

eBird, Citizen Scientists, & Data – Oh My!



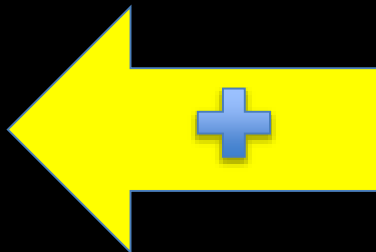
Ashley Dayer & Chris Wood

The **Cornell** Lab  of Ornithology



The Cornell Lab of Ornithology

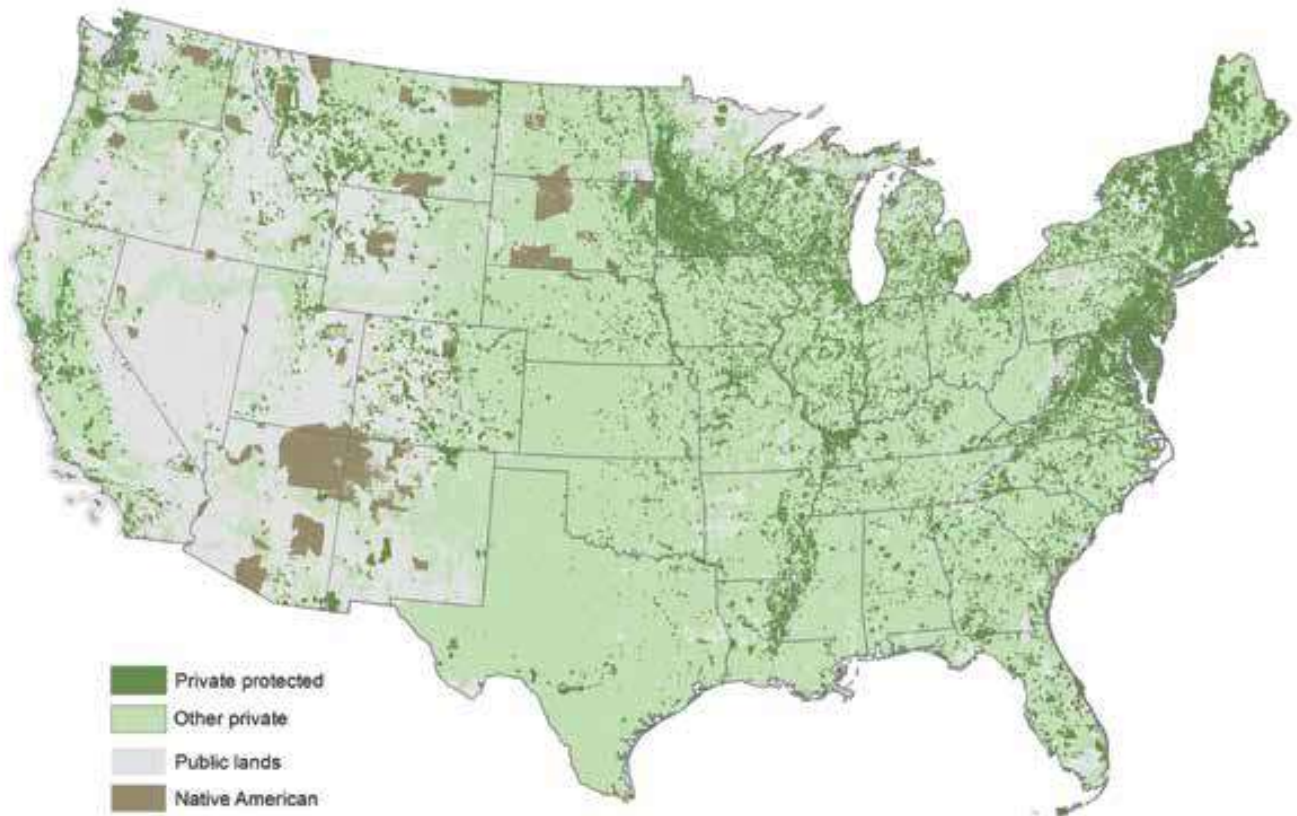
Interpret and **conserve** the earth's biological diversity through research, education, and **citizen science** focused on birds.





