

THE MOLLUSCA OF NORTH HANTS.

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The above title is, I fear, a presuming one, for the district I have worked is very limited in area, the whole not extending over five square miles. I have worked at the subject nearly single-handed, the Rev. W. L. Eyre, of Swarraton, being the only person who has supplied me with any notes and information of captures, etc. I trust, however, that this paper may serve as a nucleus, round which may be gathered much information, and be the means of procuring other workers in the same field, so that our knowledge of the Mollusca inhabiting that part of the county known as North Hants may very shortly be much augmented.

The following notes and lists will serve as a guide as to what species and varieties may be looked for. The localities mentioned are all situated on the chalk, so that there is no doubt that other species and a great many other varieties will be found on different soils, such as the clay and gravel, if they are carefully searched.

Hampshire is a county in many respects very well adapted to the pursuit of Natural History, but for some reason, though with a few notable exceptions, very little has been done in the way of collecting and storing information. Conchology is one of the branches that has been neglected; the records we have are few, and in many instances useless for want of proper authentication. The members of the Field Club may render great assistance by making and forwarding to me lists and specimens from various localities. I will willingly render any aid that lies in my power. It is tedious working up a subject single-handed, and much more can be done by co-operation.

The list of the fresh water species is not so complete as that of the terrestrial, chiefly through the scarcity of good hunting grounds. The few that are mentioned have been found in small ponds and in about two miles of the river Itchen, beginning from its source. Many others are likely to

occur; among these I may mention *Unio tumidus*, *Anodonta cygnæa*, *A. anatina*, *Bythinia Leachii*, *Planorbis nautilus*, *P. corneus*, *Physa hypnorum*, *Limnæa auricularia*, *Ancylus lacustris*.

It will be interesting to ascertain whether the white variety of the last mentioned is as common as the type, as in South Hampshire and Sussex this, I believe, is the case.

The variety *Patula* of *Limnæa peregra* is new to this country; it is continental.

The family of Slugs (*Limacidæ* and *Arionidæ*) is very incomplete, but I can record some good captures; all these have been seen and correctly named by Mr. W. Denison Roebuck, F.L.S., Recorder of the Conchological Society; the list includes some very interesting varieties. A careful search should be made for the Shell-slug (*Testacella*), hitherto unrecorded from Hampshire.

Considering the small extent of my hunting grounds, I have been singularly successful. In our British list 132 species are known, including both land and fresh water. In the following list I record 64 species; five others have been previously recorded by other conchologists as occurring in North Hants, making the sub-county list to consist of 69 authenticated species. Of the remainder, 18 of them are very unlikely to occur, so that it leaves 45 others that may possibly be found. By referring to the British list the names of these will be easily made out.

Helix pomatia, the edible (erroneously called the Roman) Snail occurs in considerable quantity at Preston Candover, and extends as far as Ellisfield; this is the only Hampshire locality I am aware of. Four specimens only of the very rare albino variety of *Helix lapicida* have appeared at Preston Candover.

The only British locality for *H. obvoluta* is Ditcham and Stoner Hill, near Petersfield. It is said to have been found in Crabbe Wood, near Winchester, but this requires verifying.

The variety *Castanea* of *H. hortensis* is new. *Bulimus montanus*, I am told, is to be found at Selborne; but this I doubt.

The minute size of the genus *Vertigo* renders them very difficult to find; no doubt they may be discovered.

V. moulinsiana has been found by Mr. Groves in Hants.

I have only mentioned the locality in places where the Mollusc named has not hitherto been found elsewhere in North Hants. The remarks on the frequency of occurrence refer only to the sub-county, so far as is at present known.

Aquatic.

