

What's Happening to Songbirds? 2012

Another 40-year glance

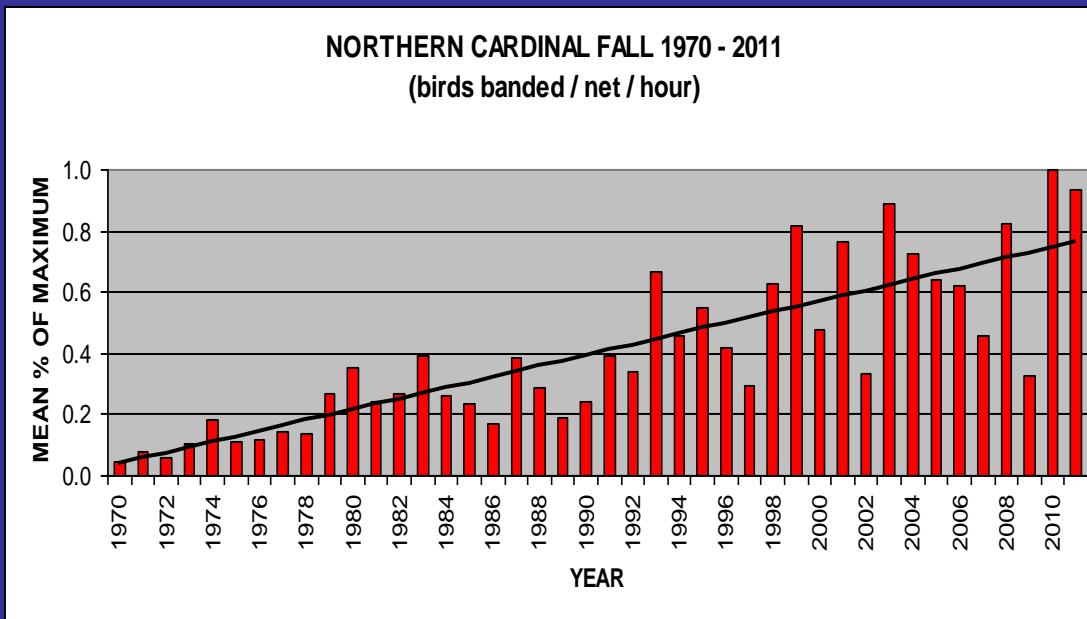


A Presentation by the Manomet
Center for Conservation Sciences



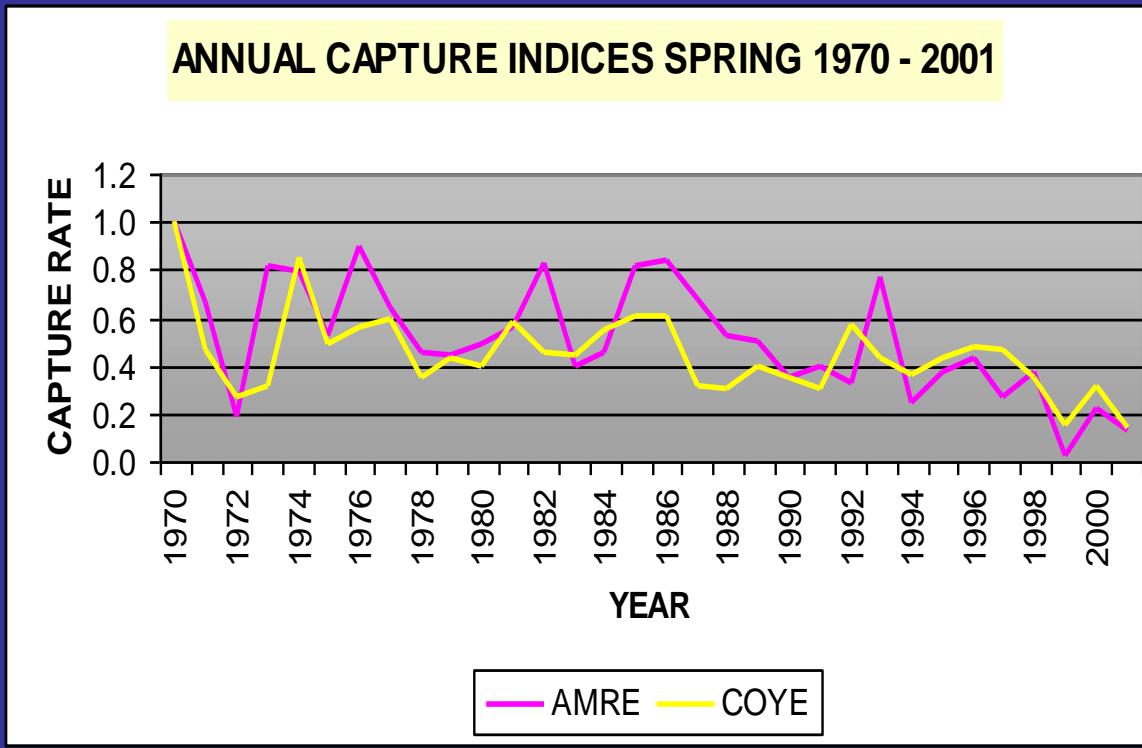