“A large number of acres protected by land trusts is most notable in certain bird habitat types: forest, grasslands, and western forest regions.”

THE STATE OF THE BIRDS 2013
REPORT ON PRIVATE LANDS
United States of America



Land Trust Interest in Bird Habitat Conservation and Resources

Welcome

The purpose of this survey is to learn more about your land trust's interest and experience with bird habitat conservation and related resources. Even if your land trust isn't that involved with these topics, we are still interested in your response to this survey so the results better represent all land trusts. Results from the survey will be helpful in preparing educational materials, services, and programs for land trusts of all types.

Your participation in this survey is voluntary, but we encourage you to respond. Hearing back from as many land trusts as possible will ensure that the results of the survey are valid and adequately represent the perspectives of land trusts. Please be assured that your identity will be kept strictly confidential, and your responses will never be associated with your name.

If you have any questions about the survey, please contact Dr. Ashley Dayer at aad86@cornell.edu.

Thank you for your help!

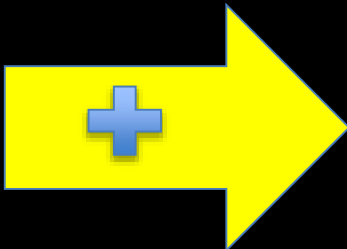
This survey is a cooperative effort of the Cornell Lab of Ornithology, the Land Trust Alliance, and Wings Over Western Waters (a consortium of land trusts and bird habitat Joint Ventures).

Next

Powered by **SurveyMonkey**
Check out our [sample surveys](#) and create your own now!

Nearly **half of land trusts** put land under easement due to birds in the past 5 years

Nearly **2/3** considered birds in management plans



Birding Trail Creates Regional Attraction

The coastal wetlands along Lake Huron's Saginaw Bay are not universally appreciated, even by locals, says Zachary Branigan, Saginaw Basin Land Conservancy's executive director. Not everyone understands the critical role wetlands play for a cleaner lake by acting as a natural filter, or that they offer opportunities for recreational uses, such as kayaking and birding.

That is the primary reason the conservancy planned and created the Saginaw Bay Birding Trail, which links 50 existing parks and preserves along Lake Huron's Saginaw Bay into a regional tourist attraction.

attraction
include
natural
sites
to

Bird Rookeries Talk

04/23/2013 - staff

Join Conservation Foundation of the Gulf Coast on Tuesday, May 7th at 10:00 to 11:30am and enter the fascinating world of bird rookeries. This presentation will give you all the fun facts about bird rookeries in Florida. A rookery is a place where wading birds such as egrets, herons, spoonbills and storks go to find a mate, build nests, incubate eggs and bring up their young. The presentation uses

TRLT Submits \$1,000,000 NAWCA Grant for the Henry's Fork

will share her
birding trips



Wings Over Western Waters

In 2011, Executive Director Andrew Mackie and Executive Director Marie McCarty of the Kachemak Heritage Land Trust, Homer, Alaska, started discussing how they could work together across the West to further local and national bird conservation goals. Drawing from his background in bird conservation, Andrew recognized the opportunity to partner with other land trusts and bird conservation organizations to make a meaningful difference in land conservation. From this initial conversation, Wings Over Western Waters was born.

