Breadcrumb

1. Home
2. Print
3. Pdf
4. Node
5. Entity Print

Operational Activities: Waterfowl

Last Modified:

Waterfowl are federally-protected migratory birds that are valuable natural resources enjoyed by birdwatcher's and the general public. Integrated solutions to address problems may include habitat manipulation, dispersal techniques, and population management.

Biology and Ecology

Canada Geese

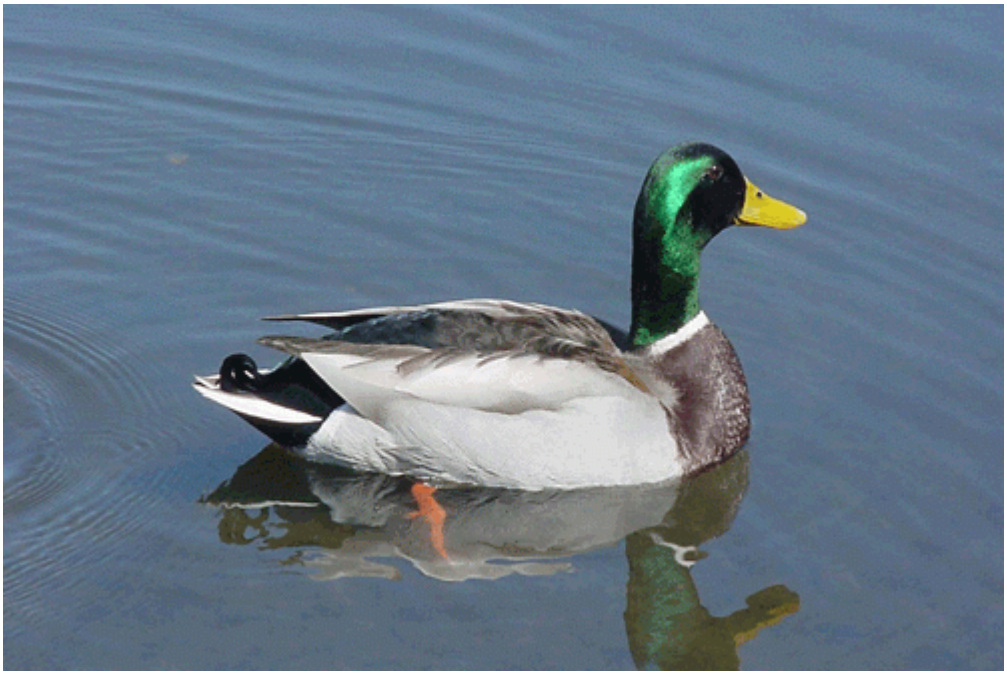
Two behaviorally distinct types of goose populations exist in most parts of the country: resident and migratory. Resident geese nest within the lower 48 states and the District of Columbia from March to June or reside there from April to August. Migratory Canada geese move between breeding grounds in Canada and overwintering areas in the United States but do not nest in the lower 48 states.

Mute Swan

The mute swan is an exotic species that was introduced to the United States beginning in the mid-1800s. The largest concentration of mute swans now occurs along the Atlantic Coast from Maine to South Carolina, and it has increased steadily since the 1970's. Smaller flocks occur in the Great Lakes region and the Pacific Northwest.

Mallard

The mallard is the most abundant duck species in North America and has adapted to varied habitats. The mallard survives in cold climates and is tolerant of human activities. Although the mallard is the most heavily hunted duck species in North America, its populations remain steady.



Understanding Wildlife, Damage, and Management

Expand All

Conflicts with People

Although most people find a few birds acceptable, problems quickly develop as bird numbers increase. These problems include overgrazing of grass and ornamental plants; accumulation of droppings and feathers; attacks on humans by aggressive birds; and the fouling of reservoirs, swimming areas, beaches, docks, lawns, and golf courses. Flocks of geese and other waterfowl also feed on a variety of crops, including corn, soybeans, rice, lettuce, winter wheat, barley, and rye.

Damage to Property

Canada goose nests occur near sidewalks and entryways of homes and other buildings, adjacent to paths and roadways, and on rooftops and porches. They are also found in more traditional areas, including parks and other open space. Flocks can leave behind a large amount of fecal material, especially if they routinely use the same sites. The feces can reduce the water quality of ponds and spoil the lawns of parks, golf courses, apartment complexes, and business parks. Mallards, wigeons, and coots also flock in parks and residential developments and cause similar

problems.

Damage to Agriculture

Migratory waterfowl cause damage to agricultural crops in many parts of the United States. Crops are vulnerable to damage by ducks, coots, and geese through direct consumption of crops as well as trampling and fouling. Some waterfowl also cause problems at aquaculture facilities by feeding on fish fry and fingerlings.

