Text and images extracted from Heather, B.D. & Robertson, H.A. (2005) The Field Guide to the Birds of New Zealand. Penguin Books, Auckland. Pages 74, 75, 258, 261, 262.

Plate 29

WATERFOWL

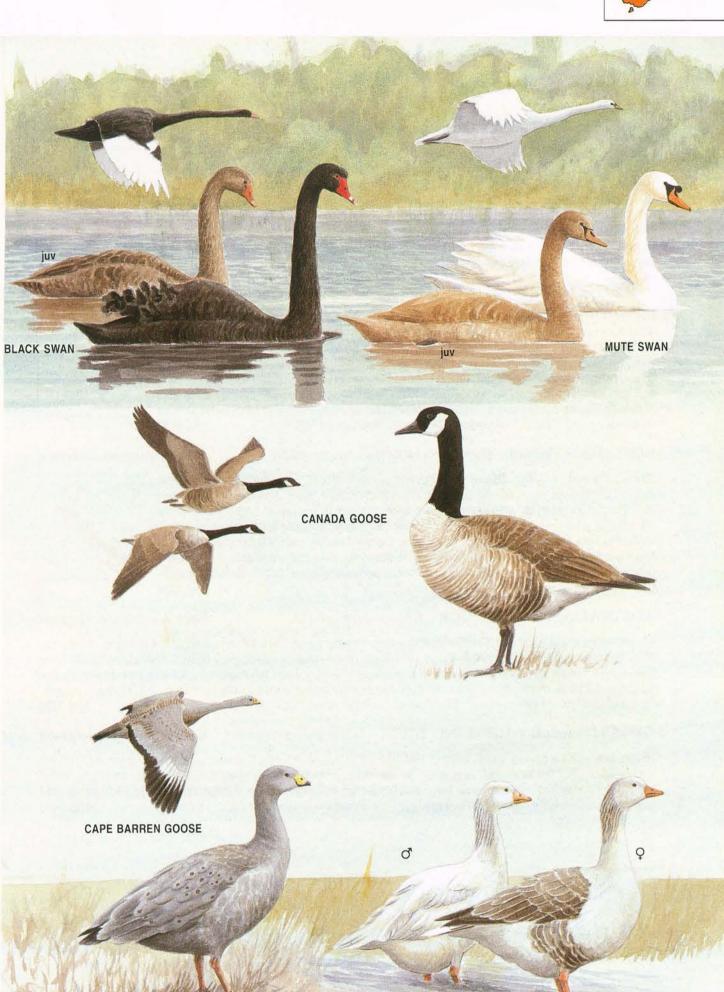
Aquatic birds with a small rounded head, short flattened bill, rounded body, short legs, webbed feet and a waddling gait on land. They fly strongly with neck outstretched. Sexes alike in swans and geese, but male ducks are usually more colourful than females. Lay large clutches. Chicks leave the nest within days but are guarded for several months until they can fly.

CANADA GOOSE Branta canadensis

Common North American introduction

83 cm; ♂ 5.4 kg, ♀ 4.5 kg. *Large brown goose* with pale brown and white barring below; black neck and head with conspicuous white patch on cheeks and chin. Loud honking call given when alarmed and in flight. Flocks fly in V formation. Grazes on pasture, young crops and aquatic plants. Habitat: High-country pasture, freshwater lakes and margins, and coastal lagoons. Breeding: Sep-Dec.





wide in freshwater and marine habitats. There are about 160 species, of which 14 (4

WATERFOWL

some native species of waterfowl are legally harvested during a strictly controlled shooting season. Each year, Fish and Game Councils

Anatidae

or have bred in the wild in the New Zealand region since 1920. A further endemic species (Mergus australis) became extinct in the early years of the 1900s, and another 6 species are vagrants to the region. All species have webbed feet for swimming in freshwater rivers and lakes, or in coastal waters. Their bill is modified for filter-feeding; water and food is sucked in at the tip of the bill and expelled through fine comb-like

