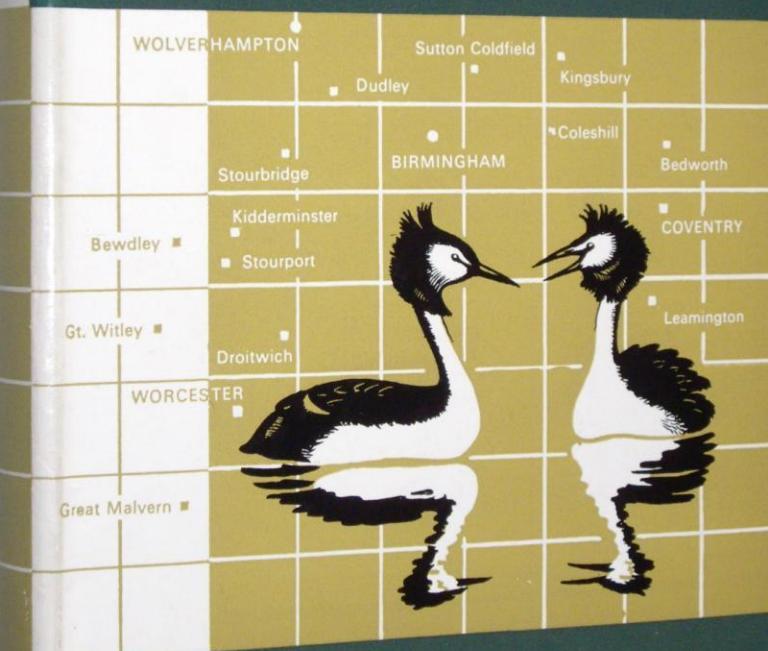




ATLAS OF  
BREEDING BIRDS  
OF THE  
WEST MIDLANDS



# ATLAS of Breeding Birds of the West Midlands



THE WEST MIDLAND BIRD CLUB  
Editors J. Lord and D. J. Munns



# THE MIGRATION ATLAS

MOVEMENTS OF THE BIRDS OF BRITAIN AND IRELAND

T & A D  
POYSER

THE EBCC ATLAS OF  
EUROPEAN  
BREEDING  
BIRDS

bird distribution  
and abundance



WARD J M  
HAGEMEIJER  
MICHAEL J BLAIR

T & A D  
POYSER

The New  
Atlas of  
Breeding  
Birds in  
Britain  
and  
Ireland:  
1988–1991

J. P. Cade  
D. Chapman  
J. R. Green  
J. E. Hailstone  
R. A. Chapman

SIMON HOLLOWAY

THE BREEDING BIRD ATLAS OF  
**CHESHIRE AND WIRRAL**

J. P. Cade  
D. Chapman  
J. R. Green  
R. A. Chapman  
D. Norman

CABOS

T & A D  
POYSER

The Atlas of Breeding Birds of Connecticut

Louis R. Bevier, Editor

THE ATLAS OF  
BREEDING  
BIRDS IN  
NEW YORK  
STATE

Cornell  
University  
Press

Robbins  
Editor  
Blom  
Project  
Coordinator

Atlas of the Breeding Birds of Maryland  
and the District of Columbia

**The Iowa Breeding Bird Atlas**

Robert F. Andole  
and  
Janet R. Carroll  
University of Iowa

IOWA

Missouri Breeding Bird Atlas Brad Jacob • James D. Wilson

Hugh L.  
Kingsbury,  
Editor

SAS

COLORADO BREEDING BIRD ATLAS

SAS

Breeding Birds of Washington State — Location Data and Predicted Distributions

N.W.A.

Atlas of the Breeding Birds of Nevada

Canadian Atlas of Bird Banding

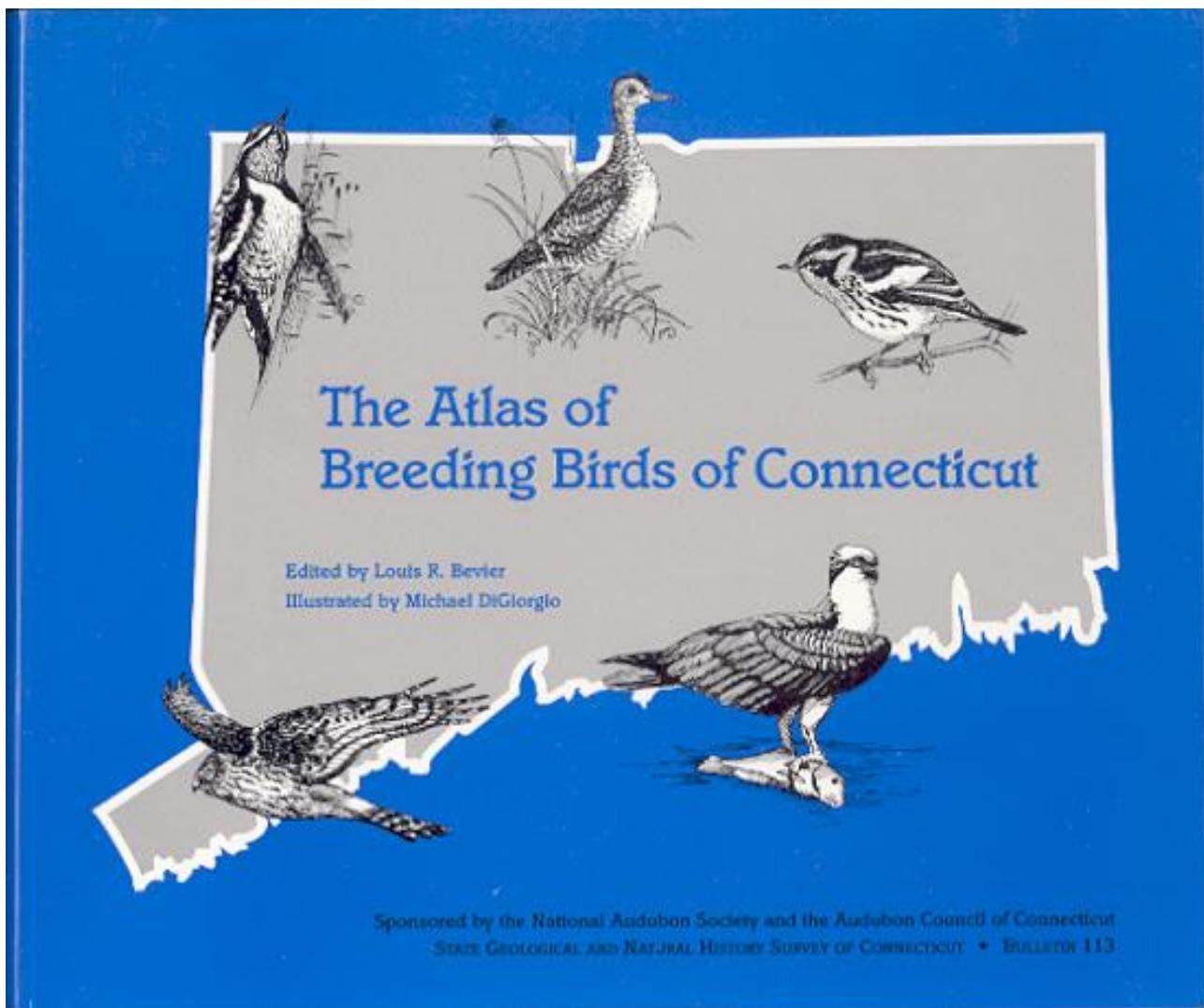
Rand et al.

