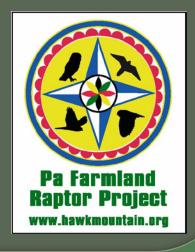
# Engaging the Private Landowner in Conserving American Kestrels Pennsylvania's Farmland Raptor Project







Laurie Goodrich & Katie Andrews



## Farmland Raptors in Pennsylvania Have Declined Dramatically During the Past Twenty Years

SHORT-EARED OWL

**NORTHERN HARRIER** 







Threatened in Pennsylvania

#### **Breeding Bird Atlas 1980s to 2000s**

**Northern Harrier** 

- 48%
Harrier

#### **AMERICAN KESTREL**

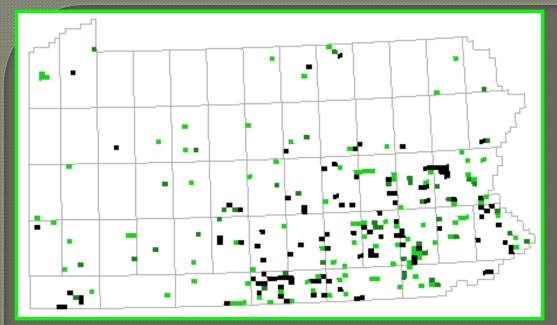
#### **BARN OWL**



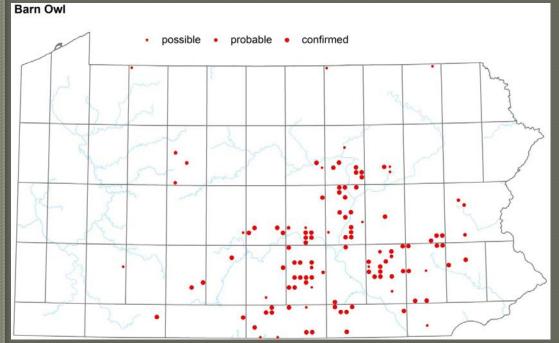
Populations declining in Eastern North America



Declining in Pennsylvania (SSC)



PA BREEDING BIRD ATLAS MAPS



1984-1989 (220 blocks)

53%
decline
in Barn
Owl
nesting
locations

2004-2008 (117 Blocks)

#### **PROBLEM:**

- --Declining populations of farmland-associated birds, some threatened & endangered --Lack of survey data on rare species
- -- Most field habitats are privately owned



?Solution?:
Engaging
Landowners
in conservation

## The Farmland Raptor Project

#### Goal = Reach out to landowners to:

- Enlist help in locating breeding and wintering sites
- Encourage farmland owners to put up boxes, delay mowing for harriers and owls
- Encourage birders to report sightings to us or to *EBird* to identify key sites winter and summer
- Encourage birders to revisit historical sites
- Create easy to use on-line system of reporting
- Include staff verification/education



## Project Goals 2012-2016

- Gather updated information on distribution of four species of declining farmland raptors in Pennsylvania
- Improve collaboration and reward land owners



