

Proceedings of the
Entomological Society
of Manitoba

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2006

T.D. Galloway
Editor

Winnipeg, Manitoba

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Annual Meeting of the Entomological Society of Manitoba, Winnipeg, Manitoba, 14 October, 2006

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62nd Annual Meeting Entomological Society of Manitoba

**Saturday October 14, 2006
Room 219
Animal Science/Entomology Building
University of Manitoba**

Abstracts

SYMPOSIUM: Extension entomology in Western Canada: past, present and future

AGRICULTURAL EXTENTION ENTOMOLOGY IN WESTERN CANADA 1970-1989.

Hugh Philip, PAg. British Columbia Ministry of Agriculture & Lands, 200 – 1690 Powick Road, Kelowna, B.C. V1X 7G5.

This presentation describes the role played by extension entomologists between 1970 and 1989 in helping Prairie farmers and ranchers protect their crops and livestock from insect and related pests, and what resources and technologies these professionals had to assist them carry out their duties. Their basic role was to bridge the gap between the developers of technology (research entomologists) and the end users (ranchers and farmers) using the latest communication tools and methods. This was a period of technological change that introduced both extension entomologists and their clients to the age of computers, the concept of integrated pest management, and increasing public concerns on the impact of crop protection products to human and environmental health and safety.

AGRICULTURAL EXTENTION ENTOMOLOGY IN WESTERN CANADA 1990-2006.

Scott Hartley, P.Ag. Saskatchewan Agriculture and Food, Room 125, 3085 Albert Street, Regina, SK S4S 0B1.

This presentation is intended to cover the interim years of the extension entomology in Western Canada from 1989 up to present day. During this period many of the duties remained the same as prior to 1990 but reduced budgets and restructuring of some departments, the way service is provided has changed. In some cases field extension has been eliminated. However the focus continues on assistance to producers and agri-consultants dealing with insects that affect agricultural production. Integrated pest management and environmental issues are now a normal component of the industry. Advances in research, computer modeling to estimate insect emergence and development, varied funding opportunities and harmonization in monitoring methods are utilized in maintaining the high quality of entomological services in Western Canada.

AGRICULTURAL EXTENTION ENTOMOLOGY IN WESTERN CANADA: THE FUTURE. Scott Meers, Integrated Crop Management Specialist, Alberta Agriculture, Food and Rural Development, Crop Diversification Centre South, S.S. #4, Brooks, AB T1R 1E6.

Looking into the future of extension means getting into the head of policy makers, which this presentation will not attempt to do. Instead this presentation will focus on the challenges and opportunities that are ahead. What does global warming mean to the insect world and how will that affect our job. Also changing farming methods and the scale of farming will have an impact. Our tools are expanding as well though. While extension manpower within government has largely evaporated, there are more and more professionals working directly with producers in the private sector. Communication technology also presents opportunities for insect identification and extension work. While the future is anything but certain there are two constants: there will always be insects and the future is what we make it.

SUBMITTED PAPERS

INSECTS ON FIELD CROPS IN MANITOBA IN 2006 – AN EXTENSION UPDATE.

John Gavloski, Crops Branch, Manitoba Agriculture, Food and Rural Initiatives. Box 1149, Carman, MB R0G 0J0.

In cereal crops, aphid populations reached high levels in some fields, making control economical. Wheat midge (*Sitodiplosis mosellana*) populations were high in some areas, resulting in some spraying of insecticides. Bertha armyworm (*Mamestra configurata*) populations were quite high in some of the western areas of the province, resulting in substantial damage in some canola fields and the use of insecticides for control. Diamondback moth (*Plutella xylostella*) populations reached damaging levels in the Southern Interlake region and the area north of Ste. Rose. Levels of lygus bug (*Lygus* spp.) were high in sunflowers during the flowering period, resulting in substantial control in confection sunflowers. High levels of potato aphids (*Macrosiphum euphorbiae*) occurred on flax in the Central and Interlake regions.

Soybean aphid (*Aphis glycines*) reached economic levels for the first time ever in Manitoba. High populations occurred on soybeans in the Eastern, Interlake and Central area of the province. Spider mites were a concern on soybeans in the Eastern part of the province late in the season. Populations of pea aphid (*Acyrtosiphon pisum*) reached high levels in some fields of field peas in the western part of the province, resulting in some insecticide applications. A more detailed summary of Insects on field crops in Manitoba in 2006 will be presented at the Western Forum on Pest Management and posted on the Manitoba Agriculture, Food and Rural Initiatives website at: <http://www.gov.mb.ca/agriculture/crops/insects/index.html>.

HOW THE OTHER HALF LIVES – A MANITOBA EXTENSION UPDATE FROM THE HORTICULTURE SIDE. Brent Elliott, Crops Branch, Manitoba Agriculture, Food and Rural Initiatives, Box 1149 65-3rd Ave NE, Carman, MB R0G-0J0.

Agriculture in the Canadian prairies tends to focus on the cereals and the oilseeds as they make up the bulk of the acreage of arable land use with respect to cropping systems. There is also considerable production in the horticulture sector that is often overlooked due to the small acreages yet the value of production is remarkably high. The horticulture section tends to have as many, if not more, insect pest issues than does the conventional agriculture

side of the equation. Several examples will be presented to illustrate some of the issues that arose in the growing season of 2006.

FUNDAMENTAL HOST RANGE OF A EUROPEAN NATURAL ENEMY OF *DELIA RADICUM*. Lars Andreassen^{1,2}, U. Kuhlmann¹ and N.J. Holliday². ¹CABI Bioscience Switzerland, Delémont, 1 Rue des Grillons, 2800 Delémont, Switzerland, ²Department of Entomology, University of Manitoba, Winnipeg, MB R3T 2N2.

Introducing the staphylinid parasitoid *Aleochara bipustulata* might be an option for control of the exotic cabbage maggot in Canadian canola. However, *A. bipustulata* must be demonstrably specific to the pest to proceed. Larvae of *Aleochara* species enter puparia of Diptera Muscomorpha, where they feed as ectoparasitoids. The experiment to determine *A. bipustulata*'s host range involved exposing puparia to parasitoid larvae and recording whether they were attacked and whether the species was suitable for complete development. Diptera species were selected for the experiment based on the likelihood *A. bipustulata* would encounter them in nature, considering also beneficial species. The results of this experiment will be discussed.

