

## Brant

*Branta bernicla*

Ⓛ 25" Ⓜ 32" Ⓢ 42"

① Breeds: Arctic tundra; Winter: Coastal bays, marshes & estuaries; occasionally inland marshes  
② Fairly common in limited range; Eastern Brant: Winters upper- to mid-Atlantic coast in U.S.; Black Brant: Winters southern BC to Baja, Mexico  
③ Small rounded head; all black head & neck; dark bill; relatively short neck w/ white "necklace" below the chin; long wings; dark gray back; breast ranges from grayish (Eastern Brant) to blackish (Black Brant); white vent

Black Brant: Adult



Brant: Atlantic ssp.



Brant: Atlantic ssp., First Winter



Brant: Atlantic ssp.



Cackling Goose, richardsoni ssp.



Canada Goose (left) & Cackling Goose (right)



## Canada Goose

*Branta canadensis*

Ⓛ 36–45" Ⓜ 53–60"

① Ponds, marshes, farmlands & manicured grassy areas w/ man-made ponds  
② Most commonly occurring goose in N. America as a breeder, resident or migrant, except the FL peninsula, S. AZ., & upper coastal AK; uncommon to rare in some southern U.S. locations  
③ Plump body shape; Shortish-to-long neck (depending upon subspecies); Western races & Lesser Canada Goose smaller; black neck & head; prominent white patch on rear cheek & chin; body brownish-gray w/ white vent

Canada Goose, large ssp.



Canada Goose (above) & Cackling Goose (below)



## Cackling Goose

*Branta butchinsii*

Ⓛ 25–38" Ⓜ 33–43" Ⓢ 43–48"

① Ponds, marshes, farmland, manicured grassy areas w/ man-made ponds  
② Uncommon to rare through wide range; breeds in Arctic tundra; winters mostly in lower central Prairie region & a few far Western locations, where small numbers occur w/ larger flocks of Canada Geese; small numbers occur throughout the U.S. as migrants & in winter  
③ Similar in plumage to Canada Goose, but much smaller overall w/ tiny bill, shorter neck, & steeper forehead; most show darker upper breast

Barnacle Geese: Adults



## Barnacle Goose

*Branta leucopsis*

Ⓛ 27" Ⓜ 35" Ⓢ 50"

① Ponds, lakes, coastal bays  
② Rare but increasing vagrant to Canadian Maritimes & Atlantic Coast region; usually found in flocks of Canada Geese  
③ Black head & neck; white face; long wings; whitish underparts & gray back w/ distinct black lines

## Emperor Goose

*Cben canagica*

Ⓛ 26" Ⓜ 32" Ⓢ 47"

① Sheltered coastal lagoons; Breeds: Coastal tundra  
② Locally uncommon; only found in limited breeding range in coastal western AK & small winter range around coastal islands in southern AK & Bering Sea region; occasional vagrant from S. AK to S. CA  
③ Small bill; short neck; rounded head; stocky body; plumage is grayish w/ dark feather centers & white fringes; Adult: Black throat & white head & nape; Juvenile: All gray w/ white feather fringes & dark internal markings

Emperor Goose: Juvenile (top) & Adult (bottom)



