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REPORT ON MALACOLOGICAL INVESTIGATIONS

by

Alan Mozley

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University of Manitoba

The following report comprises some of the results of malacological investigations in Western Canada. Considerable information relating to the habitat preferences, the association of molluscs with other organisms, their value as fish food, and other phases of the ecology of these forms has been collected, and will be reported on later, after additional observations have been made. It will be seen that some of the species have been collected much more often than others. This is to some extent the result of imperfect collecting, but is also due in part to the fact that some species are much more abundant, and widely distributed than others.

List of Species

GASTROPODA

Family LYMNAEIDAE

Lymnaea stagnalis appressa (Say).

MANITOBA. Indian Bay. Whiteshell River District, Little Whiteshell Lake; Crow Duck Lake; protected shores of the Whiteshell River above Jessica Lake. Lake Brereton; Winnipeg, Sturgeon creek; Lockport; Clandebeys, Muckle Creek; Lake Winnipeg, Grand Beach - the Grande Marais, Victoria Beach - the large marsh; Treesbank, Souris River; Baldur, near Cobbs Lake; Ninette, Pelican and Bone Lakes; Lake Manitoba, Delta; Onah, Douglas Lake; Basswood, Long Lake; Clear Lake, Riding Mountains; Dauphin; Lake Winnipegosis, marsh near the Meadow Portage.

SASKATCHEWAN. Kuroki, Fishing Lake; Humboldt, Burton Lake; Theodore, Powells Lake; Ingebright; Yonker, Eyehill Creek.

Lymnaea stagnalis sanctaemarinae (Walker).

MAN. Brereton, Lake Brereton.

Lymnaea stagnalis lillianae Baker.

MAN. Indian Bay, Shoal Lake.

Lymnaea megosoma (Say)

MAN. Falcon Bay, Shoal Lake; Whiteshell River District, Whiteshell River above Jessica Lake.

Lymnaea caperata (Say).

MAN. Molson; Navin; Ninette, abundant in the marshy area between Pelican and Bone Lakes; Sifton; Lake Winnipegosis, marsh near the Meadow Portage.

Lymnaea umbilicata C.E. Adams.

MAN. Birtle, small marshy areas along the banks of Birdtail Creek.

Lymnaea emarginata (Say).

MAN. Lake Winnipeg, Victoria Beach. Lake Winnipegosis, abundant on exposed shores near Snake Island in the southern portion of the lake, and on Cormorant Island at the northern end.

Lymnaea emarginata angulata Sowerby

MAN. Winnipeg River, near its junction with the Whitemouth River.

Lymnaea emarginata var.

MAN. Clearwater Lake, Hudson Bay Railroad; Clear Lake, Riding Mountains. The Clearwater Lake individuals appear to be a new variety of this species. The Clear Lake forms resemble L. emarginata wisconsinensis (Baker).

Lymnaea parva sterkii Baker

MAN. Birtle, small marshy areas along the banks of Birdtail Creek.

Lymnaea parva var.

MAN. Ninette, marsh between Round (also known as Square L.) and Pelican Lakes.

Lymnaea dalli Baker

MAN. Lake Winnipeg, Victoria Beach.

Lymnaea obrussa exigua (Lea)

MAN. Mile 69, Greater Winnipeg Water District Railroad; Clandeboye, Muckle Creek.

Lymnaea obrussa decampi (Streng).

MAN. Clearwater Lake, Hudson Bay Railroad.

Lymnaea lanceata (Gould).

MAN. Mile 95, G.W.W.D. Ry.; Brereton, Lake Brereton; Whiteshell River District, Cross Lake; Mallard Lake; Little Whiteshell Lake; Zizania marsh on Whiteshell River below the Whiteshell Lakes.

Lymnaea columella casta (Lea).

MAN. Brereton, Lake Brereton.

Lymnaea palustris (Muller).

MAN. Indian Bay, Shoal Lake; St. Norbert, La Salle River; Clandeboye, Muckle Creek; Goldeye Lake, near mouth of the Red River; Lake Winnipeg, Matlock; Brereton; Jackfish Lake and Jackfish Creek; Steep Rock; Aweme; Ninette, Pelican Lake; Dauphin; Sifton.

SASK. Theodore, Whitesand River.

Lymnaea palustris var.

MAN. Ninette, Pelican Lake. Some of the shells from the marsh at the northern end of Pelican Lake were very much like L. palustris blatchleyi Baker.

Lymnaea vahlia "Beck" Moller.

MAN. Molson; Lake Winnipeg, Victoria Beach - Traverse Bay, one mile south of Elk Island; Portage la Prairie, "ox-bow" of Assiniboine River; Ninette? Pelican Lake; Birtle, Birdtail Creek; Lake Manitoba, Delta.