THE EFFECTS ON DIAMONDBACK MOTHS, *PLUTELLA XYLOSTELLA*, OF TREATMENTS TO INDUCE SYSTEMIC RESISTANCE IN CANOLA. Kate Bergen¹, Dilantha Fernando², Neil J. Holliday¹. ¹Department of Entomology, University of Manitoba, Winnipeg, MB, Canada R3T 2N2, ²Department of Plant Science, University of Manitoba, Winnipeg, MB, Canada R3T 2N2.

Strains of the bacteria *Pseudomonas chlororaphis* and *Bacillus amyloliquifaciens* have been shown to control some fungal diseases of canola through multiple mechanisms. One mechanism is induced systemic resistance, which is initiated by the signaling compound jasmonic acid, and protects plants against multiple pest threats. Over the past year laboratory experiments have been conducted to determine the effects of the two bacteria and jasmonic acid on diamondback moths (*Plutella xylostella*). Choice experiments were carried out to investigate the effects of the treatments on oviposition preference. Feeding experiments were also carried out to investigate the effects on relative growth rate of the larvae. The effects of the treatments and their potential for insect control will be discussed.

ASSESSING BEE-O-DIVERSITY IN MIXED GRASS PRAIRIE HABITATS. A.M. Patenaude and R.E. Roughley. Department of Entomology, University of Manitoba, Winnipeg, MB R3T-2N2.

Obtaining reliable baseline data on species diversity and composition is critical for assessing the status of wild bee communities. Sweep-netting and the use of bee bowls are two recommended methods for sampling bee fauna; however, the extent to which they can each be used in isolation is debated. Bee community data collected on the Yellowquill Mixed-grass Prairie Preserve in 2005 and 2006 will be used to show qualitative differences in the temporal and compositional patterns reflected by each sampling method.

THE ROLE OF NATIVE ELM BARK BEETLE, *HYLURGOPINUS RU-FIPES* (EICHHOFF), AS A VECTOR OF *OPHIOSTOMA* SPP. FUNGI IN NEWLY-DIAGNOSED AMERICAN ELM TREES IN MANITOBA.

S. Oghiakhe¹, J. Leferink², D. A. Domke³ and N. J. Holliday¹ ¹Department of Entomology, University of Manitoba, Winnipeg, MB, Canada R3T 2N2 ²Forestry Branch, Forest Health and Renewal Section, Manitoba Conservation, 200 Saulteaux Crescent, Winnipeg, MB, Canada R3J 3W3 ³Urban Forestry Branch, City of Winnipeg, 700 Assiniboine Park Drive, Winnipeg, MB, Canada R3P 2N9.

In Manitoba, American elm trees first exhibit symptoms of Dutch elm disease in June. Newly symptomatic trees are tagged and in some jurisdictions removed immediately, whereas elsewhere they are removed the following winter. We are investigating the implications for disease transmission of the two times of tree removal. In June 2006, newly-symptomatic American elm trees near Winnipeg were tagged. From the tagged trees, four randomly selected trees were felled on each of June 26, July 24, August 21 and four will be felled on December 4, 2006. On each date, trunks and branches (>2.5 cm diameter) of felled trees were cut into labeled sections, and all sections from one tree, and for the remaining three trees, sections from one symptomatic branch and one similarly-sized healthy branch were removed to the laboratory. The sections were debarked to reveal brood galleries and fungal staining; the number and stage of beetles in the galleries, and the proportion of beetles carrying spores of the causal agents of Dutch elm disease (*Ophiostoma ulmi* or *O. novo ulmi*) were recorded. The results will be discussed in relation to the ability of the beetles to transmit the Dutch elm disease fungus in the season of disease diagnosis, and implications for the disease management program in Manitoba.

EFFECT OF REGIONAL CLIMATE WARMING IN BOREAL FOREST ECOSYSTEMS USING BUTTERFLIES AS INDICATORS OF PHENOLOGICAL CHANGE AND SHIFTS IN SPECIES GEOGRAPHIC RANGE. R. Westwood and D. Blair. Department of Biology and Dept. of Geography, University of Winnipeg, 515 Portage Ave., Winnipeg, Manitoba R3B 2E9.

Climate change is normal at many time scales, but recent and projected atmospheric changes which may be resulting from human activity point to rapid climatic change over the next century. There have been a number of studies examining various changes in butterfly biology including the range, abundance and phenology of the individual species in response to changes in climate. The purpose of this study was to assess the trends in butterfly species spatial and temporal distribution in eastern Manitoba and to attempt to relate any changes to concomitant changes in climate. Climate warming is occurring in southeastern Manitoba and butterfly species in the region are responding to these climatic changes. Butterflies are on the wing longer, perhaps living longer as adults or extending their overall generation time. Winter and the early fall in the study area have warmed significantly since 1970. Butterflies are responding to this warming trend with a change in the length of certain life stages. Butterfly species which in past have been unable to survive in the area have become established.

COMMUNITY AND ENVIRONMENTAL VARIABLES AND THE RELATIONSHIP TO POLLINATOR VISITATION IN THE ENDANGERED WESTERN PRAIRIE FRINGED ORCHID (*PLATANThERA PRAECLARA*). C. Friesen and R. Westwood. Department of Biology, University of Winnipeg, Winnipeg, Manitoba R3B 2E9.

The western prairie fringed orchid (WPFO) is an endangered species provincially and nationally. The orchid does not reproduce vegetatively, thus seed production is crucial to maintain stable populations. Several sphinx moth species act as the sole pollinators of the WPFO. This study examined factors which may affect the rate of sphinx moth visitation to the WPFO. The distribution and abundance of larval host plants and alternate nectar sources around the orchids was determined. This data was compared to levels of orchid fruit production, which was used as a proxy measure of pollinator visitation. In addition, the visibility of and distance to light sources visible from the orchid beds were measured. Few potential alternate nectar sources were found in orchid field and certain larval host plants were absent from the study area. There was no relationship between abundance of remaining

larval host plants and pollination levels. There was no apparent relationship between the visibility or distance of light sources from orchid plots and the level of orchid fruit production.

INFLUENCE OF PRESCRIBED BURNING AND GRAZING ON DAKOTA SKIPPER, *HESPERIA DACOTAE*, HABITAT IN SOUTH EASTERN MANITOBA. L. Bates and R. Westwood. Department of Biology, University of Winnipeg, 515 Portage Ave., Winnipeg, Manitoba R3B 2E9.