Health and Safety Concerns

Defense of nests and young by geese and swans can result in injuries to people who approach too closely. Populations of waterfowl may contaminate recreational areas with pathogenic bacteria that may pose human-health risks. Waterfowl on or near airports affect public safety due to the possibility of bird-aircraft collisions.

Damage to Natural Resources

Canada goose and mute swans may impact native wild rice, restored wetlands, and tidal marshes when large flocks graze on vegetation and trample plantings. Resident Canada goose and non-native Mute Swans may out-compete native waterbirds and waterfowl for habitat and food. Resident Canada goose and non-native Mute Swans may out-compete native waterbirds and waterfowl for habitat and food. Additionally, overabundance of ducks, geese and swans in natural areas may cause erosion and reduce water quality due to feces and runoff.

Regulations Pertaining to Damage Management

The U.S. Fish and Wildlife Service has adopted new rules for managing resident Canada geese including a nest and egg depredation order for resident Canada geese that authorizes private landowners, public land managers, homeowners' associations, and local governments to destroy resident Canada goose nest and eggs on property under their jurisdiction when necessary to resolve or prevent injury to people, property, agricultural crops, or other interests.

A Migratory Bird Depredation permit or other authorization must be obtained from the U.S. Fish and Wildlife Service (FWS), and State laws must be consulted and adhered to, prior to initiating actions to remove waterfowl or handle their nests and

eggs.

- Migratory Bird Depredation Permit Application
- FWS permits and the Federal laws and Treaties that relate to migratory birds.

Resident Canada Goose Regulations

The Canada Goose Nest and Egg Depredation Order (50 CFR 21.162) authorizes landowners and local governments who register with the FWS to destroy resident Canada goose nests and eggs on their property from March 1-June 30, when necessary, to resolve or prevent injury to people, property, agricultural crops, or other interests. In order to conduct these activities, landowners must register online anytime between January 1 and June 30 of the year in which the activity will take place.

- Canada Goose Nest and Egg Depredation Order
- Registration information.
- Oiling Goose Eggs (video)
- Egg and Nest Treatment (1.33 MB)

50 CFR 21.159 - Control Order for Resident Canada Geese at Airports and Military Airbases

Managers of commercial, public, and private airports and military air operation facilities acting under authority of 50 CFR § 21.159 may take Canada geese (including nests and eggs) from on or within 3 miles of the airport or airfield boundaries, without a Federal permit.

- Control Order for Resident Canada Geese at Airports and Military Airfields (50 CFR § 21.159)

50 CFR 21.165 - Depredation Order for Resident Canada Geese at Agricultural Facilities

Agricultural producers acting under authority of 50 CFR § 21.165 may take Canada geese from lands that they personally control and where geese are committing damage to agricultural crops, without a Federal permit.

- Depredation Order for Resident Canada Geese at Agricultural Facilities (50 CFR § 21.165)

50 CFR 21.168 - Public Health Control Order for Resident Canada Geese

States, Tribes, and the District of Columbia, via the State or Tribal wildlife agency, are authorized to take Canada geese without a Federal permit, wherever a Federal, State or local public health agency has determined that Canada geese pose a specific, immediate human health threat by creating conditions conducive to the transmission of human or zoonotic pathogens.

- Public Health Control Order for Resident Canada Geese (50 CFR § 21.168)

Assistance from Wildlife Services State Offices

Wildlife Services provides technical assistance and direct management for waterfowl conflicts and facilitates the depredation permit process through WS State Offices.

- Learn more about Canada goose nest management methods (1.33 MB).

To contact your WS State Office, call **1-866-4USDAWS (1-866-487-3297).**

Developing Science-based Solutions to Waterfowl Conflicts

Wildlife Services' National Wildlife Research Center conducts research and investigation activities on a wide variety of wildlife damage issues including the effectiveness of management tools for geese.

- Effectiveness of a Motion-activated Laser Hazing System for Repelling Captive Canada Geese
- Lasers as Nonlethal Avian Repellents

Publications from other agencies, groups, and individuals

- Attitudes of Central Missouri Residents Toward Local Giant Canada Geese and Management Alternatives
- Evaluation of Canada Goose Sterilization for Population Control
- An Evaluation of Two Hazing Methods for Urban Canada Geese
- Evaluation of Three Damage Abatement Techniques for Canada Geese

- Nuisance Canada Goose Problems in the Eastern United States

Information concerning bird strikes and aviation

- Bird Strike Committee USA
- Ranking the Hazard Level of Species to Aviation

Websites of interest

- U.S. Fish and Wildlife Service's Migratory Bird Program

Related Links

- Foraging Preferences of Canada Geese Among Turfgrasses: Implications for Reducing Human–Goose Conflicts
- Waterfowl Surveys
- Waterfowl Population Status Reports (U.S. Fish and Wildlife Service)

Print