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Publications

1. Walker, J.M. and Waygood, E.R. 1968. Ecology of *Phragmites communis*. I. Photosynthesis of a single shoot *in situ*. Canadian Journal of Botany 46:549-555.

2. Evans, R.M. and Nero, R.W. 1967. Sight record of Green Heron at Delta, Manitoba. Blue Jay 15:184.

3. Tamplin, M.J. 1966. The glacial Lake Agassiz survey 1966: a preliminary report. University of Manitoba mimeo, 19 pp.

4. Tamplin, M.J. 1967. The glacial Lake Agassiz survey 1967: a preliminary report. University of Manitoba mimeo, 7 pp.

5. Tamplin, M. 1967. Brief progress reports on human and environmental archaeological studies of glacial Lake Agassiz. II. Manitoba. Blue Jay 25:198.

6. McNicholl, M. K. 1968. Vocalization in the White Pelican. Blue Jay 22:124-125.

7. Watts, C.H.S. 1970. The larvae of Dytiscidae (Coleoptera) from Delta, Manitoba. Canadian Entomologist 102:716-728.

8. Watts, C.H.S. 1970. A field experiment on intraspecific interactions in the Red-back Vole, *Clethrionomys gapperi*. Journal of Mammology 51:341-347.

9. McNicholl, M.K. 1969. The Knot as a migrant in southern Manitoba. Blue Jay 27:28-35.

10. McNicholl, M.K. 1969. Further note on Knot records for Manitoba. Blue Jay 27:83.

11. Hominick, W.M. and Welch, H.E. 1971. Synchronization of life cycles of three mermithids (Nematoda) with their chironomid (Diptera) hosts and some observations on the pathology of the infections. Canadian Journal of Zoology 49:975-982.

12. Briskie, J.V. 1988. Least Flycatcher lines nest with dragonfly wings. Blue Jay 46:155-156.

14. Badour, S.S. and Waygood, E.R. 1971. Excretion of an acid semialdehyde by *Gloeomonas*. Phytochemistry 10:967-976.

15. McNicholl, M.K. 1972. An observation of apparent death-feigning by a toad. Blue Jay 30:54-55.

16. McNicholl, M.K., England, R.D. and Koes, R.F. 1972. Black-necked Stilts observed in Manitoba. Canadian Field-Naturalist 86:380-382.

17. McNicholl, M.K. 1972. The use of hovering as a search method by the Northern Shrike. Blue Jay 30:96-97.

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18. Badour, S.S., Tan, C.K., Van Caeseele, L.A. and Isaac, P.K. 1973. Observations on the morphology, reproduction and fine structure of *Chlamydomonas segnis* from Delta Marsh, Manitoba. Canadian Journal of Botany 51:67-72.

19. McNicholl, M.K. 1973. Habituation of aggressive responses to avian predators by terns. Auk 90:902-904.

20. McNicholl, M.K. 1973. Volume of Forster's Tern eggs. Auk 90:915-917.

21. McNicholl, M.K. 1975. Interactions between Forster's Terns and American Coots. Wilson Bulletin 87:109-110.

22. Kucera, E. 1974. The White Tailed Deer (*Odocoileus virginianus*) in the Delta Marsh. University of Manitoba Field Station (Delta Marsh), unpublished report.

23. McNicholl, M.K. and Goossen, J.P. 1980. Warblers feeding from ice. Wilson Bulletin 92:121.

24. McNicholl, M.K. 1979. Passerines feeding from floating vegetation. Blue Jay 37:223.

25. McNicholl, M.K. 1979. Territories of Forster's Terns. Proceedings of the Colonial Waterbird Group 3:196-203.

26. McNicholl, M.K. 1979. Destruction to nesting birds on a marsh bay by a single storm. Prairie Naturalist 11:60-62.

27. McNicholl, M.K. 1983. Hatching in Forster's Terns. Condor, 85:50-52.

28. McNicholl, M.K. 1981. Interactions between Forster's Terns and Yellow-headed Blackbirds. Colonial Waterbirds 4:150-154.

29. Mutch, G.P. and Aleksiuk, M. 1977. Ecological aspects of winter dormancy in the striped skunk (*Mephitis mephitis*). Canadian Journal of Zoology 55:607-615.

30. Kucera, E. 1976. Deer flushing distance is related to the observer's mode of travel. Wildlife Society Bulletin 4:128.

31. Kucera, E. 1976. Effect of winter conditions on the White Tailed Deer in Delta Marsh. Canadian Journal of Zoology 54:1307-1313.

32. Pip, E. and Stewart, J.M. 1976. The dynamics of two aquatic plant-snail associations. Canadian Journal of Zoology 54:1192-1205.

33. Hooper, N. and Robinson, G.G.C. 1976. Primary production of epiphytic algae in a marsh pond. Canadian Journal of Botany 54:2810-2815.

34. Goossen, J.P. 1977. Yellow Warbler nest used by a Least Flycatcher. Wilson Bulletin 89:153-154.

35. Sealy, S.G. 1978. Clutch size and nest placement of the Pied-billed Grebe in Manitoba. Wilson Bulletin 90:301-302.

36. Sealy, S.G. 1978. Possible influence of food on egg-laying and clutch size in the black-billed cuckoo. Condor 80:103-104.

37. Sealy, S.G. 1978. Litter size and nursery sites of the hoary bat near Delta, Manitoba. Blue Jay 36:51-52.

38. Hooper-Reid, N. and Robinson, G.G.C. 1978. Seasonal dynamics of epiphytic algal growth in a marsh pond: composition, metabolism and nutrient availability. Canadian Journal of Botany 56:2441-2448.

39. Shay, J. M. and Smith, D. A. 1977. A survey of vegetation in the centre unit of Delta Marsh. 32 pp., appendices, map. Report to the Department of Renewable Resources, Province of Manitoba.

43. Mutch, G.R.P. 1977. Locations of winter dens utilized by striped skunks in Delta Marsh, Manitoba. Canadian Field-Naturalist 91:289-291.

44. Hobson, K.A. 1988. First record of the Blue-winged Warbler in Manitoba. Blue Jay 46:86-87.

45. Sealy, S.G. 1980. Reproductive responses of Northern Orioles to a changing food supply. Canadian Journal of Zoology 58:221-227.

46. Sealy, S.G. 1979. Extralimital nesting of Bay-breasted Warblers: Response to forest tent caterpillars? Auk 96:600-603.

47. Busby, D.G. and Sealy, S.G. 1979. Feeding ecology of a population of nesting Yellow Warblers. Canadian Journal of Zoology 57:1670-1681.

48. Sealy, S.G. 1985. Analysis of a sample of Tennessee Warblers window-killed during spring migration in Manitoba. North American Bird Bander 10:121-124.

49. Sealy, S.G. 1979. Prebasic molt of the Northern Oriole. Canadian Journal of Zoology 57:1473-1478.

51. Hooper-Reid, N. and Robinson, G.G.C. 1978. Seasonal dynamics of epiphytic algal growth in a marsh pond: productivity, standing crop, and community composition. Canadian Journal of Botany 56:2434-2440.

52. Tudorancea, C., Green, R.H. and Huebner, J. 1979. Structure, dynamics and production of the benthic fauna in Lake Manitoba. Hydrobiologia, 64:59-95.

54. MacArthur, R.A. 1978. Winter movements and home range of the Muskrat. Canadian Field-Naturalist 92(4):345-349.

55. MacArthur, R.A. and Aleksiuk, M. 1979. Seasonal microenvironments of the muskrat (*Ondatra zibethicus*) in a northern marsh. Journal of Mammology 60:146-154.