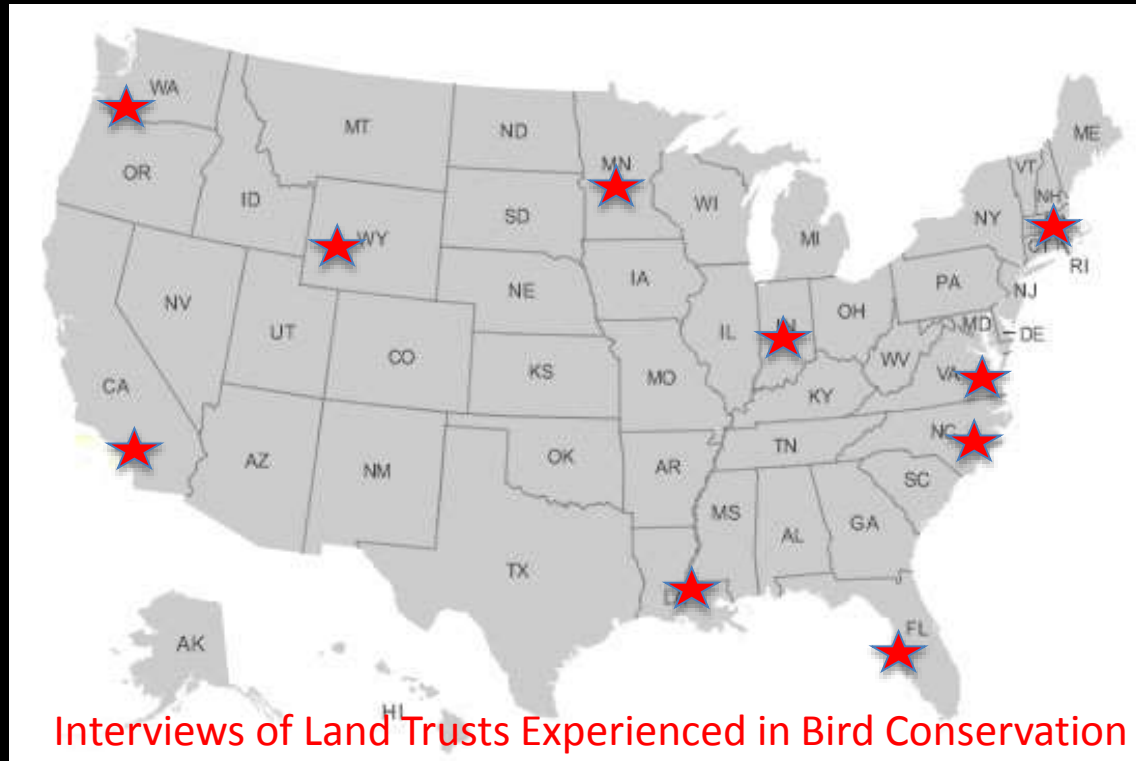
With support of the Intermountain West and the Pacific Coast Joint Ventures we have been working with land trusts of the Snake River in the West. The initial focus of this program is on two critical habitat types in the West: riparian and wetlands. These water dependent habitats are important for a variety reasons. Each comprises only a small percentage of the overall Western landscape, but provides significant benefits for agriculture, fisheries, wildlife, water quality, and outdoor recreation. The Land Trust of the Upper Arkansas is focused on all of these benefits so incorporating bird conservation goals into the existing land conservation strategy will only help bring more resources to the effort. Wings Over Western Waters will also let the Land Trusts contribute to a larger conservation effort with significance across the West by providing migratory bird habitat for species identified as declining.

“Partners matching funds”

“Membership growth”

“More land protected”

“Grants for birds”



“Buzz about land trusts’ bird activities”

“Increased event participation & volunteerism”

“Increased awareness of mission”

“We get to enjoy more birds!”



Birdwatchers = Citizen Science = Benefits for Land Trusts

79% of land trusts agreed
that they would increase their bird and
habitat conservation with availability of
volunteers to inventory or monitor birds

76% of land trusts agreed
that they would increase their bird and
habitat conservation with availability of a
tool to allow staff or volunteers to
inventory or monitor birds

eBird

eBird Participation

- 278 million observations
- 20 million checklists
- 2.11 million locations
- Every country in the world
- 10209 species (98% of all species)
- 14,587,978 hours in the field

18% of land trusts used
eBird in the last 5 years

eBird

A Tool for Land Protection & Management



Birdwatchers = Citizen Science = Benefits for Land Trusts

- Selection of land for protection
- Data for grant proposals
- Justification of easements
- Repository for inventory and monitoring efforts
- Connection to citizen scientists → volunteers → supporters → donors?



View and Explore Data



[Explore a Location](#) BETA

Recent sightings, checklists, birding activity, best hotspots, and top birders for a county, state, province, or country.