The Dakota skipper, *Hesperia dacotae* is a rare butterfly, now confined to isolated areas of mixed and tall-grass prairie in Manitoba, Saskatchewan and several northern US states. Due to conversion of prairie into agricultural land, the population of this butterfly has declined dramatically and it is currently classified as a threatened species by COSEWIC. Vegetation surveys were completed to assess the floral composition of sites where the Dakota skipper had once been found. These sites had undergone different prescribed burning and grazing regimes. The study examined the link between the abundance of larval food plants and adult host plants and burn and grazing intervals.

THE IMPACT OF ROTATIONAL SEASONAL GRAZING ON THE INVERTEBRATES OF MIXED-GRASS PRAIRIE USING GROUND BEETLES (CARABIDAE) AND SPIDERS (ARANEAE) AS BIOINDICATORS. A. Stjernberg and R.E. Roughley. Department of Entomology, University of Manitoba, Winnipeg, MB R3T-2N2.

Grasslands need periodic disturbance (drought, grazing, fire etc.) in order to be maintained. The continued existence of areas of mixed-grass prairie is threatened by four major factors: cultivation, Trembling Aspen encroachment, exotic species invasion, and inappropriate grazing management. The Nature Conservancy of Canada owns the Yellow Quill Mixed-Grass Prairie Preserve which is located 20 km southeast of Brandon, and 2 km north of the junction of the Assiniboine and Souris Rivers. The current management strategy involves twice-over rotational cattle grazing through several pastures on the site. A stimulatory graze of 15 days is applied in the spring and a fall graze of 30 days is applied later on in the season. The main goal of this research is to establish what impact this common management strategy has on the diversity and abundance of selected groups of invertebrates in the

mixed-grass prairie ecosystem (Coleoptera: Carabidae, and Araneae). Some spider families in particular are sensitive to the architectural changes in their environment caused by the removal of 3-dimensional grasses since these are used for web-building and prey capture. A secondary experiment attempts to determine what times of the season are most appropriate for grazing such that the biodiversity of the habitat remains intact. Pitfall traps and sweep-netting were used from May through October of 2005 and 2006. Only the Carabid results are to be discussed at this time.

USE OF MITOCHONDRIAL DNA SEQUENCES FOR IDENTIFICATION OF THE HOSTS OF SELECTED MOSQUITO SPECIES COLLECTED IN QUEBEC. M. Iranpour², R. Lindsay² and A. Dibernardo¹. ¹International Centre for Infectious Diseases (ICID), Winnipeg, Manitoba; ²Zoonotic Diseases and Special Pathogens, National Microbiology Laboratory, Public Health Agency of Canada, 1015 Arlington Street, Winnipeg, MB, R3E 3M4.

Identification of the blood meals of mosquitoes provides important information on species-specific host-feeding patterns. This information in turn provides insight into the possible role that reservoir hosts may play in the transmission of arboviruses such as West Nile virus. In this study, DNA was extracted from 338 blood-fed mosquitoes collected in Quebec, 2004 and 2005. Primers targeting the Cytochrome B gene of vertebrate hosts was successfully amplified, purified and then sequenced for 191 individual mosquitoes from 16 different species. Identity of vertebrate hosts was then obtained by editing the sequences and checking for sequence homology in Gene Bank. The majority of blood-fed mosquitoes tested were *Aedes vexans* (33.0%), *Coquillettidia perturbans* (21.0%), *Ochlerotatus stimulans* (9.0%), and *Culex pipiens* (8.0%). Based on analysis of the blood meals, most of *Culex pipiens* had fed upon birds. In contrast, *Ochlerotatus* and *Aedes* species fed predominately on mammals. In total, 40 of 41 *Cq. perturbans* had fed upon hosts for which there were no reliable Cytochrome B sequence data and hence host identification was not possible. The preliminary results of this study support the existing literature on host-feeding patterns of several species of mosquitoes and provide insights into the possible role that these species might play in enzootic and epidemic transmission of West Nile virus.

***The Entomological Society of Manitoba
gratefully acknowledges the generosity of the
following organizations,
whose financial contributions were instrumental in
making the 62nd Annual Meeting possible.***

Bayer CropScience

Canadian Centre for Mosquito Management

Canadian Grain Commission

Canola Council of Canada

City of Winnipeg Insect Control Branch

Dow AgroSciences

Louisiana-Pacific Canada Ltd.

Metro Pest Control

Monarch Pest Control Ltd.

North South Consultants

Orkin PCO Services

Province of Manitoba - Conservation

Viceroy Distributors

The Entomological Society of Manitoba

62nd Annual Business Meeting

16 November, 2006

Manitoba Agriculture and Animal Industry Complex
University Crescent, Winnipeg

Attendees

Rhéal Lafrenière - President	N.J. Holliday
Blaine Timlick - President Elect	Bob Lamb
Pat MacKay - Regional Director to ESC	David Ostermann
Noel White - Secretary	Andrea Patenaude
Brent Elliott - Past President	Marj Smith
Lars Andreassen	Désirée Vanderwel
Terry Galloway	Sheila Wolfe
John Gavloski	

1. Acceptance of Agenda.

Motion: Holliday/Lamb - Acceptance of the Agenda (Appendix A)

Carried

2. Acceptance of the Minutes of the last Annual Meeting (22 October, 2005).

Motion: Lamb/Galloway - Acceptance of previous minutes of the 61st

Business Meeting (part of text missing, p. 31, Appendix E; Agenda: last meeting was 2004 not 2003)..... **Carried**

3. Business Arising from the Minutes - None.

4. Reports - Executive

Motion: Holliday/MacKay - To receive reports..... **Carried**

5. Appendix B - President

Appendix C - Treasurer (Financial Statement)

Appendix D - Regional Director to Entomological Society of Canada

Appendix E - Endowment Fund Board. M. Smith congratulated Paul Fields for tremendous updates to ESC Bulletin

Appendix F - Proceedings Editor

6. **Reports - Committees**

Appendix G – Finance

Appendix H - Publicity / Newsletter – P. MacKay strongly suggested hard copies of Bulletin still be made available - the meeting agreed.

Motion: Timlick/Holliday - A budget increase of \$100 be given for production of the Bulletin. **Carried**

Appendix I - Social

Appendix J - Youth Encouragement

Appendix K - Archives

Appendix L - Scholarships and Awards

Appendix M - Scientific Program

Fundraising - No Report.

Appendix N - Membership

Appendix O - Web Page

7. **Election results**

President Elect Désirée Vanderwel

Member-at-Large John Gavloski

Motion: Lamb/MacKay - To destroy the Ballots. **Carried**

8. **Transfer of Presidential Office** - Rhéal Lafrenière to Blaine Timlick.