Northern Cardinal

Trending upward

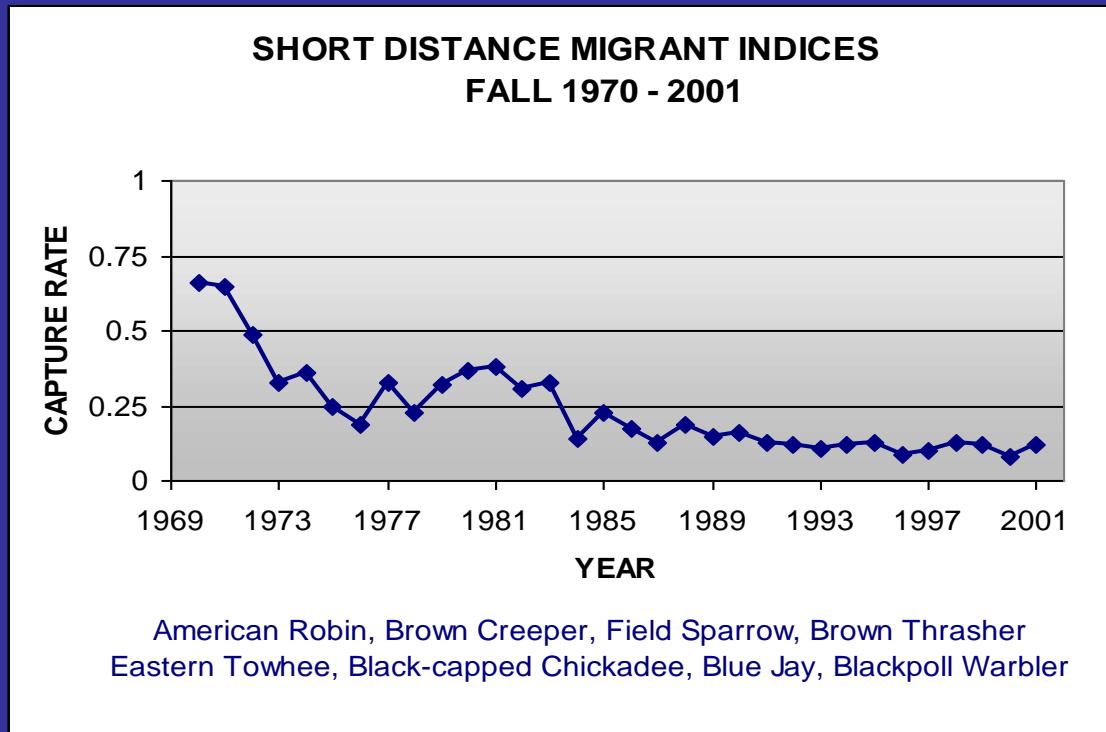


Annual Capture Indices Are Declining

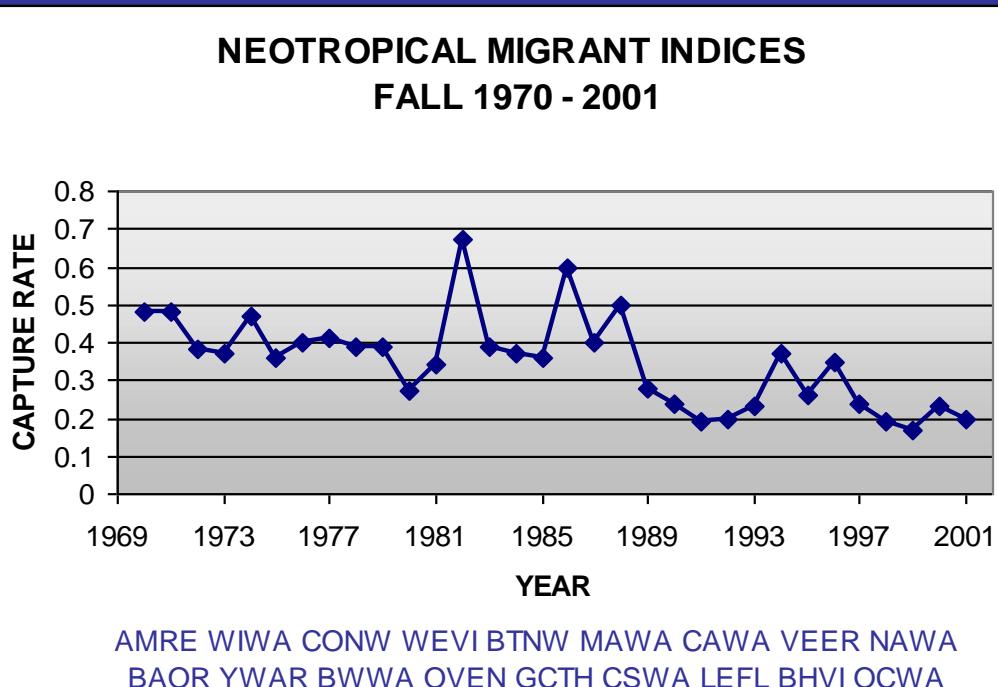
for many species



Short Distance Migrants Also Are Declining...