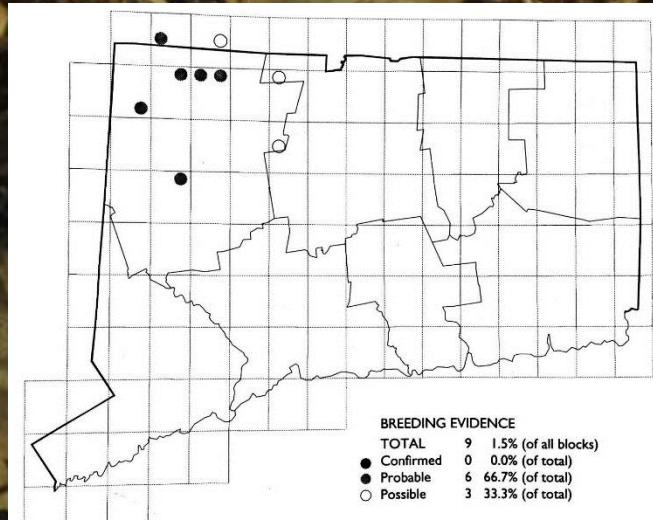
Brewer, Diamond, Woodworth,  
Collins, and Dunn

ATLAS OF WINTERING NORTH AMERICAN BIRDS

TERRY BOOT

# 1982-1986



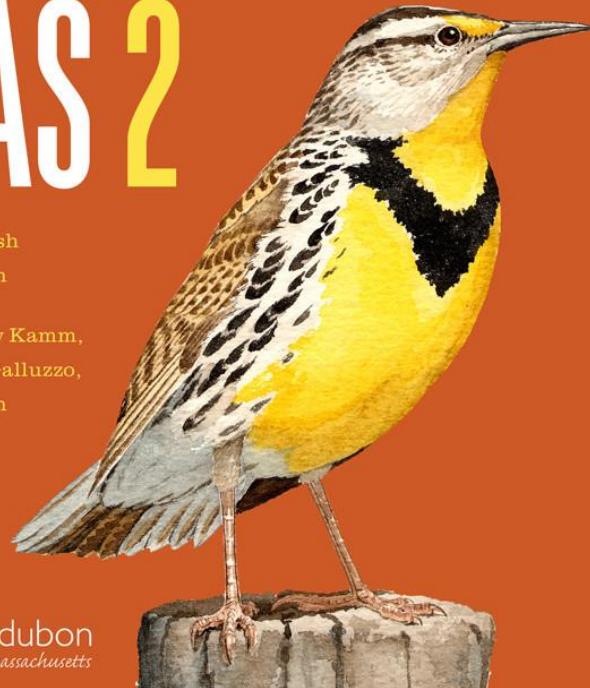


**2007-2011**

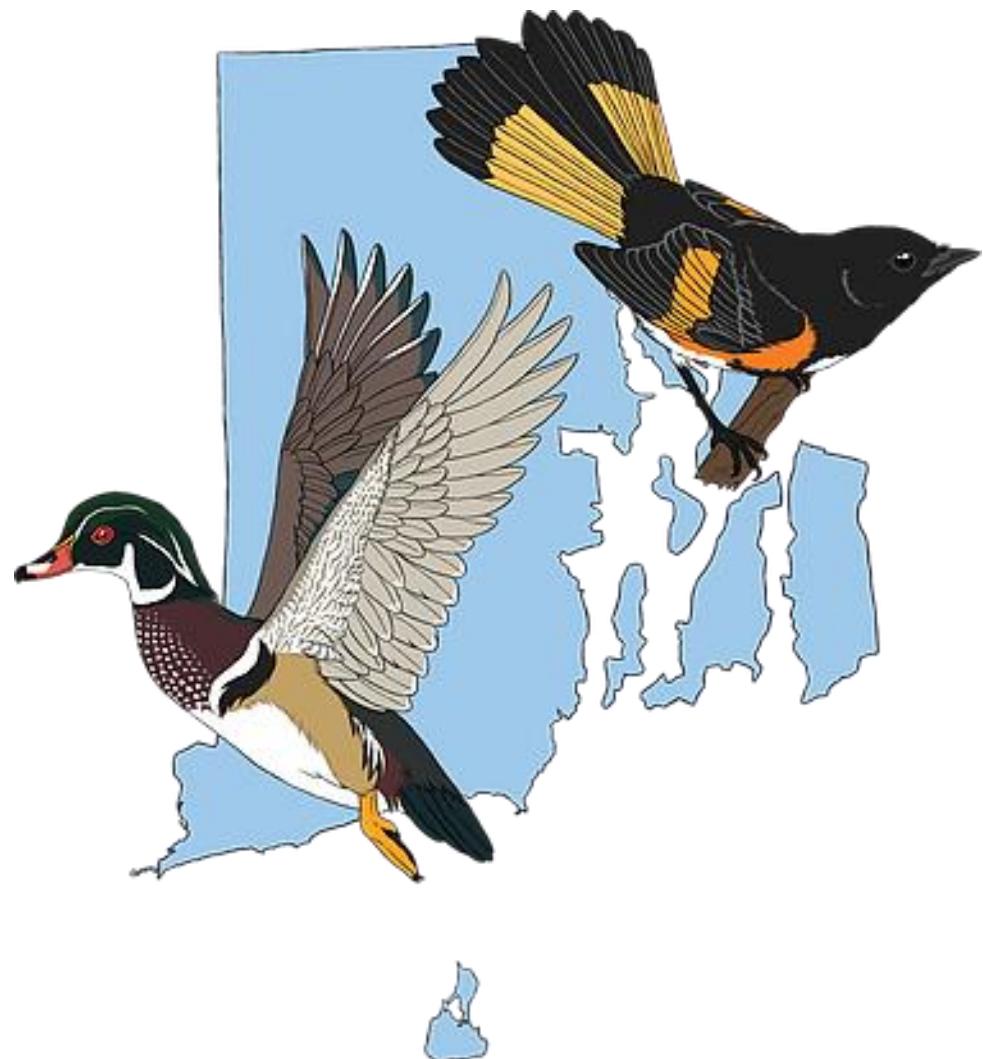
# MASSACHUSETTS BREEDING BIRD ATLAS 2

Edited by Joan Walsh  
and Wayne Petersen

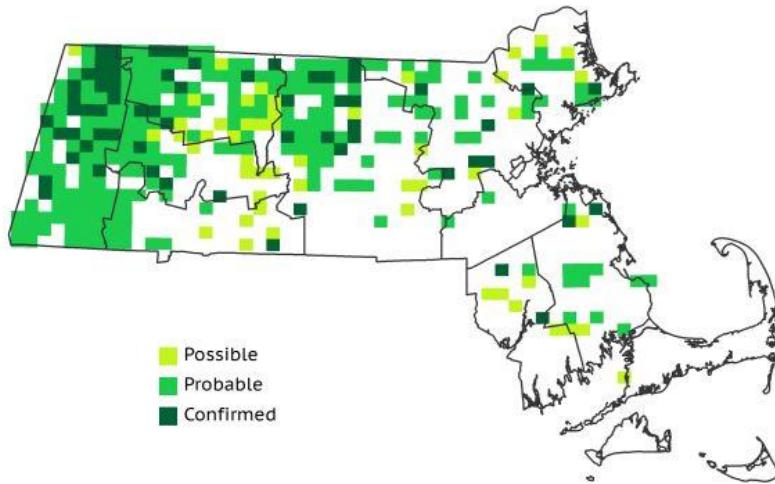
Written by Matthew Kamm,  
Joan Walsh, John Galluzzo,  
and Wayne Petersen



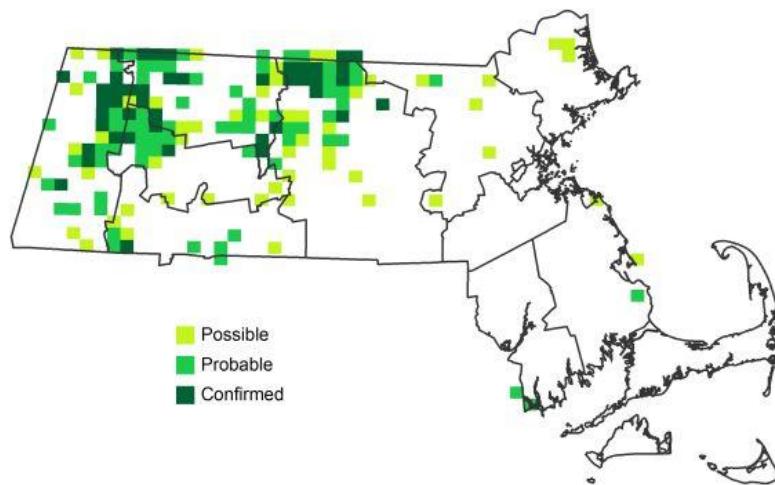
**2016-2020**



**1974-1979**

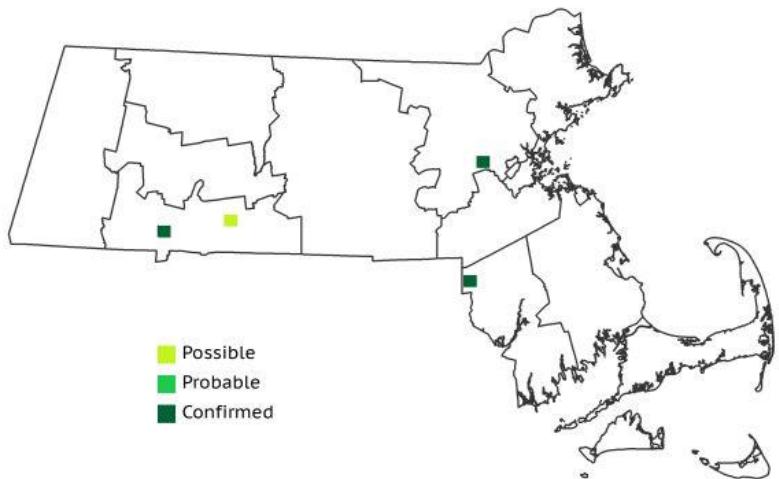


