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GENERAL INTRODUCTION

I would like to begin this year's annual Lepidoptera summary with an apology for the delay in its production. For a variety of reasons, the compilation and production of data from 2003 and 2004 was met with various challenges. Personally, I had a variety of set-backs with the butterfly and skipper section and the original delay in the production of the 2003 summary led to a decision to combine the 2003 and 2004 seasons in one issue. Also among the challenges was the unfortunate inability to obtain a new compiler and editor for moths resulting in the lack of a moth section in this particular issue. I would like to thank both Jason Dombroskie and David Bree for the considerable amount of work they have already done at compiling and editing the data submitted and would invite anyone interested in fulfilling this role to step forward so that we can hopefully get back on track for the moths beginning with Ontario Lepidoptera 2005. Compiling, editing and producing these summaries is a lot of work, but it is also interesting and rewarding work and it would be a real shame not to continue the work of past compilers at summarizing the valuable contributions of so many TEA members who are studying and recording their observations of moths in the province of Ontario.

This year's issue of *Ontario Lepidoptera* includes a number of valuable and interesting notes and articles on butterflies and skippers in the province as well as the printed summary which focuses on noteworthy records for the season. Data for all records of all species received for the year (much more data than can be included in the printed summary!) will be included in two tables available as downloadable PDF files from the TEA website (www.ontarioinsects.org). Members will recall that in Ontario Lepidoptera 2002, these files were located on a CD inserted at the back of the issue. As most members have access to the internet, however, and as these files are relatively small in file size (i.e. are easily downloadable even with a dial-up connection) it was decided that it made more sense to save the added expense of the CD production and simply make the files available via the internet. For any members without access to the internet, simply contact me (contact information below) and I will be more than happy to send you a printed copy of the tables.

The contents of this publication have been checked for errors and accuracy as much as possible. Please notify me of any corrections of errors or omissions, and these will be included in future issues of Ontario Lepidoptera and incorporated into the database.

Work on the compilation and production of Ontario Lepidoptera 2005 has already begun but we will be accepting additional records, notes and photographs from the 2005 season until September 30, 2006. Records and notes or articles for the 2006 season should be submitted by February 28, 2007 to:

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email: colin.jones@mnr.gov.on.ca
or cdjones@csolve.net

Information on how to submit records can be obtained from the compiler – the format is basically the same for butterflies and moths with minor differences.

THE POWER OF DATABASING OUR RECORDS AND HOW YOU CAN HELP

Most people these days have a personal computer at home and use it for record keeping. In order to greatly speed up the process of databasing records submitted for *Ontario Lepidoptera* we are asking that contributors submit records in electronic form, preferably in a spreadsheet (e.g. Microsoft Excel, Corel Quattro Pro) or database (e.g. Microsoft Access, Corel Paradox) format.

There is also a technological advance that has become much more accessible in recent years that has given us the ability to easily assign geographic data to observations (allowing us to easily map them for projects such as *The Ontario Butterfly Atlas*, for example). This is the advent of the hand-held GPS (Global Positioning System). A growing number of field biologists and amateur naturalists and entomologists have GPS units and are finding them an extremely useful and handy tool. For those of you who own or have access to a GPS unit (or to topographic maps of your area) we are also asking that you supply geographic coordinates (UTM grid reference or Latitude/Longitude) with your records. Although these coordinates can be read from a topographic map, with the advent of the handheld GPS unit (available for \$200 or less from most camping and outdoors stores, including Canadian Tire) such coordinates can be obtained much more quickly, easily and accurately than they can from a map.

For those contributors who cannot or wish not to supply records in a database format, records submitted in another electronic format (word-processing application such as Microsoft Word) or even in handwritten format are better than nothing at all. In addition, if you are unable to assign a geographic reference to your records, the raw records are fine. The compilers will enter the records into the database and attempt to geo-reference them ourselves. Obviously, the more you can do as contributors, the easier our job as compilers becomes.