# North American Waterfowl

**Ying-Ying Zheng**



## North American Waterfowl:

*A Guide to North American Waterfowl* Paul A. Johnsgard, 1979 This conveniently designed compact book addresses the needs of waterfowl enthusiasts who want a source of ready identification of all the ducks geese and swans that breed in North America as well as some basic biological data not usually found in field guides Dust jacket **North American Waterfowl** Albert M. Day, 1959 **North American Waterfowl** Richard K. Walton, National Audubon Society, 1994 A portable comprehensive field guide brimming with concise descriptions and stunning color photographs and designed to fit into your back pocket from the go to reference source for over 18 million nature lovers This streamlined volume contains an easy to use field guide identifying the most frequently encountered waterfowl in North America Packed with information it includes detailed photographs and diagrams specific descriptions of each species regional maps depicting nesting and winter ranges a glossary of bird terms and a guide to various bird family traits An excellent and convenient reference guide to accompany any bird lover **Waterfowl for the Future**, 1987 Key to North American Waterfowl Stephen R. Wylie, Stewart S. Furlong, 1978 **1994 Update to the North American Waterfowl Management Plan**, 1994 *The North American Perching and Dabbling Ducks* Paul Johnsgard, 2017-03 This volume the fourth in a series of books that collectively update and expand P A Johnsgard's 1975 *The Waterfowl of North America* summarizes research findings on this economically and ecologically important group of waterfowl The volume includes the mostly tropical perching duck tribe Cairinini of which two species the muscovy duck and the wood duck are representatives Both species are adapted for foraging on the water surface mostly on plant materials but typically perch in trees and nest in elevated tree cavities or other elevated recesses This volume also includes the dabbling or surface feeding duck tribe Anatini a large assemblage of duck species that mainly forage on the water surface but nest on the ground or only very rarely in elevated locations Of this tribe 12 species that regularly breed in North America are included among them such familiar species as mallards wigeons pintails and teal Descriptive accounts of the distributions populations ecologies social sexual behaviors and breeding biology of all these species are provided together with distribution maps Five additional Eurasian and West Indian species have been reported several times in North America these have been included with more abbreviated accounts but all 17 species are illustrated by drawings photographs or both The text includes about 84 000 words and contains more than 1 000 references There are also 12 distribution maps 21 drawings 28 photographic plates and 58 anatomical or behavioral sketches **A Guide to North American Waterfowl** Paul A. Johnsgard, 1979-11-01 **North American Waterfowl Management Plan**, 1998 **North American Waterfowl Management Plan** U.S. Fish and Wildlife Service, Canadian Wildlife Service, 1986 Presents what wildlife managers in Canada and the United States believe to be appropriate waterfowl populations goals to meet public demand for recreational hunting and actions needed to achieve these goals There are separate sections on ducks geese swans and habitat Waterfowl Management Handbook Kathryn Hohmann, 1989 *DUCKDATA* Kenneth John

Reinecke, Don Delnicki, 1992 This booklet is about DUCKDATA a data base containing more than 6 700 references to the ecology of waterfowl and their wetland habitats The book does not contain the actual database The emphasis is on North American waterfowl specifically ducks and geese but English language publications that concern other Holarctic species or address relations of general interest are included The bibliographic data are in computer files that can be edited updated and searched using a microcomputer and database management software Analysis of the bibliographic records indicates that the average number of waterfowl publications appearing each year increased from 2 between 1900 and 1909 to more than 250 between 1980 and 1989 Growth of the literature was exponential through the 1970s the number of references doubling every 10 to 12 years though slowing in the 1980s Access to the waterfowl data base can help wildlife researchers managers and educators prepare proposals manuscripts reading lists and management plans *A Guide to North American Waterfowl* Johnsgard Paul A., The North American Model of Wildlife Conservation Shane P. Mahoney, Valerius Geist, 2019-09-10 The foremost experts on the North American Model of Wildlife Conservation come together to discuss its role in the rescue recovery and future of our wildlife resources At the end of the nineteenth century North America suffered a catastrophic loss of wildlife driven by unbridled resource extraction market hunting and unrelenting subsistence killing This crisis led powerful political forces in the United States and Canada to collaborate in the hopes of reversing the process not merely halting the extinctions but returning wildlife to abundance While there was great understanding of how to manage wildlife in Europe where wildlife management was an old mature profession Continental methods depended on social values often unacceptable to North Americans Even Canada a loyal colony of England abandoned wildlife management as practiced in the mother country and joined forces with like minded Americans to develop a revolutionary system of wildlife conservation In time and surviving the close scrutiny and hard ongoing debate of open democratic societies this series of conservation practices became known as the North American Model of Wildlife Conservation In this book editors Shane P Mahoney and Valerius Geist both leading authorities on the North American Model bring together their expert colleagues to provide a comprehensive overview of the origins achievements and shortcomings of this highly successful conservation approach This volume reviews the emergence of conservation in late nineteenth early twentieth century North America provides detailed explorations of the Model s institutions principles laws and policies places the Model within ecological cultural and socioeconomic contexts describes the many economic social and cultural benefits of wildlife restoration and management addresses the Model s challenges and limitations while pointing to emerging opportunities for increasing inclusivity and optimizing implementation Studying the North American experience offers insight into how institutionalizing policies and laws while incentivizing citizen engagement can result in a resilient framework for conservation Written for wildlife professionals researchers and students this book explores the factors that helped fashion an enduring conservation system one that has not only rescued recovered and sustainably utilized wildlife for over a century but that has also advanced a