56. MacArthur, R.A. 1979. Seasonal patterns of body temperature and activity in free-ranging muskrats (*Ondatra zibethicus*). Canadian Journal of Zoology 57:25-33.

57. MacArthur, R.A. 1980. Daily and seasonal activity patterns of the muskrat (*Ondatra zibethicus*) as revealed by radiotelemetry. Holarctic Ecology 3:1-9.

58. MacArthur, R.A. 1979. Dynamics of body cooling in acclimatized muskrats (*Ondatra zibethicus*). Journal of Thermal Biology 4:273-276.

59. MacArthur, R.A. 1978. Winter movements and home range of the muskrat. Canadian Field-Naturalist 92:345-349.

60. Falls, J.B. and d'Agincourt, L.G. 1982. Why do meadowlarks switch song types? Canadian Journal of Zoology 69:3400-3408.

61. Lee, R.E., Jr. 1980. Aggregation of lady beetles on the shores of lakes (Coleoptera: Coccinellidae). American Midland Naturalist 104:295-304.

62. Teller, J.T. and Last, W.M. 1979. Post-glacial sedimentation and history of Lake Manitoba. Man. Dept. Mines, Natural Resources and Environment Report 79-41, 185 pp.

63. McKenzie, C. and Welch, H.E. 1980. Parasite fauna of the muskrat (*Ondatra zibethicus*) (Linnaeus, 1766) in Manitoba, Canada. Canadian Journal of Zoology 57:640-646.

64. MacKenzie, D.I., McKenzie, C.E. and Brownlie, L.W. 1979. Comparison of the helminth fauna of Eastern and Western Kingbirds at Delta, Manitoba. Canadian Journal of Zoology 57:1143-1149.

65. MacKenzie, D.I. and McKenzie, C.E. 1980. Morphological variation in *Plagiorchis noblei* Park 1936 (Trematoda:Plagiorchiidae) from *Tyrannus tyrannus* and *T. verticalis* (Aves:Tyrannidae). Journal of Parasitology 66:145-149.

66. McKenzie, C.E. and MacKenzie, D.I. 1981. Comparison of the ectoparasitic fauna of Eastern and Western Kingbirds at Delta Marsh, Manitoba. Canadian Journal of Zoology 59:717-721.

67. Cosens, S.E. 1981. Development of vocalizations in the American Coot. Canadian Journal of Zoology 59:1921-1928.

68. Sealy, S.G. 1980. Breeding biology of Orchard Orioles in a new population in Manitoba. Canadian Field-Naturalist 94:154-158.

69. Wishart, R.A. and Sealy, S.G. 1980. Late summer time budget and feeding behaviour of Marbled Godwits (*Limosa fedoa*) in southern Manitoba. Canadian Journal of Zoology 58:1277-1282.

70. Biermann, G.C. and Sealy, S.G. 1982. Parental feeding of nestling yellow Warblers in relation to brood size and prey availability. Auk 99:332-341.

71. MacKenzie, D.I. and Sealy, S.G. 1981. Nest site selection in Eastern and Western Kingbirds: a multivariate approach. Condor, 83:310-321.

72. Goossen, J.P. and Sealy, S.G. 1982. Production of young in a dense nesting population of Yellow Warblers, *Dendroica petechia*, in Manitoba. Canadian Field-Naturalist 96:189-199.

73. Sealy, S.G. 1984. Extra-pair copulation in the Yellow Warbler *Dendroica petechia*. Animal Behaviour 32:295-296.

74. Goossen, J.P. and Busby, D.G. 1979. Occurrences of the Red Phalarope in the prairie provinces and adjacent states. Canadian Field-Naturalist 93:446-449.

75. MacKenzie, D.I. 1982. The dune-ridge forest, Delta Marsh, Manitoba: Overstory vegetation and soil patterns. Canadian Field-Naturalist 96:61-68.

76. MacKenzie, D.I., Sealy, S.G. and Sutherland, G.D. 1982. Nest-site characteristics of the avian community in the dune-ridge forest, Delta Marsh, Manitoba: a multivariate analysis. Canadian Journal of Zoology 60:2212-2223.

77. Sealy, S.G. 1982. Rough-winged Swallows scavenging adult midges. Wilson Bulletin 94:368-369.

78. Robinson, G.G.C. and Pip, E. 1982. The application of a nuclear track autoradiographic technique to the study of periphyton photosynthesis. *In* Periphyton of Freshwater Ecosystems,

Developments in Hydrobiology 17. R.G. Wetzel, R.G. (ed.) Dr.W.Junk Publishers, The Hague. pp.267-273.

80. Gamble, R.L. 1981. Distribution in Manitoba of *Mustela frenata longicauda* Bonaparte, the long-tailed weasel, and the interrelation of distribution and habitat selection in Manitoba, Saskatchewan and Alberta. Canadian Journal of Zoology 59:1036-1039.

82. Sealy, S.G. 1989. Defense of nectar resources by migrating Cape May Warblers. Journal of Field Ornithology 60:89-93.

84. Gamble, R.L. and Riewe, R.R. 1982. Infestations of the nematode *Skjabingylus nasicola* (Leukart 1842) in *Mustela frenata* (Licenstein) and *M. ermina* (L.) and some evidence of a paratenic host in the life cycle of this nematode. Canadian Journal of Zoology 60:45-52.

87. Sealy, S.G. and Biermann, G.C. 1983. Timing of breeding and migrations in a population of Least Flycatchers in Manitoba. Journal of Field Ornithology 54:113-122.

89. Sealy, S.G. 1985. Where do Northern ("Baltimore") Orioles spend the winter? North American Bird Bander 10:12-17.

90. McNicholl, M.K. 1982. Factors affecting reproductive success of Forster's Terns at Delta Marsh, Manitoba. Colonial Waterbirds 5:32-38.

92. Dickinson, T.E., Falls, J.B. and Kopachena, J. 1987. Effects of female pairing status and timing of breeding on nesting productivity in Western Meadowlarks (*Sturnella neglecta*). Canadian Journal of Zoology 65:3093-3101.

93. Teller, J.T. and Last, W.M. 1980. Pedogenic horizons in lake sediments. Earth Surface Processes and Landforms 7:367-379.

94. Nambudiri, E.M.V., Shay, C.T. and Teller, J.T. 1979. Pollen stratigraphy of late Pleistocene and Holocene sediments from Lake Manitoba, Canada. Geology Society America Abstracts with programs 11:254.

95. Goossen, J.P. 1985. Egg-burying behaviour by a yellow Warbler in the apparent absence of cowbird parasitism. Blue Jay 43:188-189.

96. Leiffers, V.J. and Shay, J.M. 1982. Distribution and variation in growth of *Scirpus maritimus* var. *paludosus* on the Canadian prairies. Canadian Journal of Botany 60:1938-1949.

97. Goldsborough, L.G. and Robinson, G.G.C. 1983. The effect of two triazine herbicides on the productivity of freshwater marsh periphyton. Aquatic Toxicology 4:95-112.

98. MacArthur, R.A. 1984. Microenvironment gas concentrations and tolerance to hypercapnia in the Muskrat *Ondatra zibethicus*. Physiological Zoology 57(1):85-98.

99. Goldsborough, L.G. and Robinson, G.G.C. 1984. A simple bioassay for photosystem II inhibitors in water using *in vivo* chlorophyll fluorescence. Weed Research 24:351-358.

