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APPENDICES

Appendix A

WEST NILE VIRUS WEEK CODES FOR 2002

*** Week includes dates from Sunday to Saturday**

Week Number	Dates Included
21	May 19-May 25
22	May 26-June 1
23	June 2-June 8
24	June 9-June 15
25	June 16-June 22
26	June 23-June 29
27	June 30-July 6
28	July 7-July 13
29	July 14-July 20
30	July 21-July 27
31	July 28-Aug 3
32	Aug 4-Aug 10
33	Aug 11-Aug 17
34	Aug 18-Aug 24
35	Aug 25-Aug 31
36	Sept 1-Sept 7
37	Sept 8-Sept 14
38	Sept 15-Sept 21
39	Sept 22-Sept 28
40	Sept 29-Oct 5
41	Oct 6-Oct 12
42	Oct 13-Oct 19
43	Oct 20-Oct 26
44	Oct 27-Nov 2



West Nile Virus in the Region of Peel 2002

Appendix B

Dead Bird Surveillance for West Nile Virus by Health Unit, Ontario, 2002

Region	First Positive Bird Found	Last Positive Bird Found	Total Positive
Algoma	19-Jul-02	26-Sep-02	9 (confirmed)
Brant	16-Jul-02	26-Aug-02	7 (confirmed)
Chatham-Kent	12-Jun-02	05-Aug-02	11 (confirmed)
Durham	22-Jul-02	07-Aug-02	5 (confirmed)
Eastern Ontario	25-Jul-02	01-Aug-02	4 (confirmed)
Elgin-St. Thomas	30-Jul-02	09-Aug-02	6 (confirmed)
First Nations (near Brant)	02-Oct-02	07-Oct-02	2 (confirmed)
Grey Bruce	25-Jul-02	15-Aug-02	3 (confirmed)
Haldimand-Norfolk	12-Jul-02	08-Aug-02	5 (confirmed)
Haliburton-Kawartha-Pine Ridge	18-Jul-02	06-Aug-02	5 (confirmed)
Halton	15-Jun-02	13-Aug-02	14 (confirmed)
Hamilton	12-Jul-02	09-Oct-02	18 (confirmed)
Hastings-Prince Edward	06-Aug-02	22-Aug-02	12 (confirmed)
Huron	19-Jul-02	18-Aug-02	5 (confirmed)
Kingston, Frontenac, Lennox and Addington	06-Aug-02	21-Aug-02	11 (confirmed)
Lambton	17-Jul-02	06-Aug-02	8 (confirmed)
Leeds-Grenville-Lanark	26-Jul-02	03-Oct-02	5 (confirmed)
Middlesex-London	17-Jun-02	06-Aug-02	15 (confirmed)
Muskoka-Parry Sound	17-Jul-02	06-Sep-02	4 (confirmed)
Niagara	11-Jul-02	06-Aug-02	11 (confirmed)
North Bay	26-Aug-02	26-Aug-02	1 (confirmed)
Northwestern	08-Aug-02	18-Sep-02	3 (confirmed)
Ottawa	23-Jul-02	07-Aug-02	4 (confirmed)
Oxford	04-Jun-02	06-Aug-02	7 (confirmed)
Peel	19-May-02	25-Oct-02	20 (confirmed)
Perth	02-Jul-02	03-Aug-02	8 (confirmed)
Peterborough	N/A	22-Aug-02	4 (confirmed)
Porcupine	01-Sep-02	01-Sep-02	1 (confirmed)
Renfrew	25-Jul-02	30-Sep-02	4 (confirmed)
Simcoe	02-Aug-02	29-Oct-02	21 (confirmed)
Sudbury	30-Aug-02	26-Sep-02	2 (confirmed)
Thunder Bay	31-Jul-02	30-Sep-02	4 (confirmed)
Toronto	03-Jul-02	24-Aug-02	8 (confirmed)
Waterloo	10-Jul-02	09-Oct-02	12 (confirmed)
Wellington-Dufferin-Guelph	19-Jul-02	05-Aug-02	5 (confirmed)
Windsor-Essex	18-Jun-02	07-Aug-02	9 (confirmed)
York	15-Jul-02	31-Jul-02	8 (confirmed)
ONTARIO TOTAL			281 confirmed

Data as of April 30, 2003.

Source: Ontario Ministry of Health and Long-Term Care. (See internet site: http://www.health.gov.on.ca/english/providers/program/pubhealth/westnile/wny_02/wny_birds.html).