**2007-2011**

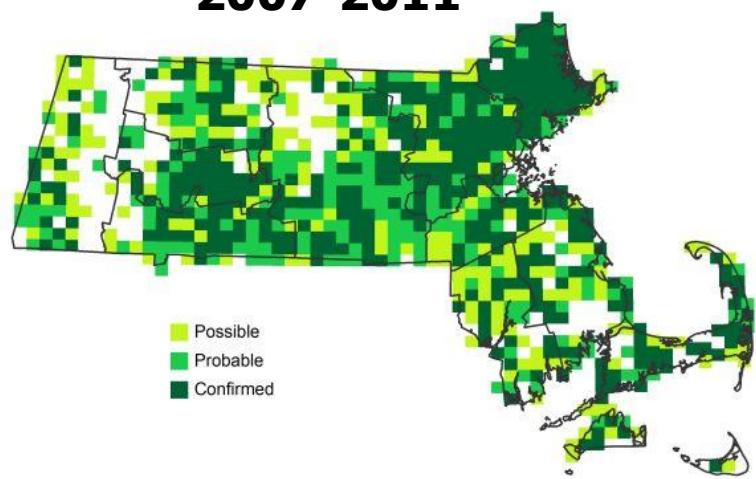




**1974-1979**



**2007-2011**





# CONNECTICUT **BIRD ATLAS**

# Project goals

- Describe breeding bird distribution and abundance
- Document changes since the last atlas
- Describe wintering distributions
- Stopover habitat use (we hope)
- Understand where species occur on the landscape
- Develop an interactive web site for updating and data retrieval



# Funding



Connecticut  
Ornithological  
Association



# Other partners



Bird clubs  
Land trusts  
Town conservation  
commissions  
Etc., etc.