100. Cosens, S.E. and Falls, J.B. 1984. Structure and use of song in the Yellow-headed Blackbird *Xanthocephalus xanthocephalus*. Zeitschrift für Tierpsychology 66:227-241.

101. Cosens, S.E. and Falls, J.B. 1984. Comparison of sound propagation and song frequency in temperate marsh and grassland habitat. Behavioural Ecology and Sociobiology 15:161-170.

102. Stewart, K.W., Suthers, I.M. and Leavesley, K. 1985. New fish distribution records in Manitoba and the role of a man-made inter-connection between two drainages as an avenue of dispersal. Canadian Field-Naturalist 99:317-326.

103. Goldsborough, L.G. and Robinson, G.G.C. 1985. Effect of an aquatic herbicide on sediment nutrient flux in a freshwater marsh. Hydrobiologia 122:121-128.

104. Thompson, D.J. and Shay, J.M. 1985. The effects of fire on *Phragmites australis* in the Delta Marsh, Manitoba. Canadian Journal of Botany 63:1864-1869.

105. Sealy, S.G. and den Haan, H.E. 1985. Return of a Red-eyed Vireo: a transient or breeder? North American Bird Bander 10:41-42.

106. Sealy, S.G. 1985. Winter recovery, in Guatemala, of a Warbling Vireo banded in southern Manitoba, and an examination of other recoveries from the wintering range. North American Bird Bander 10:37-38.

107. Sealy, S.G. 1985. Erect posture of the young Black-billed Cuckoo: Adaptation for early mobility in a nomadic species. Auk 102:889-892.

108. Biermann, G.C. and Sealy, S.G. 1985. Seasonal dynamics of body mass of insectivorous passerines breeding on the forested dune ridge, Delta Marsh, Manitoba. Canadian Journal of Zoology 63:1675-1682.

109. Cosens, S.E. and Sealy, S.G. 1986. Age-related variation in song repertoire size and repertoire sharing of Yellow Warblers. Canadian Journal of Zoology 64:1926-1929.

110. Weatherhead, P.J., Sealy, S.G. and Barclay, R.M.R. 1985. Risks of clustering in thermally stressed swallows. Condor 87:443-444.

111. Reid, M.L. and Sealy, S.G. 1986. Behavior of a polygynous yearling Yellow Warbler. Wilson Bulletin 98:315-317.

112. Barclay, R.M.R. 1984. Observations on the migration, ecology and behaviour of bats at Delta Marsh, Manitoba. Canadian Field-Naturalist 98:331-336.

113. Last, W.M. 1982. Holocene carbonate sedimentation in Lake Manitoba, Canada. Sedimentology 29:691-704.

114. Last, W.M. and Teller, J.T. 1983. Holocene climate and hydrology of the Lake Manitoba Basin. Geological Association of Canada, Special Paper 26.

115. Teller, J.T. and Last, W.M. 1982. Pedogenic zones in postglacial sediment of Lake Manitoba, Canada. Earth Surface Processes and Landforms 7:367-379.

116. Teller, J.T. and Last, W.M. 1981. Late quaternary history of Lake Manitoba, Canada. Quaternary Research 16:97-116.

117. Nambudiri, E.M.V., Teller, J.T. and Last, W.M. 1980. Pre-Quaternary microfossils - a guide to errors in radiocarbon dating. Geology 8:123-126.

118. Picman, J. and Picman, A.K. 1980. Destruction of nests by the Short-billed Marsh Wren. Condor 82:176-179.

119. Goldsborough, L.G., Robinson, G.G.C. and Gurney, S.E. 1986. An enclosure / substratum system for *in situ* ecological studies of periphyton. Archiv für Hydrobiologie 106:373-393.

120. Shay, J.M. and Shay, C.T. 1986. Prairie marshes in western Canada, with specific reference to the ecology of five emergent macrophytes. Canadian Journal of Botany 64:443-454.

121. Guinan, D.M. and Sealy, S.G. 1987. Diet of House Wrens (*Troglodytes aedon*) and the abundance of the invertebrate prey in the dune-ridge forest, Delta Marsh, Manitoba. Canadian Journal of Zoology 65:1587-1596.

122. Sealy, S.G. 1986. Fall migration of Northern Orioles: an analysis of tower-killed individuals. North American Bird Bander 11:43-45.

123. Sealy, S.G. 1986. Ruby-throated Hummingbird associating with a foraging Hairy Woodpecker. Blue Jay 44:241-242.

124. Sealy, S.G. and Hobson, K.A. 1987. On the "concealing pose" of the Northern Saw-whet Owl. Blue Jay 45:33-37.

125. Sealy, S.G., Briskie, J.V. and Biermann, G.C. 1986. Deaths of female passerine birds on their nests while incubating. Journal of Field Ornithology 57:315-317.

126. Sealy, S.G., Biermann, G.C. and den Hann, H.E. 1987. Spring migrations of Alder and Yellowbellied Flycatchers in southern Manitoba. North America Bird Bander 12:54-57.

127. Goldsborough, L.G. and Robinson, G.G.C. 1985. Seasonal succession of diatom epiphyton on dense mats of *Lemna minor* L. Canadian Journal of Botany 63:2332-2339.

130. Barclay, R.M.R., Leonard, M.L. and Friesen, G. 1985. Nocturnal singing by Marsh Wrens. Condor 87:418-422.

131. McGregor, P.K. and Falls, J.B. 1984. The response of Western Meadowlarks (*Sturnella neglecta*) to the playback of undegraded and degraded songs. Canadian Journal of Zoology 62:2125-2128.

132. Wong, P.L. and Lankester, M.W. 1984. Revision of the genus *Schistorophus* Railliet, 1916 (Nematoda:Acuarioidea). Canadian Journal of Zoology 62:2527-2540.

133. Wong, P.L. and Lankester, M.W. 1984. Revision of the genus *Viktorocara* Guschanskaya, 1970 (Nematoda: Acuarioidea). Canadian Journal of Zoology 62:2541-2549.

134. Goldsborough, L.G. and Robinson, G.G.C. 1986. Changes in periphytic algal community structure as a consequence of short herbicide exposures. Hydrobiologia, 139:177-192.

135. Barclay, R.M.R. 1985. Long- versus short-range foraging strategies of hoary (*Lasiurus cinereus*) and silver-haired (*Lasionycteris noctivagans*) bats and the consequences for prey selection. Canadian Journal of Zoology 63:2507-2515.

136. Suthers, I.M. and Gee, J.H. 1986. The role of hypoxia in limiting diel spring and summer distribution of juvenile yellow perch (*Perca flavescens*) in a prairie marsh. Canadian Journal of Fisheries and Aquatic Sciences 43:1562-1570.

137. Barclay, R.M.R. 1986. Foraging strategies of silver-haired (*Lasionycteris noctivagans*) and hoary (*Lasiurus cinereus*) bats. Myotis 23-24:161-166.

138. Shay, J.M. 1986. Vegetation dynamics in the Delta Marsh, Manitoba. In: The Prairie: Past, Present and Future. Proceedings of the Ninth North American Prairie Conference. Clambey, G.K. and Pemble, R.H. (eds.) Tri-College University Center for Environmental Studies, Fargo, ND, pp. 65-70.

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139. Shay, J.M., Thompson, D.J. and Shay, C.T. 1987. Post-fire performance of *Phragmites australis* (Car.) Trin. in the Delta Marsh, Manitoba, Canada. In: Wetlands and Wetland Processes (Archiv für Hydrobiologie Beihefte No. 27). Pokorny, J., Lhotsky, O., Denny, P. and Turner, E.G. (eds.), pp. 95-103.

