

MAKE AUSTIN'S BUILDINGS BIRD-FRIENDLY

THE PROBLEM WITH GLASS AND HOW TO SOLVE IT



Inspiring Conservation Through Birding



Our Mission:

Promote the enjoyment, understanding, and conservation of native birds and their habitats through:

Land Conservation Habitat Restoration and Management Environmental Education Conservation Advocacy

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lost 30% of our birds in the last 50 years.

Deaths caused by collisions with buildings

a problem we can solve.



THE PROBLEM: GLASS IS INVISIBLE

Every year dozens of people are hospitalized for walking into glass doors

In 2018 Apple was sued for unsafe conditions after at least 7 people were injured on 1 day in their new building



THE PROBLEM: GLASS IS INVISIBLE

In 2015 Holland American cruise lines were fined \$2.4M because so many people had walked into glass sliding doors





The problem is so pervasive that some states, like California have a law that "employees shall be protected against the hazard of walking through glass by barriers or by conspicuous durable markings"

Cats, dogs, deer, bears and other mammals also run into glass, but birds are the most affected because they fly...fast and far.



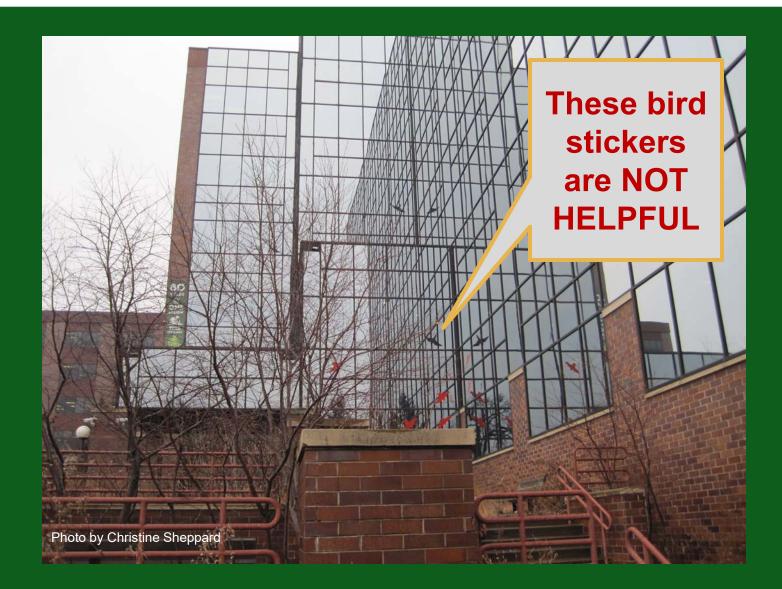


At least 50% of bird strikes end in death. 700,000,000 to 1,000,000,000 birds die yearly in North America from striking windows



Both highly reflective and and highly transparent glass are problematic.





Glass walkways, balconies and glass corners are also lethal.



Although individual high rise buildings can each kill many hundreds of birds per year,



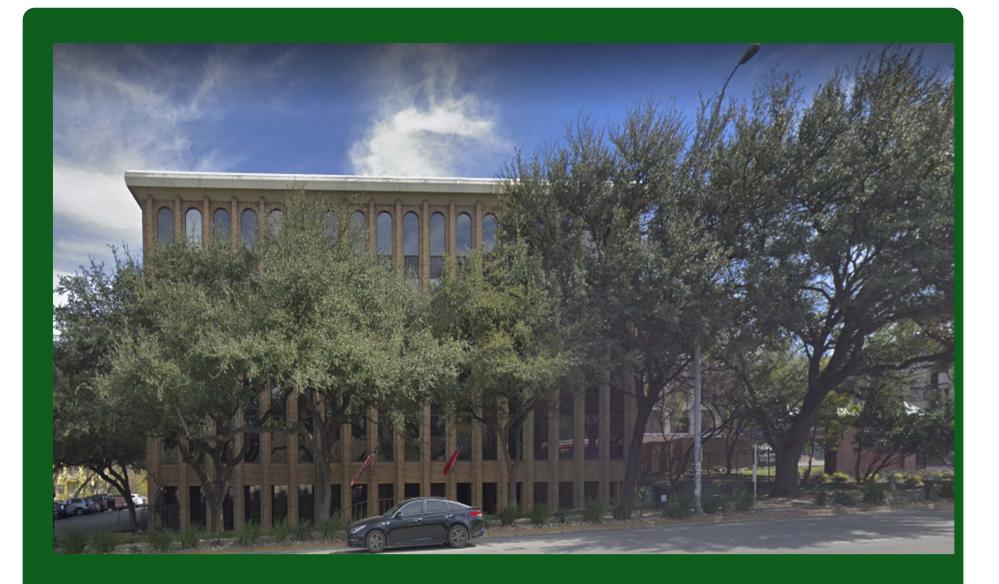
By far, the biggest problem are low-rise buildings and homes.