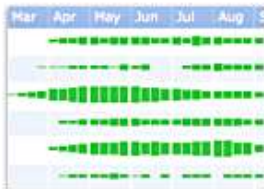
[Explore Hotspots](#) BETA

Discover the best places for birding nearby or around the world.



[Range and Point Maps](#)

Explore interactive range maps by species or subspecies — zoom in for details



[Bar Charts](#)

Find out what birds to expect throughout the year in a region or location

Your Totals

Track your totals and compare with other eBirders.

[Yard Totals](#)

How many species and checklists have you submitted for your yard?

[Patch Totals](#)

How many have you submitted for your favorite birding patches?

[Top 100](#)

Compare with the top eBirders in your region.

My eBird

Manage your personal lists, observations, locations, and account settings.

Your Life List: [2705 Species](#)

Updated 11 sec ago.

Your Stats

	Life	Year	Month	
Total Species	2705	803	274	
Total Checklists	14673	961	198	
ABA Area Total Ticks	8806	524	150	

Your Lists

Major Regions	Country	State/Province	County	
	Life	Year	Total County Ticks	
Colorado	434	45	5543	
Veracruz	420	0	--	
Texas	390	0	2703	
Chiapas	368	0	--	
New York	363	236	4581	
California	315	224	980	
Florida	315	0	1799	
New Jersey	302	0	746	
Jalisco	297	0	--	
Kansas	292	0	1207	
Minnesota	289	0	1826	
Illinois	271	0	1728	



Missouri [Change Region](#)

Updated ~7 hrs ago.

Top 100 eBirders in Missouri: [406](#) Species

All Time ▾

Submit

You

Rank	Complete Checklists	Species	Most Recent Addition – Jun 30, 2014
159	17	172 42.36% of total	Chuck-will's-widow <i>Antrostomus carolinensis</i>

Everybody

By Checklists

By Species

	Observer	Complete Checklists	Species (% of total)	Most Recent Addition
1	Joshua Uffman	4540	353 (86.95%)	Golden-cheeked Warbler <i>Setophaga chrysoparia</i> (Apr 19, 2013)
1	Larry Lade	126	353 (86.95%)	Common Redshank <i>Tringa totanus</i> (Feb 24, 2012)
3	Matt Gearheart	403	323 (79.56%)	Northern Goshawk <i>Accipiter gentilis</i> (Oct 18, 2013)
4	Michael Beck	2301	312 (76.85%)	Willow Flycatcher <i>Empidonax traillii</i> (May 24, 2013)
5	Scott Schuette	912	311 (76.6%)	Red Crossbill <i>Loxia curvirostra</i> (Dec 27, 2012)
5	Keith Brink	643	311 (76.6%)	Laughing Gull <i>Leucophaeus atricilla</i> (Jun 1, 2013)
5	Doug Willis	245	311 (76.6%)	Mute Swan <i>Cygnus olor</i> (Dec 19, 2013)

eBird Location Explorer

Select a region:

Tompkins County, NY

Select Hotspot Tab

Tompkins Change Location

New York, US

All Years ▼ Set



Overview Hotspots Recent Visits

325 Species | 75,448 Checklists

Updated ~12 hrs ago.