140. Wong, P.L. and Lankester, M.W. 1985. Revision of the genus *Sciadiocara* Skrjabin, 1916 (Nematoda: Acuarioidea). Canadian Journal of Zoology 63:1565-1575.

141. Wong, P.L. and Lankester, M.W. 1985. Revision of the genus *Sobolevicephalus* Parukhin, 1964 (Nematoda: Acuarioidea). Canadian Journal of Zoology 63:1576-1581.

142. Wong, P.L. and Lankester, M.W. 1985. Revision of the genus *Ancyracanthopis* Deesing, 1861 and description of a new genus *Molinacuaria* n. gen. (Nematoda: Acuarioidea). Canadian Journal of Zoology 63:1556-1564.

143. Muhsin, T.M. and Booth, T. 1987. Fungi associated with halophytes of an inland salt marsh, Manitoba, Canada. Canadian Journal of Botany 65:1137-1151.

144. Booth, T., Gorrie, S. and Muhsin, T.M. 1988. Life strategies among fungal assemblages on *Salicornia europaea* aggregate. Mycologia 80:176-191.

145. Hébert, P.N. 1985. Breeding failure and decline of a Common Tern colony in southern Manitoba. Colonial Waterbirds 8:183-185.

146. McGregor, P.K., Horn, A.G. and Todd, M.A. 1985. Are familiar sounds ranged more accurately? Perceptual and Motor Skills 61:1082.

147. Horn, A. and Christie, P. 1985. First Sage Thrasher sighting in Manitoba. Blue Jay 43:177-178.

148. Horn, A. and Falls, J.B. 1986. Western Meadowlarks switch song types when matched by playback. Animal Behaviour 34:927-929.

149. Bradfield, G.E. and Kenkel, N.C. 1987. Nonlinear ordination using flexible shortest path adjustment of ecological distances. Ecology 68:750-753.

150. Barclay, R.M.R. 1986. The echolocation calls of hoary (*Lasiurus cinereus*) and silver-haired (*Lasionycteris noctivagans*) bats as adaptations for long- versus short-range foraging strategies and the consequences for prey detection. Canadian Journal of Zoology 64:2700-2705.

151. Briskie, J.V. and Sealy, S.G. 1987. Polygyny and double-brooding in the Least Flycatcher. Wilson Bulletin 99:492-494.

152. Hobson, K.A. and Sealy, S.G. 1986. Foraging, scavenging, and other behaviour of swallows on the ground. Wilson Bulletin 99:111-116.

153. Hobson, K.A. and Sealy, S.G. 1987. Cowbird egg buried by a Northern Oriole. Journal of Field Ornithology 58:222-224.

154. Briskie, J.V. and Sealy, S.G. 1987. Responses of Least Flycatchers to experimental inter- and intraspecific brood parasitism. Condor 89:899-901.

155. Briskie, J.V. and Sealy, S.G. 1990. Evolution of short incubation periods in the parasitic cowbirds, *Molothrus* spp. Auk 107:789-794.

156. Sealy, S.G. 1988. Aggressiveness in migrating Cape May Warblers: defense of an aquatic food source. Condor 90:271-274.

157. Briskie, J.V. and Sealy, S.G. 1988. Nest re-use and egg burial in the Least Flycatcher, *Empidonax minimus*. Canadian Field-Naturalist 102:729-731.

158. Briskie, J.V. and Sealy, S.G. 1989. Nest failure and evolution of hatching asynchrony in the Least Flycatcher. Journal of Animal Ecology 58:653-665.

159. Hobson, K.A., Bouchart, M.L. and Sealy, S.G. 1988. Responses of naive yellow warblers to a novel nest predator. Animal Behaviour 36:1823-1830.

160. Hobson, K.A. and Sealy, S.G. 1990. Female song in the Yellow Warbler. Condor 92:259-261.

161. Sealy, S.G. 1992. Removal of Yellow Warbler eggs in association with cowbird parasitism. Condor 94:40-54.

162. Beaver, B.J. and Gee, J.H. 1988. Role of water current and related variables in determining buoyancy in the sticklebacks *Culaea inconstans* and *Pungitius pungitius*. Canadian Journal of Zoology 66:2006-2014.

163. Hobson, K.A. and Sealy, S.G. 1989. Female-female aggression in polygynously nesting Yellow Warblers. Wilson Bulletin 101:84-86.

164. Goldsborough, L.G. and Robinson, G.G.C. 1988. Functional responses of freshwater periphyton to short simazine exposures. Verhandlungen Internationale Vereinigung Limnologie 23:1586-1593.

165. Barclay, R.M.R. 1988. Echolocation strategies of aerial insectivorous bats and their influence on prey selection. *In:* Animal Sonar: Processes and performance. Nachtigall, P.E. and Moore, P.W.B. (eds.) Plenum Press, New York. pp. 597-599.

166. Leonard, M.L. and Picman, J. 1987. The adaptive significance of multiple nest building by male Marsh Wrens. Animal Behaviour 35:271-277.

167. Leonard, M.L. and Picman, J. 1986. Why are nesting Marsh Wrens and Yellow-headed Blackbirds spatially segregated? Auk 103:135-140.

168. Barclay, R.M.R., Faure, P.A. and Farr, D.R. 1988. Roosting behavior and roost selection by migrating silver-haired bats (*Lasionycteris noctivagans*). Journal of Mammology 69:821-825.

169. Briskie, J.V., Sealy, S.G. and Hobson, K.A. 1992. Behavioral defenses against avian brood parasitism in sympatric and allopatric host populations. Evolution 46:334-340.

170. Sealy, S.G., Hobson, K.A. and Briskie, J.V. 1989. Responses of Yellow Warblers to experimental intraspecific brood parasitism. Journal of Field Ornithology 60:224-229.

171. Sealy, S.G. 1989. Incidental "egg dumping" by the house Wren in a Yellow Warbler nest. Wilson Bulletin 101:491-493.

172. Sealy, S.G. 1995. Burial of cowbird eggs by parasitized Yellow Warblers: an empirical and experimental study. Animal Behavior 49:877-889.

173. Guinan, D.M. and Sealy, S.G. 1989. Foraging substrate use by House Wrens nesting in natural cavities in a riparian habitat. Canadian Journal of Zoology 67:61-67.

174. Briskie, J.V. and Sealy, S.G. 1989. The 1 clutch size in the Least Flycatcher. Auk 106:269-278.

175. Barclay, R.M.R. 1988. Variation in the costs, benefits and frequency of nest reuse by Barn Swallows (*Hirundo rustica*). Auk 105:53-60.

176. Shay, J.M., Macaulay, A.J. and Frego, K.A. 1988. A morphological comparison of *Scirpus acutus* and *Scirpus validus* in southern Manitoba. Canadian Journal of Botany 66:2331-2337.

177. Bazin, R.C. and Sealy, S.G. 1993. Experiments on the responses of a rejector species to threats of predation and cowbird parasitism. Ethology 94:326-338.

178. Koehler, C.E. and Barclay, R.M.R. 1988. The potential for vocal signatures in the calls of young hoary bats (*Lasiurus cinereus*). Canadian Journal of Zoology 66:1982-1985.

179. Briskie, J.V. and Sealy, S.G. 1989. Changes in nest defense against a brood parasite over the breeding cycle. Ethology, 82:61-67.