Lymnaea vahlia arctica Lea.

MAN. Lake Winnipeg, Grand Beach.

Lymnaea vahlia, var.

MAN. Birtle, Birdtail Creek. Some of the shells of L. vahlia from the Birdtail Creek resemble L. vahlia pingelli "Beck" Moller.

Lymnaea humilis modiocella Say.

MAN. Ninette, near Round Lake.

Lymnaea catascopium Say.

MAN. Lake Winnipeg, Victoria Beach. Abundant on an exposed boulder shore on the northeast shore of the peninsula.

Family PLANORBIDAE

Planorbis antrosus Conrad

MAN. Birtle, Birdtail Creek.

Planorbis antrosus striatus Baker.

MAN. Falcon Bay, Shoal Lake; Brereton, Lake Brereton; unnamed lake at Mile 55 1/2 (from Reddit, Ont.) C.N.R. main line. Winnipegosis, Mossy River.

Planorbis antrosus var.

MAN. Birtle, Birdtail Creek. Some shells from the Birdtail Creek are near the variety portagensis Baker.

Planorbis campanulatus wisconsinensis Winslow.

MAN. Indian and Falcon Bays, Shoal Lake; Snake Lake; Brereton, Lake Brereton and Mud Turtle Lake; Whiteshell River District, Whiteshell River

above second rapid below Betula Lake; Whiteshell Lake; Crow Duck Lake; small lake on portage between Whiteshell and Crow Duck Lakes. Winnipeg River, near the Seven Sitters Falls; Lake Winnipeg, Berens River, near its mouth; Big Black River - near its mouth.

Planorbis campanulatus davisii Winslow.

MAN. Onah, Douglas Lake.

Planorbis exacuus Say.

MAN. Falcon Bay, Shoal Lake; Snake Lake; Whiteshell River District, Whiteshell River below the Mallard Lake portage; Little and Big Whiteshell Lakes; Zizania marsh below the Whiteshell Lakes; Small lake on portage between Whiteshell and Crow Duck Lakes. Brereton, Lake Brereton; Lake Winnipeg, Victoria Beach, Grand Beach - the Grande Marais; Onah, Douglas Lake; Ninette, Pelican Lake; Lake Winnipegosis; Clearwater Lake, H.B. Ry.

Planorbis deflectus Say.

MAN. Jackfish Lake; Lake Winnipeg, Victoria Beach; Clearwater Lake, Hudson Bay Railroad.

Planorbis trivolvis Say.

MAN. Falcon Bay, Shoal Lake.

Planorbis coruplentus Say.

MAN. Falcon Bay, Shoal Lake.

Planorbis umbilicatellus Cockerell

MAN. St. Vital; Brereton, Mud Turtle Lake.

Planorbis parvus Say.

MAN. Indian Bay, Shoal Lake; Whiteshell River District, Little Whiteshell Lake. Brereton, Lake Brereton; Red River below Selkirk; Goldeye Lake, near mouth of Red River; Clandeboye, Muckle Creek; Balsom Bay, creek running into

the Grande Marais; Lake Winnipeg, Victoria Beach; Jackfish Creek near Jackfish Lake; Ninette, Pelican Lake; Onah, Douglas Lake; Treesbank, Souris River; Morris; Basswood, Long Lake; Clear Lake, Riding Mountains.

Planorbis hirsutus Gould.

MAN. Falcon Bay, Shoal Lake; Whiteshell River District, Whiteshell River below the Mallard Lake portage. Jackfish Creek near Jackfish Lake; Lake Winnipeg, Victoria Beach; Clearwater Lake, Hudson Bay Railroad.

Segmentina armigera Say.

MAN. Lake Winnipeg, Grand Beach.

Segmentina crassilabris Walker.

MAN. Falcon Bay, Shoal Lake; Balsam Bay, Creek running into the Grande Marais; Lake Winnipeg, Victoria Beach.

Segmentina christyi Dall.

MAN. Winnipeg, Beulah.

SASK. Wadena, near Quill Lake.

Family PHYSIDAE

Physa gyrina Say.

MAN. Shoal Lake, Indian Bay; Erereton, Lake Erereton and Mud Turtle Lake; Ninette, Pelican Lake.

Physa gyrina hildrethiana Lea.

MAN. Winnipeg.

Physa heterospropha Say.

MAN. Lake Winnipeg, Victoria beach, Grand Beach.

Physa integra Haldeman.

MAN. Birch River at mile 77 G.W.W.D. Ry.; Clandeboye, Muckle Creek; Lake Winnipeg, Grand Beach p the Grande Marais, Victoria Beach; Birtle, Bird-tail Creek.

Physa sp.