9. **Reappointment of Auditor**

Motion: Wise/Lafrenière - To retain Doug Nicholson and Co. as auditor to the ESM. **Carried**

Adjournment. 3:50 p.m.

APPENDIX A

The Entomological Society of Manitoba, Inc. Agenda of the Entomological Society of Manitoba 62nd Annual Business Meeting

**16 November, 2006
Manitoba Agriculture and Animal Industry Complex
University Crescent, Winnipeg**

AGENDA

1. Acceptance of Agenda.
2. Acceptance of the Minutes of the last Annual Meeting (22 October 2005).
3. Business arising from the Minutes.
4. Reports - Executive
President — Rhéal Lafrenière
Treasurer — Ian Wise
Regional Director to the ESC — Patricia MacKay
Editor of the Proceedings — Terry Galloway
Endowment Fund Board — Marjorie Smith
5. Reports - Committees
Finance — Marjorie Smith
Publicity / Newsletter — Mahmood Iranpour, Patricia MacKay
Social — Brent Elliott / Sheila Wolfe
Youth Encouragement / Public Education — Andrea Patenaude
Archives — Rob Roughley
Scholarship and Awards — Richard Westwood
Scientific Program — Brent Elliott
Membership — Désirée Vanderwel
Web Page — Rob Currie

6. Election results — Scrutineer, Colin Demianyk.
7. New Business.
8. Transfer of Office.
9. Reappointment of Auditor.
10. Other business.
11. Adjournment.

APPENDIX B

Entomological Society of Manitoba President's Report – Annual Business Meeting November 16, 2006

As the President of the ESM for 2005-06, one of the first tasks that I had to do was find a replacement for Mahmood Iranpour, Chair of the Web Page Committee. Initially I thought that it was going to be very difficult to find a volunteer who had the computer skills to handle the job. Mahmood assured me that it was not as hard as it appeared to be but I was extremely pleased and relieved when Rob Currie agreed to step into this position.

The second order of business as President was to find a Scientific Program Chair for the Annual Meeting in 2006. Again I was extremely pleased and relieved when Brent Elliott agreed to take on this responsibility.

In terms of ESM Executive Committee business undertaken this past year, much of the focus was directed at planning for the upcoming national and international meeting being hosted by the Society. The ESM has offered to host the Entomological Society of Canada Joint Annual Meeting (JAM) in Winnipeg in 2009. Brent Elliott, Paul Fields, and their committee have been working tirelessly on the preparations for the Joint ESM/ESA-NCB meeting, which is to be held in Winnipeg on March 25-28, 2007. Lastly, organizing the ESM Annual Meeting on October 14, 2006 and today's business meeting.

The Executive also participated in a survey sent to Regional Directors of the Entomological Society of Canada to solicit input from regional societies on

organization and operation of Joint Annual Meetings. Manitoba's Regional Director, Pat Mackay facilitated this activity and responded to the inquiry.

In closing, I would like to thank the ESM Executive and Committees for all the hard work they have done for the Society this past year. It is the dedication and passion of this Society's membership that made this such an enjoyable experience for me.

Rhéal Lafrenière
ESM President

APPENDIX C

ENTOMOLOGICAL SOCIETY OF MANITOBA, INC FINANCIAL STATEMENT UNAUDITED (SEE REVIEW ENGAGEMENT REPORT)

31 August, 2006

DOUG NICHOLSON* & CO.,
Certified General Accountant

REVIEW ENGAGEMENT REPORT

To the Members of the
Entomological Society of Manitoba Inc.

I have reviewed the statement of financial position of **Entomological Society of Manitoba Inc** as at **August 31, 2006** and the statement of revenues, expenditures, and surplus for the year then ended. My review was made in accordance with Canadian generally accepted standards for review engagements and accordingly consisted primarily of enquiry, analytical procedures, and discussion related to information supplied to me by the company.

A review does not constitute an audit and consequently I do not express an audit opinion on these financial statements.

These financial statements have been prepared using the cash basis of accounting as further described in note 2. The effects of this departure from Canadian generally accepted accounting principles on the unaudited financial statements have not been determined.

Based on my review, except as noted in the preceding paragraph, nothing has come to my attention that causes me to believe that these financial statements are not, in all material respects, in accordance with Canadian generally accepted accounting principles.

Winnipeg, Canada
September 28th, 2006
tant

“Doug Nicholson”
Doug Nicholson & Co.,
Certified General Accountant

**PROFESSIONAL CORPORATION*

**ENTOMOLOGICAL SOCIETY OF MANITOBA, INC.
NOTES TO THE FINANCIAL STATEMENTS
UNAUDITED - (SEE REVIEW ENGAGEMENT REPORT)
AUGUST 31, 2006**

NOTE 1 PURPOSE OF THE ORGANIZATION

The Entomological Society of Manitoba Inc. was formed to foster the advancement exchange and dissemination of Entomological knowledge. The Entomological Society of Manitoba was incorporated on July 21st, 1976 under the laws of the Province of Manitoba as a non-profit organization and a registered charity under the Income Tax Act.

NOTE 2 SIGNIFICANT ACCOUNTING POLICIES

Income and expenses are recorded on the cash basis of accounting. There are no accruals of receivables or payables at the year-end. Inventory is expensed when it is purchased. Interest from investment certificates is paid out annually and no interest is accrued. Capital assets are expensed when acquired and, therefore, there are no annual amortization allowances.

NOTE 3 CANADIAN T-BILL FUND

The Canadian T-Bill fund was opened February 28, 1997 with a principal balance of \$4,000. Additional purchases have been made during the year. The Canadian T-Bill fund is shown at market value at year-end.