Last Seen First Seen High Counts Bar Charts ➔ Show All Details

	SPECIES NAME ▼	COUNT ▼	DATE ▼		BY
1	Mallard <i>Anas platyrhynchos</i>	1	25 Aug 2014	📍	Jay McGowan
2	Mourning Dove <i>Zenaidura macroura</i>	5	25 Aug 2014	📍	Jay McGowan
3	Carolina Wren <i>Thryothorus ludovicianus</i>	1	25 Aug 2014	📍	Jay McGowan
4	Northern Cardinal <i>Cardinalis cardinalis</i>	3	25 Aug 2014	📍	Jay McGowan
5	Red-tailed Hawk <i>Buteo jamaicensis</i>	1	25 Aug 2014	📍	Jeremy Pardo
	gull sp. <i>Larinae sp.</i>	45	25 Aug 2014	📍	Jeremy Pardo
6	Common Nighthawk <i>Chordeiles minor</i>	1	25 Aug 2014	📍	Matthew Medler
7	Ring-billed Gull <i>Larus delawarensis</i>	5	25 Aug 2014	📍	Jay McGowan
8	American Crow <i>Corvus brachyrhynchos</i>	1	25 Aug 2014	📍	Jay McGowan
9	Barn Swallow <i>Hirundo rustica</i>	2	25 Aug 2014	📍	Jay McGowan
10	Black-capped Chickadee <i>Poecile atricapillus</i>	1	25 Aug 2014	📍	Jay McGowan
11	American Robin <i>Turdus migratorius</i>	4	25 Aug 2014	📍	Jay McGowan
12	European Starling <i>Sturnus vulgaris</i>	6	25 Aug 2014	📍	Jay McGowan
13	Chipping Sparrow <i>Spizella passerina</i>	1	25 Aug 2014	📍	Jay McGowan
14	Savannah Sparrow <i>Passerculus sandwichensis</i>	1	25 Aug 2014	📍	Jay McGowan

TheCornellLab of Ornithology



BIRDS OF NORTH AMERICA ONLINE

Complete Life Histories

ONLY \$5 for 30 days of complete access

SUBSCRIBE

Recent Visits

Checklists submitted within the last hour are not shown.

OBSERVER	DATE		SPECIES
David Weber	26 Aug 2014	📍	17
Tom Schulenberg	26 Aug 2014	📍	18
Jane Graves	26 Aug 2014	📍	5
Marshall Iliff	26 Aug 2014	📍	1
Kevin McGowan	26 Aug 2014	📍	12
David Weber	26 Aug 2014	📍	4
Kevin McGowan	26 Aug 2014	📍	11
Marshall Iliff	26 Aug 2014	📍	4
Jay McGowan	26 Aug 2014	📍	40
Chris Wood	26 Aug 2014	📍	20

More Recent Visits...

Top eBirders

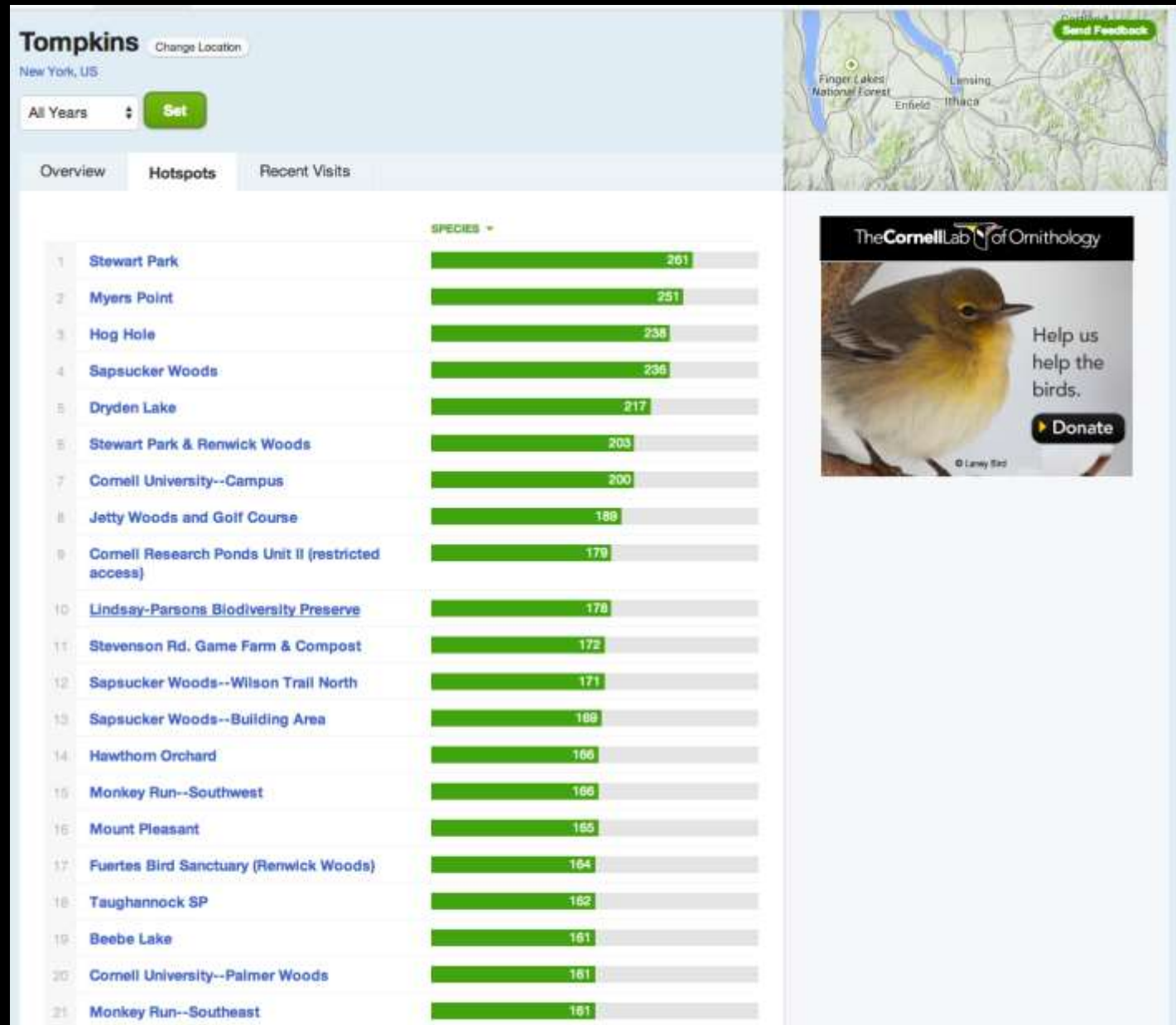
BY SPECIES | BY CHECKLISTS Updated ~12 hrs ago.