There are several reasons for moving to such a format for data submission. Increasingly, data on invertebrates (especially butterflies, dragonflies and damselflies) is being used to aid in conservation land-use planning. Most of this readership would probably agree that this is a very positive movement. The TEA and the contributors to the annual Lepidoptera summary have an opportunity, by databasing their records and attaching precise geographic coordinates to the records, to add greatly to the conservation of butterflies and moths. The power of a fully databased set of records is incredible. The records can easily be sorted or manipulated in any number of ways in order to: i) produce a county list; ii) map all of the records for a particular species; iii) compare records from one time frame to another (e.g. 1800-1950 with 1951-present). In these ways, once fully databased, the application of the database becomes much more useful than just the production of the annual summary.

More detailed information on how to submit records (including how to supply geographic coordinates), and a sample of the database structure can be obtained by contacting the compiler (see contact information on page 1).

ACKNOWLEDGEMENTS

Ontario Lepidoptera would not be possible without the considerable effort of the contributors (listed on the next page) who take the time to submit their records each year. We would also like to thank those who submitted photographs, notes and articles from 2003 and 2004. Special thanks to Peter Burke for providing the terrific cover illustration.

CORRECTIONS TO PREVIOUS SUMMARIES

Ontario Lepidoptera 2002

On Page 51 – Mexican Yellow (*Eurema mexicanum*) was accidentally omitted from the Checklist of Ontario Butterflies and Skippers

On Page 52 – Cranberry Blue (*Plebejus optilete*) should not have been included in the Checklist of Ontario Butterflies and Skippers since the specimen that was the basis for this record (housed at the Royal Ontario Museum) was examined by Barry Harrison and Bob Yukich and redetermined as a Northern Blue (*Plebejus idas*)