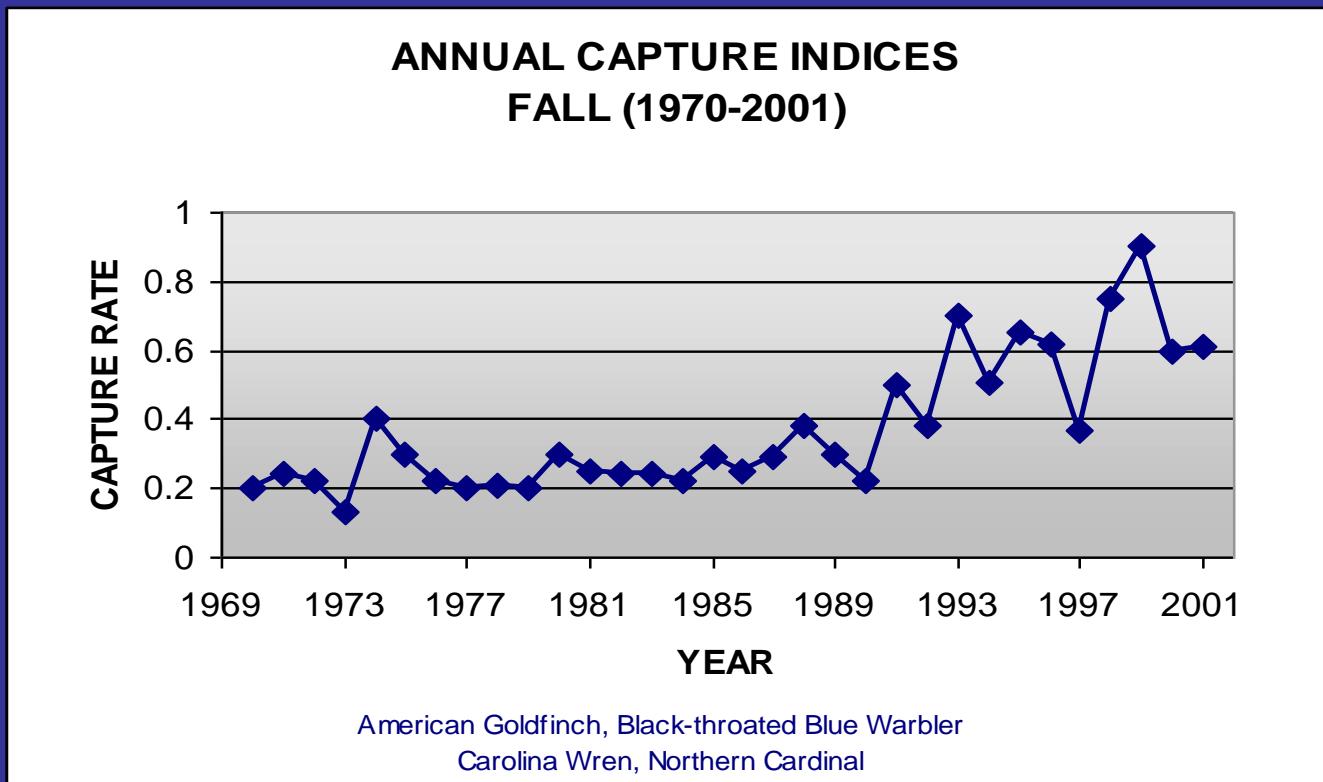


...As are Neotropicals



A Few Species Are Doing Well

Lloyd-Evans & Atwood. Wilson Bull. 2004

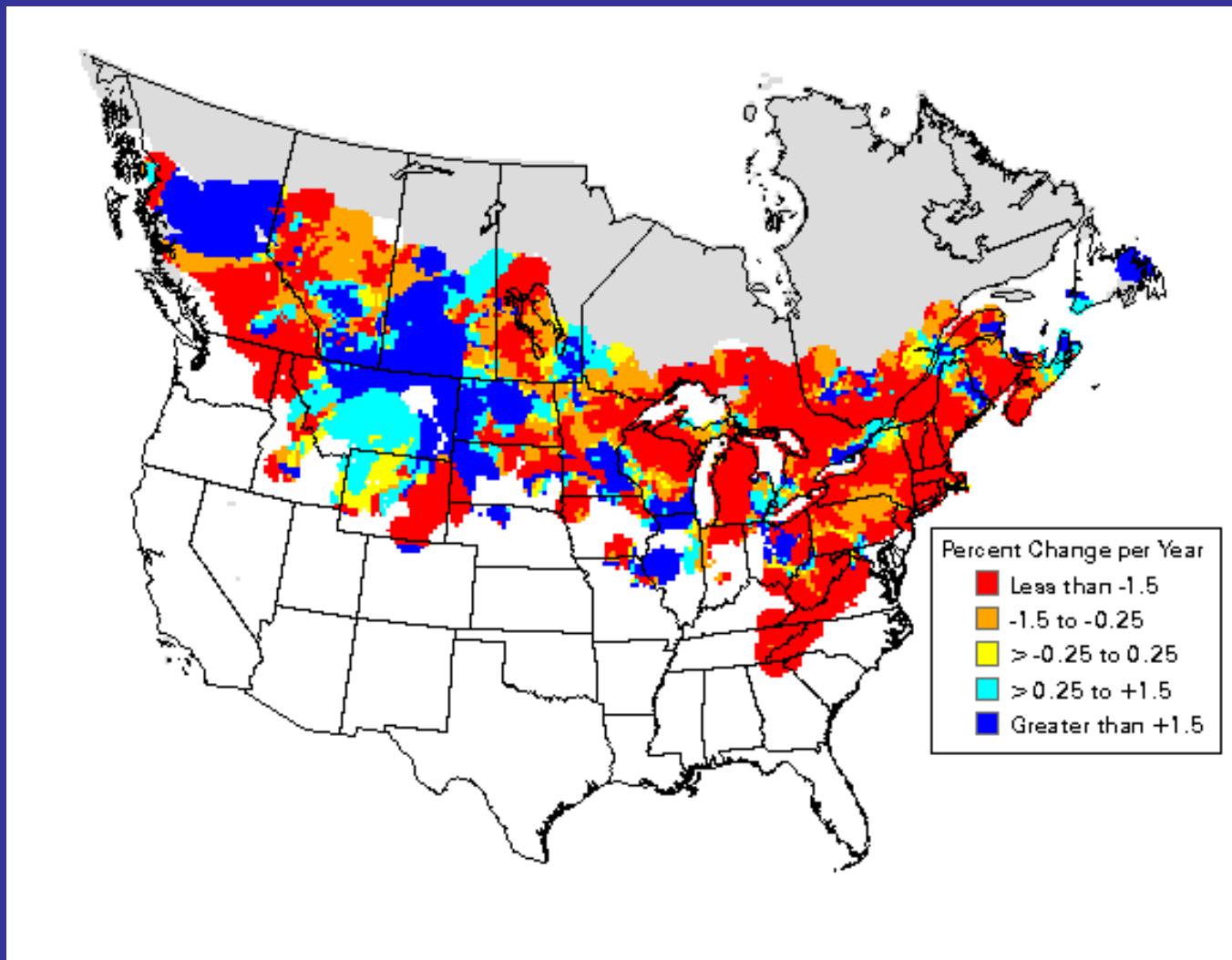


Decreasing Passerines