**ENTOMOLOGICAL SOCIETY OF MANITOBA, INC.
STATEMENT OF FINANCIAL POSITION
AUGUST 31, 2006**

ASSETS

CURRENT	<u>2006</u>	<u>2005</u>
Cash in bank	\$ 1,413	\$ 2,708
Canadian T-Bill fund (note 3)	\$ 7,483	\$ 13,072
Investment Certificates (notes 2, 4)	\$ 35,935	\$ 30,135
	\$ 44,831	\$ 45,915

LIABILITIES

LIABILITIES	nil	nil
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SURPLUS

SURPLUS	\$ 44,831	\$ 45,915
	<u>\$ 44,831</u>	<u>\$ 45,915</u>

APPROVED BY THE BOARD:

_____ President

Treasurer

**The accompanying notes form an integral
part of these financial statements**

**ENTOMOLOGICAL SOCIETY OF MANITOBA, INC.
STATEMENT OF REVENUES, EXPENDITURES AND SURPLUS
UNAUDITED - (SEE REVIEW ENGAGEMENT REPORT)
FOR THE YEAR ENDED AUGUST 31, 2006**

REVENUE	2006	2005
Annual meeting	\$1,632	\$1,660
Donations	\$1,715	\$1,700
Fundraising committee	\$0	\$960
Interest income	\$1,059	\$1,544
Members fees	\$1,715	\$1,761
Miscellaneous	\$133	\$184
Proceedings	\$49	\$259
Social committee	\$278	\$88
Youth encouragement & public education	\$76	\$500
	<u>\$6,657</u>	<u>\$8,656</u>

EXPENDITURES		
Awards and Scholarships	\$1,500	\$1,500
Donations	\$50	\$500
Fundraising	\$0	\$626
General	\$1,507	\$1,318
Meetings	\$3,347	\$3,666
Newsletter	\$387	\$403
Proceedings	\$546	\$456
Social Committee	\$236	-
Youth encouragement & public education	\$168	\$124
	<u>\$7,741</u>	<u>\$8,593</u>

EXCESS OF REVENUES OVER	(\$1,084)	\$63
EXPENDITURES		
Add: Surplus, beginning of the year	\$45,915	\$45,852
SURPLUS, END OF YEAR	<u>\$44,831</u>	<u>\$45,915</u>

**The accompanying notes form an integral
part of these financial statements**

NOTE 4 INVESTMENT CERTIFICATES

Certificate Number	Interest Rate	Maturity Date	Par Value
900055611-0007	2.40	Nov 16, 2006	\$7,000
900055611-0009	3.20	Nov 16, 2010	\$8,000
960006276-0004	3.00	Dec 11, 2008	\$3,000
960006276-0005	4.55	Oct 31, 2007	\$3,135
960006276-0008	3.30	Sep 16, 2008	\$4,000
960006276-0009	2.75	Feb 10, 2009	\$7,000
960006276-0010	2.10	Feb 12, 2007	\$3,800
			\$35,935

NOTE 5 STATEMENT OF CHANGES IN FINANCIAL POSITION

A Statement of Changes in Financial Position is not included with these financial statements as the Society uses the cash basis of accounting and would not provide any useful information that cannot be attained by the Balance Sheet and the Statement of Revenues, Expenditures, and Surplus.

APPENDIX D**ENTOMOLOGICAL SOCIETY OF MANITOBA, INC
REPORT OF THE ESC REGIONAL DIRECTOR**

Over the past year, the first year of my second term as Regional Director for the Entomological Society of Manitoba on the Governing Board of the Entomological Society of Canada, I have carried out several duties. As Regional Director I have served on the ESC Membership and the ESC Science Policy and Education Committees. In addition, I reported on ESM activities at the Joint Annual Meeting of the Entomological Society of Canada and the Entomological Society of Alberta in Canmore, Alberta, from November 2-5, 2005, where I attended the two scheduled board meetings and the Annual Business Meeting of the ESC. I also submitted a report on ESM activities to the Interim Meeting of the ESC Executive Council in Ottawa in April 2006. These reports are available as attachments to the Minutes of the next ESM Executive Meeting following the report. I will attend the 2006 Joint Annual Meeting of the Entomological Societies of Canada and Quebec in Montreal from November 18 to 22. At this meeting, ESM member Bob Lamb will step down as Past President and leave the ESC Board. Dan Quiring, a forest

ecologist from UNB will become Past President, and Peggy Dixon, AAFC Newfoundland will become President. Terry Shore, CFS Victoria BC will become 1st Vice-President, and ESM member Paul Fields will become 2nd Vice-President. At the Montreal meeting, ESM member Rob Roughley begins his third year as Director-at-Large on the Board of ESC.

The next ESC Annual Meeting is a joint meeting with the Entomological Society of Saskatchewan. Details of that meeting will be available at the time of the Montreal meeting and will be listed in the Meeting Announcements of the next issue of the ESM Newsletter. According to the traditional pattern of annual meetings, ESM is scheduled to host the Joint Annual Meeting again in 2009. That invitation has been extended to ESC by the President of the ESM.

Recent noteworthy events in the ESC include changes to the editorships of both the Society's publications. Richard Ring is stepping down as Editor of the *Canadian Entomologist*, and will be replaced by Rob Bennett from the British Columbia Provincial Government. Paul Fields is stepping down as Editor of the *ESC Bulletin*, to be replaced by Kevin Floate, AAFC Lethbridge.

Until last year, membership in the ESC had been in decline for some years, down to a low of 475 in 2004. However last year and again this year, the number of members has increased and currently stands at 547. On behalf of the ESC, I encourage all ESM members who are not already members of ESC to seriously consider joining the ESC. Without a strong national society, the ESM will become a much weaker organization. ESC plays a critical role in entomology in Canada which benefits all entomologists in the country, whether they are members of the National Society or not. The health and strength of ESC is critical to all of us.

Patricia A. MacKay
Regional Director for ESM on the ESC Board
November 2006

APPENDIX E

ENTOMOLOGICAL SOCIETY OF MANITOBA Report of the Endowment Fund Board for 2005-2006

The Endowment Fund provides a basis for funding the publication of the Proceedings and other Society activities. In the past the Fund provided full

support for these commitments, but income generated declined each year as maturing GIC's were reinvested at lower interest rates. The Endowment Fund cap is \$40,000, approved at the Annual Business Meeting in 1998. At last year's ABM the Endowment Fund Board recommended a plan for increasing the Endowment Fund to the cap over the next few years, and approval was given to top up the GIC maturing in November 2005 from \$7200 to \$8000. The ESM Executive has recently given approval, by e-mail ballot, to top up the GIC maturing on 16 November 2006 from \$7000 to \$8000. This will bring the principal of the fund up to \$36,935.

Please see the 2006 Financial Statements for the Endowment Fund summary as of 31 August 2006. Summaries of investments and projected interest income for the current fiscal year and the 2007-2008 fiscal years are attached (Tables 1 and 2). This coming February, GIC no. 960006276-0010 will mature, and the principal amount of \$3800 will be held in the Treasury Bill account until 31 October 2007, when it will be combined with GIC no. 960006276-0005, and the total principal of \$6935 reinvested. Prior to this reinvestment, the Endowment Fund Board will seek approval from the ESM Executive to increase the principal to \$8000, bringing the Endowment Fund up to \$38,000.