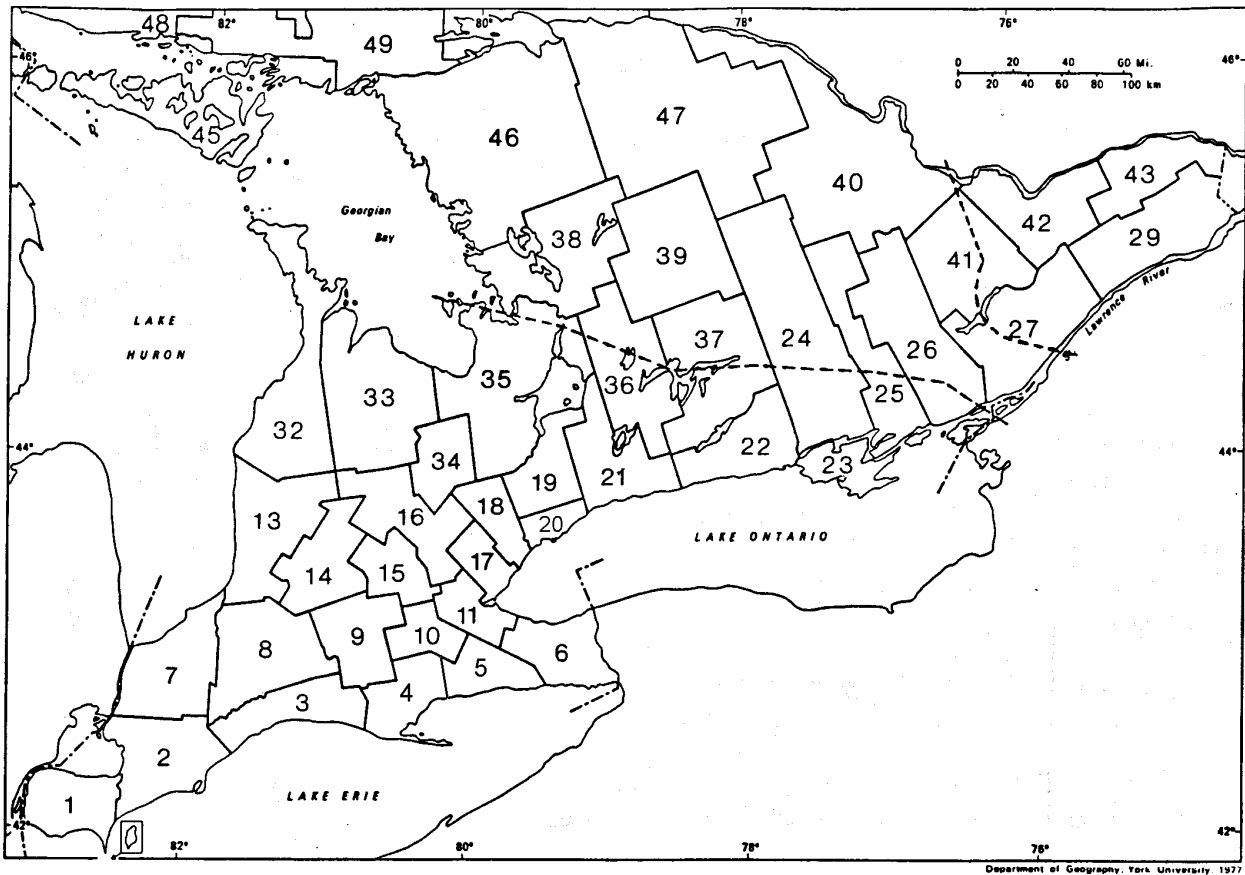
LIST OF CONTRIBUTORS

Ontario Lepidoptera 2003/2004 summarizes data and observations of butterflies and skippers for the 2003 and 2004 seasons in the province of Ontario, Canada, received from the contributors and observers listed below:

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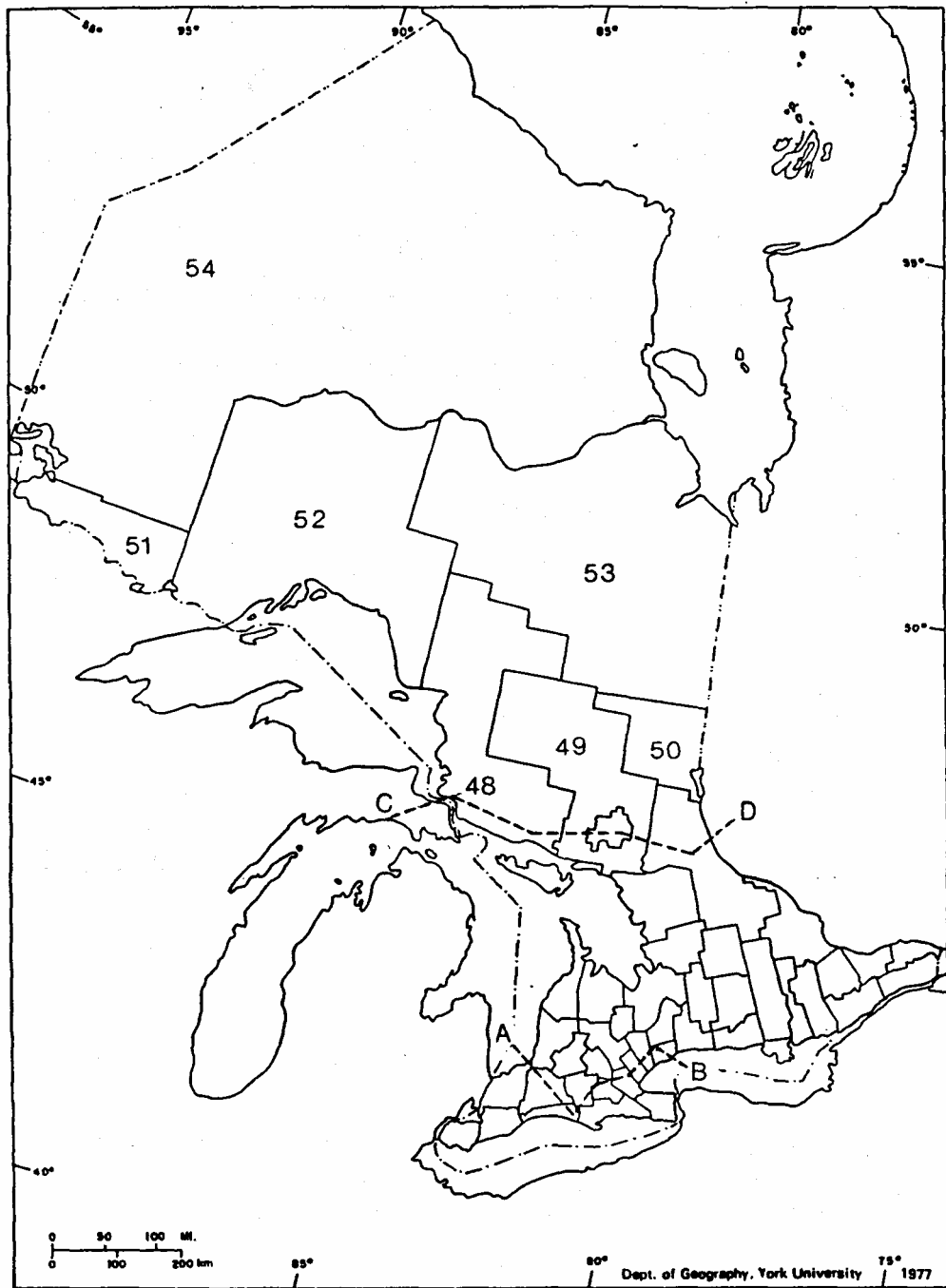
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JL	Jeff Larson	Harrow	RFF	Rob Foster	Thunder Bay
JM	John Miles	Jarvis	RGT	Ron G. Tozer	Dwight
JMF	Janet Fenton	Charleston Lake	RH	Rosemary Hartley	Nipigon
JoBr	John Brownie		RJP	Rod and Joan Parrott	Port Hope
JOP	James Page	Charleston Lake	RJY	Robert J. Yukich	Toronto
JPC	Jeffrey P. Crolla	Toronto	RMac	R. Macintosh	Peterborough
JS	John Striatt		RO	Robert Oldham	Peterborough
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MNP	Michael & Nancy van der Poorten	Toronto		C.A. = Conservation Area	
MP	Mike Pickup	Southampton		m.obs. = multiple observers	
MRa	Mary Rapati	Port Elgin		N.P. = National Park	
MV	Mari Veliz	Exeter		P.P. = Provincial Park	