## Outreach BARN OWL -----Collaborate with PA Game Commission





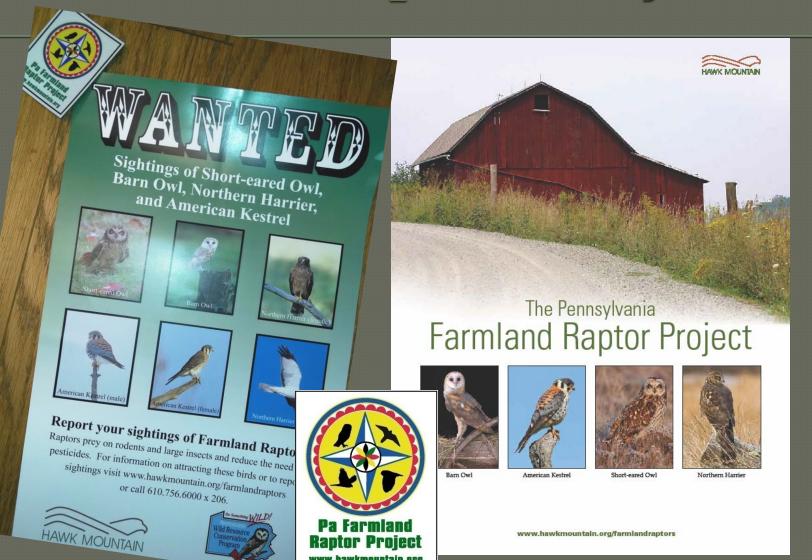


## Landowner recognition

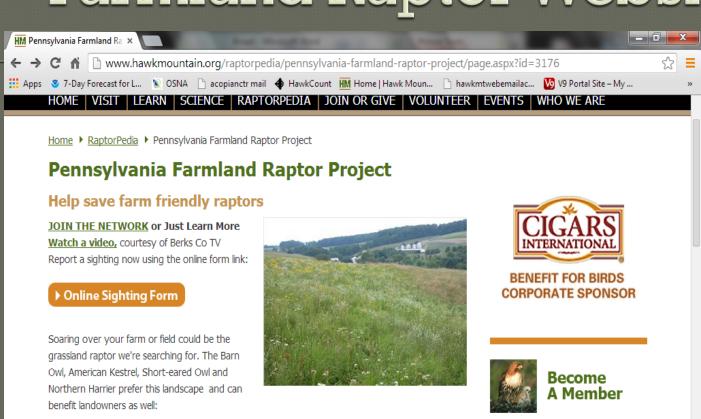




## Farmland Raptors Project



### Farmland Raptor Website



- · Raptors on your property indicate a healthy environment
- · Raptors prey on rodents, snakes and large insects
- Less rodents and insects mean you can reduce the amount of pesticides used
- Raptors are impressive to watch and fun to identify
- · Improve habitat at home--and maybe make some money!

#### Why are farmland raptors in decline?

Habitat loss







































## Online Sighting Report Form

#### **Farmland Raptor Sightings** Species Number Seen ▼ Behavior Habitat Date Please enter GPS coordinates or nearest crossroads. Or select GPS coordinates by clicking the 'GeoPicker below. GeoPick How do I get GPS Coordinates +Add Another **Sighting General Comments**

**Landowner Information** 

**Observer Information** 

## New Displays for Outreach



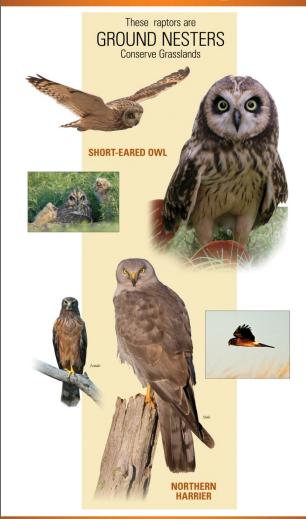
## Conserve Our Farmland Raptors



HAWK MOUNTAIN

Join the Pennsylvania Farmland Raptor Network www.hawkmountain.org/farmlandraptors

#### Conserve Our Farmland Raptors





Join the Pennsylvania Farmland Raptor Network www.hawkmountain.org/farmlandraptors

#### PROJECT OUTREACH



2012-2013— > 9,000 people



#### **Events, Talks, Articles in 2016**

#### Fairs, Talks, Presentations

PA Farm Show (7 day)

PSU Ag Day \*\*

PA Sustainable Agricultural

Conference \*\*

Kutztown Future Farmers of

America

Blue Mountain Wildlife Asso.

