Minnesota Piping Plovers

Katie Haws Data

MN Department of Natural Resources

(but I prepared the slides)


Figure 1
49°23' 04" N.L.
95°
30'
RED LAKE INDIAN RESERVATION
NORTHWEST ANGLE STATE FOREST
Fort St. Charles
KENORA
Techout Island
Red L. Rock
Crowdbck Island
Garden Island
Stony Point
Buffalo Bay
95°09' 11" W. L.
Lake of the Woods (Reservoir)
Middlebro
Muskeg Bay
Rocky Point
Warroad
Pine/Curry Island Complex
Morris Point
Zippel Bay
Bergland
Garnoland
Roosevelt
Williams
ON
RAINY

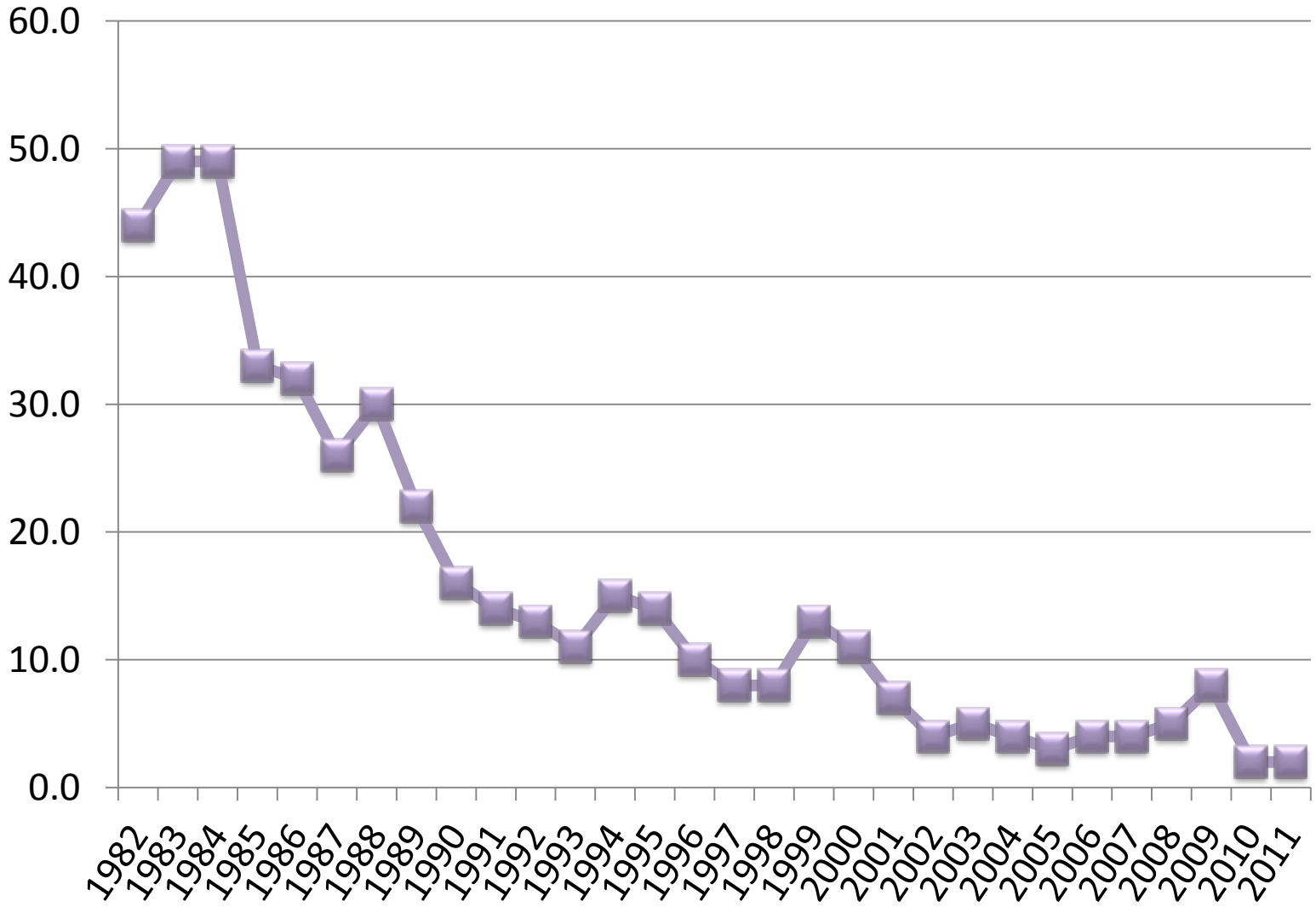

Figure 1
30'
49°23' 04" N.L.
95°
30'
RED LAKE INDIAN RESERVATION
Fort St. Charles
Angle Inlet
NORTHWEST ANGLE STATE FOREST
KENORA
Oak Island
Techaut Island
Red L. Rock
Crowduck Island
Garden Island
Garden Island
Big Is
Stony Point
95°09'11" W. L.
Lake of the Woods
(Reservoir)
Middlebro
Rocky Point
Pine/Curry Island Complex
Morris Point
Warroad
Zippel Bay
Roosevelt
Williams
Borgland
Garneland
Atbo Vitae
ONTARIO
RAINY

Table 1. Population summary of piping plovers from 1982-2011 at Lake of the Woods, MN/1