Least Flycatcher 1966-2003

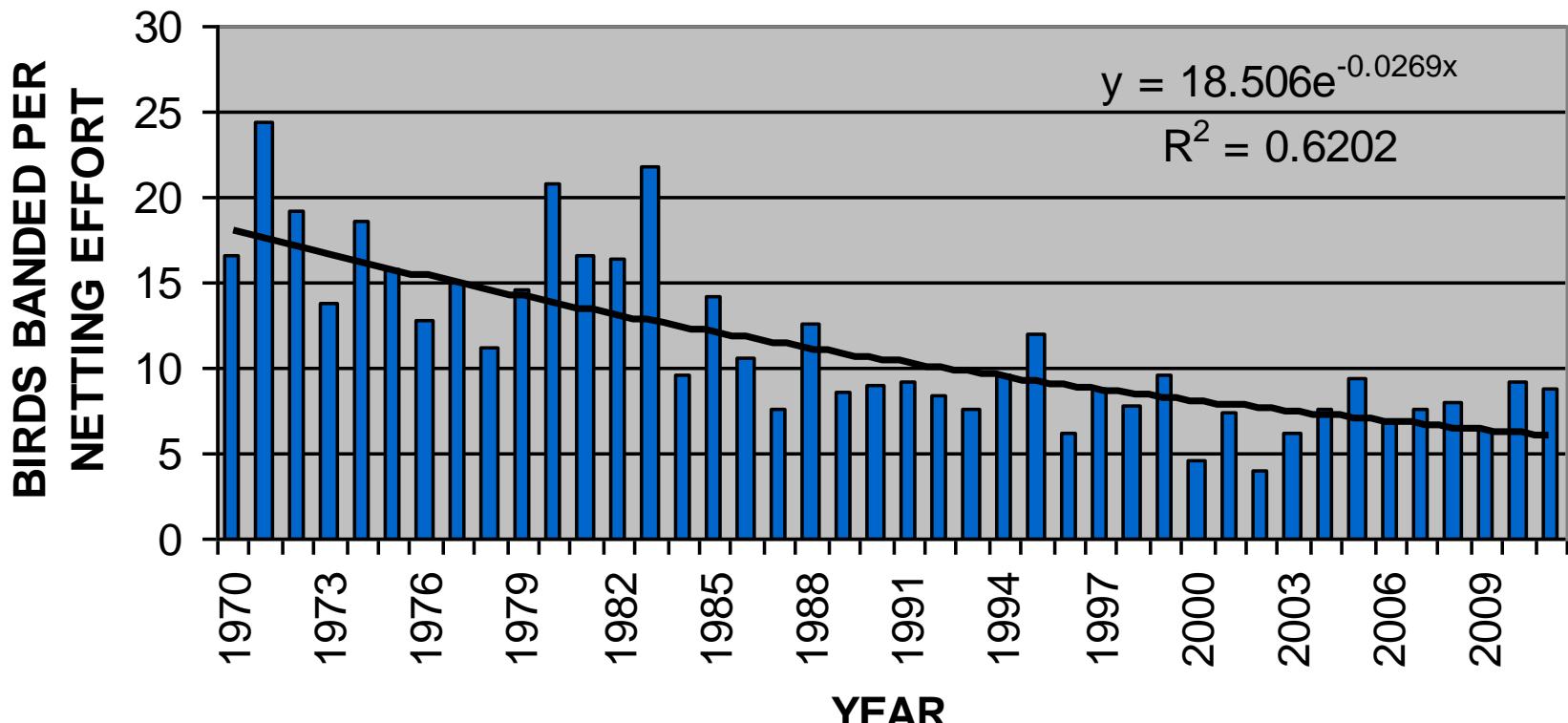
USGS Breeding Bird survey



Effect of Population Decline on Bird Banding at Manomet

Fall 1970 - 2011

MANOMET LAND BIRD BANDING: FALL 1970-2011