Swans, geese and ducks are found world-

endemic, 4 native and 6 introduced) breed

lamellae at the sides, which catch minute seeds and invertebrates. Although most feed in this way, some species mainly graze on aquatic or terrestrial vegetation and pick seeds (e.g. peas or wheat) off the ground, and the mergansers have serrated bills for catching fish. 123. CANADA GOOSE Branta canadensis Size: 83 cm; males 5.4 kg, females 4.5 kg. Geographical variation: 12 subspecies; the form in New Zealand is the Giant Canada Goose maxima from northern and central

and the allowable bag for each species, and monitor the licensing of hunters and annual hunting statistics. A voluntary organisation, Ducks Unlimited, works to create and protect wetland habitats suitable for waterfowl and is also involved in captive breeding programmes for some threatened and rare species. Reading Frith, H.J. 1982. Waterfowl in Australia. Sydney: Angus & Robertson. Madge, S. & Burn, H. 1988. Wildfowl: An Identification Guide to the Ducks, Geese and Swans of the World. London: Christopher Helm. Johnsgard, P.A. 1978. Ducks, *Geese and Swans of the World.* Lincoln: Univ Nebraska Press. Williams, M. 1981. The

Duckshooter's Bag. Wellington: Wetland Press.

on coastal lakes such as Whakaki Lagoons

(near Wairoa) and Lake Wairarapa. Vagrants

have been recorded from the Kermadec,

In New Zealand, most introduced and

determine the length and timing of the season

FERAL GOOSE

lation is c. 50,000 birds: 10,000 in the North although other subspecies (tavernii and Island and 40,000 in the South Island, canadensis) from other parts of North America

Chatham and Auckland Islands. Population: The post-shooting season popu-

Plate 29

may have mixed with it. Distribution: Natural range is North America and northeastern Asia (Kamchatka Peninsula and Japan). They were first introduced to New Zealand from North America in 1876, but only with 50 birds introduced in 1905 and other liberations up to 1920 did the present population become established. They are abundant in the wild in the eastern South

states of the USA (North Dakota to Arkansas),

Island from Marlborough to North Otago (especially at Lake Ellesmere) and common in drier tussock country of eastern Fiordland. to the North Island failed, but they have become well established in the wild since the 1970s in the Waikato, Taupo-Ohakune area, In the South Island, most birds breed near

Early attempts to introduce Canada Geese northern Hawke's Bay, coastal Manawatu, and especially near Lake Wairarapa. high-country lakes and rivers, but many adults and juveniles from inland Marlborough to the Mackenzie Basin migrate to Lake Ellesmere and other coastal lakes and estuaries in November-February for the autumn moult, and then stay through the winter to early September. Recently, more birds have remained on high-country lakes all year, moulting on inland lakes and feeding on pastures nearby, and some breed on coastal including 10,000–15,000 overwintering on Lake Ellesmere. Conservation: Partially protected introduced species. Up to 30,000 birds are legally shot during the normal May-July shooting season

and in special seasons in late summer. Others are legally shot when they damage arable crops such as peas and grain and when they eat grass and foul pastures. Sometimes special culls of moulting birds or egg-pricking have

been necessary to keep numbers under control in some districts. **Breeding:** Birds return to their breeding sites in early September, and the gander aggressively defends a territory of about a hectare while the female builds the nest in a site with good visibility. Laying is from mid-September to late October, but replacement clutches are laid into November. They lay 2-4-5-10 white eggs (88 x 58 mm, 200 g), daily in a shallow bowl in a pile of grass and rushes gathered from within reach of the nest. The bowl is

lined with feathers. Incubation, by the female only, takes c. 28 days and the eggs hatch synchronously. The goslings, which are initially covered in yellow and brown down, are led from the nest within a day of hatching and are guarded by both parents or join crèches of up to 50 goslings during the 80 days to fledging.

lakes such as Ellesmere and nearby Forsyth. In the North Island, most birds are resident breeding season, when the young are driven away. They usually start breeding at 3 years old. Most pairs remain together from year to year and return to the same nesting area honk'. each year unless nesting is disrupted. About

30% of adult Canada Geese die each year (20%

shot and 10% of natural causes), giving a life expectancy of 2.8 years, but the oldest banded bird lived over 30 years. Behaviour: When not breeding, they form flocks of up to 2000 birds and are usually

very wary. Flocks are often noisy, with a

Family groups remain together until the next constant chorus of honking as birds maintain

contact, especially when they are flying. The main flight call is a musical double honk 'ah-Feeding: Mainly graze on land on plants such as grass, clover, lucerne and brassicas. They also eat wetland and aquatic plants, especially rushes and Potamogeton. Sometimes feed on

stubble or standing crops of peas or grain,

and flocks can cause considerable damage. **Reading:** Imber, M.J. 1971. *Notornis* 18: 253–261.