Marjorie Smith, Chair

Ian Wise

Pat MacKay

Endowment Fund Guaranteed Investment Certificates

Table 1: Account information as of August 31, 2006. Interest generated during the 2006-2007 fiscal year.

Certificate No.	Principle	Interest Rate (%)	Maturity Date	Annual Interest
900055611-0007	\$7000.00	2.40	Nov 16, 2006	\$168.00
900055611-0009	\$8000.00	3.20	Nov.16, 2010	\$256.00
960006276-0004	\$3000.00	3.00	Dec 11, 2008	\$90.00
960006276-0005	\$3135.00	4.55	Oct 31, 2007	\$142.64
960006276-0008	\$4000.00	3.30	Sept 16, 2008	\$132.00
960006276-0009	7000.00	2.75	Feb 10, 2009	\$192.50
960006276-0010	\$3800.00	2.10	Feb 10, 2007	\$79.80
Total	\$35935.00			\$1060.34

Table 2: Projected account information as of August 31, 2007. Interest generated during the 2007-2008 fiscal year.

Certificate No.	Principle	Interest Rate (%)	Maturity Date	Annual Interest
900055611-	\$8000.00	3.20	Nov 16, 2011	\$256.00
900055611-	\$8000.00	3.20	Nov.16, 2010	\$256.00
960006276-0004	\$3000.00	3.00	Dec 11, 2008	\$90.00
960006276-0005	\$3135.00	4.55	Oct 31, 2007	\$142.64
960006276-0008	\$4000.00	3.30	Sept 16, 2008	\$132.00
960006276-0009	7,000.00	2.75	Feb 10, 2009	\$192.50
960006276-0010	\$3800.00	Held in Treasury Bill account until 31 October 2007		
Total	\$36935.00			\$1069.14

APPENDIX F

Entomological Society of Manitoba Report of the *Proceedings* Editor

Volume 61 (2005) of the *Proceedings of the Entomological Society of Manitoba* contains 52 pages, including two submitted papers, the abstracts from the Annual Meeting held in Winnipeg on 21-22 October 2005, the Minutes of the 61st Business Meeting of the Entomological Society of Manitoba, and 15 board member and committee reports. The *Proceedings* went to press in the first week of October and was distributed to members in attendance at the Annual Business Meeting on 16 November 2006. Volume 61 was printed by Warren Schuetz at the University of Winnipeg Print Shop; the total cost for the 220 copies requested was approximately \$670.\

I thank Noel White, Secretary of the ESM, for his efforts in providing me with electronic copies of all files from the Annual Business Meeting, and to Neil Holliday, Chair of the 2005 Scientific Programme Committee, for electronic files containing meeting abstracts. Their diligence greatly facilitates compilation of the *Proceedings*. I also thank Pat MacKay who served as scientific editor for one of the manuscripts submitted while I was away on Research Study Leave. I also thank the anonymous reviewers who provided their valuable comments. At the time of this report, Volume 61 has not yet been posted on our website. I thank Warren Schuetz, University of Winnipeg Print Shop and Désirée Vanderwel and Rob Currie for running their shuttle service for getting the Journal to the University of Manitoba. In particular, I

thank Pat MacKay who served as editor for the *Proceedings* while I was on Research Study Leave and looked after getting Volume 60 (2004) compiled, edited, and distributed.

Please consider the *Proceedings* as a place for submission of those manuscripts sitting around on your desks just waiting to be seen by the entomological community. Manuscripts in the *Proceedings* are fully reviewed and now are available on the web and are readily accessible using on-line search engines. Papers of local entomological interests are especially encouraged.

Terry Galloway

Editor, *Proceedings of the Entomological Society of Manitoba*

17 November 2006

APPENDIX G

Entomological Society of Manitoba Report of the Finance Committee for 2005-2006

The Finance Committee met on 14 November 2006, to review the 2005-2006 financial statement and the budgets for the current fiscal year. Although the 2005-2006 fiscal year ended with a loss, it is the first loss since 2001 and only the third loss in the past 12 years, so the Society continues to be in good financial shape.

The Endowment Fund interest was lower than usual, and the Treasury Bill interest higher than usual, mainly because the principal amounts of two maturing GICs from the Endowment Fund were held temporarily in the Treasury Bill account until they could be combined with other maturing GICs, according to the plan of the Endowment Fund Board (see Endowment Fund Board Reports for 2005 and 2006). The balance of the Treasury Bill account is not part of the Endowment Fund but is surplus cash from the chequing account. Over the next few years, the Treasury Bill account is expected to decrease from its current level of \$7483 as amounts are added to the Endowment Fund to increase it to its cap of \$40,000. The Finance Committee recommends keeping the Treasury Bill account at least until this time.

Marjorie Smith, Chair

Ian Wise

Pat MacKay

APPENDIX G

ENTOMOLOGICAL SOCIETY OF MANITOBA

BUDGET ITEMS	2005-06	2006-07	2007-08
REVISED 14 November 2006	Actual	Actual and Projected	Projected
Endowment Fund	\$ 35,935	\$ 36,935	\$ 38,000
REVENUE			
Membership Dues	\$ 1,715	\$ 1,600	\$ 1,600
Proceedings	\$ 49	\$ 250	\$ 200
Social Committee	\$ 278	\$ 0	\$ 0
Youth/Education Committee	\$ 0	\$ 200	\$ 200
Donations: from YEC activities	\$ 241	\$ 250	\$ 250
fundraising for AGM	\$ 1,370	\$ 1,200	\$ 1,200
student awards	\$ 200	\$ 200	\$ 200
Fundraising Committee	\$ 0	\$ 0	\$ 0
Meetings: ESM/AGM	\$ 1,612	\$ 600	\$ 1,700
NCB-ESA-ESM JAM	\$ 0	\$ 2,554	\$ 0
Interest: GIC income	\$ 849	\$ 1,060	\$ 1,070
T-Bill	\$ 210	\$ 150	\$ 100
Account/Chequing			
Miscellaneous - GST rebate	\$ 133	\$ 115	\$ 120
TOTALS	\$ 6,657	\$ 8,179	\$ 6,640
EXPENSES			
General Society Expenses	\$ 1,507	\$ 800	\$ 800
Proceedings	\$ 546	\$ 1,030	\$ 1,000
Newsletter	\$ 387	\$ 500	\$ 500
Social Committee	\$ 236	\$ 100	\$ 100
Youth/Education Committee	\$ 168	\$ 325	\$ 350
Fundraising Committee	\$ 0	\$ 0	\$ 0
Student Awards and Scholarships	\$ 1,500	\$ 1,500	\$ 1,500
Meetings: ESM/AGM	\$ 2,847	\$ 1,400	\$ 3,000
NCB-ESA-ESM JAM	\$ 500	\$ 0	\$ 0
Donations	\$ 50	\$ 0	\$ 0
Representation at ESC	\$ 0	\$ 400	\$ 400
TOTALS	\$ 7,741	\$ 6,055	\$ 7,650
Net Gain (Loss), year ending Aug. 31	\$ (1,084)	\$ 2,124	\$ (1,010)

