

## How YOU Can Help

Play a significant role in this important conservation effort by adopting today.

All adoptions receive an official certificate, magnet and annual newsletter.

### \$50

Children 12 and under

- Engage a young conservationist or nature-lover.
- Small gift included.

### \$100

- Support ongoing broadwing nest monitoring.

### \$500

- Support a week of nest searching in Pennsylvania or New England.

### \$1000

- Support a trapping team in the field and project supplies.
- Donor visit to Pennsylvania nest.

### \$3500

- Support the purchase of transmitter and one year of location data.
- Name the broadwing fitted with the transmitter and visit a nearby nesting site.

### \$5000

- Support a research team in the field, transmitter purchase and related costs.
- Name a broadwing fitted with the transmitter.
- Private program for you and up to 9 guests, including lunch and a visit to a broadwing nest.



## Adopt a Broadwing

Scan and email, or mail to Hawk Mountain Sanctuary

### I/we would like to adopt a broadwing:

\$50  \$100  \$500  \$1,000  \$3,500  \$5,000

Name \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Phone \_\_\_\_\_

Email \_\_\_\_\_

### I/we would like to adopt a broadwing as a gift for:

\$50  \$100  \$500  \$1,000  \$3,500  \$5,000

Name \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Phone \_\_\_\_\_

Email \_\_\_\_\_

Relationship to recipient \_\_\_\_\_

Gift Occasion \_\_\_\_\_

Additional gift of \$ \_\_\_\_\_ is enclosed

Send adoption package to:  Me  gift recipient

### Payment by:

Check (made payable to Hawk Mountain Sanctuary)

Mastercard  Visa  Discover

Account # \_\_\_\_\_

Expiration Date \_\_\_\_\_

Signature \_\_\_\_\_

Total Enclosed \$ \_\_\_\_\_

### Hawk Mountain Sanctuary Association

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# Adopt a Broadwing

Broad-winged hawks are one of the most abundant migrants observed at Hawk Mountain each autumn. However, regional declines have been documented in northeastern states, including a 16% decline in nesting distribution in Pennsylvania.

Broadwings fly in flocks or "kettles" that can number several hundred birds flying together in Pennsylvania and thousands flying together in Texas and Mexico. And, although they are the most numerous migrant seen in the east, comparatively little research has been conducted on habitat needs or migration and wintering ecology.

In 2014, Hawk Mountain launched The Broad-winged Hawk Project, focusing on various aspects of their ecology during both the breeding and nonbreeding periods.





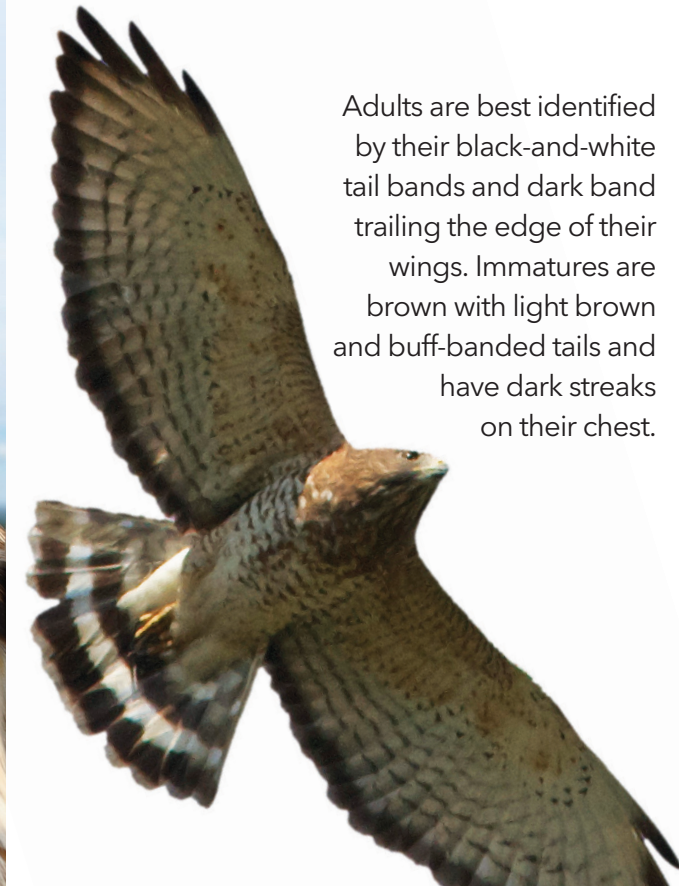


Hawk Mountain continues to study broadwings nesting in Pennsylvania. In spring, researchers and volunteers search for nesting broadwings and once found, they observe the nests weekly to determine if the young successfully fledged.

Using nest cameras and on-the-ground field observations, the research team analyzed differences in parental behavior, prey and nest material deliveries from incubation through fledging among three forested regions in Pennsylvania. The findings from this study were published in The Journal of Raptor Research in 2019.



Broadwings nest in forests and can be very secretive and difficult to spot during the nesting season. Females usually lay 2-3 eggs, and chicks will hatch after 28-31 days of incubation.



Adults are best identified by their black-and-white tail bands and dark band trailing the edge of their wings. Immatures are brown with light brown and buff-banded tails and have dark streaks on their chest.

Broadwings were equipped with satellite transmitters to track their migration from North to South America, and back. The research team tracked 14 hawks from two populations (Pennsylvania, USA and Alberta, Canada) between 2014-2019 and found birds from Alberta wintered in distinctively different areas of South America compared to Pennsylvania birds. In 2021, we began tracking broadwings from New England and Ontario to see if their migration and wintering patterns differ from Pennsylvania birds.



**Learn more about this research by taking a photo of the QR code**