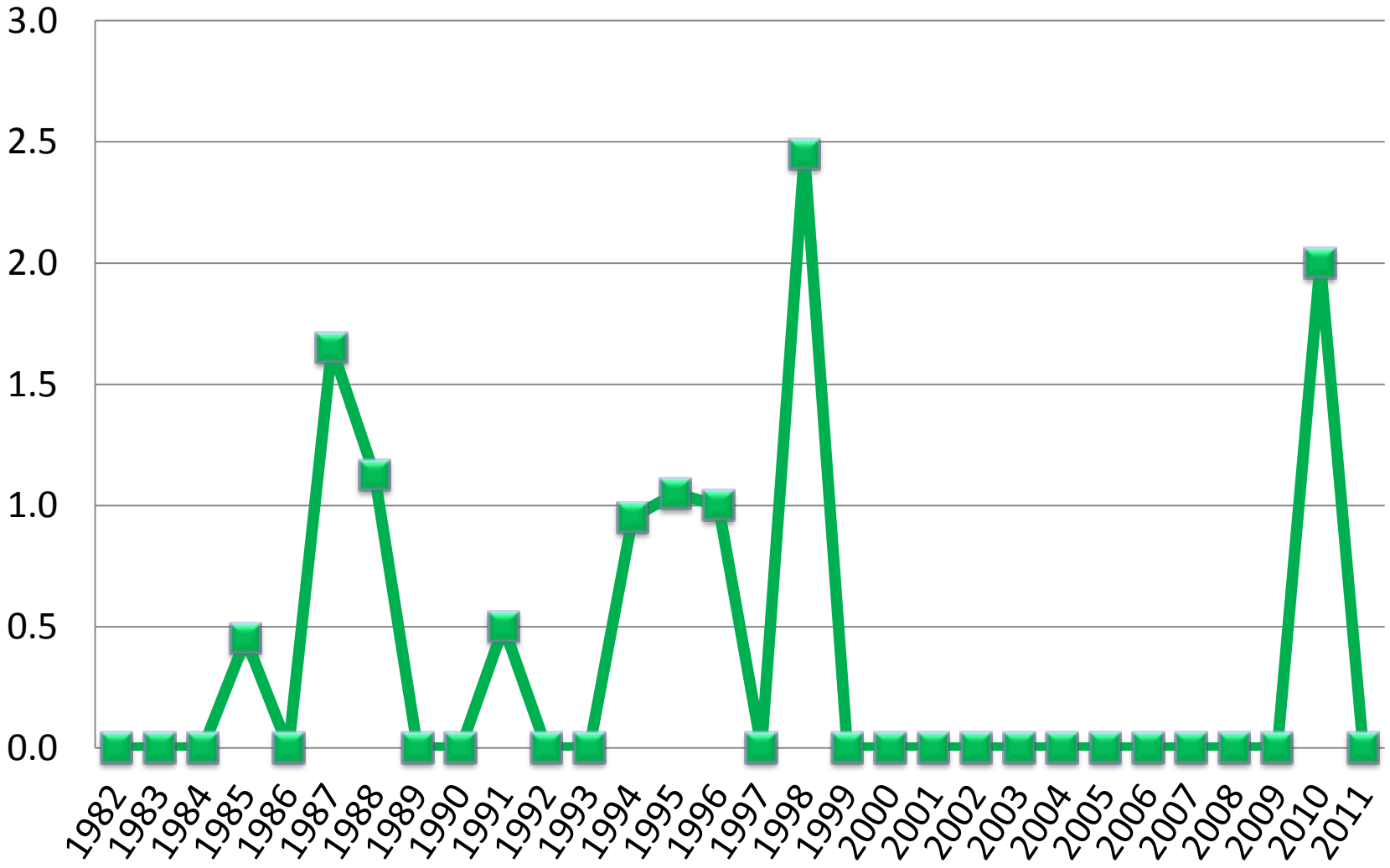
	Breeding Birds							
Year	Pine/Curry Island	Morris Point	Zippel Bay	Stony Point	Rocky Point	Garden Island	Non-Breeders	Total
1982	24	4	0		2		14	44
1983	32	6	2		2		7	49
1984	36	8	0		0		3-6	47-50
1985	19-36	4	0		-		1-2	24-42
1986	18	4	0		1		9-10	32-33
1987	12	2	0		-		12	26
1988	18	4	0		4		4	30
1989	14	2	0		4		2	22
1990	8	2	-		2		4	16
1991	12	0	0		0		2	14
1992	10	0	0		0		3	13
1993	9	0	0		0		2	11
1994	10	2	0		0		3	15
1995	11	2	0		0		1	14
1996	10	0	0		0		0	10
1997	4	0	0		4		8	8
1998	6	0	0		2		0	8
1999	6	0	0		2		5	13
2000	8	0	0		2		1	11
2001	0	2	0		4		1	7
2002	2	2	0		0		0	4
2003	0	0	0	2*	0		3	5
2004	0	0	0	0	0		4	4
2005	0	0	0		2		1	3
2006	0	0	0	0	2	2	0	4
2007	0	0	0		2		2	4
2008	0	0	0		2		3	5
2009	0	0	0		0		9(7)**	9(7)
2010	2	0	-		0			2
2011	2	0	-	0	0	0	0	2

/1 1982-84 data from Weins 1986.
1985-87 data from Haig and Oring 1987.
*Presumed breeders
** Two birds may have been observed in two separate locations on different days thus the range of 7(9) seen in 2009

Number of Breeding Birds 1982-2011



Chicks Fledged/Pair 1982-2011



Major Threats

- Erosion of Lake of the Woods shoreline
  - Study shows little likelihood of replenishment
  - Decreasing suspended sediment from incoming tributaries
- High summer water levels
  - Katie Haws attempting to work with the water board to reduce summer water levels. Board making some attempts to comply, but water management is complicated.
- Foot traffic, dogs and ATV's

Recommendations for Future Actions

- Continue monitoring efforts
- Continue to use predator exclosures (after 1 egg has been laid)
- Continue signing of all traditional use areas until no evidence of bird use for 3 consecutive years
- Outreach regarding the rules & reasons for them
- Encourage enforcement
- Continue to dialogue with the water control board on water management