SPHÆRIUM.		Locality.	Remarks.
1	S. CORNEUM (L)	.. Swarraton..	.. Frequent
	(a) VAR. flavescens (McGill)	.. " ..	.. Rare
2	S. LACUSTRE (Mull)	.. Preston Candover ..	.. Common
PISIDIUM.			
3	P. AMNICUM (Mull)	.. Chilton Candover ..	.. Frequent
4	P. FONTINALE (Drap)	.. Swarraton..	.. Common
5	P. PUSILLUM (Gmelin)	.. Chilton Candover ..	.. Scarce
6	P. NITIDUM (Fen)	.. " ..	.. "
BYTHINIA.			
7	B. TENTACULATA (L)	.. Swarraton..	.. Frequent
	(a) VAR. marginata	.. " ..	.. Rare
	(b) VAR. producta	.. " ..	.. "
VALVATA.			
8	V. PISCINALIS (Mull)	.. " ..	.. Frequent
	(a) VAR. depressa (C. Pffr)	.. " ..	.. Rare
	(b) VAR. sub-cylindrica (Jeff)	.. " ..	.. "
9	V. CRISTATA (Mull)	.. " ..	.. Frequent
PLANORBIS.			
10	P. NITIDUS (Mull)	.. Chilton Candover ..	.. Common
11	P. ALBUS (Mull)	.. Swarraton..	.. Scarce
12	P. SPIORBIS (Mull)	.. " ..	.. Common
13	P. VORTEX (L)	.. Chilton Candover ..	.. Frequent
14	P. CARINATUS (Mull)	.. " ..	.. Common
15	P. CONTORTUS (L)	.. " ..	.. "
16	P. COMPLANATUS (L)	.. " ..	.. "
PHYSA.			
17	PH. FONTINALIS (L)	.. Swarraton..	.. Frequent
LIMNCEA.			
18	L. PEREGRINA (Mull)	.. " ..	.. Common
	(a) VAR. ovata (Drap)	.. " ..	.. Rare
	(b) V. acuminata (Jeff)	.. Chilton Candover ..	.. Frequent
	(c) V. labiosa (Jeff)	.. " ..	.. Rare
	(d) V. candida (Porro)	.. " ..	.. Very rare
	(e) V. patula	.. Swarraton..	.. "
	(f) M. OVATA decollata (Fitzg.)	.. Preston Candover ..	.. "
19	L. STAGNALIS (L)	.. Swarraton..	.. Frequent
20	L. PALUSTRIS (Mull)	.. " ..	.. "
21	L. TRUNCATULA (Mull)	.. " ..	.. "
ANCYLUS.			
22	A. FLUVIATILIS (Mull)	.. " ..	.. "
	(b) V. albida (Jeff)	.. " ..	.. "

Terrestrial.

(Slugs and Snails.)

ARION.

23	A. ATER (L)	..	..	Preston Candover	..	Common
	(a) V. vulgaris	..	..	"	"	"
24	A. HORTENSIS (Fer)	..	..	"	"	"
25	A. SUBFUSCA	..	..	"	"	"
	AMALIA	..	..	"	"	"
26	A. GAGATES (Drap)	..	..	"	"	"
	(a) V. plumbea	..	..	"	"	Rare
27	A. MARGINATA (Mull)	..	..	"	"	Common
	(a) VAR. nigrescens	..	..	"	"	Rare
	(b) VAR. rustica	..	..	"	"	"

LIMAX.

28	L. MAXIMUS (L)	..	..	"	"	Common
	(a) V. cellaria	..	..	"	"	Rare
	(b) V. fasciata	..	..	"	"	"
	(c) V. luteo-pallens	..	..	"	"	"
29	L. FLAVUS (L)	..	..	"	"	Frequent
30	L. AGRESTIS (L)	..	..	"	"	"
	(a) V. sylvatica	..	..	"	"	"
	(b) V. nigrescens	..	..	"	"	Rare
	(c) V. obscura	..	..	"	"	"
31	L. ARBORUM (B.—Ch)	..	..	"	"	Frequent

V. stands for Variety.

Helicidae.

(Snails.)

SUCCINEA.

