The State of Canada's Birds







BIRDS TELL US ABOUT THE HEALTH OF OUR WATER, AIR, AND LAND

WE NEED TO LISTEN AND ACT



Birds are culturally and economically important to us all.

They contribute to our economy through bird watching and hunting. They help keep our forests and farms healthy by eating pests.

Healthy water, air, and land for birds benefits us by:

- reducing flooding and erosion
- filtering our groundwater
- increasing our property values
- providing homes for wildlife
- providing us with the space to enjoy nature

Birds are an integral part of our lives and a voice for nature. We cannot let their voices be silenced.

Conservation works when it is integrated with our economy, policies, and daily lives.

What is good for birds is good for us. We need to keep our water, air, and land clean by finding innovative alternatives to pesticide use and single-use plastics.

Birds need space to live. We need to protect critical lands and waters in Canada and beyond, and reduce the threats to birds from human activities globally by using beneficial practices in forestry, agriculture, fisheries, oil and gas production, urban and coastal development, and other activities.

Future generations of Canadians need nature. We must demand action from politicians, policy makers, and industries to address the causes and effects of climate change, and support organizations that help conserve birds and their habitats.

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The State of Canada's Birds



Waterfowl and birds of prey are recovering thanks to successful investments in conservation.

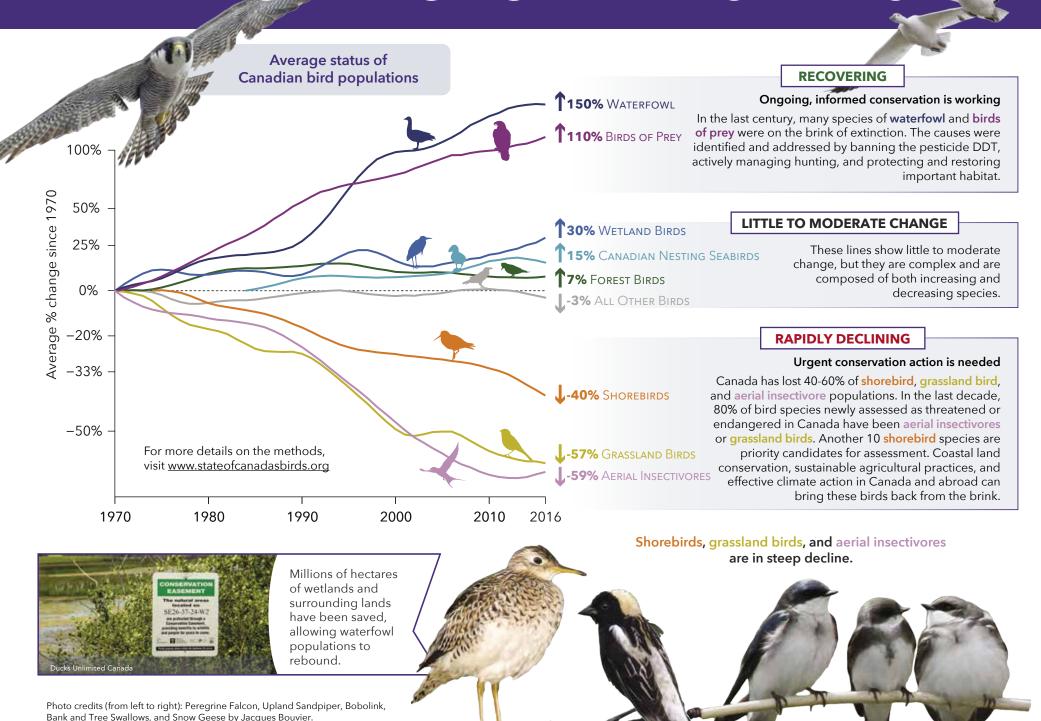


Aerial insectivores, grassland birds, and shorebirds are in trouble and need our help.

This report highlights the key actions we can take to help restore Canada's bird populations.