Connecticut  
Ornithological  
Association



# Birders make atlases possible



# Atlas of the Breeding Birds of Nevada

WITH FOREWORDS BY

Senator Harry Reid  
& C. Richard Tracy

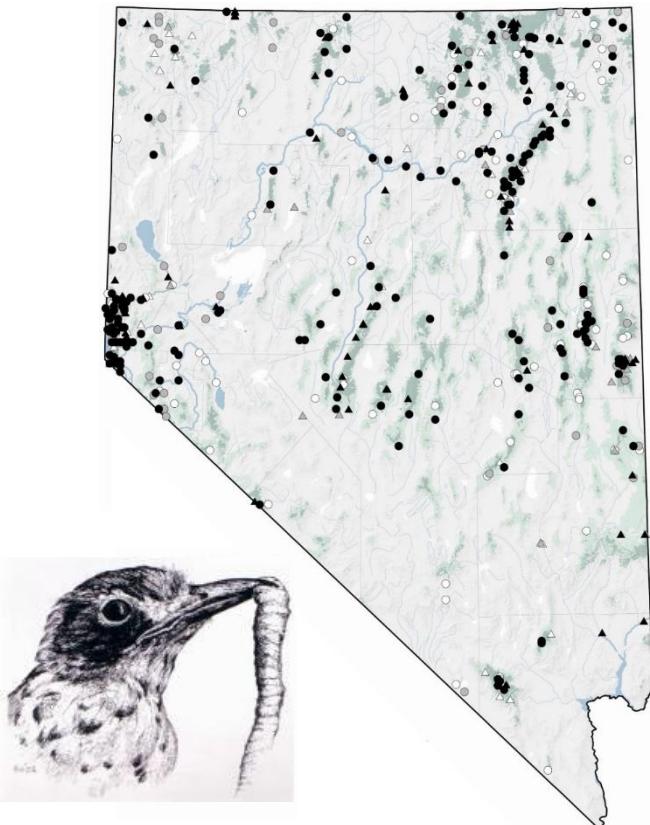
Ted Floyd  
Chris S. Elphick  
Graham Chisholm  
Kevin Mack  
Robert G. Elston  
Elisabeth M. Ammon  
& John D. Boone