APPENDIX H

Entomological Society of Manitoba Report of the ESM Newsletter Committee

In 2006, we have so far produced two of the three issues of Volume 33 of the ESM Newsletter. The winter issue was distributed on January 31, 2006; the spring/summer issue on June 26, 2006; and the fall issue is currently late, but will be out sometime in December 2006. The two published issues contained 14 and 13 pages of text and photographs, respectively. The membership list was appended to the winter issue. A sheet advertising the Annual Meeting and including a call for papers was mailed with the spring/summer issue. The average cost of the first two issues of the Newsletter in 2006 was \$157.07; the budgeted amount was \$150. No supplies were purchased, although \$50.00 was budgeted. The costs of printing and postage have reached the budgeted limit and steps will need to be taken to reduce costs. If we restrict the size of a Newsletter to no more than 5 sheets, or 10 pages, this will reduce costs significantly by dropping Canadian postage from \$.89 to \$.51. This can be accomplished by publishing fewer or shorter articles, or by reducing the font size of some or all of the items.

Recently the production dates of the three issues have been February, June, and October. Because of travel and other commitments of one of the co-editors we would like to modify this to March, July, and November. This will make this fall's issue only slightly late when it is delivered, and will make particularly the winter issue of Volume 34 much easier to get out.

Patricia MacKay
Mahmood Iranpour
Co-editors, ESM Newsletter
November 2006

APPENDIX I

Entomological Society of Manitoba Report of the ESM Social Committee

On Friday, April 7, 2006 the ESM Social Committee hosted a "New Members Bowling Night". The event took place at Garry Lanes with 18 people including one new member in attendance. The admission costs were: ESM members and guests \$12.00, Students \$9.00, and new member(s) were free. This cost covered the three games of bowling, chips, pretzels, bottled water, and pizza. Despite the low turnout the event made a small profit of \$50.00. People could pay to enter the silent auction draw and could win tickets as well with trick shots, high, or low scores, etc. The Social Committee gratefully acknowledges the following sponsors: **Labtronics, Boston Pizza, The Keg, the Elliott Family, the Lafrenière Family, and the Wolfe Family.**

The Committee held one luncheon this past year with Rhéal Lafrenière speaking on *Beekeeping Adventures in Chile*. There were 11 people in attendance. The fact that everyone paid for their own lunch, the only cost incurred was \$7.69 for the speaker's lunch. The Social Committee hopes to continue with the luncheon series and invites the membership to contact the Committee Chair with suggestions and ideas for luncheon speakers and topics.

A banquet was not held this year as the annual ESM Meeting was a one-day event only and Pat and Bob once again graciously hosted the mixer.

NOTES

1. We would recommend dropping the new members' social as it is a **lot** of work for the Social Committee to organize and get prizes for. In fact, if we don't count guests of members' ESM members present totaled only 11 (2 of which are Social Committee members). This is a fun social evening but judging from the turnout (or lack thereof) it is not what the general membership is interested in attending. We welcome comments and suggestions on this matter.
2. Sheila Wolfe will be stepping down from the Social Committee this year. Brent Elliott and Rhéal Lafrenière will remain. They welcome anyone who is interested to join them on this committee.

- Submitted November 16th, 2006. -

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APPENDIX J

Entomological Society of Manitoba Youth Encouragement Committee Report

General Programs

Core programming of the Youth Encouragement Committee (YE) includes insect and spider presentations, and tours of the Department of Entomology. Participants in these programs come from elementary schools, day cares, and youth groups. From November 1, 2005 to October 31, 2006, YE volunteers provided 32 tours or presentations reaching over 1689 students. This represents a notable increase in general programming activity over 2005. This increase was the result of the addition of a program delivery component to the job description for the Department of Entomology's Bugline summer student, Chérie Dugal. A total of 18 of this year's presentations were given over the summer period between early May and late August, a period when it is difficult to mobilize volunteers, but when demand for programming is typically very high.

Special Events

1. Amazing Agriculture Adventures

AAA continues to promote agriculture awareness to urban students in grades 4-6. This year, YE organized one station on apiculture for the Winnipeg event which ran September 12-14. Over 1100 children attended the event. One ESM member, one graduate student and three undergraduate students volunteered at this event.

2. Roland Pumpkin Fair

John Gavloski set up an entomology display at the Roland Pumpkin Fair in Roland, Manitoba on October 7th. This was an excellent initiative that saw over 200 people exposed to entomology in a rural setting.

Fundraising

A total of \$361.00 was raised through donations, the majority of which were donated through groups presented to in the summer months.

Reporting

ESM members who organize insect presentation on their own are encouraged to submit their statistics (date, age and number of students, volunteer names) to the Youth Encouragement Coordinator, so that the full impact of our collective activities can be documented.

Acknowledgements

Thank you to Chérie Dugal, Heather Collins, Katrina Froese, Stacey Miller, Margaret Smith, Pat MacKay, Bob Lamb, John Gavloski, Lars Andreasson, Alicia Leroux, Kim Riley, Sheila Campbell-Wolfe, Christie Borkowsky, and David Wade for assisting with YE programming this year.

Andrea Patenaude
Chair - Youth Encouragement Committee

APPENDIX K

Entomological Society of Manitoba Report of the Archivist

Archives of the Entomological Society of Manitoba are held in the laboratory of Dr. R.E. Roughley in Room 213 Animal Science Building. Presently they are contained in one filing cabinet within that lab.

As always, any item which members of the ESM feel is of historical, archival importance can be submitted to Dr. R.E. Roughley for inclusion in the archives.