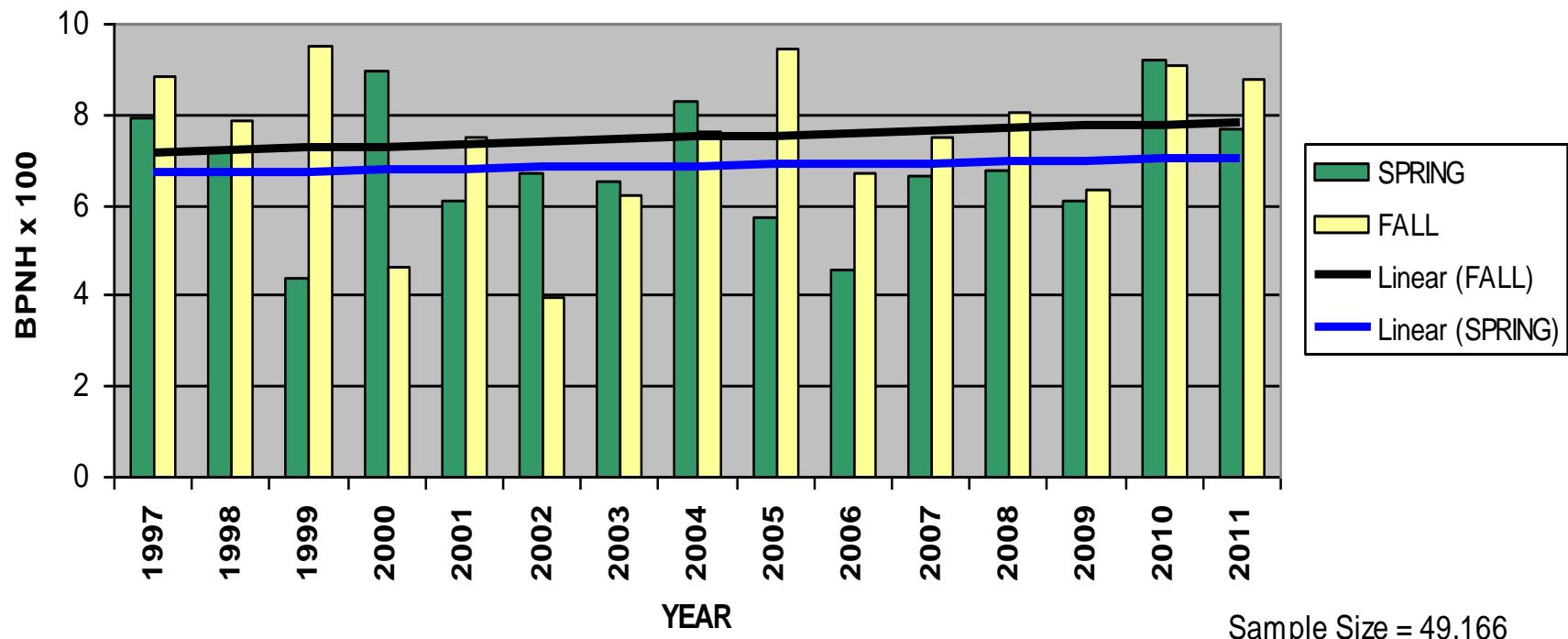


Sample Size = 146,422

Manomet Migration Banding

Last 15 years only: 1996 - 2011

MANOMET NEW BIRDS PER EFFORT (LAST 15 YEARS 1997 - 2011)



What challenges in the future? Climate Change ?