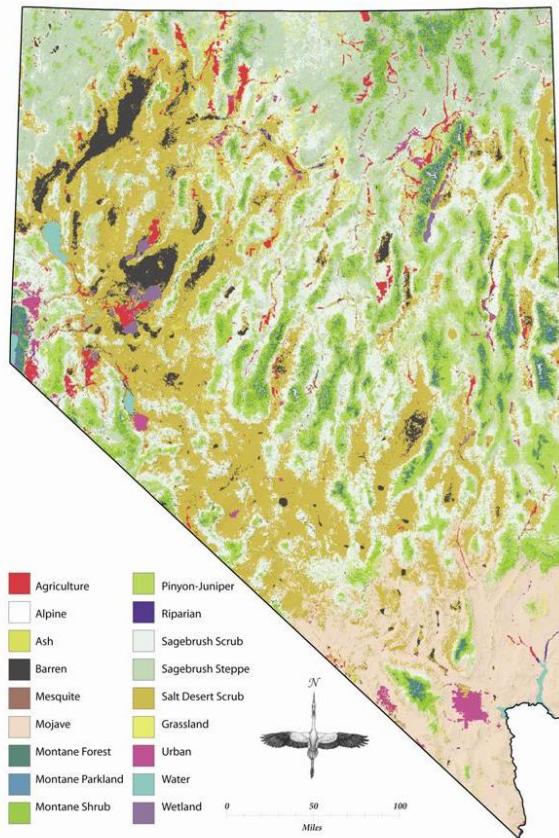


# Species data



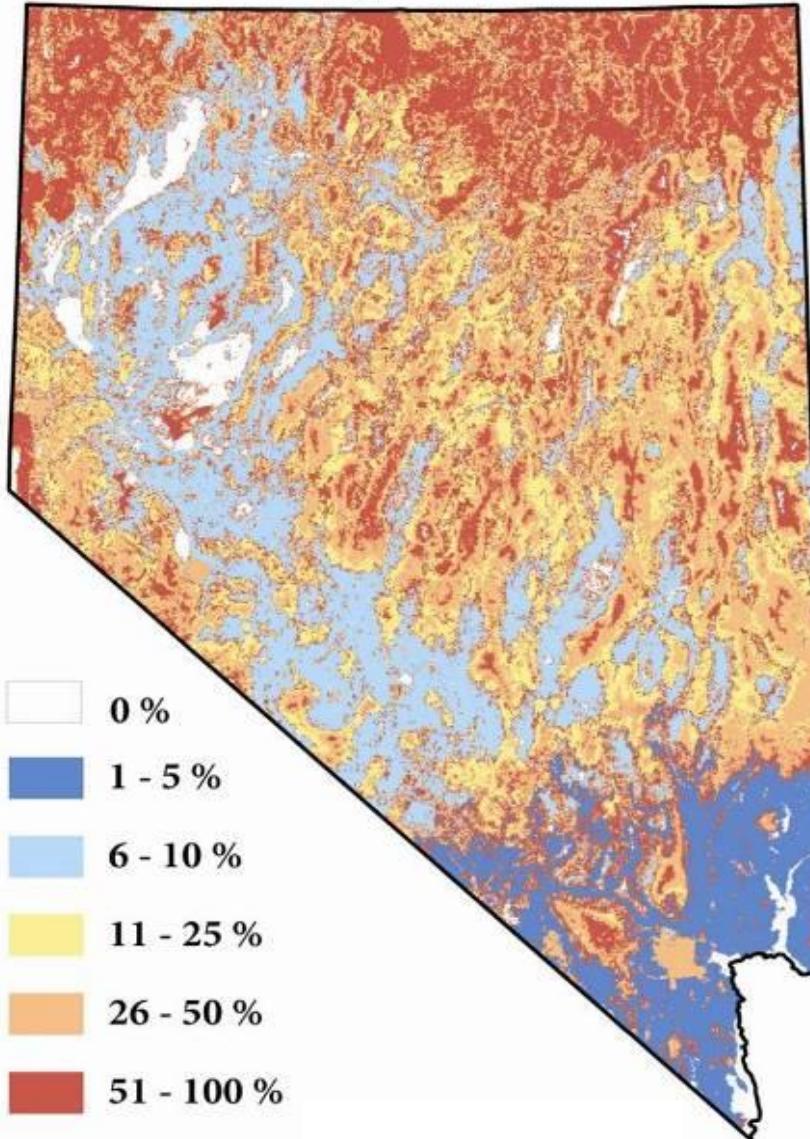
# Habitat data

+



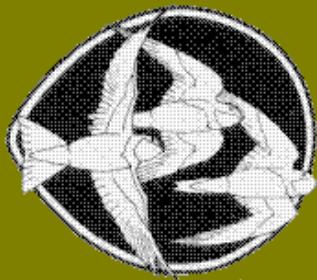
**American robin**

## Probability of Occurrence



# **YEAR 1:**

## **Make initial predictions from existing data ...**



The  
North American  
Breeding Bird  
Survey

