NORTHERN PRAIRIE POTHOLE REGION



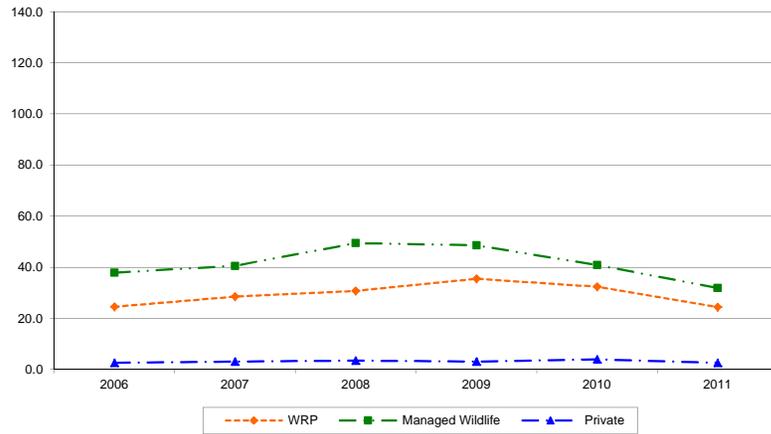
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***LANDS MANAGED BY FEDERAL, STATE OR COUNTY AGENCIES.

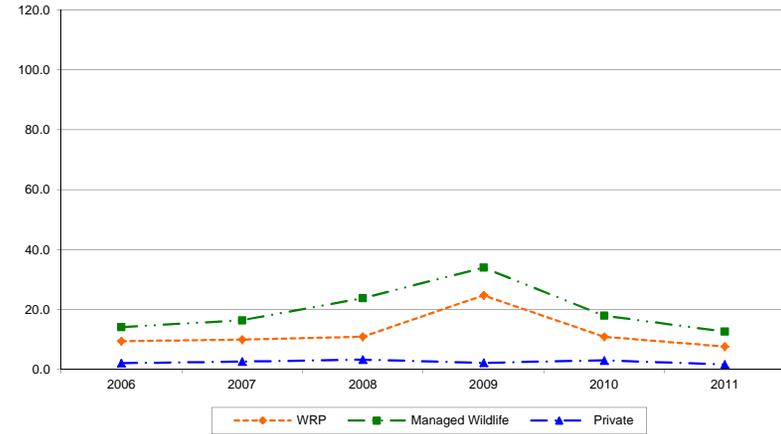
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ESTIMATED PAIRS / SQ. MILE BY OWNERSHIP
 13 SPECIES*
 IOWA NORTHERN PRAIRIE POTHOLE REGION



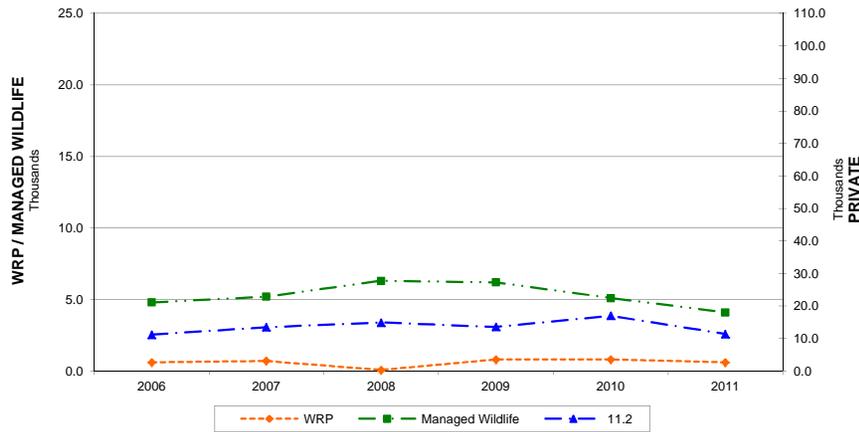
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ESTIMATED RECRUITS / SQ. MILE BY OWNERSHIP
 5 SPECIES*
 IOWA NORTHERN PRAIRIE POTHOLE REGION



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ESTIMATED PAIRS BY OWNERSHIP
 13 SPECIES*
 IOWA NORTHERN PRAIRIE POTHOLE REGION



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ESTIMATED RECRUITS BY OWNERSHIP
 5 SPECIES*
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ANNUAL REPORT FOR 2011

WATERFOWL BREEDING POPULATIONS

AND

PRODUCTION ESTIMATES

FOR THE

PRAIRIE POTHOLE REGION OF MINNESOTA AND IOWA

AND POPULATION ESTIMATES FOR THE

TRANSITION ZONE OF MINNESOTA

U.S. Fish and Wildlife Service
Division of Migratory Birds
Habitat and Population Evaluation Team
18965 County Highway 82
Fergus Falls, MN 56537



Released September, 2011