If birds don't die instantaneously from the impact, they will often die within 24-48 hours

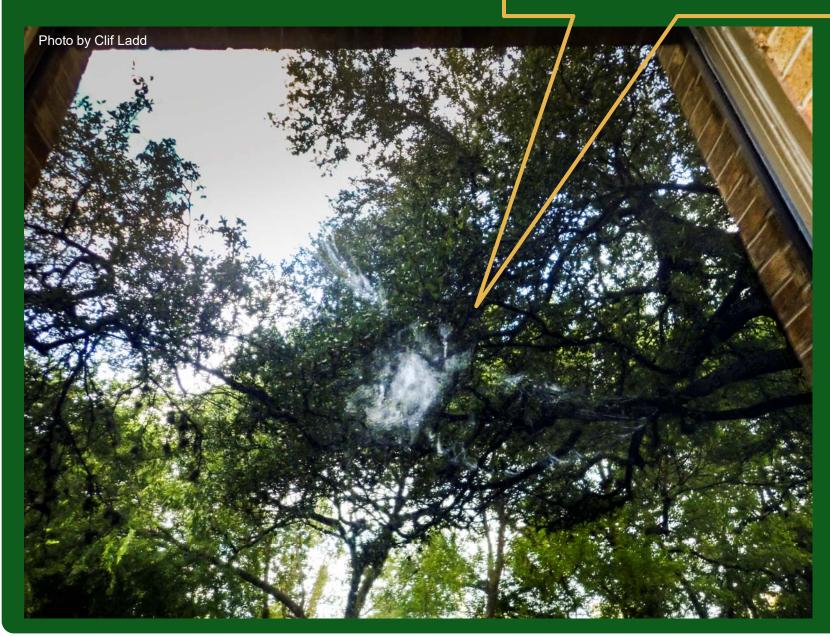


Unlike natural predators, glass collisions kill indiscriminately. 20% of bird strike deaths are hummingbirds.



2000 birds killed

Bird print from a collision



WHY DO BIRDS MATTER?

Birds are important pollinators





They distribute seeds of many plants to keep our forests healthy

They eat millions of insects daily, which protects us and our crops





They are beautiful and birdwatching and feeding is a multi-billion dollar industry.

Photos by Christy Esmahan

HOW CAN WE REDUCE BIRD STRIKES IN AUSTIN?

Over millions of years, songbirds evolved to migrate at night.



They use stars to guide them on their journeys of thousands of miles made often in just a few days or weeks



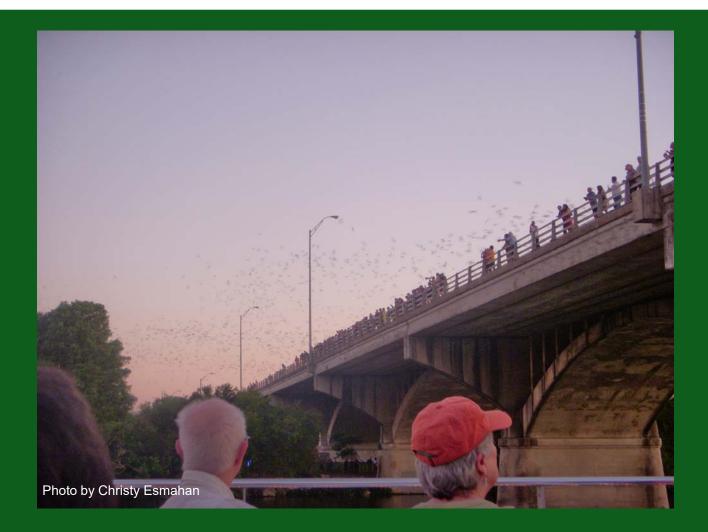
Excessive night light disorients birds and brings them down into urban areas



This then puts them in greater peril the next morning when they begin to hunt for food