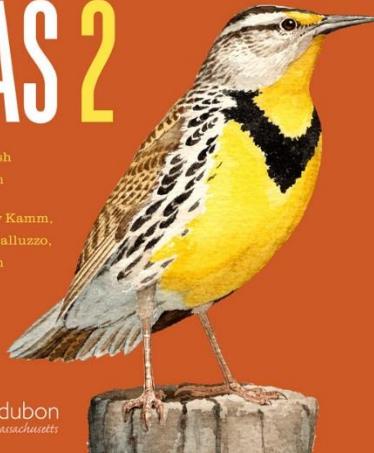


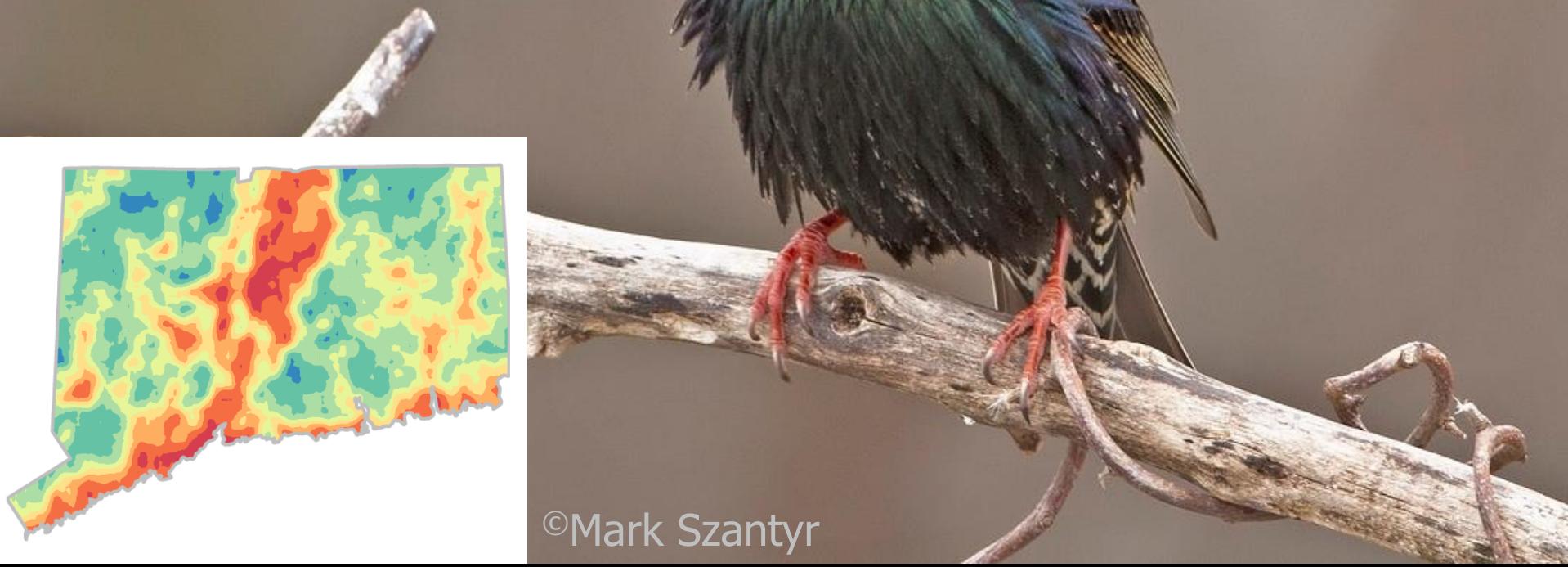
eBird

**MASSACHUSETTS**  
**BREEDING BIRD**  
**ATLAS 2**

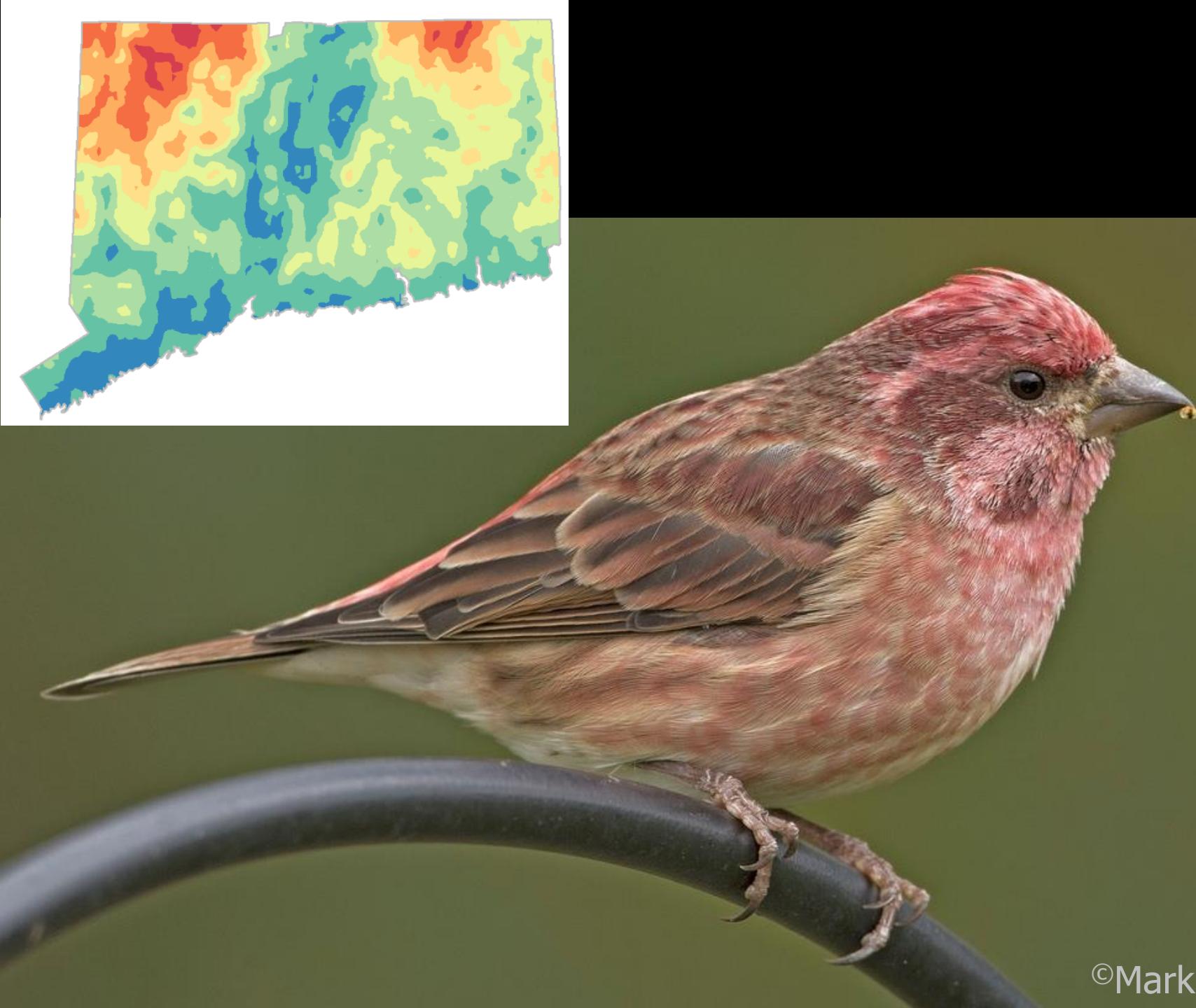
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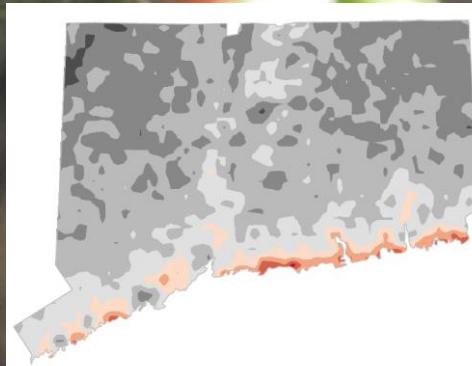
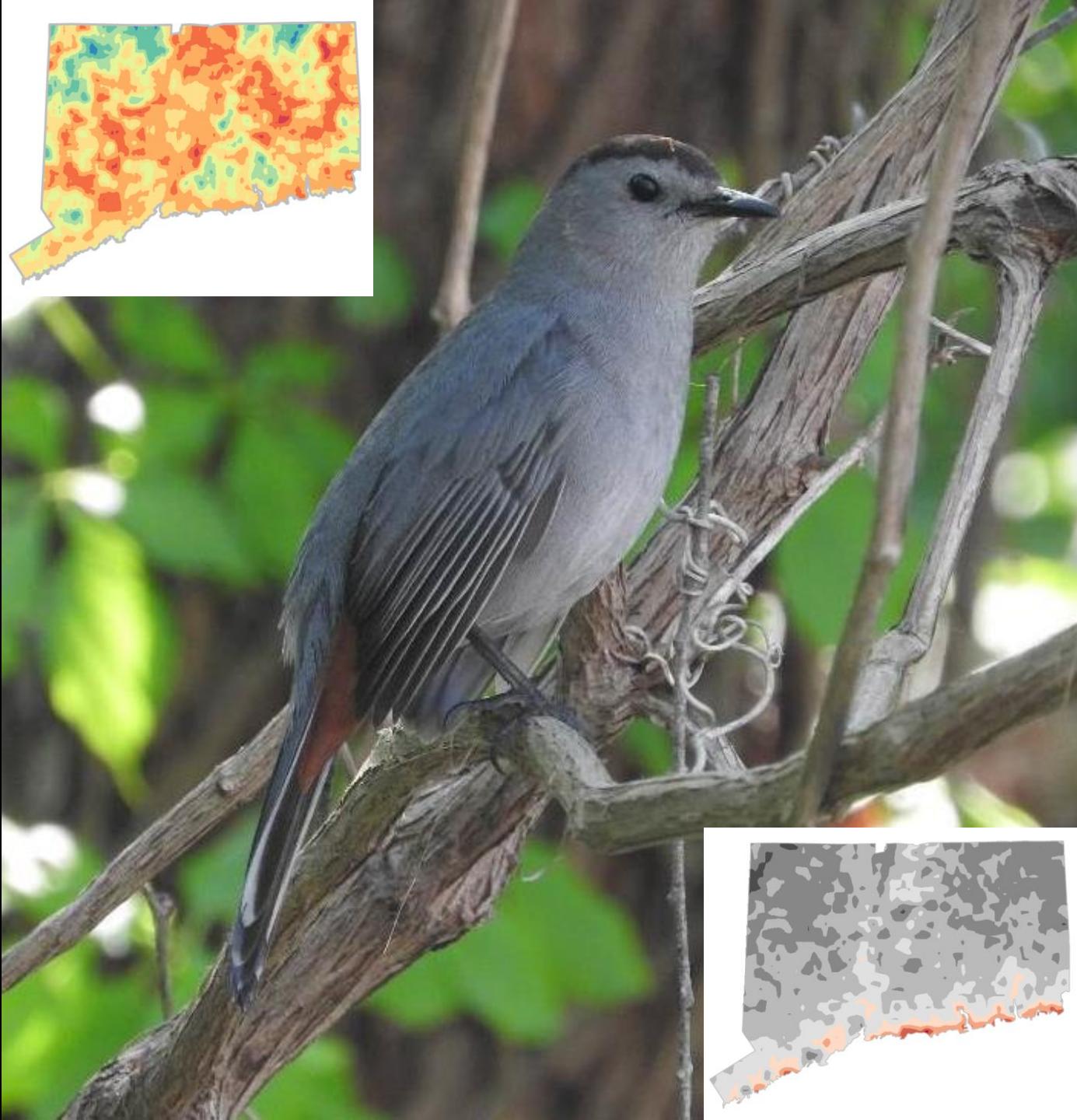
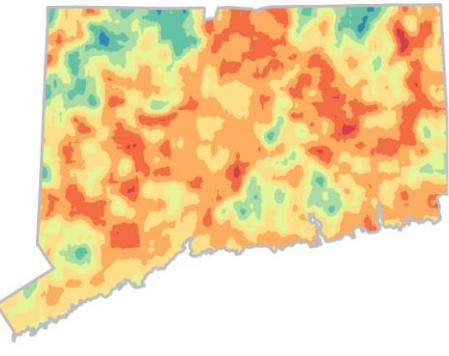