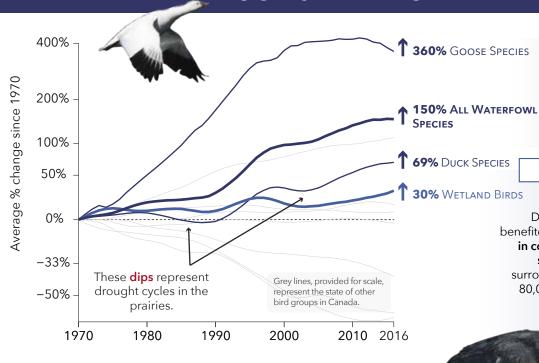


THE STATE OF CANADA'S BIRDS



WATERFOWL AND WETLAND BIRDS

CONSERVATION PARTNERSHIPS WORK



GEESE HAVE INCREASED BY 360%

Most geese have taken advantage of increasing waste grain in agricultural areas. Some species of Arctic geese are now so abundant that there is concern over their potential impacts on other species.

5 species increasing
0 species stable
1 species decreasing

0 species unknown

MANY DUCKS AND WETLAND BIRDS ARE INCREASING

Ducks and wetland birds have benefited from ongoing **investment in conservation** and **cooperative stewardship** of wetlands and surrounding lands, including over 80,000 km² in Canada under the North American Waterfowl Management Plan.

33 species increasing

16 species stable

9 species decreasing

29 species unknown



Threats



Conservation Actions

Increase efforts to conserve, enhance, and restore wetlands to offset loss of land from intensive agriculture and urban development.



Demand action to address the causes of climate change

and its effects on wetland birds, such as increasing risk of drought, rising sea levels, and ocean warming.





Prevent loss of coastal areas from industrial and urban development.



Clean our waterways by reducing runoff from agricultural and industrial activities, and improving wastewater management.

Photo credits (from left to right): Snow Goose by Jacques Bouvier, Surf Scoter by the Macaulay Library at the Cornell Lab of Ornithology, Bufflehead by Ducks Unlimited Canada, Pied-billed Grebe by Jacques Bouvier, and Black Terns by Katelyn Luff.



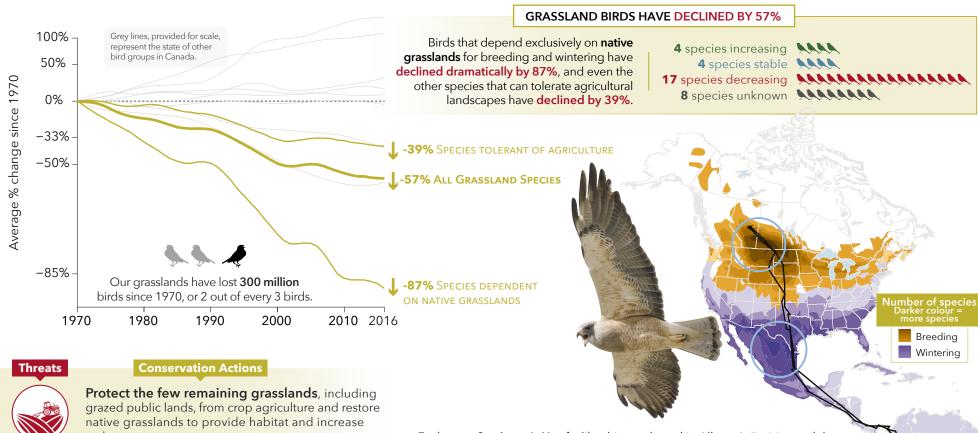
Many wetland birds and sea ducks are **elusive** or breed in **remote areas**. They are **difficult to monitor**, so their trends are **unknown**.



Hunters and other conservationists who purchase the Canadian Wildlife Habitat Conservation Stamps have raised over **\$50 million** and funded over **1,500** wetland conservation projects.

GRASSLAND BIRDS

ARE RUNNING OUT OF TIME



carbon storage.



Support sustainable range-fed beef, which includes beneficial hay and pasture management.



Protect the water and land by seeking innovative alternatives to broad-scale pesticide use.



Demand action to address the causes of climate change and its effects on grasslands, such as increasing erosion, frequency and severity of drought and flooding, and risk of wildfire.