180. Hobson, K.A. and Sealy, S.G. 1989. Responses of Yellow Warblers to the threat of cowbird parasitism. Animal Behaviour 38:510-519.

181. Briskie, J.V., Sealy, S.G. and Hobson, K.A. 1990. Differential parasitism of Least Flycatchers and Yellow Warblers by the Brown-headed Cowbird. Behavioural Ecology and Sociobiology 27:403-410.

182. Hébert, P.N. and Sealy, S.G. 1993. Hatching asynchrony and feeding rates in Yellow Warblers: a test of the sexual conflict hypothesis. American Naturalist 142:881-892.

183. Hobson, K.A. and Sealy, S.G. 1989. Mate guarding in the Yellow Warbler *Dendroica petechia*. Ornis Scandinavica 20:241-249.

184. Briskie, J.V. and Sealy, S.G. 1990. Variation in size and shape of Least Flycatcher eggs. Journal of Field Ornithology 61(2):180-191.

185. Hébert, P.N. and Sealy, S.G. 1992. Onset of incubation in Yellow Warblers: a test of the hormonal hypothesis. Auk 109:249-255.

186. Neudorf, D.L. and Sealy, S.G. 1992. Responses of four passerine species to threats of predation and cowbird parasitism: enemy recognition or generalized response? Behaviour 123:84-105.

187. Hébert, P.N. and Sealy, S.G. 1993. Egg-size variation in Yellow Warblers: apportionment of parental investment and the brood-survival hypothesis. Canadian Journal of Zoology 71:1008-1011.

188. Neudorf, D.L. and Sealy, S.G. 1994. Sunrise nest attentiveness in cowbird hosts. Condor 96:162-169.

189. Hill, D.P. and Sealy, S.G. 1994. Desertion of nests parasitized by cowbirds: have clay-coloured sparrows evolved an anti-parasite defence? Animal Behaviour 48:1063-1070.

190. Sealy, S.G. 1994. Observed acts of egg destruction, egg removal and predation on nests of passerine birds at Delta Marsh, Manitoba. Canadian Field-Naturalist 108:41-51.

191. Bartlett, C.M. and Anderson, R.C. 1987. *Chandlerella bushi* n. sp. and *Splendidofilaria caperata* Hibler, 1964 (Nematoda:Filarioidea) from *Fulica americana* (Gruiformes:Rallidae) in Manitoba, Canada. Canadian Journal of Zoology 65:2799-2802.

192. Bartlett, C.M. and Anderson, R.C. 1987. *Pelecitus fulicaeatrae* (Nematoda:Filarioidea) of Coots (Gruiformes) and Grebes (Podicipediformes): skin-inhabiting microfilariae and development in Mallophaga. Canadian Journal of Zoology 65:2803-2812.

Delta Marsh Field Station Archive: Publications and Theses

193. Wong, P.L. and Anderson, R.C. 1987. New and described species of *Skrjabinoclava* Sobolev, 1943 (Nematoda:Acuarioidea) of the proventriculus of nearctic waders (Aves:Charadriiformes) with a review of the genus and a key to species. Canadian Journal of Zoology 65:2760-2779.

194. Wong, P.L., Bush, A.O. and Anderson, R.C. 1987. Redescription of *Sdrjabinocerca prima* Shikhobalova, 1930 (Nematoda:Acuarioidea) from the American avocet (*Recurvirostra americana* Gmelin). Canadian Journal of Zoology 65:1569-1573.

195. Leonard, M.L. and Picman, J. 1987. Nesting mortality and habitat selection by Marsh Wrens. Auk 104:491-495.

196. Leonard, M.L. and Picman, J. 1987. Female settlement in Marsh Wrens: is it affected by other females? Behavioral Ecology and Sociobiology 21:135-140.

197. Leonard, M.L. and Picman, J. 1988. Mate choice by Marsh Wrens: the influence of male and territory quality. Animal Behaviour 36:517-528.

198. Horn, A. and Falls, J.B. 1988. Structure of Western Meadowlark (*Sturnella neglecta*) song repertoires. Canadian Journal of Zoology 66:284-288.

199. Horn, A.G. and Falls, J.B. 1988. Responses of Western Meadowlarks (*Sturnella neglecta*) to song repetition and contrast. Animal Behaviour 36:291-293.

200. Falls, J.B., Horn, A.G. and Dickinson, T.E. 1988. How Western Meadowlarks classify their songs:evidence from song matching. Animal Behaviour 36:579-585.

201. Barclay, R.M.R. 1989. The effect of reproductive conditions on the foraging behavior of female hoary bats *Lasiurus cinereus*. Behavioral Ecology and Sociobiology 24:31-37.

202. Gurney, S.E. and Robinson, G.G.C. 1989. The influence of two triazine herbicides on the productivity, biomass and community composition of freshwater marsh periphyton. Aquatic Botany 36:1-22.

203. Hobson, K.A. and Sealy, S.G. 1990. Breeding season aggression of female Yellow Warblers to models of male and female conspecific intruders. Animal Behaviour 39:809-811.

204. Hobson, K.A. 1993. Status of neotropical migrant songbirds in Manitoba - time for a second look. Blue Jay 51:109-112.

205. Nelson, C.H. 1993. The Downy Waterfowl of North America. Delta Station Press, Deerfield, Illinois. 302pp.

206. McIlraith, A.L., Robinson, G.G.C. and Shay, J.M. 1989. A field study of competition between *Lemna minor* and *Lemna trisulca*. Canadian Journal of Botany 67:2904-2911.

207. Barclay, R.M.R. and Bell, G.P. 1988. Marking and observational techniques. *In* Ecological and Behavioral Methods for the study of bats. *Edited by* T.H. Kunz. Smithsonian Institute Press, Washington. pp. 59-76.

208. Waters, I. and Shay, J.M. 1990. A field study of the morphometric response of *Typha glauca* shoots to a water depth gradient. Canadian Journal of Botany 68:2339-2343.

209. Waters I. and Shay, J.M. 1991. A field study of the effects of water depth, order of emergence and flowering on the growth of *Typha glauca* shoots using the Richards model. Aquatic Botany 39:231-242.

210. Waters, I. and Shay, J.M. 1992. Effect of water depth on population parameters of a *Typha glauca* stand. Canadian Journal of Botany 70:349-351.

211. Thompson, D. J. and Shay, J. M. 1989. First year response of a *Phragmites* marsh community to seasonal burning. Canadian Journal of Botany 67:1448-1455.

212. Kenkel, N.C. 1990. Spatial competition models for plant populations. Coenoses 5(3):149-158.

213. Last, W.M. 1984. Modern sedimentology and hydrology of Lake Manitoba, Canada. Environmental Geology 5:177-190.

215. Kotak, B.G. and Robinson, G.G.C. 1991. Artificially-induced water turbulence and the physical and biological features within small enclosures. Archiv für Hydrobiologie 122:335-349.

216. Picman, J. and Isabelle, A. 1995. Sources of nesting mortality and correlates of nesting success in Yellow-headed Blackbirds. Auk 112:183-191.

217. Briskie, J.V. 1993. Anatomical adaptations to sperm competition in Smith's longspurs and other polygynandrous passerines. Auk 110:875-888. 218. Briskie, J.V. and Montgomerie, R. 1993. Patterns of sperm storage in relation to sperm competition in passerine birds. Condor 95:442-454.

219. Kenkel, N.C., McIlraith, A.L., Burchill, C.A. and Jones, G. 1991. Competition and the response of three plant species to a salinity gradient. Canadian Journal of Botany 69:2497-2502.

