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John Ross Bell's Research.
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MISSISQUOI NATIONAL WILDLIFE REFUGE

REPORT ON INVERTEBRATE RESEARCH PROJECT, 1987-1988

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In the preceding year, I have devoted more time to identifying the backlog of specimens collected in previous years than to field work. Nevertheless, I have made collections in two habitats previously unsampled, Maquam Bog, and Charcoal Creek and its banks. A list will be appended of species not previously identified from the refuge. In addition, a long series of Staphylinidae (rove beetles) is currently being studied by Dr. R. Hoebeke of Cornell University, and some difficult Lepidoptera will be identified by Dr. John Rawlins of the Carnegie Museum of Natural History.

The next academic year, September 1988 - June 1989, I will be on sabbatical leave in Australia, so I will have to suspend work on this project. When I return, I hope to revive and expand it, as part of a larger project to make a preliminary checklist of all invertebrates known from Vermont. This will be of value to the Endangered Species Committee, as well as to taxonomists, ecologists, applied scientists working on wildlife, and others. I will apply for another collecting permit at the appropriate time.

INVERTEBRATES RECORDED FROM THE MISSISQUOI NATIONAL WILDLIFE REFUGE

1987-1988 (includes only species recorded for the first time.)

NAME	FAMILY	COMMON NAME	HABITAT
<i>Ceraclea</i> sp.	Leptoceridae	caddis worm	in sponges
<i>Climaciella</i> sp.	Sisyridae	spongilla fly	in sponges
<i>Eunemobius carolinus</i>	Gryllidae	lowland cricket	alluvial mud
<i>Conocephalus attenuatus</i>	Conocephalidae	a longhorn grasshopper	in marsh grasses
<i>Trichodezia albovittata</i>	Geometridae	white-stripe black moth	on jewelweed
<i>Spilosoma virginica</i>	Arctidae	yellow wooly bear	forest trees
<i>Gracillaria fraxinella</i>	Gracillariidae	ash leafminer	in ash leaves
<i>Lycaena epixanthe</i>	Lycaenidae	bog copper	Maquam bog
<i>Euschistus ictericus</i>	Pentatomidae	stink bug	in marshes
<i>Podisus modestus</i>	Pentatomidae	stink bug	general
<i>Notonecta irrorata</i>	Notonectidae	back swimmer	in shallow pools
<i>Belostoma americana</i>	Belostomatidae	lesser giant water bug	in lake shallows
<i>Chrysops mitis</i>	Tabanidae	deerfly	near swamps
<i>Chrysops aestuans</i>	Tabanidae	deerfly	near swamps
<i>Chrysops cincticollis</i>	Tabanidae	deerfly	near swamps
<i>Chrysops aberrans</i>	Tabanidae	deerfly	near swamps
<i>Hybomitra lasiophthalma</i>	Tabanidae	deerfly	near swamps
<i>Xiphidrya maculata</i>	Xiphidryidae	wood wasp	bores in trees
<i>Hemitaxonus dubinotus</i>	Tenthridinidae	sawfly	plant feeder
<i>Vespula maculifrons</i>	Vespidae	yellowjacket	general
<i>Dolichovespa maculata</i>	Vespidae	white faced hornet	general
<i>Bombus griseocollis</i>	Bombidae	bumble bee	general

NAME	FMAILY	COMMON NAME	HABITAT
<i>Bombus pennsylvanicus</i>	Bombidae	bumble bee	general
<i>Blethisa multipunctata</i>	Carabidae	marsh ground beetle	marshes
<i>Dienutes assimilis</i>	Gyrinidae	whirligig beetle	river surface
<i>Nicrophorus orbicollis</i>	Silphidae	burying beetle	dead fish
<i>Oiceoptera inaequale</i>	Siphidae	carrion beetle	dead fish
<i>Pelidnota punctata</i>	Scarabaeidae	grape scarab	in river drift
<i>Glischrochilus quadriguttatus</i>	Nitidulidae	sap feeding beetle	dead plants
<i>Neopyrochroa flabellata</i>	Pyrochroidae	fire-colored beetle	under bark of dead trees
<i>Diaperus maculata</i>	Tenebrionidae	fungus darkling	in fungi
<i>Xylopinus saperdoides</i>	Tenebrionidae	darkling beetle	under bark
<i>Alobates pennsylvanicus</i>	Tenebrionidae	darkling beetle	under bark
<i>Dircaea bifaciata</i>	Melandryidae	melandryid bark beetle	on bark
<i>Adalia bipunctata</i>	Coccinellidae	2-spot ladybird	general
<i>Coleomagilla maculata</i>	Coccinellidae	11-spot ladybird	general
<i>Parandra brunnea</i>	Cerambycidae	longhorn beetle	dead stumps
<i>Disonychia uniguttata</i>	Chrysomelidae	flea beetle	general
<i>Labidomera clivicollis</i>	Chrysomelidae	leaf beetle	milkweed
<i>Galerucella luteola</i>	Chrysomelidae	leaf beetle	on elm (found in river drift)