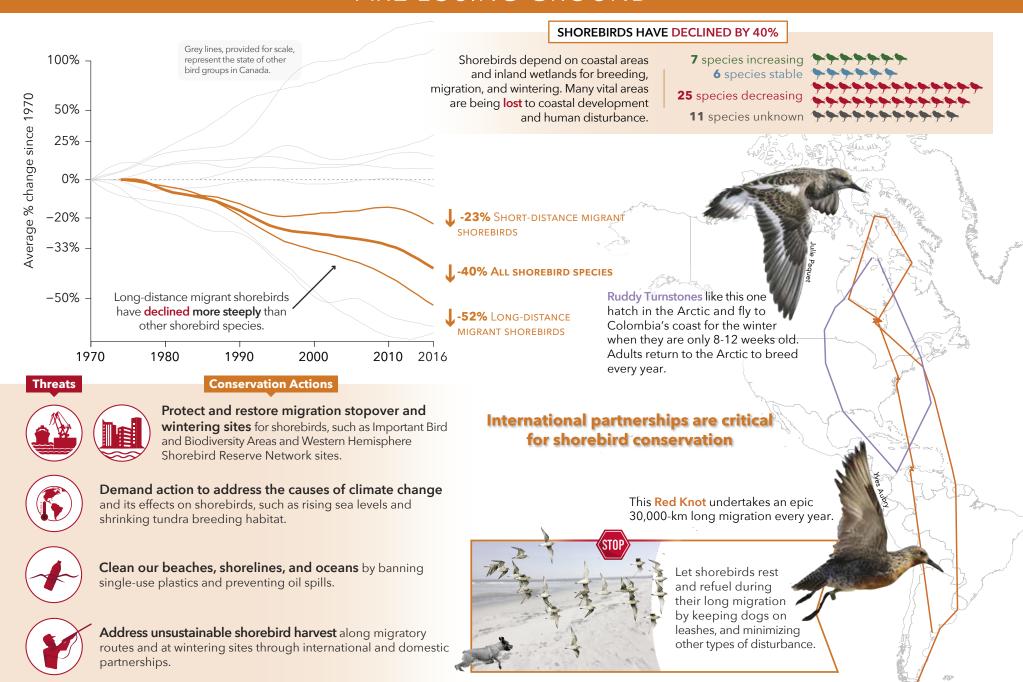
Each year, **Swainson's Hawks** like this one breed in Alberta's **Prairies** and then fly south, often passing through key grassland wintering regions in Mexico, such as the Chihuahuan grasslands, and eventually to Argentina's Pampas grasslands. **International partnerships are key** to protecting these three areas from being converted to irrigated crops, as they are critically important to grassland birds that depend on intact native grasslands.



Beneficial grazing on public and private lands is critical for the creation and maintenance of grassland bird habitat.

SHOREBIRDS

ARE LOSING GROUND





SEABIRDS A GLOBAL CONSERVATION CRISIS

95% OF CANADIAN SEABIRDS ARE IN TROUBLE WORLDWIDE

Canadian seabirds include species that nest in Canada, and species that nest elsewhere but rely on our waters to feed. A global assessment¹ shows that **55** of the **58** seabird species that use Canadian waters are of conservation concern.



- **20** species are at risk of extinction
- **35** species are of conservation concern
- 3 species are of low concern

MANY OF OUR SEABIRDS HAVE UNKNOWN POPULATION TRENDS

Of the seabirds that we can monitor in Canada, some populations have increased while others have decreased. However, 62% of Canadian seabirds have unknown trends, as they nest outside Canada or in remote areas of the Arctic. This is why it is important to also consider the global assessment in the state of Canada's seabirds.

7 species increasing **10** species stable 5 species decreasing \$ \$ \$ \$

36 species unknown

This Short-tailed Albatross hatched in Japan and wintered off Canada's west coast.

Threats

Conservation Actions



Clean our oceans by banning single-use plastics and preventing oil spills.



Demand action to address the causes of climate change. Breeding colonies are being destroyed by more frequent storms and rising sea levels, and changing ocean conditions are causing seabird food supplies to decline.



Work domestically and cooperate internationally to promote sustainable fishing and reduce the risk of birds being caught in fishing gear.



Protect breeding colonies by eradicating invasive species like rats that prev on seabirds.

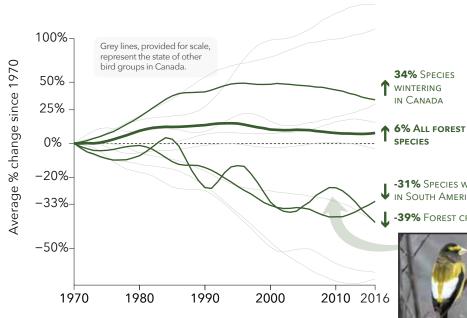
This Sooty Shearwater bred in the Falkland Islands, and wintered off Canada's east coast.