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# **2018-2020: Collect new atlas data**

- 1. traditional citizen science block work**
- 2. point counts to estimate abundance**
- 3. winter surveys**
- 4. migration surveys**



# How can birders help?



# Volunteer to survey a block

# 596 blocks

# Breeding surveys

- Spend up to 20 hours birding over 3 years
- Visit all habitats in a block
- List all species seen
- Record evidence of breeding using standard codes



# Breeding surveys



©Mark Szantyr

T-Mobile Wi-Fi 11:52 63%

< Back Breeding Codes

S Singing Male

S7 Singing Male Present 7+ days

M Multiple (7+) Singing Males

P Pair in Suitable Habitat

T Territorial Defense

C Courtship, Display, or Copulation

N Visiting Probable Nest Site

A Agitated Behavior

B Woodpecker/Wren Nest Building

PE Physiological Evidence

CN Carrying Nesting Material

# Breeding surveys



**Back      Breeding Codes**

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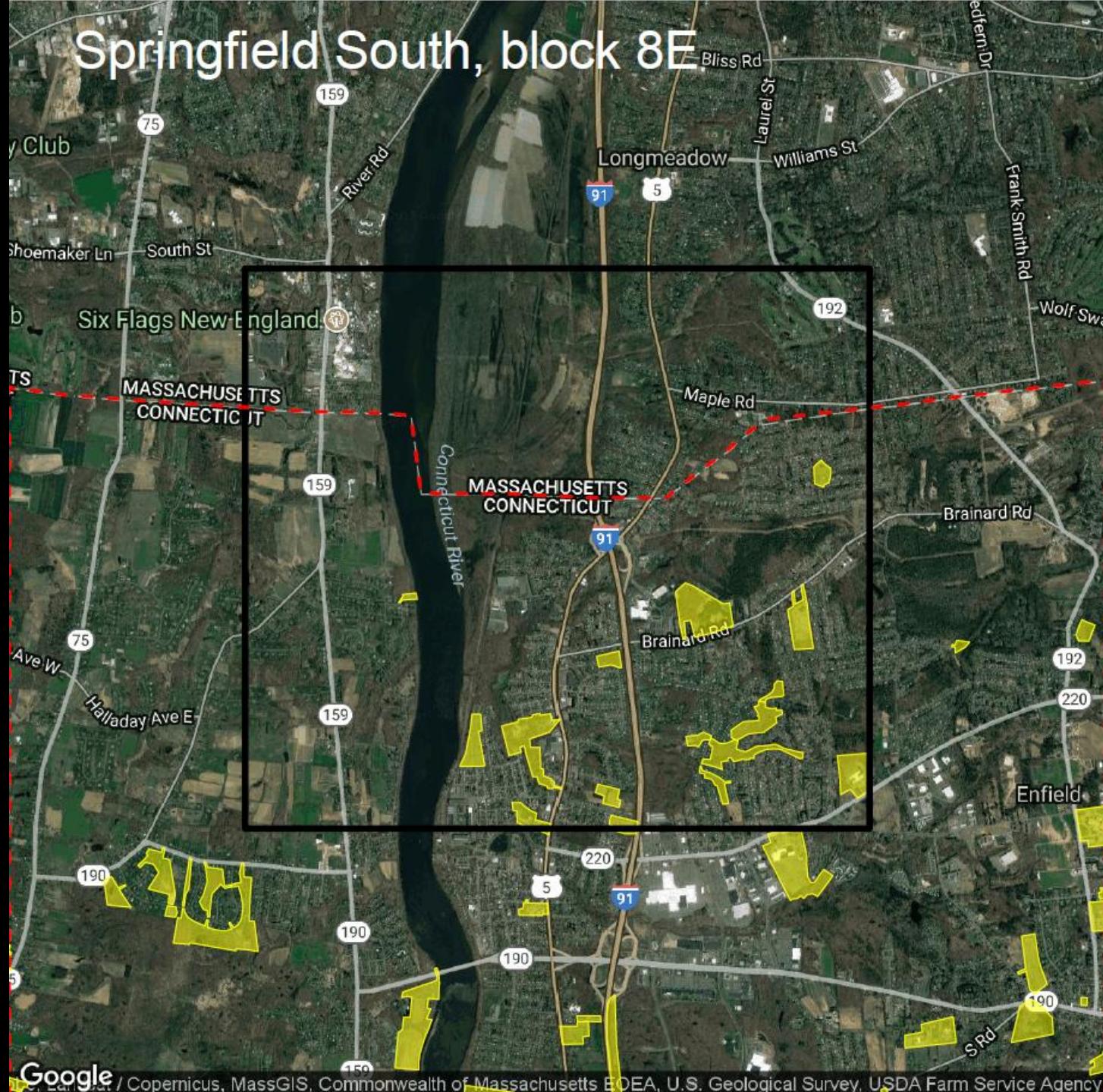
A Agitated Behavior

B Woodpecker/Wren Nest Building

PE Physiological Evidence

**CN Carrying Nesting Material**

# Springfield South, block 8E



Barn Swallow	CO	ON	4Jul
Cliff Swallow			
Purple Martin			



Cedar Waxwing	PR	17Jun
European Starling	CO	AY
White-eyed Vireo		
<b>Yellow-throated Vireo</b>	PR	17Jun
Blue-headed Vireo		