220. Kenkel, N.C. and Podani, J. 1991. Plot size and estimation efficiency in plant community studies. Journal of Vegetation Science 2:539-544.

221. Kenkel, N.C. 1993. Modelling markovian dependence in populations of *Aralia nudicaulis*. Ecology 74:1700-1706.

222. Picman, J. 1989. Mechanism of increased puncture resistance of eggs of Brown-headed Cowbirds. Auk 106:577-583.

223. Barber, C.A. and Evans, R.M. 1995. Clutch-size manipulations in the Yellow-headed Blackbird: A test of the individual optimization hypothesis. Condor 97:352-360.

225. Kapinga, M.R.M. and Gordon, R. 1992. Cell attachment in the motile colonial diatom *Bacillaria paxillifer*. Diatom Research 7:215-220.

226. Kapinga, M.R.M. and Gordon, R. 1992. Rhythms in cell motility in *Bacillaria paxillifer*. Diatom Research 7:221-225.

227. Goldsborough, L.G. 1992. Studies on the impact of agricultural and forestry herbicides on nontarget aquatic plant communities. Proceedings of the Third Prairie Conservation and Endangered Species Workshop Provincial Museum of Alberta, Natural History Occasional Paper No. 19, p. 49-57.

230. Goldsborough, L.G. 1993. Diatom ecology in the phyllosphere of the common duckweed (*Lemna minor* L.). Hydrobiologia 269/270:463-471.

231. Hann, B.J. 1991. Invertebrate grazer-periphyton interactions in a eutrophic marsh pond. Freshwater Biology 26:87-96.

232. Hébert, P.N. and Sealy, S.G. 1993. Hatching asynchrony in Yellow Warblers: a test of the nest-failure hypothesis. Ornis Scandinavica 24:10-14.

233. Hébert, P.N. 1993. An experimental study of brood reduction and hatching asynchrony in Yellow Warblers. Condor 95:362-371.

234. Briskie, J.V. and Montgomerie, R. 1992. Sperm size and sperm competition in birds. Proceedings of the Royal Society of London, Series B 247:89-95.

235. Gill, S.A., Grieef, P.M., Staib, L.M. and Sealy, S.G. 1997. Does nest defence deter or facilitate cowbird parasitism? A test of the nesting-cue hypothesis. Ethology 103:56-71.

236. Sealy, S.G. 1996. Evolution of host defenses against brood parasitism: implications of puncture-ejection by a small passerine. Auk 113:346-355.

237. Sealy, S.G. and Bazin, R.C. 1995. Low frequency of observed cowbird parasitism on eastern kingbirds: host rejection, effective nest defense, or parasite avoidance? Behavioural Ecology 6:140-145.

238. Sealy, S.G., Neudorf, D.L. and Hill, D.P. 1995. Rapid laying by Brown-headed Cowbirds *Molothrus ater* and other parasitic birds. Ibis 137:76-84.

239. McMaster, D.G. and Sealy, S.G. 1997. Host-egg removal by Brown-headed Cowbirds: a test of the host incubation limit hypothesis. Auk #:212-220.

240. Rolseth, S., Koehler, C.E. and Barclay, R.M.R. 1994. Differences in the diets of juvenile and adult Hoary Bats, *Lasiurus cinereus*. Journal of Mammalogy 75:394-398.

241. Gordon, R., Björklund, N.K., Robinson, G.G.C. and Kling, H.J. 1996. Sheared drops and pennate diatoms. Nova Hedwigia Beiheft (Festschrift for T.V. Desikachary) 112:287-297.

242. Gill, S.A., Neudorf, D.L. and Sealy, S.G. 1997. Host responses to cowbirds near the nest: cues for recognition. Animal Behaviour 53:1287-1293.

243. Gibbs, H.L., Miller, P., Alderson, G. and Sealy, S.G. 1997. Genetic analysis of Brown-headed Cowbirds (*Molothrus ater*) raised by different hosts: data from mtDNA and microsatellite DNA markers. Molecular Ecology 6:189-193.

244. Gill, S.A. and Sealy, S.G. 1996. Nest defence by Yellow Warblers: recognition of a brood parasite and an avian nest predator. Behaviour 133:263-282.

245. Sealy, S.G. and Neudorf, D.L. 1995. Male Northern Orioles eject Cowbird eggs: implications for the evolution of rejection behaviour. Condor 97:369-375.

246. LaBerge, S. and Hann, B.J. 1990. Acute temperature and oxygen stress among genotypes of *Daphnia pulex* and *Simocephalus vetulus* (Cladocera, Daphniidae) in relation to environmental conditions. Canadian Journal of Zoology 68:2257-2263.

247. Hann, B.J. and Lonsberry, B. 1991. Influence of temperature on hatching of eggs of *Lepidurus couesii* (Crustacea, Notostraca). Hydrobiologia 212:61-66.

248. Goldsborough, L.G. and Robinson, G.G.C. 1996. Pattern in wetlands, Chapter 4. In: Algal Ecology in Freshwater Benthic Ecosystems. Stevenson, R.J., Bothwell, M.L., and Lowe, R.L. (eds.), Academic Press, pp. 77-117.

249. Briskie, J.V. 1994. Seasonal patterns of sperm storage in the Yellow-headed Blackbird *(Xanthocephalus xanthocephalus)*. Ibis 136:323-330.

250. Briskie, J.V. 1994. Least Flycatcher *(Empidonax minimus)*. In: The Birds of North America, number 99. (A. Poole & F. Gill, Eds.). Philadelphia: The Academy of Natural Sciences; Washington, DC: The American Ornithologists Union.

251. Abrahams, M.V. 1994. Risk of predation and its influence on the relative competitive abilities of two species of freshwater fishes. Canadian Journal of Fisheries and Aquatic Sciences 51:1629-1633.

252. Abrahams, M.V. 1996. Interaction between young-of-year Fathead Minnows and Brook Sticklebacks: effects on growth and diet selection. Transactions of the American Fisheries Society 125:480-485.

253. Abrahams, M. and Kattenfeld, M. 1997. The role of turbidity as a constraint on predator-prey interactions in aquatic environments. Behavioral Ecology and Sociobiology 40:169-174.

256. Robinson, G.G.C., Gurney, S.E. and Goldsborough, L.G. 1997. Response of benthic and planktonic algal biomass to water level manipulation in a prairie wetland. Wetlands 17:167-181.

257. Robinson, G.G.C., Gurney, S.E. and Goldsborough, L.G. 1997. The primary productivity of benthic and planktonic algae in a prairie wetland under controlled water-level regimes. Wetlands 17:182-194.

258. Anderson, R.A. and Brust, R.A. 1995. Field evidence for multiple host contacts during blood feeding by *Culex tarsalis, Culex restuans* and *Culex nigripalpus* (Diptera: Culicidae). Journal of Medical Entomology 32:705-710.

259. Anderson, R.A. and Brust, R.A. 1996. Blood feeding success of *Aedes aegypti* and *Culex nigripalpus* (Diptera: Culicidae) in relation to defensive behavior of Japanese quail (*Coturnix japonica*) in the laboratory. Journal of Vector Ecology 21(1):94-104. 260. Anderson, R.A. and Brust, R.A. 1997. Interrupted blood feeding by *Culex* (Diptera: Culicidae) in relation to individual host tolerance to mosquito attack. Journal of Medical Entomology 34(2):95-101.