PA Young Farmers Asso. Winter

Meeting

Kutztown Middle School

Schuylkill County Fair

PA German Cultural Heritage

Center

Kempton F

Heemet Fescht

Christmas on the Farm

Hope Hill Lavender Farm Fest

Berks County Parks Go Fly a Kite Day

Meridian Bank Retiree Group Luncheon

**Covered Bridge Festival** 

Ag Progress Days\*\*

Somerset County Fair

Old Dry Road Farm Fall Festival

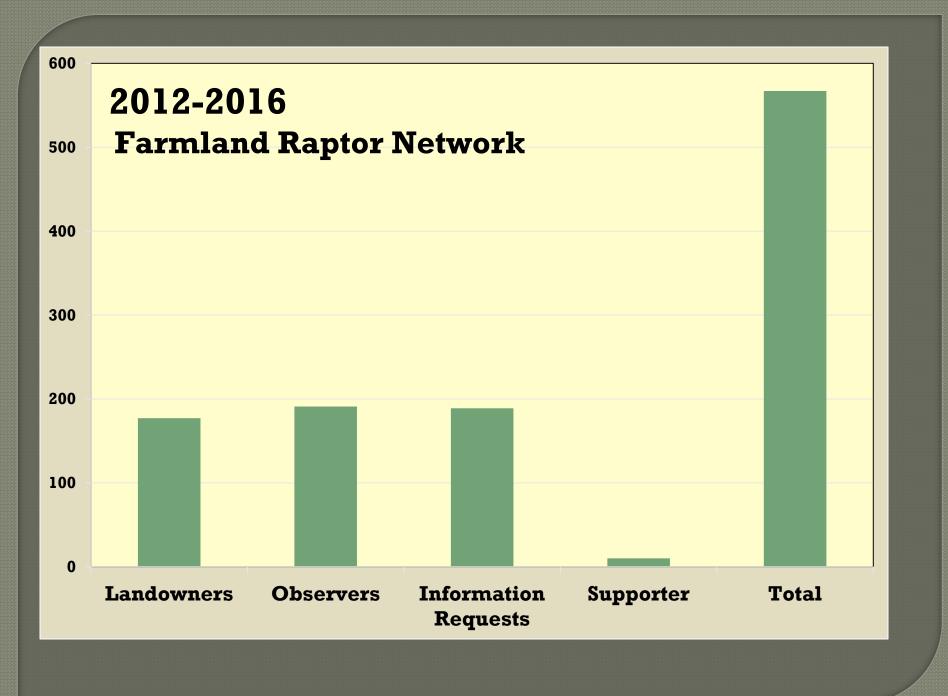
#### **Journals Articles:**

Historic Barn and Farm Foundation Hay and Forage Grower Farming Magazine

\*\*Done by Shavers Creek Raptor Center

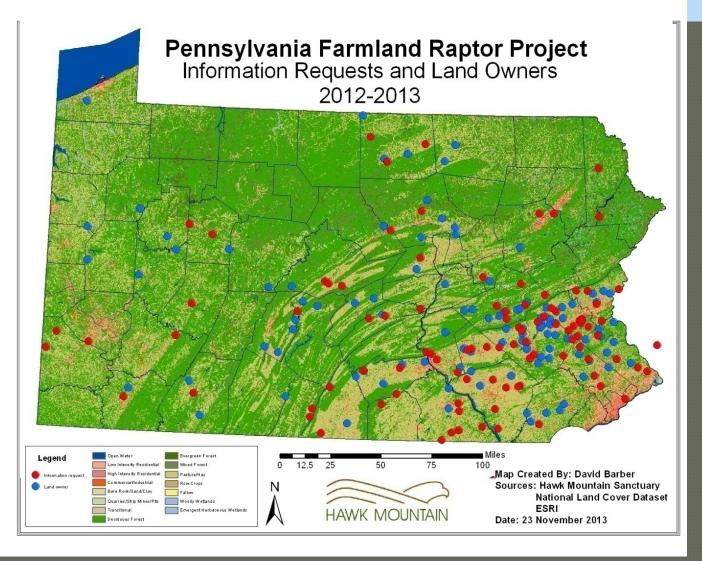
Involving students & scouts in boxes

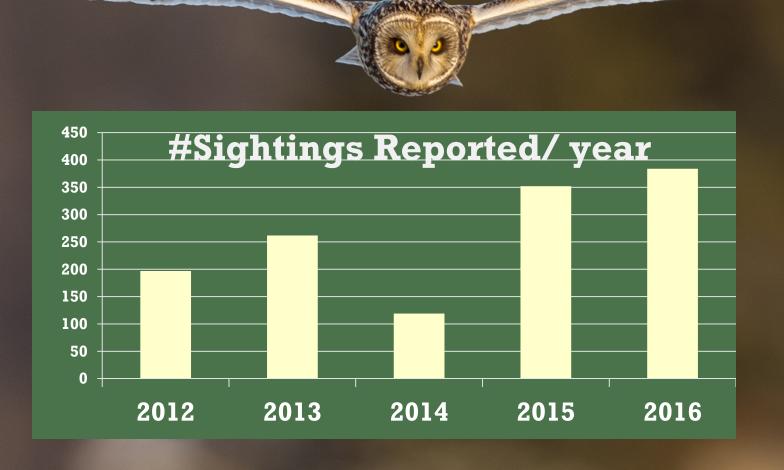




