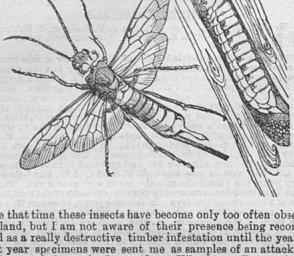


## THE NATURALIST.

## OBSERVATIONS OF SIREX GIGAS IN IRELAND.

THE SIREX GIGAS, OR "GIANT SIREX" (sometimes popularly known by the name of the "great wood wasp") has long been known to the Continent as one of various kinds of fir. So long ago as 1837 the damage caused by its great maggots feeding to some extent in growing timber, but more especially in felled wood, was recorded by Kollar. In the year 1850, Professor Westwood (in a communication to the *Gardener's Chronicle*) mentioned the insect as being the year before in the course of his hunting several specimens of this fine hymenopteron insect, generally regarded as of very rare occurrence in this country, which had been captured at a spot where some sawyers were at work. An illustration of the insect and grub, after a figure by Professor Westwood, is here given.



Since that time these insects have become only too often observable in England, but I am not aware of their presence being recorded in Ireland, or of their having taken place in Ireland in the year 1850. In that year specimens were sent me as samples of sawdust which was doing much harm in the woods at Kilkenny, Bray; also from timber at Gorey, co. Wexford; and also from Woodside, Hackleton, Carlow, with the remark (amongst other observations) "from the quantity of timber destroyed they must be very numerous." The insect is a large, pale, yellowish-brown, wasp-like fly, the female being the largest, and the grub or caterpillar being the largest of all the various insects (specified in his report for 1850), with the remark: "It is hence well distributed along our eastern coast." During the present season, the number of inquiries sent by correspondents of the *Field*, together with specimens of this fine but destructive insect forwarded for identification to myself, suggest that the infestation is spreading in Ireland, and this makes it desirable to put on record the localities where it has been observed.

The female insect (which is most frequently observed, or at least most frequently forwarded) is cylindrical, usually about 1 in. long, and the colour black and yellow, with a yellow band on the head, with a yellow patch on each side between the wings; black; abdomen with two lowest and three terminal rings yellow, and those between black; at the tip, the abdomen has a strong, hard point, and beneath it is the ovipositor, like a long, hard, bristly, lying in a long yellowish or tawny sac-like sheath, which is easily split open. The leg has the shanks and tarsi yellowish; the four transparent and strongly veined wings are of a pale tawny colour; the horns yellow, long, and threelike. The male is smaller than the female, with the abdomen flatter, and yellow or reddish yellow, excepting the lowest and terminal segment, which are black.

The insect has been observed to bore a few small holes into the bark of the attacked tree with her ovipositor, each hole for each egg. The maggots which hatch from these are soft, whitish, and cylindrical, with a scaly or horny head, furnished with strong jaws, a pair of very minute feet on each of the three segments next to the head, and a pair of strong claws on the last. The maggots enter the dead wood, feeding until they are full grown, which is considered to be in about seven weeks from date of hatching; and, as they grow to a length of from 1½ to 2 inches, they have a power of sealing off the timber. How long they may continue to grub is not known; when they are ready to pupate, the maggots stand on being fully fed, so that at this time it may possibly be that the change takes place—*aperte uncertain*; but whether in grub, or in chrysalis, or in perfect state, they may possibly remain for a few years in the infested wood, appearing from it when cut up, or manufactured, to the no small surprise of observers.

The insect's attention is directed either by presence of the tree, or by the large holes from which the perfect insect has issued, should be cut down, sawed up, and burnt. Where there are a few insects noticeable, it is very likely that there are many more in some stage or other in the tree. I have myself helped at securing twelve to twenty insects, taken from a single felled tree.

Sixty or more, however, are the insects most frequently liable to infestation: but it is not confined to these, as, for instance, in Professor Westwood's paper above quoted, he records an observation of a female *S. gigas* inserting her eggs in the stem of an American Arbutus; which had been cut down only a few days before.

A grub has been written to me as having been found in a healthy standing timber, but, however this may be, the attack obviously takes place to trees which (but for this) might have continued to live and grow both for useful and ornamental purposes. There is no doubt, however, that sickness, tending to check the full flow of sap, attracts infestation, and also puts the attacked trees into a condition of decay, when the insects, as well as the grubs or the small commencing galleries are not so liable to be choked, together with their insect contents, by the sap exuding into them.

The best methods of prevention, therefore, are to clear away trees which have been injured by accident, or by treatment, or that are weak in old age, disease, or attack of insects; and also those which have been overgrown, or those which have been felled, as the sires lay its egg in felled as well as in standing fir timber.

Any trees which are seen to be infested as above mentioned, by the sires having been noticed escaping, or by the large holes in the trunk which have been made by the grubs, should be cut down, and felled, and so disposed of as to prevent further mischief. Recently felled trunks are particularly liable to *hæta* ion; and in a year or so, possibly less, their condition is soon times over by the presence of great parasite flies, commonly known as ichneumon flies, piercing into the bark with their ovipositors, to reach the wood, wasps which have been myself seen to be so numerous as to be almost unable to restrain their ovipositors. If, in the case of a badly infested felled trunk, it was not possible to cut it up at once, it would be worth while to heap rubbish over it and fire it, to kill the pests.