West Nile Virus in the Region of Peel 2002

Appendix C

Adult Mosquito Surveillance for West Nile Virus by Health Unit, Ontario, 2002

Region	First Positive Pool Found	Last Positive Pool Found	Total Positive Pools
Brant	September 18, 2002	September 19, 2002	2
Chatham-Kent	July 23, 2002	September 5, 2002	11
Durham	August 14, 2002	September 18, 2002	13
Eastern Ontario	July 23, 2002	August 12, 2002	2
Haldimand-Norfolk	August 15, 2002	September 12, 2002	6
Haliburton-Kawartha-Pine Ridge	August 29, 2002	August 29, 2002	1
Halton	July 24, 2002	September 17, 2002	72
Hamilton	July 25, 2002	September 11, 2002	11
Hastings-Prince Edward	August 29, 2002	August 29, 2002	1
Middlesex-London	August 1, 2002	October 10, 2002	22
Niagara	July 30, 2002	September 20, 2002	15
Oxford	July 25, 2002	September 12, 2002	18
Peel	June 20, 2002	October 1, 2002	132*
Perth	July 30, 2002	August 28, 2002	4
Peterborough	August 29, 2002	September 5, 2002	3
Simcoe	September 4, 2002	September 5, 2002	3
Toronto	July 23, 2002	October 1, 2002	175
Waterloo	July 31, 2002	September 25, 2002	12
Wellington-Dufferin-Guelph	August 22, 2002	August 22, 2002	1
Windsor-Essex	July 23, 2002	October 1, 2002	80
York	July 10, 2002	September 25, 2002	14
ONTARIO TOTAL			598

* Total of 132 includes two pools belonging to Toronto and two pools for which site, date and number of mosquitoes data could not be reconciled.