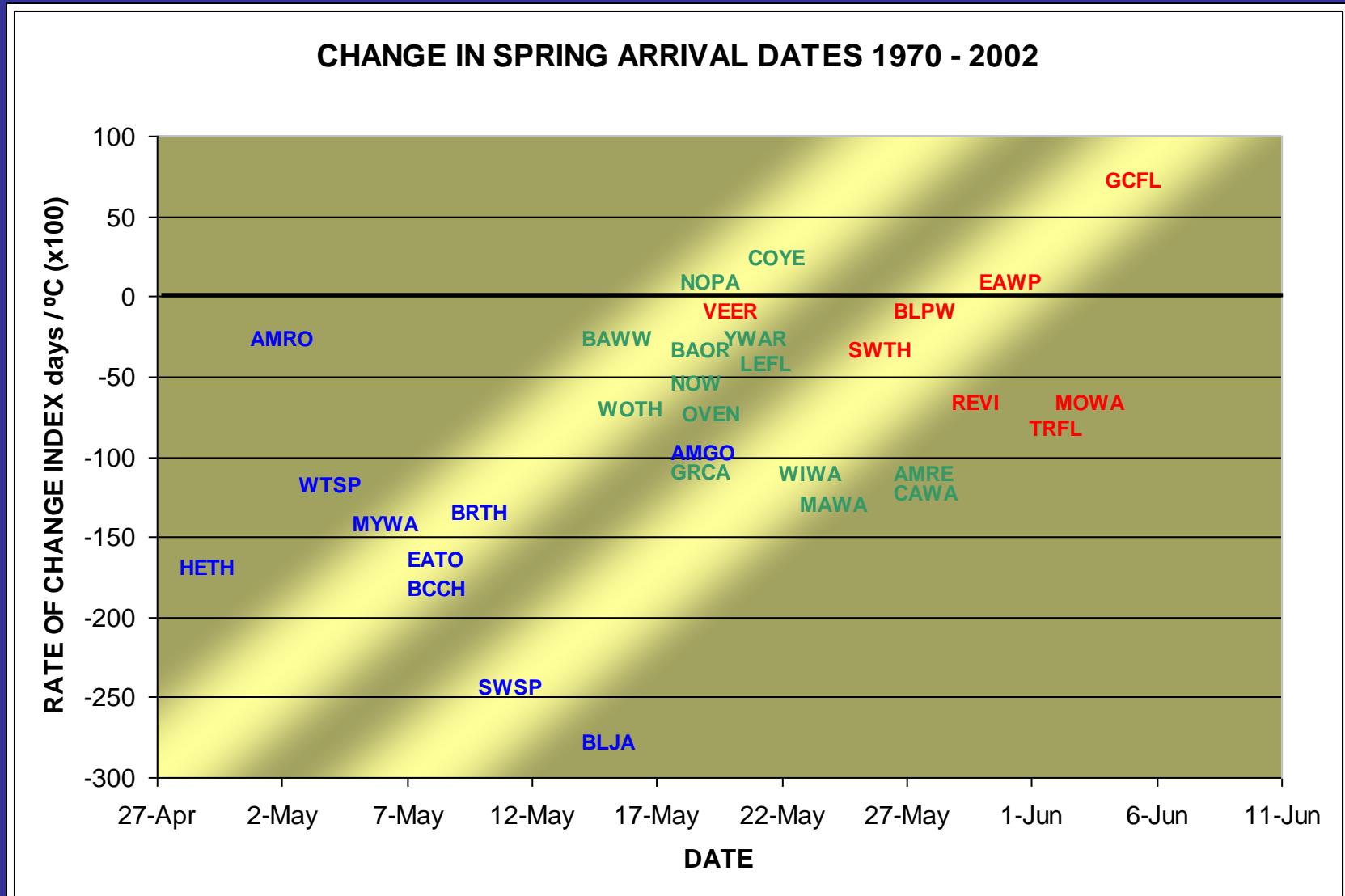
White-throated Sparrow – spring
arrives a day earlier per degree centigrade



Manomet Spring Migration Timing

Global Change Biology 2008

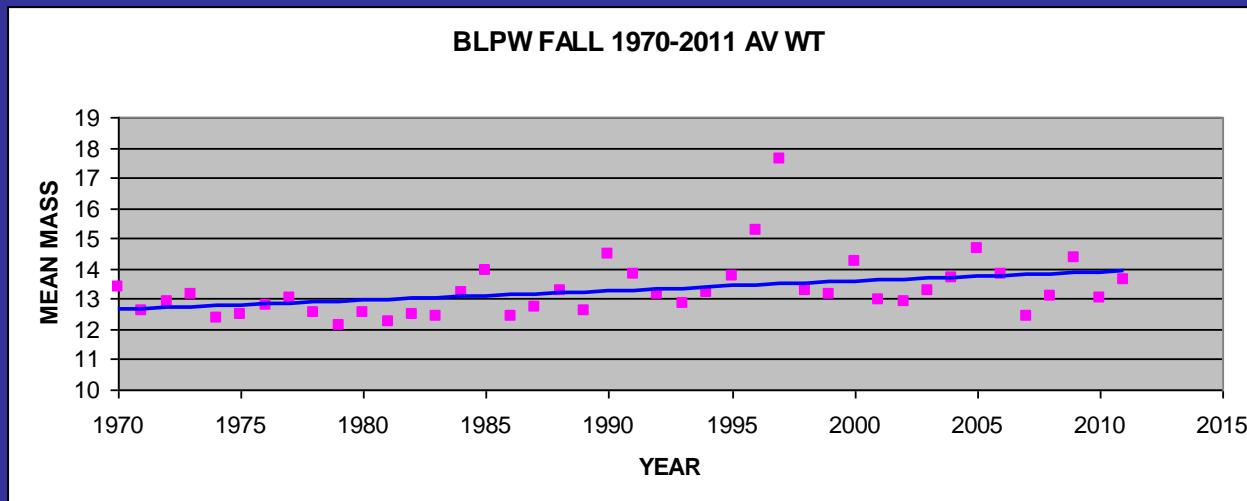
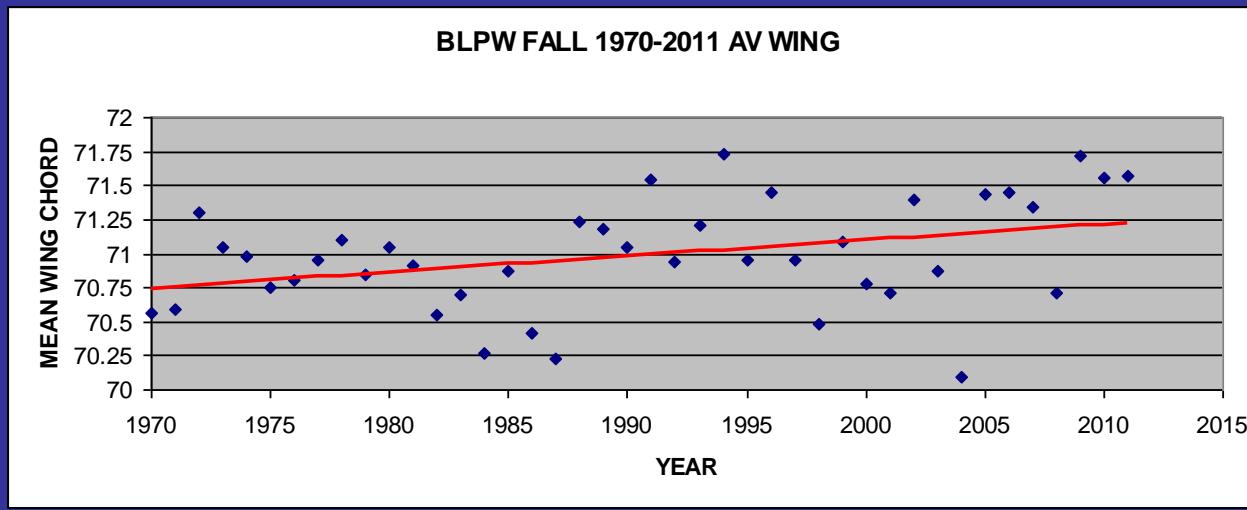
Miller-Rushing, Lloyd-Evans, Primack & Satzinger