COUNTIES, DISTRICTS AND REGIONAL MUNICIPALITIES OF ONTARIO



Counties, Districts and Regional Municipalities of southern Ontario. The dotted line indicates the approximate southern and eastern limits of the Canadian Shield in Ontario. The 4-letter codes listed below are used in the table of all butterfly records submitted from the 2003 and 2004 seasons.

1	ESSE	Essex County	23	PRIN	Prince Edward County
2	KENT	Municipality of Chatham-Kent	24	HAST	Hastings County
3	ELGI	Elgin County	25	LENN	Lennox and Addington County
4	NORF	Norfolk County	26	FRON	Frontenac County
5	HALD	Haldimand County	27	LEED	United Counties of Leeds and Grenville
6	NIAG	Regional Municipality of Niagara	29	STOR	United Counties of Stormont, Dundas and Glengarry
7	LAMB	Lambton County	32	BRUC	Bruce County
8	MIDD	Middlesex County	33	GREY	Grey County
9	OXFO	Oxford County	34	DUFF	Dufferin County
10	BRAN	Brant County	35	SIMC	Simcoe County
11	HAMI	Regional Municipality of Hamilton-Wentworth	36	VICT	Victoria County
13	HURO	Huron County	37	PETE	Peterborough County
14	PERT	Perth County	38	MUSK	District Municipality of Muskoka
15	WATE	Regional Municipality of Waterloo	39	HALI	Haliburton County
16	WELL	Wellington County	40	RENF	Renfrew County
17	HALT	Regional Municipality of Halton	41	LANA	Lanark County
18	PEEL	Regional Municipality of Peel	42	OTTA	Regional Municipality of Ottawa-Carleton
19	YORK	Regional Municipality of York	43	PRES	United Counties of Prescott and Russell
20	METR	Metropolitan Toronto	45	MANI	Manitoulin District
21	DURH	Regional Municipality of Durham	46	PARR	Parry Sound District
22	NORT	Northumberland County	47	NIPI	Nipissing District