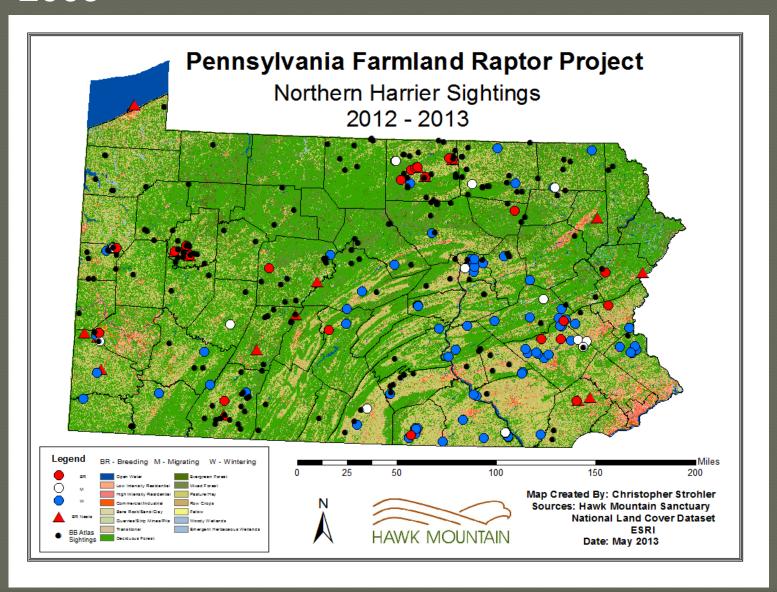
## Results 2012 -2013

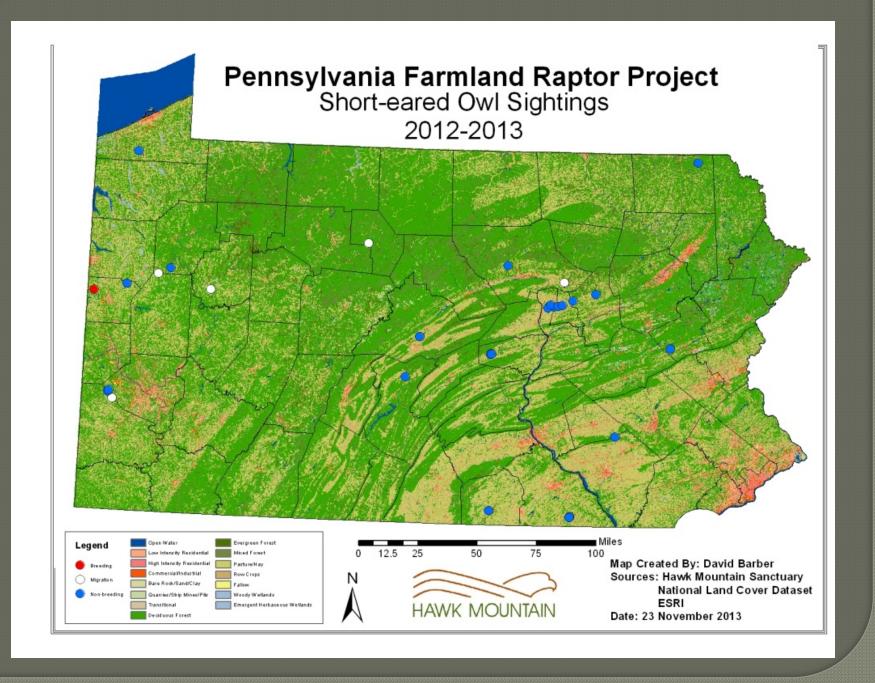




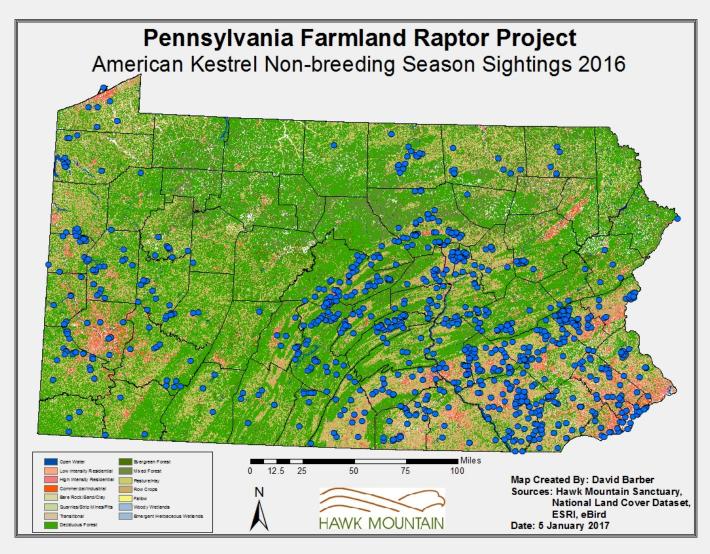


## Compared to Atlas records from 2004-2009





## Wintering Kestrels



#### **Kestrels in Education at Hawk Mountain**

Kestrel Web Cam (& videos)
Teacher Workshop
Kestrel Curriculum



FOR INFO
see www.hawkmountain.org
Or Erin Brown,
brown@hawkmountain.org



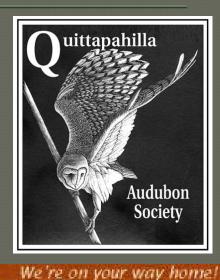


### Donors





Strausstown Rod and Gun Club

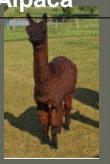


REIFSNYDER'S

Ag Center

BARN (Berks Ag)

OverHome Alpaca

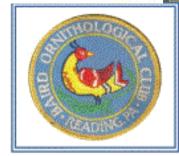




**Blue Rocks Campground** 



WILD BIRDS UNLIMITED shillington



## Acknowledgments

- Photos provided by Brent Bacon, Vic Berardi, Dan Mummert, Mary Linkvich, VIREO, Shawn Carey, David McNicholas, Vic Berardi, Rick Carlson, Bill Moses.
- Volunteers—Katie Andrews, Sheila Miller,
   Peter Phelan, Annie Stockmail, Kutztown High
   School, Marc Robinson, HMS volunteers
- <u>Partners</u> Shavers Creek Raptor Center
   Pennsylvania Game Commission

## JOIN THE EFFORT TO CONSERVE FARMLAND RAPTORS

Contact us with questions or sightings at:

Email: info@hawkmountain.org

Phone: 570-943-3411 x 106

By mail:

Hawk Mountain Farmland Raptor Project 1700 Hawk Mountain Road Kempton, PA 19529.