1	Jay McGowan	307
2	Tim Lenz	298
3	Chris Wood	286

Select an eBird
hotspot:

Lindsay-
Parsons
Biodiveristy
Preserve

Finger Lakes
Land Trust



Lindsay-Parsons Biodiversity Preserve Edit

Tompkins County, New York, US — [Get Directions](#)

All Months ▾

All Years ▾

Set

Submit Data

Overview

Recent Visits

178 Species | 337 Checklists

Updated 4 sec ago.

Last Seen

First Seen

High Counts

Bar Charts ➔

[Show All Details](#)

	SPECIES NAME ▾	COUNT ▾	DATE ▾	BY
1	Wood Duck <i>Alx sponsa</i>	35	25 Aug 2014	Benjamin Freeman
2	Ruffed Grouse <i>Bonasa umbellus</i>	2	25 Aug 2014	Benjamin Freeman
3	Great Blue Heron <i>Ardea herodias</i>	2	25 Aug 2014	Benjamin Freeman
4	Green Heron <i>Butorides virescens</i>	7	25 Aug 2014	Benjamin Freeman
5	Mourning Dove <i>Zenaida macroura</i>	5	25 Aug 2014	Benjamin Freeman
6	Common Nighthawk <i>Chordeiles minor</i>	5	25 Aug 2014	Benjamin Freeman
7	Ruby-throated Hummingbird <i>Archilochus colubris</i>	1	25 Aug 2014	Benjamin Freeman
8	Belted Kingfisher <i>Megasceryle alcyon</i>	2	25 Aug 2014	Benjamin Freeman
9	Red-bellied Woodpecker <i>Melanerpes carolinus</i>	1	25 Aug 2014	Benjamin Freeman
10	Downy Woodpecker <i>Picoides pubescens</i>	1	25 Aug 2014	Benjamin Freeman
11	Hairy Woodpecker <i>Picoides villosus</i>	4	25 Aug 2014	Benjamin Freeman
12	Northern Flicker <i>Colaptes auratus</i>	1	25 Aug 2014	Benjamin Freeman
13	Eastern Wood-Pewee <i>Contopus virens</i>	3	25 Aug 2014	Benjamin Freeman
	Alder/Willow Flycatcher (Traill's Flycatcher) <i>Empidonax alnorum/traillii</i>	4	25 Aug 2014	Benjamin Freeman



eBird

Feed your habit.