Over 80% of Arctic-nesting Northern Fulmars have plastic in their stomachs.

FOREST BIRDS

CONSERVATION WITHOUT BORDERS



1 IN 3 CANADIAN BIRDS DEPENDS ON FORESTS

Forest birds that breed in Canada and fly thousands of kilometres to winter in South America face threats at home, during migration, and on their wintering grounds, where they are rapidly losing habitat. Species wintering in Canada face fewer threats and are faring better overall, except for species that depend on tree seeds and fruit.

49 species increasing

30 species stable

44 species decreasing

14 species unknown



-31% Species wintering IN SOUTH AMERICA

-39% FOREST CROP SPECIALISTS



Every winter, forest crop specialists like this **Evening Grosbeak** cover large distances in search of food like seeds and fruit. Their populations fluctuate naturally but are declining. This group's decline has not yet been well studied, but may indicate changes in the health of Canada's forests, since these birds rely on mature, healthy trees for food.



Conservation Actions



Reverse forest loss in South America, and other wintering areas, by promoting beneficial management, such as forest certifications and bird-friendly coffee programs, and engaging international partners to retain and restore these critical lands.



Conserve the health, diversity, and economic sustainability of Canadian forests for future generations by retaining older trees and forests, reducing the use of pesticides, creating a network of protected areas, and not planting monocultures.





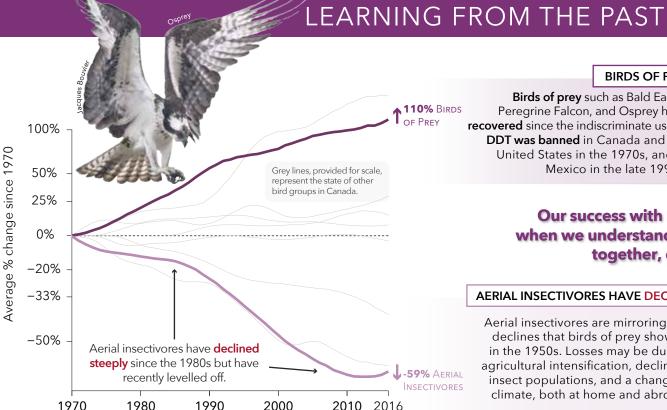
Prevent the death of tens of millions of forest birds every year by making windows visible to birds, strategically managing light pollution during migration, and keeping cats from roaming at large.



Demand action to address the causes of climate change and its effects on forest birds, such as increasing insect epidemics and forest fires.



BIRDS OF PREY AND AERIAL INSECTIVORES



BIRDS OF PREY ARE RECOVERING

Birds of prey such as Bald Eagle, Peregrine Falcon, and Osprey have recovered since the indiscriminate use of **DDT** was banned in Canada and the United States in the 1970s, and in Mexico in the late 1990s.

12 species increasing **3** species stable 2 species decreasing

3 species unknown

Our success with birds of prey shows us that when we understand the problem and take action together, conservation works

AERIAL INSECTIVORES HAVE DECLINED MORE THAN ANY OTHER BIRD GROUP

Aerial insectivores are mirroring the declines that birds of prey showed in the 1950s. Losses may be due to agricultural intensification, declining insect populations, and a changing climate, both at home and abroad.

0 species increasing **3** species stable 13 species decreasing

2 species unknown

Threats

Conservation Actions



Protect the food web, water, and land by reducing the use of pesticides and seeking innovative alternatives.



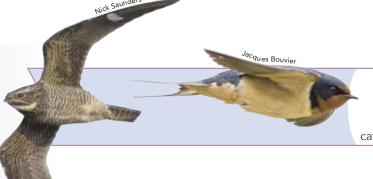
Demand action to address the causes of climate **change** and its effects on aerial insectivores, such as increases in severe weather, which limit insect availability and put the birds in jeopardy.







Protect pastures, forests, and wetlands, which are important roosting sites and feeding grounds, from development, pollution, and crop agriculture.