261. Robinson, G.G.C., Gurney, S.E. and Goldsborough, L.G. 1996. Algae in prairie wetlands. In: Murkin, H., Kadlec, J. and van der Valk, A. (eds.), Prairie Wetland Ecology: The State of Our Understanding and the Contribution of the Marsh Ecology Research Program, Iowa State University Press. (in press).

262. Sealy, S.G. and Lorenzana, J.C. 1998. Yellow Warblers (*Dendroica petechia*) do not recognize their own eggs. Bird Behavior (in press).

264. McMaster, D.G. and Sealy, S.G. 1997. Red-winged Blackbirds (*Agelaius phoeniceus*) accept prematurely hatching Brown-headed Cowbirds (*Molothrus ater*). Bird Behavior (in press)

267. McDougal, R.L., Goldsborough, L.G. and Hann, B.J. 1997. Responses of a prairie wetland to press and pulse additions of nitrogen and phosphorus: production by planktonic and benthic algae. Archiv für Hydrobiologie 140:145-167.

268. Hann, B.J. and Goldsborough, L.G. 1997. Responses of a prairie wetland to press and pulse additions of nitrogen and phosphorus: invertebrate community structure and interactions. Archiv für Hydrobiologie 140:169-194.

269. Pettigrew, C.T., Hann, B.J. and Goldsborough, L.G. 1998. Waterfowl feces as a source of nutrients to a prairie wetland: responses of microinvertebrates to experimental additions. Hydrobiologia 362:55-66.

270. Hann, B.J. and Zrum, L. 1997. Littoral microcrustaceans (Cladocera, Copepoda) in a prairie coastal wetland: seasonal abundance and community structure. Hydrobiologia 357:37-52.

271. Lichtenstein, G. and Sealy, S.G. 1998. Nestling competition, rather than supernormal stimulus, explains the success of parasitic brown-headed cowbird chicks in yellow warbler nests. Proceedings of the Royal Society of London, Series B 265(1392): 249-254.

272. Sealy, S.G., Neudorf, D.L., Hobson, K.A. and Gill, S.A. 1998. Nest defenses by potential hosts of the Brown-headed Cowbird: methodological approaches, benefits of defense, and coevolution. In: Rothstein, S.I. and Robinson, S.R. (eds.), Avian Brood Parasitism as Model Coevolutionary System, Oxford University Press.

276. Briskie, J.V. 1996. Lack of sperm storage by female migrants and the significance of copulations en route. The Condor 98:414-417.

277. Briskie, J.V. 1996. Spatiotemporal patterns of sperm storage and last-male sperm precedence in birds. Functional Ecology 10:375-383.

278. McMaster, D.G. and Sealy, S.G. 1998. Short incubation periods of Brown-headed Cowbirds: how do cowbird eggs hatch before Yellow Warbler eggs? Condor 100:102-111.

280. Shay, J.M., deGeus, P.M.J. and Kapinga, M.R.M. 1997. The response of emergent macrophytes to stable and fluctuating water regimes in the Delta Marsh, Manitoba. Wetlands (in press).

281. Goldsborough, L.G. and Crumpton, W.G. 1998. Distribution and environmental fate of pesticides in prairie wetlands. Great Plains Research 8:73-95.

285. McMaster, D.G. and Sealy, S.G. 1999. Do Brown-Headed Cowbird nestlings alter adult yellow warbler behavior during the hatching period? Journal of Field Ornithology (in press).

286. Crumpton, W.G. and Goldsborough, L.G. 1998. Nitrogen transformation and fate in prairie wetlands. Great Plains Research 8:57-72.

287. Kenkel, N.C. 1996. Environmental persistence and the structure/composition of northern prairie marshes. Coenoses 11:137-142.

Theses

Hominick, William M. 1969. Synchronization of life cycles of three new mermithids (Nematoda) with their Chironomid (Diptera) hosts and some observations on the pathology of the infections. M.Sc. thesis, Department of Zoology, University of Manitoba, 102 pp.

Fenton, Mark M. 1970. The Pleistocene stratigraphy and surficial geology of the Assiniboine River to Lake Manitoba area, Manitoba. M.Sc. thesis, Department of Earth Sciences, University of Manitoba. 121 pp.

Hlynka, Leo J. 1970. Helminths in *Rana pipiens* Schreber, and *Bufo hemiophrys* Cope, from the Delta Marshes, Manitoba. M.Sc. thesis, Department of Zoology, University of Manitoba. 110 pp.

Acere, Thaddaeus O. 1971. The application of certain techniques of fisheries statistics to an isolated population of Brook Sticklebacks (*Culaea inconstans*) at Delta Marsh, Manitoba. M.Sc. thesis, Department of Zoology, University of Manitoba. 94 pp.

McNicholl, Martin K. 1971. The breeding biology and ecology of Forster's Tern (*Sterna forsteri*) at Delta, Manitoba. M.Sc. thesis, Department of Zoology, University of Manitoba. 652 pp.

Bernard, Donald J. 1972. Ecological divergence between Emerald and Spottail Shiners (*Notropis*) in Lake Manitoba. M.Sc. thesis, Department of Zoology, University of Manitoba. 97 pp.

Brown, Dennis J. 1972. Primary production and seasonal succession of the phytoplankton component of Crescent Pond, Delta Marsh, Manitoba. M.Sc. thesis, Department of Botany, University of Manitoba. 126 pp.

Kennedy, Edmund 1972. The ultrastructure of the body wall of the waterfowl parasite (*Echinuria uncinate*) (Rudolphi 1819) Soloviev 1912 (Nematoda: Spiruridae). M.Sc. thesis, Department of Zoology, University of Manitoba. 163 pp.

Quaye, Martey O. 1972. The taxonomy of the lung-worm *Rhabdias* Stiles and Hassall, 1905 (Nematoda), parasitic in *Bufo hemiophrys* Cope and *Rana pipiens* Schreber and the interspecific relationship of helminths in the lungs of these amphibians. M.Sc. thesis, Department of Zoology, University of Manitoba. 93 pp.

Sproule, Thomas A. 1972. A paleoecological investigation into the post-glacial history of Delta Marsh, Manitoba. M.Sc. thesis, Department of Botany, University of Manitoba. 49 pp.

Macaulay, Alexander J. 1973. Taxonomic and ecological relationships of *Scirpus acutus* Muhl. and *S. validus* Vahl. (Cyperaceae) in southern Manitoba. Ph.D. thesis, Department of Botany, University of Manitoba. 213 pp.

Eddy, Susan B. 1976. Population ecology of the Leopard Frog, *Rana pipiens pipiens* Schreber at Delta Marsh, Manitoba. M.Sc. thesis, Department of Zoology, University of Manitoba. 84 pp.

Girman, Glenn R. 1976. The effects of a number of herbicides upon photosynthesis and heterotrophy of naturally occurring algal and bacterial communities in Delta Marsh, Manitoba. M.Sc. thesis, Department of Botany, University of Manitoba. 180 pp.

Mutch, Graham R. P. 1976. Aspects of winter dormancy in the striped skunk (*Mephitis mephitis*). M.Sc. thesis, Department of Zoology, University of Manitoba. 89 pp.

Phillips, S. Floyd 1976. The relationship between evapotranspiration by *Phragmites communis* Trin. and water table fluctuations in Delta Marsh, Manitoba. Ph.D. thesis, Department of Botany, University of Manitoba. 167 pp.

Cosens, Susan E. 1977. Development and structure of calls in young American Coots (*Fulica americana*). M.Sc. thesis, Department of Zoology, University of Manitoba. 132 pp.