Trauerflugenschnäpper Pied Flycatcher

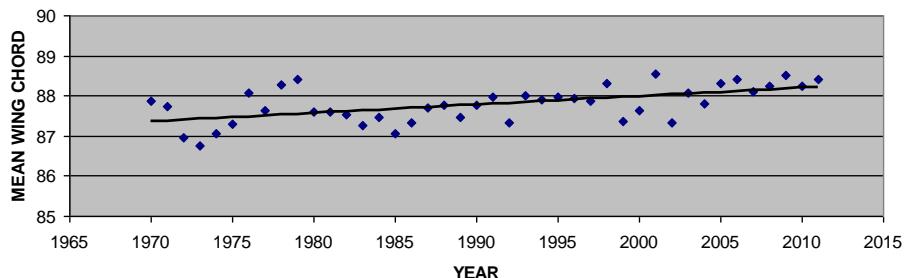


Blackpoll Warbler fall wing & weight 1970 - 2011

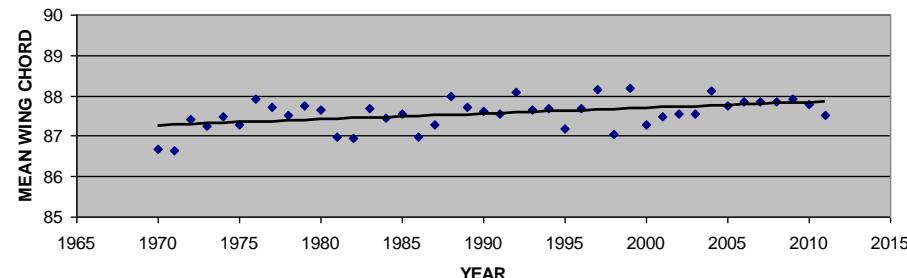


Gray Catbird wing & weight 1970 - 2011

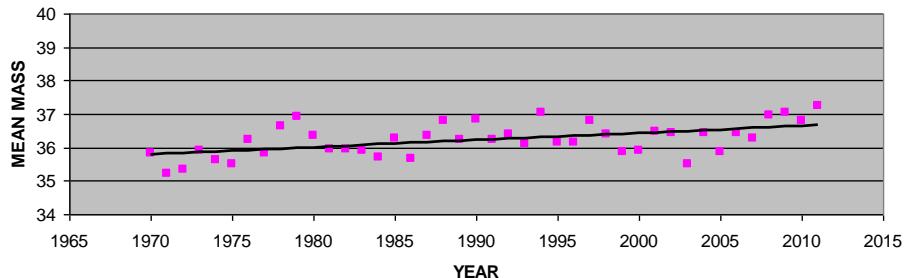
SPRING GRCA 1970-2011 AV WING



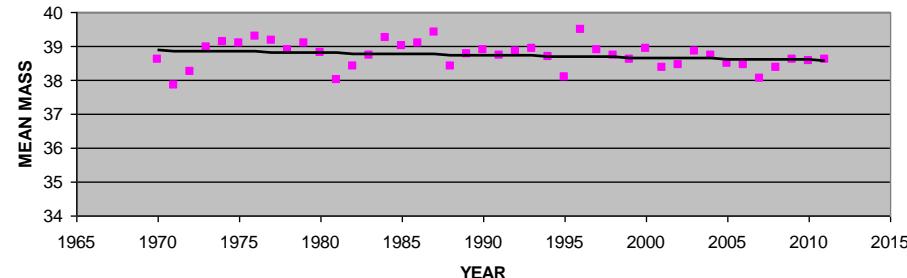
FALL GRCA 1970-2011 AV WING



SPRING GRCA 1970-2011 AV WT

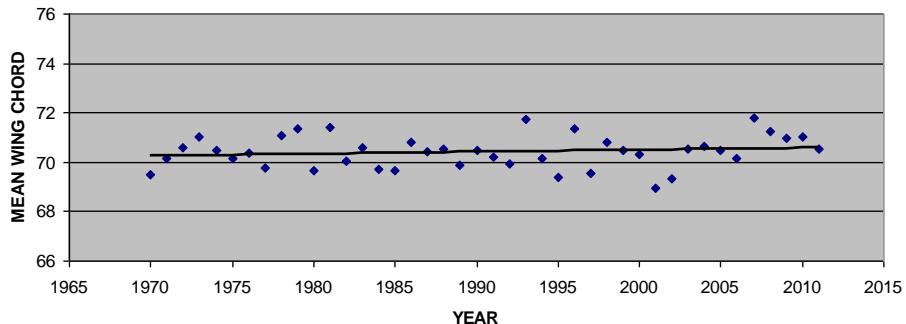


FALL GRCA 1970-2011 AV WT

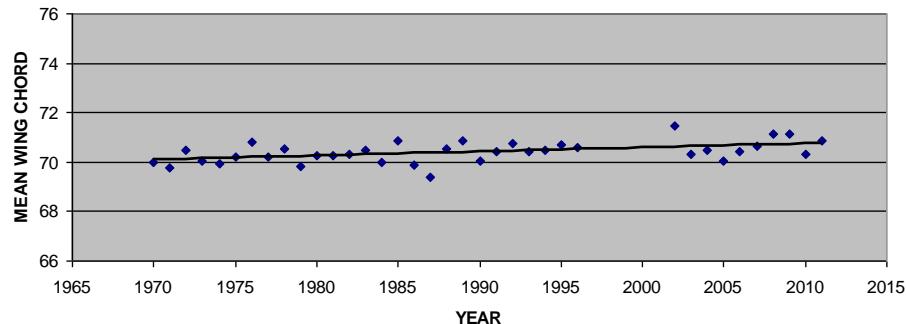


White-throated Sparrow wing & weight 1970 - 2011

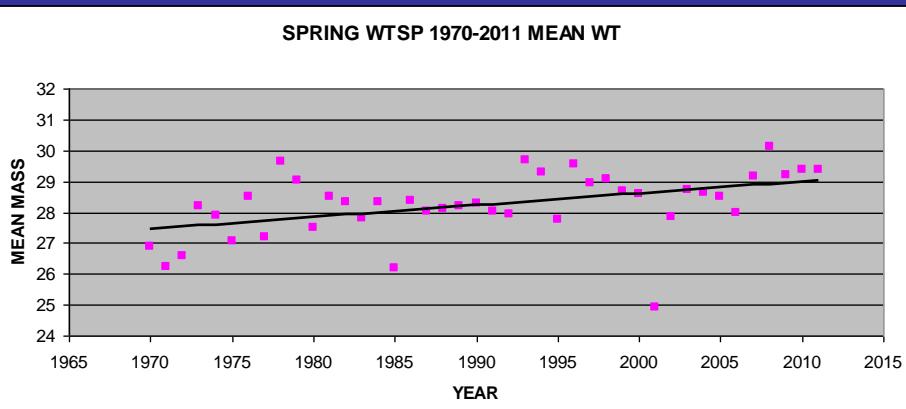
SPRING WTSP 1970-2011 MEAN WING



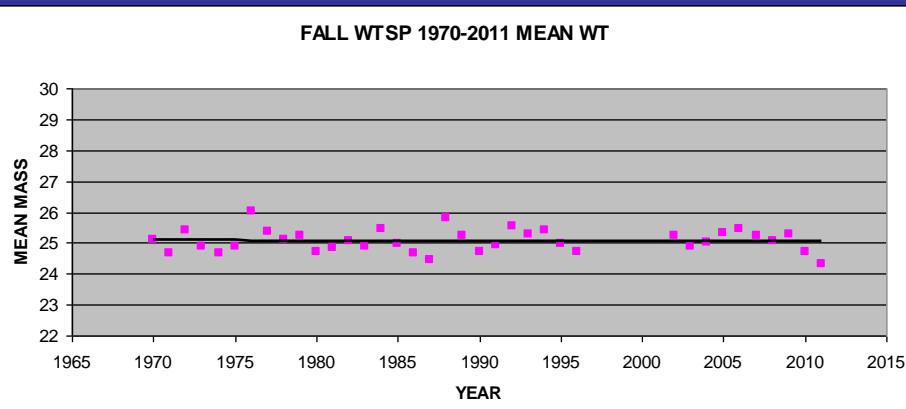
FALL WTSP 1907-2011 MEAN WING



SPRING WTSP 1970-2011 MEAN WT



FALL WTSP 1970-2011 MEAN WT



Summary

SPECIES	SPRING WING	FALL WING	SPRING MASS	FALL MASS	SPRING N	FALL N
GRCA	P<0.001	P=0.007	P<0.001	P=0.169	17,000	20,000
BLPW	P=0.119	P=0.014	P=0.014	P=0.01	1,100	7,800
BCCH	NA	P=0.952	NA	P=0.074		27,000
WTSP	P=0.41	P=0.002	P=0.003	P=0.594	6,600	8,000

Working Together

BANDING DATA

1966 – 2011

Manomet:

Volunteers

Students

Members

Staff

Boards

Financial Supporters

Grants & Contracts

The Birds

PHOTOGRAPHIC CREDITS

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Paul Satzinger







www.manomet.org



In the years following 1896, Ellen Ernst and her gardener, Otto Andersen, transformed windswept farm land into a lush landscape flourishing with a profusion of flowers, shrubs and trees.





Photo: Manny d'Amonville