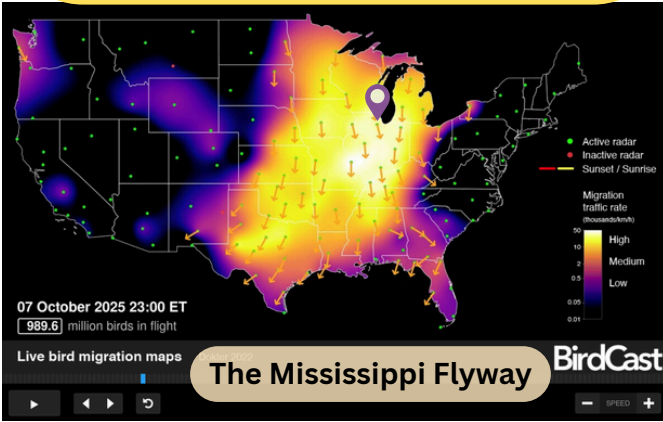


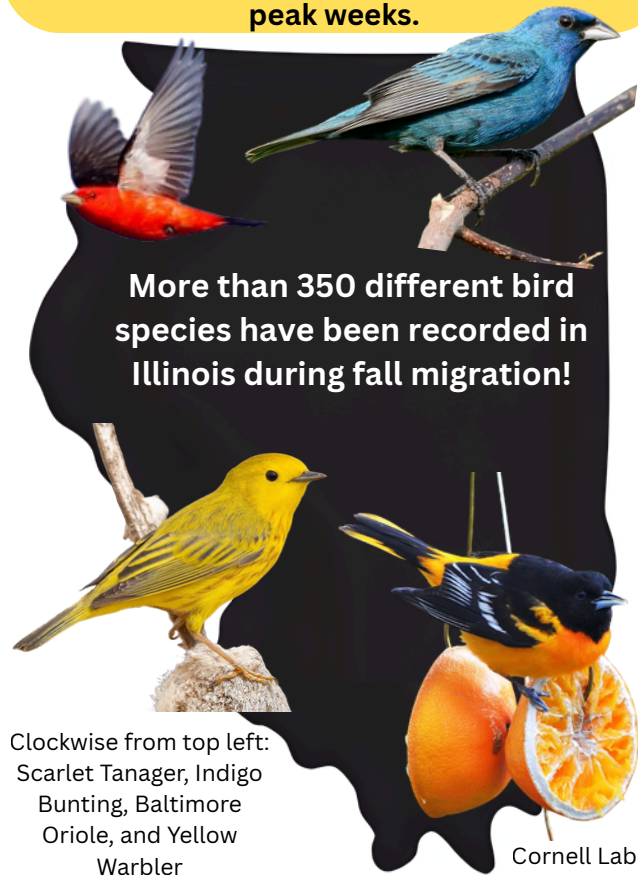
# Fall Bird Migration

Aug 1<sup>st</sup> - Nov 15<sup>th</sup>

Peak dates: Sept 15 - Oct 15



North America's largest bird migration flyway sees 900+ million birds in flight during peak weeks.



## What can I do?

DarkSky's Five Principles for Responsible Outdoor Lighting can help you make smart choices to reduce light pollution. Do your lights protect the night?



### Is it useful?

All light should have a clear purpose. Use lighting only when and where it is needed.



### Is it targeted?

Shield and aim your light so it only falls downward and where it is useful.



### Is it low-level?

Light should be no brighter than necessary to save money and reduce glare. **(Lumens)**



### Is it controlled?

Lighting should only be on when needed. Use timers and motion sensors.



### Is it warm-colored?

Warm-colored light causes less skyglow. Use amber-toned lighting whenever possible. **(Kelvins)**

## Learn more



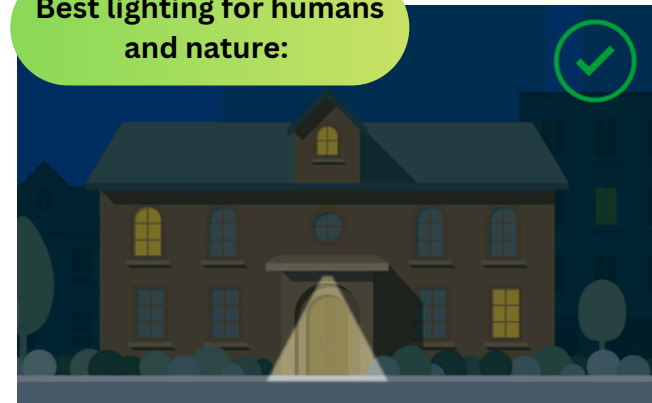
Visit [darksky.org](https://darksky.org) to learn more about the importance of the night and what you can do to reduce light pollution around your home and community.