Hood, Deborah E. 1977. A study of the parasites, nest fauna and selected endocrine parameters of the Red-winged Blackbird *Agelaius phoeniceus* L. M.Sc. thesis, Department of Zoology, University of Manitoba. 239 pp.

MacArthur, Robert A. 1977. Behavioral and physiological aspects of temperature regulation in the muskrat (*Ondatra zibethicus*). Ph.D. thesis, Department of Zoology, University of Manitoba. 168 pp.

McKenzie, Christopher E. 1977. The parasite fauna of the muskrat *Ondatra zibethica* (Linnaeus 1766) Miller 1912, in Manitoba. M.Sc. thesis, Department of Zoology, University of Manitoba. 86 pp.

Pip, Eva 1977. A study of aquatic plant-snail associations. Ph.D. thesis, Department of Botany, University of Manitoba. 503 pp.

Busby, Daniel G. 1978. Feeding ecology of a dense population of nesting Yellow Warblers. M.Sc. thesis, Department of Zoology, University of Manitoba. 62 pp.

Goossen, J. Paul 1978. Breeding biology and reproductive success of the Yellow Warbler on the Delta Beach Ridge, Manitoba. M.Sc. thesis, Department of Zoology, University of Manitoba. 81 pp.

Hooper-Reid, Nina M. 1978. Primary productivity, standing crop and seasonal dynamics of epiphytic algae in a southern Manitoba marsh pond. Ph.D. thesis, Department of Botany, University of Manitoba. 143 pp.

Rayner, Marilyn R. 1978. Some aspects of the ecology and management of *Chenopodium rubrum* L. in the Delta Marsh, Manitoba. M.Sc. thesis, Department of Botany, University of Manitoba. 86 pp.

Kgoroba, Kgeledi George 1979. A study of the seasonal population dynamics of the ticks *Dermacentor variabilis* (Say) and *Haemaphysalis leporispalustris* (Packard) in a marshland habitat. M.Sc. thesis, Department of Zoology, University of Manitoba. 203 pp.

MacKenzie, David I. 1979. Nest site selection and coexistence in Eastern and Western Kingbirds at Delta Marsh, Manitoba. M.Sc. thesis, Department of Zoology, University of Manitoba. 116 pp.

Anderson, Maria J. P. 1980. Seasonal changes in mass and composition of brown and white adipose tissues and in the pattern of growth of *Clethrionomys gapperi* and *Microtus pennsylvanicus*. Department of Zoology, University of Manitoba. 138 pp.

Biermann, Gloria C. 1980. Parental care, growth rates and pre-fledging condition of Yellow Warbler nestlings in different brood sizes. M.Sc. thesis, Department of Zoology, University of Manitoba. 84 pp.

Gamble, R. Lloyd 1980. The ecology and distribution of *Mustela frenata longicauda* Bonaparte and its relationships to other *Mustela* spp. in sympatry. M.Sc. thesis, Department of Zoology, University of Manitoba. 165 pp.

Garrod, Roger C. 1980. A primary survey of some factors related to the distribution of *Potamogeton perfoliatus* L. ssp. *richardsonii* (Benn.) Hulten in Delta Marsh, Manitoba. B.Sc. Honours thesis, Department of Botany, University of Manitoba. 94 pp.

Last, William M. 1980. Sedimentology and post-glacial history of Lake Manitoba. Ph.D. thesis, Department of Earth Sciences, University of Manitoba. 687 pp.

Putt, Mary 1981. An investigation of the effects of light on epiphytic algae growing on artificial substrates. B.Sc. Honours thesis, Department of Botany, University of Manitoba. 45 pp.

Thompson, Donald J. 1981. Effects of fire on *Phragmites australis* (Cav.) Trin. ex Steudel and associated species at Delta Marsh, Manitoba. M.Sc. thesis, Department of Botany, University of Manitoba. 199 pp.

Zbigniewicz, Maria W. 1981. A comparison of the vegetation at the north end of the Assiniboine Diversion with that of the adjacent marsh. B.Sc. Honours thesis, Department of Botany, University of Manitoba. 95 pp.

Yaremchuk, Gerald 1981. The effects of exposure to predation on mean vertebral and fin ray counts in the fathead minnow (*Pimephales promelas*). M.Sc. thesis, Department of Zoology,

University of Manitoba. 72 pp.

Cosens, Susan E. 1984. Sources of selection on avian songs and singing behaviour in marsh and grassland habitats. Ph.D. thesis, Department of Zoology, University of Toronto. 133 pp.

Kruszynski, Gwenn M. 1984. A description of short term colonization of artificial substrata by periphytic diatoms in the Delta Marsh, Manitoba. B.Sc. Honours thesis, Department of Botany, University of Manitoba. ## pp.

Suthers, Iain M. 1984. Role of dissolved oxygen in limiting diel and summer distribution of yellow perch in a prairie marsh. M.Sc. thesis, Department of Zoology, University of Manitoba. 84 pp.

Wong, Pooi Leng 1984. Taxonomic revision of the subfamily Schistorophinae (Nematoda: Acuarioidea) and its North American distribution in waders belonging to the families Charadriidae, Scolopacidae and Recurvirostridae (Aves). M.Sc. thesis, Department of Biology, Lakehead University. 153 pp.

Briskie, James V. 1985. Growth and parental feeding of Least Flycatchers in relation to brood size, hatching order and prey availability. M.Sc. thesis, Department of Zoology, University of Manitoba. 115 pp.

Goldsborough, L. Gordon 1985. Effects of two triazine herbicides on the structure and metabolism of freshwater marsh periphyton. Ph.D. thesis, Department of Botany, University of Manitoba. 289 pp.

Guinan, Daniel M. 1985. The diet and foraging behaviour of House Wrens (*Trogladytes aedon*) and the abundance of the invertebrate prey. M.Sc. thesis, Department of Zoology, University of Manitoba. 84 pp.

Muhsin, Tawfik 1985. Studies on fungi associated with halophytes from Delta Marsh, Manitoba. PhD. thesis, Department of Botany, University of Manitoba, 318 pp.

Beaver, Barbara 1986. Bouyancy regulation by sticklebacks in marsh and lake environments. M.Sc. thesis, Department of Zoology, University of Manitoba. 68 pp.

Leonard, Marty L. 1986. Female choice and the evolution of polygyny in the Marsh Wren (*Cistothorus palustris*). Ph.D. thesis, Department of Biology, University of Ottawa. ## pp.

de Geus, Petronella M. J. 1987. Vegetation changes in the Delta Marsh, Manitoba between 1948-1980. M.Sc. thesis, Department of Botany, University of Manitoba. 95 pp.

Horn, Andrew G. 1987. Repertoires and song switching in Western Meadowlarks (*Sturnella neglecta*). Ph.D. thesis, Department of Zoology, University of Toronto. ## pp.

Sutherland, Dawn L. 1987. Age-related reproductive success in the Yellow Warbler (Dendroica petechia). M.Sc. thesis, Department of Zoology, University of Manitoba. 92 pp.

Gurney, Sharon E. 1988. Investigations of the effects of two triazine herbicides on periphytic algal communities in the Delta Marsh, Manitoba. M.Sc. thesis, Department of Botany, University of Manitoba. 117 pp.

Hobson, Keith A. 1988. Protection of genetic parentage in the Yellow Warbler (*Dendroica petechia*). M.Sc. thesis, Department of Zoology, University of Manitoba. 125 pp.

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