significant economic driver and a greater scientific understanding of wildlife ecology Contributors Leonard A Brennan Rosie Cooney James L Cummins Kathryn Frens Valerius Geist James R Heffelfinger David G Hewitt Paul R Krausman Shane P Mahoney John F Organ James Peek William Porter John Sandlos James A Schaefer *North American Waterfowl Management Plan* North American Waterfowl Management Plan,1989 *The North American Whistling-Ducks, Pochards, and Stiffetails* Paul Johnsgard,2017-03-24 Although the 12 species representing three waterfowl tribes described in this volume are not closely related they fortuitously provide an instructive example of adaptive evolutionary radiation within the much larger waterfowl lineage the family Anatidae especially as to their divergent morphologies life histories and social behaviors The whistling ducks *Dendrocygna* with three known North American species are notable for their permanent pair bonds extended biparental family care and strong social cohesion In contrast males of the five typical pochards of North American diving ducks *Aythya* establish monogamous pair bonds that are maintained only long enough to assure that the female's eggs are fertilized The endpoint of this behavioral gradient promiscuity or polygyny exists among at least some of the typical stiffetails *Oxyura* Such diverse reproductive strategies have exerted powerful evolutionary influences on interspecies variations in sexual dimorphism sexual behavior anatomy ecology and other traits This volume includes more than 63 000 words plus some 200 maps photos drawings and sketches and nearly 650 literature citations It is the last of five volumes that describe all 55 waterfowl species that have been historically documented in North America collectively the volumes total over 300 000 words with nearly 3 000 literature citations and more than 600 maps photos drawings and sketches **Waterfowl Identification Guide** Central Flyway Council,2023-10-31 The Waterfowl Identification Guide published by the Central Flyway Council serves as an essential resource for both novice birdwatchers and seasoned ornithologists This meticulously illustrated guide presents an array of waterfowl species commonly found across the Central Flyway featuring detailed descriptions distinctive markings and habitat preferences The straightforward yet engaging literary style characterized by clear accessible language allows readers to navigate the complexities of avian identification Furthermore its organization caters to both casual observers and serious conservationists highlighting the ecological significance of waterfowl within their ecosystems The Central Flyway Council composed of wildlife managers and conservationists dedicated to the preservation of waterfowl populations and their habitats brings a wealth of expertise to this publication Drawing on years of field research and a deep understanding of the ecological challenges faced by these birds the authors aim to foster a spirit of appreciation and stewardship among the public Their commitment to education and outreach reflects a broader movement within conservation to engage citizens with the natural world I highly recommend the Waterfowl Identification Guide for anyone interested in enhancing their knowledge of avian life Whether you are a birdwatcher hoping to refine your identification skills or a conservation enthusiast looking to understand better the challenges faced by waterfowl populations this guide will undoubtedly enrich your experience and deepen your appreciation

for these beautiful creatures      Waterfowl Management Handbook Angela V. Graziano,1993      **North American Waterfowl Management Plan** North American Waterfowl Management Plan Committee,1986 Introduction Principles Ducks Dabbling ducks Diving ducks Sea ducks Use Goals Geese Status Management Use Goals Swans Tundra swans Trumpeter swans Goals Habitat Habitat priorities Goals Recommendations for future action Habitat General recommendations Specific recommendations Duck harvest Goose and swan population management plants Subsistence Population management and research Implementation of the North American Waterfowl management plan North American waterfowl management plan committee Coordination and administration of the North American Waterfowl management plan Committee membership Operating procedures Committee operations      **North American Waterfowl Identification Guide** ,2014 This North American Waterfowl Identification Guide Guide is the product of a joint effort between the U S Fish and Wildlife Service Service and Delta Waterfowl to provide a systematic process to successfully identify the 47 species of ducks geese and swans commonly found in North America

## Whispering the Techniques of Language: An Emotional Quest through **North American Waterfowl**

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