7Jun  
7Jun  
4Jul  
17Jun  
4Jul  
4Jul



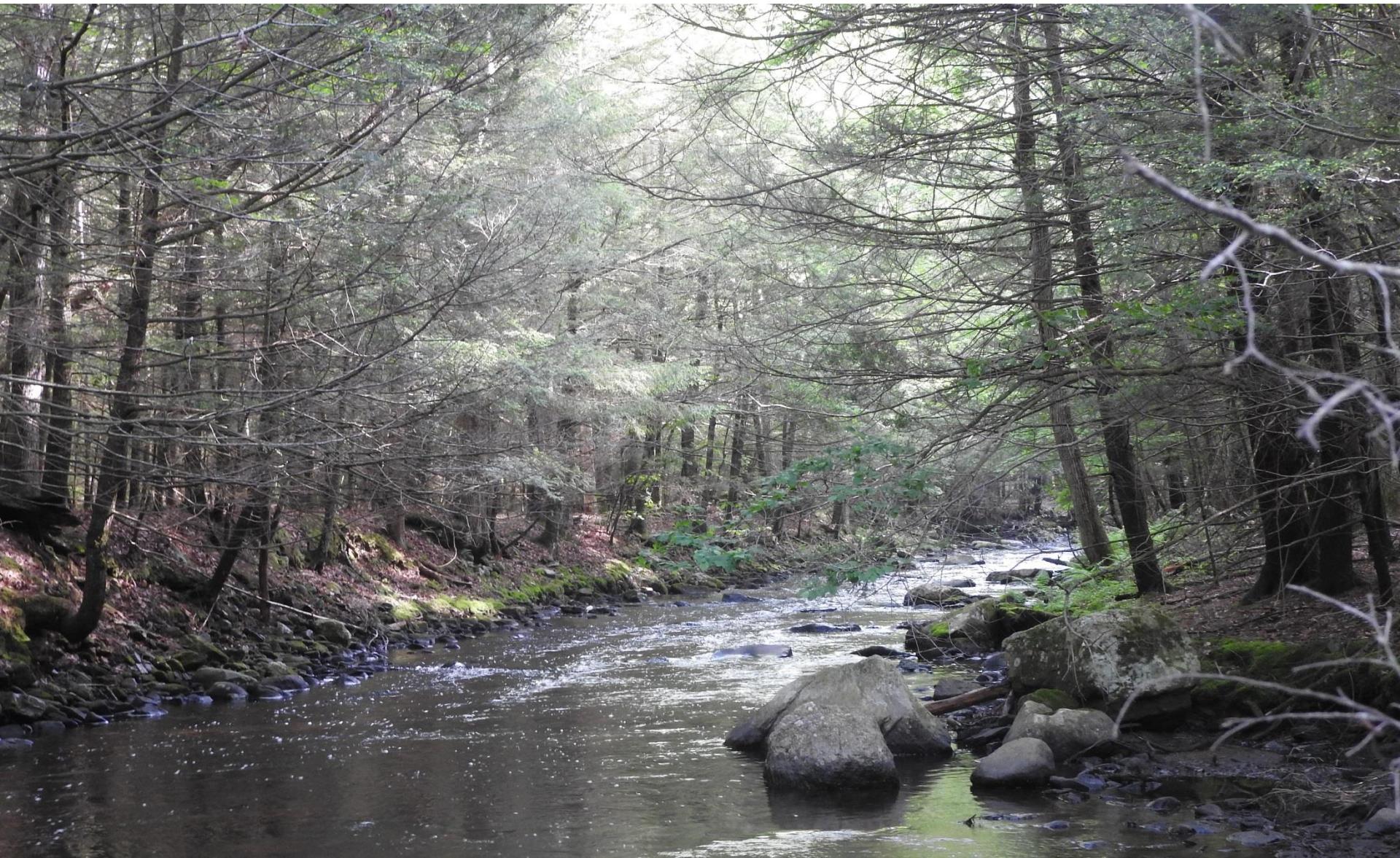
7Jun	Common Grackle	CO	AY	4Jul
	Brown-headed Cowbird	CO	X	17Jun
4Jul	Scarlet Tanager	CO	AY	4Jul
17Jun	Northern Cardinal	PO	A	4Jul
	Rose-breasted Grosbeak	CO	AY	17Jun
	Indigo Bunting	PO	X	17Jun
4Jul	Evening Grosbeak*			
	Purple Finch			
	House Finch	PR	P	17Jun
17Jun	American Goldfinch	PR	P	4Jul
	Eastern Towhee	PR	P	4Jul
	House Sparrow	CO	NY	4Jul
	Savannah Sparrow			
	Grasshopper Sparrow*			

# Winter surveys

**Up to 20 hours/block over three years**



# Lead or join “block-busting” events



# **YEARS 4-5:**

## **Analysis to test/refine predictions**

- **test models**
- **upgrade predictions**
- **compare to 1980s atlas**
  
- **link to other data (e.g., land use)**
- **identify priority areas for conservation  
(IBAs, land trusts, etc.)**
  
- **Post data on-line**

# [ctbirdatlas.org](http://ctbirdatlas.org)

**CONNECTICUT BIRD ATLAS:** STARTS SPRING 2018

## SEEKING **BIRDWATCHERS**

THE CONNECTICUT BIRD ATLAS NEEDS YOUR HELP!

[CONTACT US](#)



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PROTECTING THE STATE'S BIRDS REQUIRES THAT  
WE KNOW WHERE THEY ARE.

# Questions?



To volunteer:  
[ctbirdatlasvol@gmail.com](mailto:ctbirdatlasvol@gmail.com)

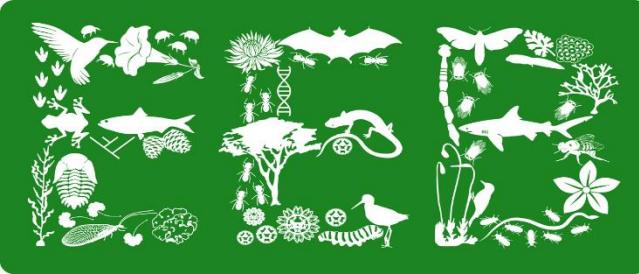
For other information, contact:  
[chris.elphick@uconn.edu](mailto:chris.elphick@uconn.edu)



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**Department of Ecology and Evolutionary Biology  
Center for Conservation and Biodiversity  
University of Connecticut**



Connecticut Department of  
**ENERGY &  
ENVIRONMENTAL  
PROTECTION**