Map of Ontario indicating the districts of northern Ontario. The line A-B represents the approximate northern limit of the Carolinian Zone (see Soper 1954, 1962). Line C-D approximates the 40 degree F mean daily temperature for the year isotherm, and has been adopted here as the northern limit of southern Ontario. The 4-letter codes listed below are used in the table of all butterfly records submitted from the 2003 and 2004 seasons.

- | | | | | | |
|----|------|--|----|------|----------------------|
| 48 | ALGO | Algoma District | 52 | THUN | Thunder Bay District |
| 49 | SADB | Sudbury District (including City of Sudbury) | 53 | COCH | Cochrane District |
| 50 | TIMI | Timiskaming District | 54 | KENO | Kenora District |
| 51 | RAIN | Rainy River District | | | |

PUBLICATIONS AVAILABLE FROM THE TEA

Books: reproductions of out-of-print books

The Odonata of Canada & Alaska (3 volumes) by E.M. Walker
\$210 Can (\$195 for TEA members who pick it up); In USA: \$160 US surface; \$170 US airmail

The Cicindelidae of Canada (tiger beetles) by J.B. Wallis (1961) with colour plates
\$28 Can; In USA: \$23 US surface; \$26 US airmail

The North American Dragonflies of the Genus Aeshna by E.M. Walker (1921) with colour plates
\$115 Can (\$105 for TEA members who pick it up); In USA: \$100 US surface; \$110 US airmail

The North American Dragonflies of the Genus Somatochlora by E.M. Walker (1925)
\$55 Can (\$50 for TEA members who pick it up); In USA: \$43 US surface; \$46 US airmail

Books: Other publishers

Damselflies and Dragonflies (Odonata) of Ontario: Resource Guide and Annotated List
By P.M. Catling and V.R. Brownell 2000. Annotated list of 168 species of odonata in Ontario including conservation status, flight period, habitat, distribution and identification. \$40 Can; In USA: \$50 US.

Books: T.E.A. publications

The Ontario Butterfly Atlas by A.M. Holmes, R.R. Tasker, Q.F.Hess, A.J.Hanks (1991)
ISBN: 0921631111 \$25 Can; In USA: \$25 US

Ontario Insects – T.E.A. Newsjournal ISSN: 1203-3995
Back Issues: \$5 Can each; In USA: \$5 US; Subscription: \$25 Can; In USA: \$25 US

Annual Ontario Lepidoptera Summaries
(for 1987, '88, '93, '95 to 2001) \$10 Can each; In USA: \$10 US surface; \$15 US airmail
(for 2002) \$15 Can each; In USA: \$15 US surface post; \$20 US airmail
(yearly issue free with T.E.A. membership)

Ontario Odonata (annual)

This publication includes the year's Odonata observations and several articles and notes on the Odonata of Ontario. Past issues have included articles on behaviour, distribution, regional checklists, conservation and illustrated keys. \$25 Can each; In USA: \$25 US each

Volume 1 (1999) ISBN: 0921631219 June 2000 153 pages

Volume 2 (2000) ISBN: 0-921631-22-7 May 2001 200 pages

Volume 3 (2001) ISBN: 0921631243 May 2002 208 pages

Volume 4 (2002) ISBN: 0-921631-27-8 January 2004 214 pages

Volume 5 (2003) ISBN: 0-921631-28-6 November 2004 145 pages

Volume 6 (2004) ISBN: 0-921631-30-8 July 2005 202 pages

Checklist of the Butterflies of the Toronto Region: 135 years of history (Second edition)

Includes flight seasons. Compiled by Barry Harrison. \$2.50 Can; In USA: \$3 US

For complete details and to order contact:

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