Rob Roughley, Chair

APPENDIX L

Entomological Society of Manitoba

Report of the Student Awards and Scholarship Committee

Student Achievement Award

Awarded to a student who is in a Bachelor's degree program or recently completed a program. This award recognizes students who have shown exceptional interest in entomology as evidenced by their insect collections, insect photography, published articles of entomological interest, insect experiments, and/or outstanding contributions during summer employment.

This year's winner is Ms. Candice Grant. Candice is currently in the fourth year of an undergraduate honours degree at the University of Winnipeg in biology and is planning to continue her education as a graduate student in entomology at the University of Manitoba. Candice is completing an undergraduate thesis examining insect diversity in industrial parks, new housing subdivisions, and older established neighbourhoods in Winnipeg in relation to tree density and type. Candice has taken several courses in the Entomology Dept. at the University of Winnipeg and is an active member of the University of Winnipeg Students Biology Club. Candice impressed the Scholarship Selection Committee with her interest in entomology in the classroom and the field, her keen work ethic, and academic proficiency. Candice was also awarded the Orkin/Swat Student Award two years ago which was awarded based in part on her keen interest in entomology.

Orkin/Swat Student Award

This award is designed to foster and encourage student interest in general entomology. Candidates must have a demonstrated interest in entomology, superior scholastic ability, high research potential, and originality and industriousness in their university courses and/or summer work.

This year's winner is Ms. Lara Bates. Lara is completing her last year of an undergraduate honours degree at the University of Winnipeg in biology and will start a Masters project in entomology with Dr. J. Shorthouse at Laurentian University beginning in May 2007. Lara is completing an undergraduate thesis examining the status of the threatened Dakota Skipper in Manitoba. Lara is a summer NSERC undergraduate award winner and has impressed the Scholarship Selection Committee with her interest in entomology in the classroom and the field, her keen work ethic, and academic proficiency. Lara

presented a paper at the 62nd Annual Meeting of the Entomological Society of Manitoba entitled “Influence of prescribed burning and grazing on Dakota skipper, *Hesperia dacotae*, in south eastern Manitoba” which the Committee recognized as a major accomplishment for an undergraduate student.

The ESM Graduate Scholarship

This scholarship is awarded to a student in a M.Sc. or Ph.D. program in entomology at the University of Manitoba. Students must be enrolled in their graduate program for at least 12 months prior to Oct 1st of the award year. This award recognizes superior scholastic ability, high research potential as evidenced by industriousness, good judgment, originality, a conscientious attitude, and organizational ability, and excellent communication skills.

This year’s winner is Ms. Andrea Patenaude. Andrea is currently a M.Sc. candidate in the Dept. of Entomology at the University of Manitoba working under the supervision of Dr. R. Roughley. Andrea received her B.Sc. in 2002 in Conservation Biology and Management from the University of Alberta. Andrea has received many academic awards including both undergraduate and graduate NSERC Research Awards. Andrea’s project is examining wild bee diversity and community structure in mixed-grass prairie ecosystems in Manitoba. Andrea has been active with the Youth Encouragement program within the Dept. of Entomology Graduate Students Association and was the winner of the Student Paper Award at the last two Annual Meetings of the Entomological Society of Manitoba.

Joel Gosselin
Désirée Vanderwel
Richard Westwood (Chair)
November 17, 2006

APPENDIX M

Entomological Society of Manitoba Scientific Programme Committee Report

Due to the forthcoming joint meeting in March of 2007 with the Entomological Society of America-North Central Branch it was decided that an abbreviated scientific meeting would be held in the fall of 2006.

President Lafrenière tasked me with the Chair of the Scientific Program Committee in the spring of 2006. The Committee operated largely in an informal fashion with the members being:

Rhéal Lafrenière – ESM President
 Joel Gosselin - Fundraising
 Sheila Wolfe – Social Committee
 Neil Holliday – Past Chair
 Brent Elliott – Chair

The theme selected for 2006 was Extension Entomology in Western Canada. A call for papers went out in the late summer newsletter 2006 with a title deadline of August 15, 2006. Deadline for submission of abstracts was October 1st, 2006 and most were received by the deadline. All abstracts were received in sufficient time for inclusion in the abstract booklet.

Three guest speakers – Hugh Philip (BCMAF), Scott Meers (AAFRD), and Scott Hartley (SAF) attended and gave excellent presentations during the symposium. There were 11 submitted papers in addition to the symposium speakers, 7 of which were in the student paper competition. Thirty-five members attended the morning and afternoon sessions.

Joel Gosselin again handled the fundraising for the Annual Meeting on behalf of the Society. As per usual, Joel did a stellar job raising more than sufficient funds.

As the meeting was only a single day, the social aspect of the meeting consisted of only the Meet the Speakers mixer. Pat Mackay and Bob Lamb graciously hosted once again, to the delight of everyone in attendance. In an informal survey of members, there seemed to be little disappointment at the absence of a banquet. Attendance at the mixer is generally higher and the presentation of the student paper award was well received in this less formal environment.

The budget for the meeting appears below:

Sponsorship:	\$1400.00 (potentially \$300 more to follow)
Registration:	<u>\$ 615.00</u> (22 regular members; 13 students)
Total income:	\$2015.00 (\$2315)
Expenditures:	<u>\$1360.22</u>
Balance:	<u>\$ 654.78</u>

APPENDIX N

Entomological Society of Manitoba Report of the ESM Membership Committee

At the end of the 2005/06 fiscal year the membership was 121, as compared to 115 at the end of 2004/05: 11 members joined in 2005/06, while 5 members were dropped, to give the net gain of 6 members.

So far this fiscal year (2006-07), 4 new members have joined and 7 members were dropped to leave the ESM with a current membership of 118.

The Committee thanks Ian Wise (Treasurer) for his careful record keeping of the membership.

Désirée Vanderwel, Chair

APPENDIX O

Entomological Society of Manitoba Web Site Report

The Entomological Society of Manitoba operates a website that is hosted through the University of Manitoba. The website contains information about the Society and its committees, dates of meetings, programs for meetings, and provides links to other sources of entomological resources on the web. Copies of the newsletter are posted at the same time that they are released through the traditional mail routes. Electronic copies of the Proceedings up to 2003 are also posted and we hope to have 2004 and 2005 posted shortly. Papers that are published in the proceedings are also available on the site in the form of PDF-reprints. Any suggestions for additions or changes to the website should be forwarded to Rob Currie, Dept. of Entomology, University of Manitoba.

