Man.—Burning of long grass and other activities known to destroy some nests. Shooting in some localities—was at worst before brown duck showed signs of diminishing.

Stoat and Weasel.—No data on first appearance in North Auckland. Definitely in Waipu area in 1939. In Whangarei area for long period. Possibly would account for killing of sitting ducks. Suggest brown duck suffers more than grey duck because latter flies to nests.

Still believed to be watersheds in North little affected—near Kaitaia; near Bay of Island; Ngunguru.

After disappearance (as in whole North Island), odd birds or pairs—very rare—turn up at various times in scattered localities (Auckland Domain; Lake Takapuna, Cambridge Lake). Small numbers believed to perscist and breed on few peninsular-like areas and islands (Whangaparoa—present in 1939. East Coast District—doubtful second-hand records in 1936—Mayor Island, 1936).

4. BLACK TEAL (Fuligula novaezelandiae).

(a) Summary from extensive observations of M. E. Fitzgerald:

Rotorua-Rotoiti-Waikato Districts.—In clean fresh waters, shunning muddy creeks and swamps. Dive for food, even day-old chicks going down 6-8 feet. Young at 3 months old are very dark brown—almost sooty black, then males rapidly assume mature glossy head and yellow eye. Only change in females throughout the year is a lightening or fading as the summer advances. Prenuptial white frontal band of female appears in April and is at full from June to nesting time (Nov. to Jan.), usually fading during incubation.

Nesting: One record of interest. Female hatched on January 10th, which went to nest and laid her first egg on December 1st following.

Page Twenty-five.

Incubation is 30 days. Generally mobs are together; in autumn and winter they are in parties of 20 to hundreds of birds at selected feeding grounds—in spring move off to nesting places. Eggs average 3oz. in weight. Clutch 5-6 laid on alternate days. Nests in colonies and very close to water. Older birds begin to lay in October and if nest is destroyed will try again. Yearlings wait till December.

(b) Notes by C. A. Fleming:

The population of Rotorua-Rotoiti area appears to be in a healthy state and increasing. The flock seeking sanctuary in a bay near the Ward Baths in May (shooting season) is some gauge of the population.

May, 1933—estimated 100 birds present

May, 1934—uncounted but numbers greater

April, 1939 (before shooting commenced)—estimated 500 near Ward Baths and at same time saw three flocks (estimated 300, 20 and 5 respectively) on the north shore of Rotoiti.

May, 1939—Ward Bath flocks counted as 410 birds about 15 of the females had well developed frontal patches of white—many had none.

The birds repairing to Cambridge Lake in the non-breeding and shooting season appear to have markedly decreased. These birds are believed to breed at Horahora.

May, 1933—'hundreds"—probably over 100, at Cambridge Lake.

May, 1937—20 counted.

May, 1939—about the same number (20); uncounted.

5. OYSTERCATCHERS (Haematopus spp.).

In the absence of a critical field study of oystercatchers in all parts of New Zealand it is assumed that three species or distinct forms, besides the Chatham Island bird, can be recognised.