

Indian was killed by a Canada Lynx, and his brother's description of his death and removal for burial. Among birds, I record the capture of the Sandhill Crane, *Grus Canadensis*, shot by Mr. F. Martin on St. Clair flats. I obtained it from him. He killed another which unfortunately flew into an unapproachable morass and was lost. I accompanied him on the next day to hunt for it; the mud was deep and we could not find bottom with an eight foot paddle. The surface was covered with rank weeds and other vegetable refuse, preventing us from pushing the canoe into it or over it, and to attempt walking on it would be a mad idea. I shot the King Rail (*Rallus elegans*), and had it mounted; also a Yellow Rail (*Porzana Norboracensis*). I presented these two birds to Mr. John Morden of Hyde Park. A very fine specimen of *Rallus Virginianus* shot on the flats may be seen at any time among his beautiful collection of Canadian birds. Among rare ducks, I secured two fine specimens of the American Black Scoter (*Edemia Americana*); also the Velvet Scoter (*Edemia fusca*); they are magnificent birds. I killed some splendid Canvas-back which I prize highly, as they are becoming scarce, but I am sorry to add that I lost a fine young specimen of the Red-necked Grebe, (*Podiceps Holbolli*), which by the carelessness of the Express Co., was not delivered until spoiled. I particularly regret this, as I have only procured one specimen during many years. The Great Northern Diver, (*Colymbus torquatus*), is common but difficult to obtain. I am not aware that *Colymbus Arcticus* has been noticed on the inland lakes, but I have shot three or four of the Red-throated Diver, (*C. Septentrionalis*). I have also seen the great White Heron, and one was killed near Wallaceburgh Co. Kent, but the ignorant person who shot it, allowed the bird to spoil. The Least Bittern, (*Ardetta exilis*) and Night Heron, (*Nycticardea grisea*), are not uncommon on the St. Claire flats.

J. H. GARNIER.

Lucknow, 27th Feb., 1882.

## EXPERIMENTS WITH GUNPOWDER.

SIR,—I send you a report of some experiments I have been trying with the following powders, thinking it might be of interest to some of your readers. I have been unable to carry out the trial of the different kinds of powder I mentioned to you some time ago,

owing to the difficulty I have in obtaining it in such small quantities (viz.: 12 charges of 3 drams each.)

Description of Powder.	Over Wadding.	Over Shot.	Pattern 10 in. Plate.	Force per Pellet.	Velocity. Feet per Sec.	Recoil.
	Thin Card	Thin Card	Thin Card	Thin Card	Thin Card	Thin Card
Pigeon, Wilks & Laurence No. 4 Grain	do.	do.	do.	do.	do.	do.
Curtis & Harvey's	do.	do.	do.	do.	do.	do.
Hamilton F.F.	do.	do.	do.	do.	do.	do.
Hamilton "Caribou"	do.	do.	do.	do.	do.	do.
Schultze	do.	do.	do.	do.	do.	do.
CHARGE OF POWDER 2½ DRAMS AND 1 OZ. NO. 6 SHOT.						
(Same Distance.)						
Pigeon, Wilks & Laurence	4 Pink Edge.	Thin Card.	40	2.78	644	91
Curtis & Harvey	do.	do.	25	2.63	470	82
Hamilton F.F.	do.	do.	30	2.71	638	81
" "Caribou"	do.	do.	15	1.86	431	73
Schultze	do.	do.	40	2.41	506	57

I may state the recoil spring was screwed up to 60 pounds.

The fine grain powder (Pigeon, Wilks & Laurence's and Hamilton F.F.) did best with the 2½ dram charge, both in pattern and pellet force. Schultze's powder also gave the best pattern, but the force was not quite so good; the recoil being the same as with 3 drams of Curtis & Harvey's, and "Caribou" fell off very much, although the recoil of the former was four pounds heavier and the latter ten pounds lower. The heavy recoil with the 2½ dram charge was probably caused by the