MAN. Shoal Lake; mile 94, G.W.W.D. Ry.; Whiteshell River District, several localities. Lake Manitoba; Lake Winnipegosis; Lake Dauphin.

Family ANCYLIDAE

Ferrissia rivularis Say.

MAN. Birtle, Birdtail Creek.

Ferrissia parallela Haldeman.

MAN. Brereton, Rennie River; Whiteshell River District, White Lake.

Family VIVIPARIDAE

Campeloma decisum Say.

MAN. Whiteshell River District, Whiteshell River near first portage below White Lake; between fifth and sixth rapids below Betula Lake. Berens River, five miles above the junction of the Etomami River, at a depth of 15 meters.

Family VALVATIDAE

Valvata tricarinata (Say).

MAN. Whiteshell River District, Betula Lake; Whiteshell River between sixth and seventh rapids below Betula Lake. Morris, Morris River; Clandeboye, Muckle Creek; Lake Winnipeg, Grand Beach, Victoria Beach, Matlock; Treesbank, Souris River; Lake Manitoba, Delta; Ninette, Bone Lake; Lake Winnipegosis; Clearwater Lake, Hudson Bay Railroad.

SASK. Theodore, Whitesand River; Yonker, Manitou Lake. The record from Manitou Lake is based upon a single, broken, empty shell dredged from the bottom of the lake.

Valvata spp.

MAN. Members of this genus whose specific identity have not been determined have been collected in Lakes Winnipeg, Winnipegosis, and Manitoba.

Family AMNICOLIDAE

Amnicola limosa (Say).

MAN. Brereton, Lake Brereton; Ninette, Pelican Lake.

Amnicola limosa porata (Say)

MAN. Lake Winnipeg, Victoria Beach.

Amnicola walkeri Pilsbry.

MAN. Lake Winnipeg, Victoria Beach.

Amnicola emarginata (Küster)

MAN. Treesbank, Assiniboine River.

Amnicola spp.

MAN. Lakes Winnipeg, Winnipegosis, and Manitoba.

PELECYPODA

Family UNIONIDAE

Amblema plicata (Say)

MAN. Berens River, five miles above the junction of the Etomami River, at a depth of 15 meters.

Strophitus rugosus (Swainson).

MAN. Whitemouth River, near its junction with the Winnipeg River; Birtle, Birdtail Creek.

Anodonta grandis Say.

MAN. Red River near Winnipeg; Morris?

Anodonta grandis footiana Lea

MAN. Falcon Bay, Shoal Lake; Brereton, Lake Brereton; Birtle, Bird-tail Creek.

SASK. Theodore, Whitesand River.

Anodonta kennicotti Lea

MAN. Lake Manitoba, Delta.

Anodontoides ferussacianus (Lea).

SASK. Theodore, Whitesand River.

Lasnigona complanata (Barnes)

MAN. Lake Winnipeg, near the mouth of the Berens River; Birtle, Bird-tail Creek.

Lampsilis ovata canadensis Lea?

MAN. Lake Winnipeg, Victoria Beach.

Lampsilis siliquoides rosacea De Kay?

MAN. Lake Winnipeg, Victoria Beach; near the mouth of the Berens River, Lake Dauphin; Valley River; Lake Winnipegosis.

Family Sphaeriidae

Sphaerium sulcatum Lamarck

MAN. Falcon Bay Shoal Lake. SASK. Theodore, Whitesand River

Sphaerium acuminatum Prime.

MAN. Lake Winnipeg, Victoria Beach.

Sphaerium tenue Prime.

MAN. Lake Winnipeg, Victoria Beach.

Sphaerium crassum Sterki

MAN. Falcon Bay, Shoal Lake.

Sphaerium solidulum Prime

MAN. Whitemouth River near its junction with the Winnipeg River.

Sphaerium striatinum Lamarck.

MAN. Whitemouth River, near its junction with the Winnipeg River.

Sphaerium occidentale Prime.

MAN. Mile 69, G.W.W.D. Ry.

Musculium transversum Prime

MAN. Lake Winnipeg, Matlock.

Musculium truncatum Linsley

MAN. Lake Winnipeg, Victoria Beach.

Musculium ryckholti Normand

MAN. Lake Winnipeg, Victoria Beach.

Musculium securis Prime

MAN. Brereton, Lake Brereton.

Pisidium compressum Prime

MAN. Birtle, Birdtail Creek. SASK. Theodore, Whitesand River.

Pisidium adamsi Prime

MAN. Brereton, Lake Brereton.

Pisidium fallax Sterki

SASK. Theodore, Whitesand River.

Pisidium roperi Sterki

MAN. Brereton, Mud Turtle Lake; Lake Winnipeg, Victoria Beach.

Pisidium subrotundum Sterki

MAN. Ninette.