There is another kind of sires, known as the aul-blue or common sires, the *S. jucundus*—of which the female is only dark blue, that is very mischievous in England; but I am not aware of this having been as yet recorded as mischievous in Ireland.

ELEANOR A. ORMEROD.

Torrington House, St. Albans, July 16.

## WHITE RHINOCEROS.

SIR.—Mr. Tegetmeier and others appear to be at a loss to know why the square-mouthed rhinoceros should be called "white," if they will exist in the future. The horns of this species, they will find, are not longer colored by the colour of the horn of the rhinoceros; the lipped part is white.

As the horns of these animals are composed of agglutinated hairs, it is fair to infer that, if they had hair, their prevailing colour would be similar to the grain of the horn.

The author of the expression "I got from the veteran hunter, old Hartie in Mysore" in 1869, the late Mr. Thomas Bain, will of course give his opinion that this explanation is correct. The old Boer hunters Viljoen and Swartz could give no other reason for the name "white rhinoceros."

Our old loading rods, made out of rhinoceros horn kerries, were all

lightish in colour, and only kerries made out of white rhinoceros

horns were long enough for this purpose. When we made our pipes out of rhinoceros horn, we always chose the black "boréé" horns, as we fancied black looked better in a pipe.

P. MCGILVEREY (late elephant-hunter).

Whittlesea, S. Africa, June 23.

## NOTES AND QUERIES ON NATURAL HISTORY.

THRUSHES BREEDING IN AVIARY.—Will Miss Edith Rogers have the kindness to tell me whether she has observed in the last Field built a nest similar to that which they would have made if in a wild state?—GEORGE J. DUNVILLE LEE (Woodhill, Oswestry).

MOCK NESTS.—I suppose it is not generally known that the male moorhen makes a convenient flat stage well above the water for the accommodation of the hen to brood her young upon at night. Perhaps the mock nests of the black-headed gull observed by Col. T. M. Ward in the *Field* were built for similar purposes.—J. T.

RAT STALKING.—MOORHEN.—Last November I saw a large brood of young crows stalk a moorhen that was sitting outside a red bed. Just as it sprang at the neck of the bird I shot them both dead. A wonderful fisherman, too, is the brown rat. During the spawning season I found large quantities of perch, and afterwards roach, bream, and other fish, all of them, completely known to me, in the water to dive 8 ft. or 10 ft., and had them.—J. T.

NESTING OF THE LESSER REDPOLL.—I do not know if the fact has been previously recorded—I have never met with it in any natural history books—but I found many nests of this species in North Wales this year, and also found that the hen bird invariably commenced to sit after laying her first egg, the consequence being that the young were hatched before the egg was fully incubated as well as perfectly fresh eggs.—H. S. DAVENPORT.

COMMON SNAKES TAking TO WATER.—I have always regarded the common ringed snake as a semi-aquatic animal, abundant near rivers and watercourses, resting on the water like a dry stick, and taking it on hot days for pleasure, yet unable to dive or sink. When fishing last summer a snake swam up to my boat (perhaps mistaking it for a fish) and after a short time, when I had reached the east coast of Ireland, and in each case the insect and its method of attack appeared to have been quite unobserved previously in the locality. In the same year also, Mr. G. H. Carpenter, the entomologist of the Royal Entomological Society, reported having found a large number of the insect infesting trees in Ireland, and having to his knowledge affected a number of various localities (specified in his report for 1890), with the remark: "It is hence well distributed along our eastern coast." During the present season, the number of inquiries sent by correspondents of the *Field*, together with specimens of this fine but destructive insect forwarded for identification to myself, suggest that the infestation is spreading in Ireland, and this makes it desirable to put on record the localities where it has been observed.

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WILD SWANS IN IRELAND IN JUNE.—In reply to the query of Mr. A. Parker, whether it is unusual to see wild swans in Ireland in summer, and also as far as June 10, 1894, in the United States, it is to be replied excepting that, unless a wounded bird, it is very improbable.

It is not possible that they may have been tame swans? Some years ago, in the middle of June, I saw seven tame swans (all adult birds) on the estuary here; and last year a friend of mine saw live on the River Tawton near Rivermead, a swan which he took to be a wild swan. Of course, when swans are seen on the sea coast, they are nearly always considered wild swans, especially if the black knob on the bill is not observed, which so unerringly marks the identity of the tame swan.—ROBERT WARREN (Moyrville, Ballymena).

CUCKOO CALLING ON THE WING.—With regard to the question of cuckoo calling on the wing, my observations have led me to the conclusion that the call is not a true song as some correspondents think. On Sunday evening early in the May of 1893 (strange to say, I have neglected to enter the date in my naturalist diary), I was out in Ainswick Scar, Westmorland, and heard the cuckoo's note faintly, and evidently high up. I saw a pair of birds, cock and hen, the former being a pale yellowish-green, with a dark patch on each of the hind-quarters, sailing away in the direction of Kendal, and even after they were out of my sight I could hear the call faintly. On Sunday, April 22, this year, I watched a cuckoo fitting from bush to bush a large mixt hedge dividing a plantation and arable field of the estate of Mrs. W. Wilson, in High Park, near my residence. 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