Aerial insectivores, like this Common Nighthawk and Barn Swallow, feed by catching insects in flight.



WHAT'S GOOD FOR BIRDS

IS GOOD FOR US

Our economy and well-being depend on the health of our environment. Conservation works when it is integrated into our economy, policies, and daily lives. Through forward-thinking policies, industrial practices, and individual actions, we can work together to conserve birds.

Birds are under pressure, but here's what we can do to help

VOTE WITH YOUR FORK AND WASTE LESS

By reducing food waste, buying from local, sustainably-run farms, and choosing products like bird-friendly coffee, range-fed beef, and certified, sustainable seafood, we can make the world better for birds and for us.





REDUCE CARBON EMISSIONS



Canada's climate is warming at more than twice the global rate. By demanding action on the causes of climate change, and making transformative changes to our industrial practices and daily lives, we can help prevent the catastrophic effects of climate change, such as rising sea levels, ocean acidification, thawing permafrost, droughts, floods, and wildfires, all of which threaten both nature and our economy.

PROTECT AND IMPROVE BIRD HABITAT

Birds are losing ground. By protecting and restoring critical lands and waters, and managing our working landscapes more sustainably, we can have a major positive impact on bird populations.









MAKE WINDOWS SAFE FOR BIRDS



By making the windows on our homes, skyscrapers, and businesses more visible to birds, we can save the lives of millions of birds each year.

REMOVE PLASTICS AND CONTAMINANTS FROM NATURE

Birds are showing us that our environment is polluted. By seeking innovative alternatives to pesticide use, and banning single-use plastics, we can protect the quality of our water, air, and land for birds and people.





KEEP CATS FROM ROAMING AT LARGE



By keeping cats and wildlife apart, we can save the lives of tens of millions of birds each year.

ELIMINATE INVASIVE SPECIES

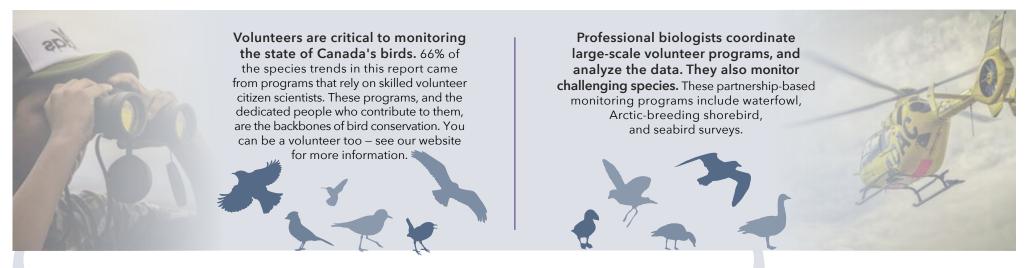


By removing invasive species, like rats on islands that prey on seabirds and other ground-nesting birds, we can save entire breeding colonies.

CANADIANS ARE MONITORING

THE STATE OF CANADA'S BIRDS

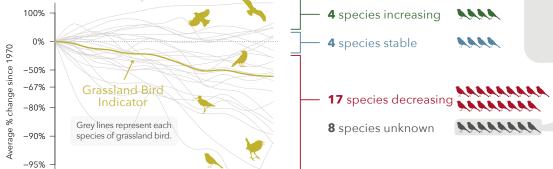
Birds are excellent indicators of the health of our water, air, and land, and we have been monitoring most bird species since the 1970s.





- f 1 Using the monitoring data, we calculate each species' population trajectory over time.
- 2 Then we re-scale each species' trajectory to represent the % change since 1970.
- We use the average of all the species' lines to create our indicators. For example, the grassland bird indicator is composed of all bird species that are typically found in grasslands.

Increases and decreases are scaled equally. We scaled the vertical axis this way so that positive and negative changes are equal on the appropriate scale (logarithmic). For example, it takes a 100% increase to recover from a 50% decline, so those two points are equal distance from 0.



2010 2016

24% of Canada's bird species are not yet well monitored.

We have limited information for many Arctic-nesting birds, pelagic seabirds, sea ducks, nocturnal owls, and cryptic or very rare birds. Investments in new programs and new technologies will help us track birds better.



1970

1980

1990

2000

Acknowledgements

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Photo credit: Solitary Sandpiper by Glenn Springer.