32	S. PUTRIS (L)	..	..	Swarraton.	..	Common
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VITRINA.

33	V. PELLUCIDA (Mull)	..	..		..	Frequent
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ZONITES.

34	Z. CELLARIUS (Mull)	..	..		..	Common
35	Z. ALLIARIUS (Miller)	..	..	Preston Candover	..	Frequent
36	Z. CRYSTALLINUS (Mull)	..	..		..	Common
37	Z. FULVUS (Mull)	..	..	Swarraton.	..	Frequent
38	Z. PURUS, V. margaritacea (Jeff)	..	..	"	..	Rare

HELIX.

39	H. ACULEATA (Mull)	..	..		..	Frequent
40	H. POMATIA (L)	..	..	Preston Candover	..	Rare
41	H. ASPERSA (Mull)	..	..		..	Common
	(a) VAR. tenuior (Skull)	..	..	"	"	Rare
	(b) VAR. zonata (Mog)	..	..	"	"	"
	(c) VAR. undulata (Mog)	..	..	"	"	"
42	H. NEMORALIS (L)	..	..		..	Common
	(a) VAR. libellula (Risso)	..	..	"	"	Frequent
	(b) VAR. rubella (Mog)	..	..	"	"	"
	(c) VAR. castanea (Mog)	..	..	"	"	"
43	H. HORTENSIS (Mull)	..	..		..	Common
	(a) VAR. lutea (Mog)	..	..	"	"	"
	(b) VAR. incarnata (Mog)	..	..	"	"	"
	(c) VAR. castanea (Taylor)	..	..	"	"	Rare

HELIX.—Continued.

44	H. ARBUSTORUM, Var. pallida. (Taylor)	..	Preston Candover	..	Very rare
45	H. CANTIANA (Mont)	..	..	..	Common
46	H. RUFESCENS (Penn)	..	..	..	"
	(a) V. rubens (Mog)	..	..	..	Frequent
	(b) V. minor (Jeff)	..	..	Swarraton	..
	(c) V. alba (Mog)	..	..	..	Rare
47	H. CONCIENNA (Jeff)	..	..	..	Frequent
48	H. HISPIDA (L)	..	..	..	"
	(a) V. subrufa (Mog)	..	..	..	Rare
49	H. SERICEA (Mull)	..	..	..	Frequent
	(a) V. cornea (Jeff)	..	..	..	Rare
50	H. VIRGATA (Da Costa)	..	..	..	Common
	(a) Var. albicans (Grat)	..	..	Preston Candover	..
	(b) V. minor	..	..	..	Rare
	(c) V. nypozona	..	..	..	"
	(d) V. subalbida	..	..	..	"
51	H. CAPERATA (Mont)	..	..	..	Frequent
	(a) Var. ornata (Picard)	..	..	..	Rare
52	H. ERICETORUM (Mull)	..	..	..	Common
	(a) V. minor (Mog)	..	..	..	"
	(b) V. alba (Charp)	..	..	..	"
53	H. ROTUNDATA (Mull)	..	..	..	"
54	H. PULCHELLA (Mull)	..	..	..	"
	(a) V. costata (Mull)	..	..	..	Frequent
55	H. LAPICIDA (L)	..	..	..	Common
	(a) V. albina (Menke)	..	..	..	Very rare

BULIMUS.

56	B. OBSCURUS (Mull)	..	..	..	Frequent
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PUPA.

57	P. MARGINATA (Drap)	..	..	..	"
	(a) V. edentula (Mog)	..	..	..	Rare

VERTIGO.

58	V. PYGMÆA (Drap)	..	..	..	"
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CLAUSILIA.

59	C. RUGOSA (Drap)	..	..	..	Common
60	C. LAMINATA (Mont)	..	..	..	"
	(a) V. albinos (Mog)	..	..	..	Frequent

COCHLICOPA.

61	C. LUBRICA (Mull)	..	..	..	"
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ACHATINA.

62	A. ACICULA (Mull)	..	..	Swarraton	..
		..	..	..	Frequent

CARYCHIUM.

63	C. MINIMUM (Mull)	..	..	Preston Candover	..
		..	..	..	Rare

CYCLOSTOMA.

64	C. ELEGANS (Mull)	..	..	..	Common
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