Donate Now

Recent Visits

Checklists submitted within the last hour are not shown.

OBSERVER	DATE	SPECIES
Benjamin Freeman	25 Aug 2014	47
Alexandra Class	25 Aug 2014	47
Benjamin Freeman	22 Aug 2014	45
Graham Montgomery	22 Aug 2014	45
Garrett MacDonald	13 Aug 2014	42
Diane Morton	9 Aug 2014	30
Kenneth Kemphues	9 Aug 2014	29
Jay McGowan	1 Aug 2014	45
Livia Santana	1 Aug 2014	45
Shawn Billerman	1 Aug 2014	45

[More Recent Visits...](#)

Top eBirders

BY SPECIES | BY CHECKLISTS

Updated 4 sec ago.

1 Benjamin Freeman	138
2 Chris Wood	127

eBird HotSpot Explorer

Hotspot: Date: Location: [Close All Windows](#)[Send Feedback](#)[Zoom Tool](#)**Lindsay-Parsons Biodiversity Preserve, Tompkins, US-NY****Lindsay-Parsons Biodiversity Preserve--East Ridge, Tompkins, US-NY****Lindsay-Parsons Biodiversity Preserve--Station Rd. (Danby SF boundary), Tompkins, US-NY****Lindsay-Parsons Biodiversity Preserve--Thatchers Pinnacles, Tompkins, US-NY**

Year-round, All Years

109

SPECIES

102

CHECKLISTS

[Bar Charts](#) | [High Counts](#) | [Directions](#)[Submit Data](#)[View Details](#)**Lindsay-Parsons Biodiversity Preserve** [Edit](#)

Tompkins, US-NY

Year-round, All Years

178

SPECIES

337

CHECKLISTS

[Bar Charts](#) | [High Counts](#) | [Directions](#)[Submit Data](#)[View Details](#)

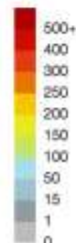
MAP TYPE

☒ Street☐ Terrain☐ Satellite☐ Hybrid

FILTER BY RECENT ACTIVITY ?

☒ All Hotspots☐ Past Month☐ Past Week

SPECIES OBSERVED ?



Data Download

Request Download Access

eBird

Avian Knowledge Network

Name and Email: Ashley Dayer | aad86@cornell.edu [Edit](#)

Organization:

Project Title:

Project Type: Academic/Student

Abstract:

Please describe your project and how you plan to use the data

Terms of Use:

☐ I accept the [Terms of Use](#)

Submit Request

Management and Conservation

[SECTIONS](#)   **The New York Times** [TRY TIMES PREMIER](#)  

SCIENCE 73 COMMENTS

Paying Farmers to Welcome Birds

By **JIM ROBBINS** APRIL 14, 2014

 EMAIL

 FACEBOOK

 TWITTER

 SAVE

 MORE

WHEATLAND, Calif. — The Central Valley was once one of North America's most productive wildlife habitats, a 450-mile-long expanse marbled with meandering streams and lush wetlands that provided an ideal stop for migratory shorebirds on their annual journeys from South America and Mexico to the Arctic and back.

Farmers and engineers have long since tamed the valley. Of the



Snow geese seen from above massing in the Sacramento Valley, a stop in their migratory journey. Drew Kelly/The Nature Conservancy

BELLE
NOW PLAYING
GET TICKETS



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The Nature
Conservancy

Protecting nature. Preserving life.®





Birdwatchers = Citizen Science = Benefits for Land Trusts

- Selection of land for protection
- Data for grant proposals
- Justification of easements
- Repository for inventory and monitoring efforts
- Connection to citizen scientists → volunteers → supporters → donors?
- **Contribute to conservation science**

eBird Results

In the Last 18 Months

- 6236 individual data requests
- 14998 data downloads

Resulting In:

- 120 peer-reviewed publications
- Ecology, Artificial Intelligence Magazine, Current Biology
- Topics such as climate change (see link on handout)

Thank you

The **Cornell** Lab  of Ornithology

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