This is especially an issue in Austin as we are in the Central Flyway

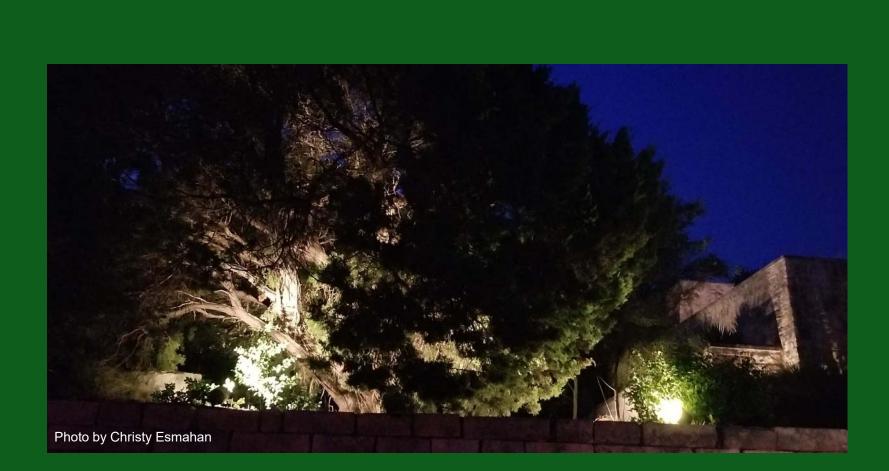




Light pollution is also disruptive to many other animals including Austin's bats!



Humans are also negatively impacted from light pollution



The worst are lights that point upwards and lights that shine in all directions

THE SOLUTION (PART 1) DARK SKIES



Addressing the problem of light pollution will have positive impacts on birds, other animals, humans AND reduce Austin's energy footprint.

WHAT WE CAN DO

Individuals: close curtains/ shades after dark & use timers and motion detectors for outdoor lighting.



Office buildings: timers to turn off lights after 10pm & motion detectors in parking lots.

THE SOLUTION (PART 2): GLASS

Buildings should use glass with a reflectance value of <15%

This makes glass less reflective, however transparency is still a problem

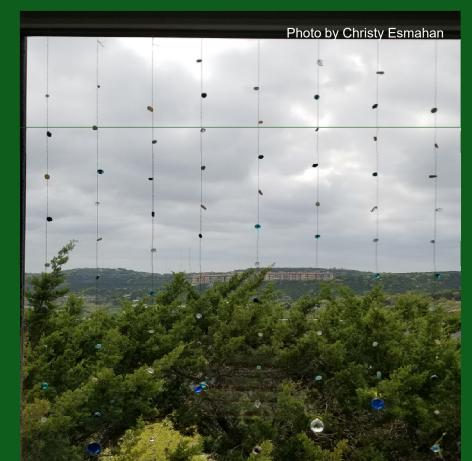


To combat transparency use patterns on glass, made by etching, film or components inside glass to make glass visible to birds

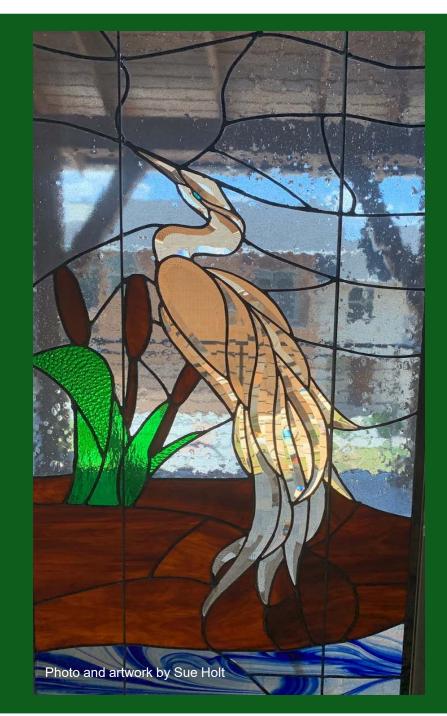


This is the new Intuit Headquarters in Silicon Valley (Mountainview) where bird-friendly building codes are enforced.

Patterns covering as little as 5% reduce birds strikes by over 90%



Patterns should be spaced no farther apart than 2 X 2"



Opaque, stained, UV and frosted glass are also effective



Recessed glass, awnings, shades and other structures outside windows reduce the amount of glass that birds encounter when they are flying through the area.





Buildings can also be effectively retro-fitted to become more bird friendly. Applying a film made by 3M, Collidescape or Solyx can reduce bird strikes by over 90%. It's time for Austin to join the growing group of cities across the US and Canada who have bird-friendly guidelines and laws!

Portland, Oregon has a Bird-Safe Window Administrative Rule for the Central City

Chicago has started the Lights Out Chicago program to make the city safer for migrating birds

New York City has been **retrofitting** buildings with film visible to birds for 10 years. Introducing legislation to require that 90% of glass on buildings be treated to reduce bird strike fatalities

San Francisco Planning Commission approved new Bird-Safe Standards for San Francisco buildings



KEEP AUSTIN BIRD-FRIENDLY



 See the American Bird Conservancy website for more information abcbirds.org

- Follow the LEED standards for Bird Collision Deterrence (SSpc55)
- Encourage new buildings to have glass on less than 45% of their façade

Please report any dead birds on iNaturalist Austin Bird-Building Collision Project

Thank you!