## Help Birds at Night by Lighting Right

Lighting to avoid:



Best lighting for humans and nature:



2700 KELVIN

LED FILAMENT

60W  
806 lm  
5.9W

Look at lightbulb packaging. Check to make sure the lightbulb **Kelvins** are less than 3000K

Check to make sure that the **Lumens** are less than 2000 lm.

## How do birds see?



Birds are able to navigate during migration by sensing the Earth's magnetic field through proteins in their eyes. By seeing the patterns of the magnetic field, birds have a precise compass guiding them home.

## How does light pollution negatively affect birds and humans?



Birds migrate at night. Light that trespasses into the night sky can disrupt their vision of the magnetic field, stars, and moon. This can disorient birds out of their flight path and into dangerous environments with reflective glass.

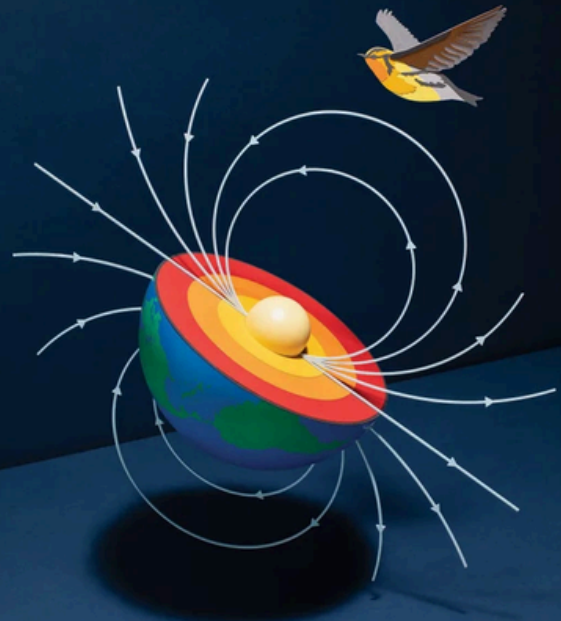
## Is your community ready for fall migration?



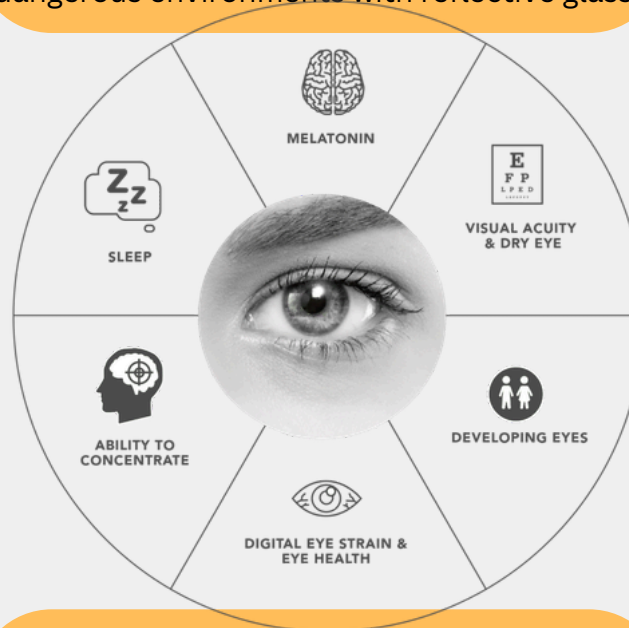
You can make an impact beyond your own home too! Notice the kind of lighting around your classroom, school and neighborhood. Are these lights safe for migrating birds?



This fall, participate in these small acts of conservation to help birds get home safe. Look out for a flash of color in a tree or a bush! It could be a visiting bird on its way south for the winter.



Scientific American



Today, people interact with an excess amount of unnatural light. These light sources harm eye health and disrupts how the human brain functions.

Clockwise from top left:  
American Redstart,  
Sandhill Crane, Wood  
Duck, Great Egret  
Cornell Lab