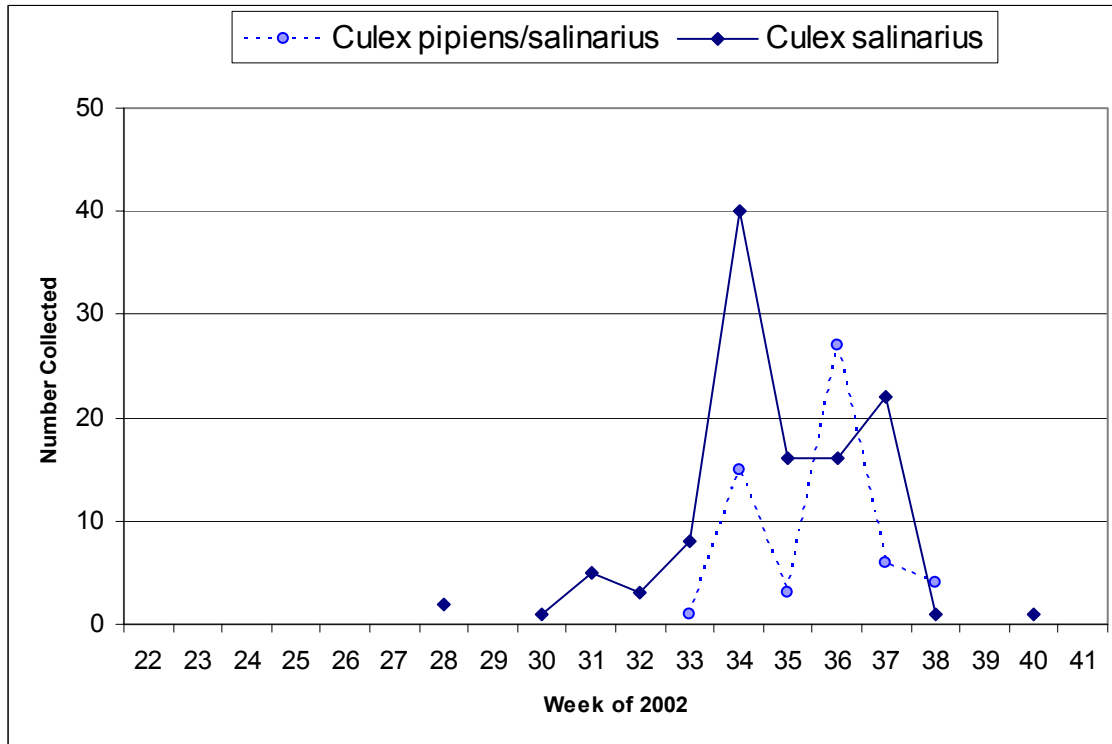
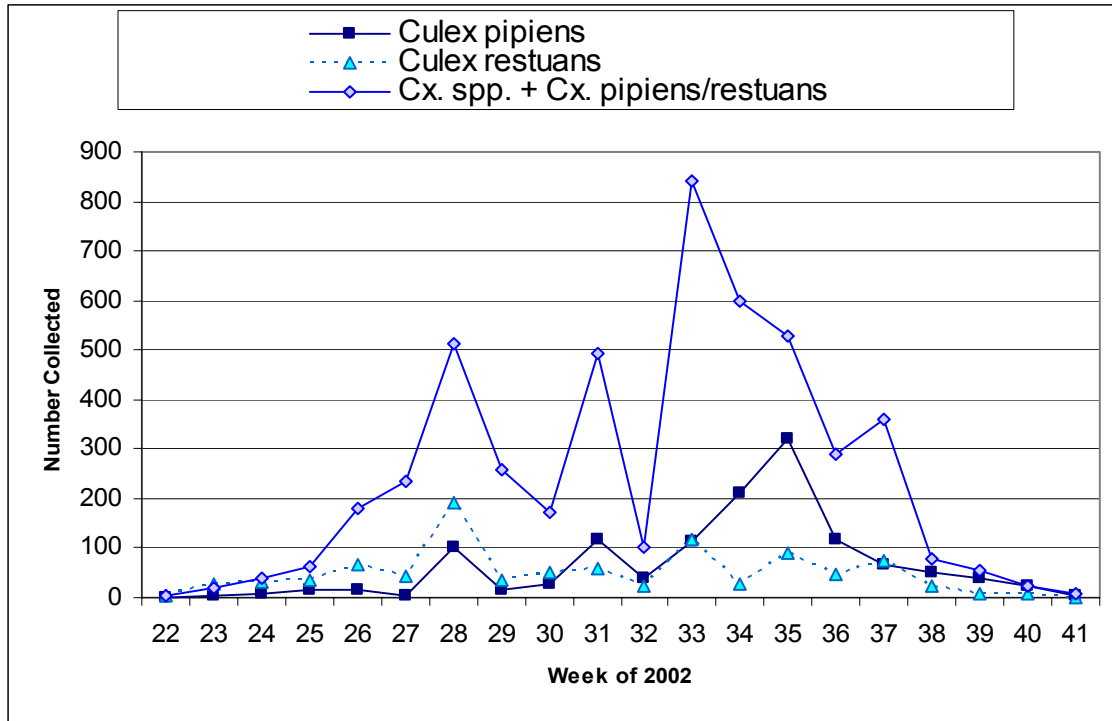
Data as of April 30, 2003.

Source: Ontario Ministry of Health and Long-Term Care. (See internet site:

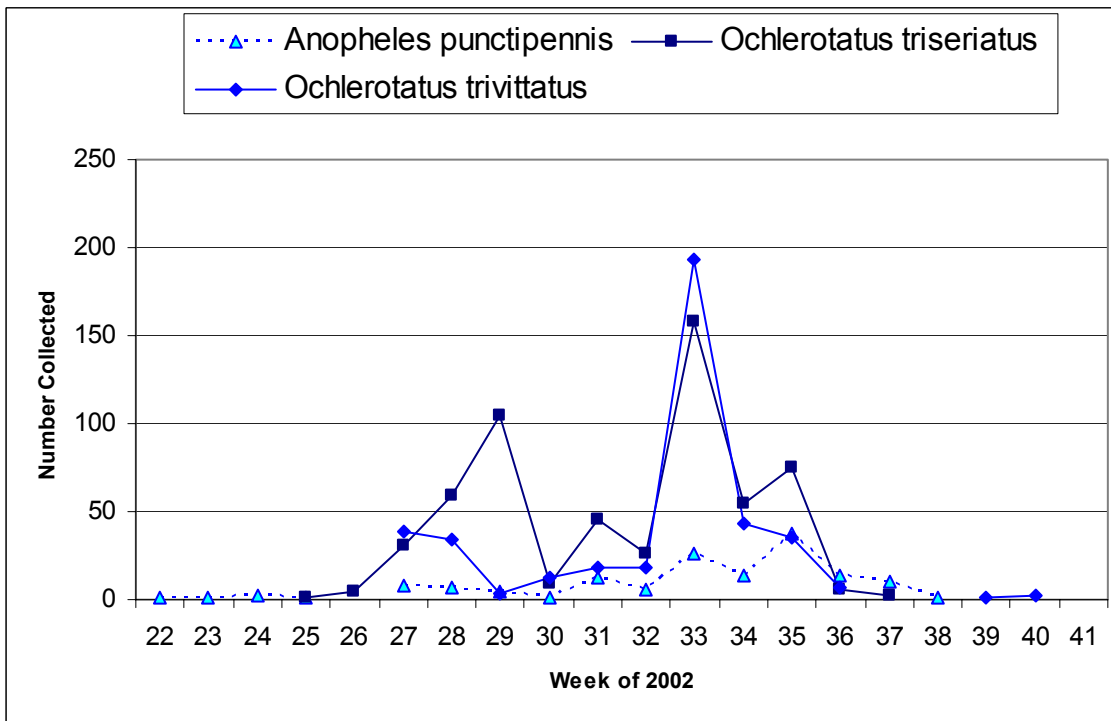
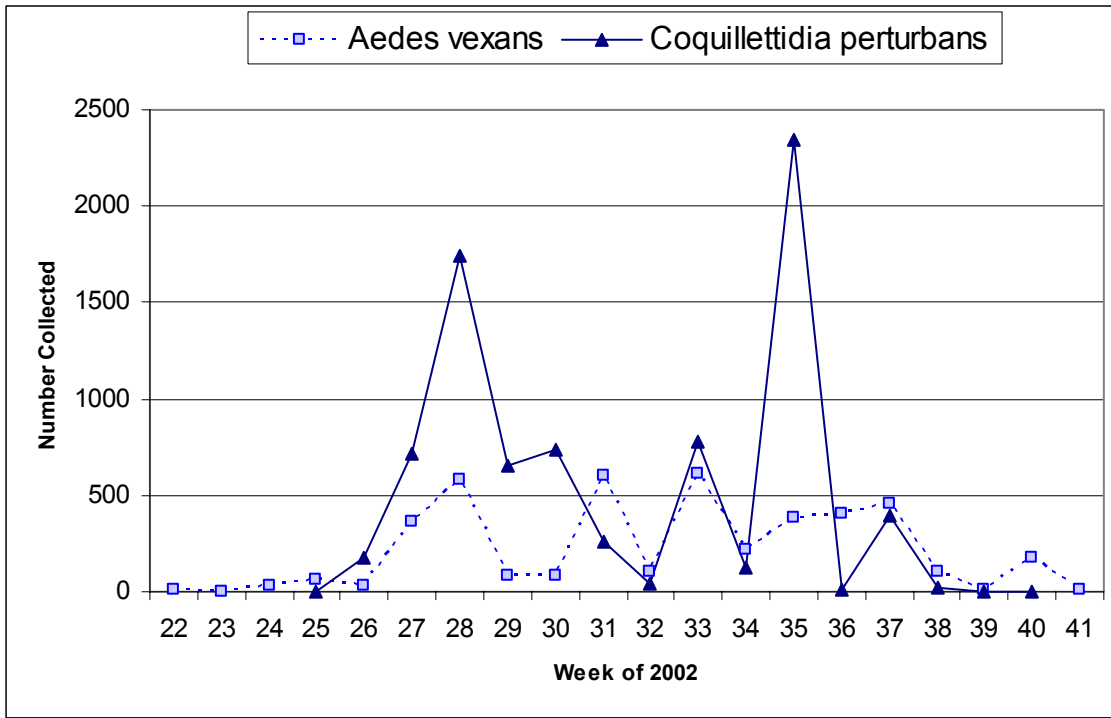
http://www.health.gov.on.ca/english/providers/program/pubhealth/westnile/wnv_02/wnv_mosquitoes.html).



Appendix D
Mosquito Activity Among WNV-Positive Species, Region of Peel, 2002



West Nile Virus in the Region of Peel 2002



Appendix E
Human Case Definitions used in the Region of Peel, 2002

The following are the case definitions for "Probable" and "Confirmed" West Nile Virus (WNV) cases used by the Ontario Ministry of Health and Long-Term Care in 2002. (See internet site:

http://www.health.gov.on.ca/english/providers/program/pubhealth/westnile/wnv_02/wnv_humans.html)

Probable Case

A person who has symptoms and history consistent with WNV illness, and who has laboratory tests demonstrating a four-fold or greater change in haemagglutination inhibition or enzyme-linked immunosorbent assay (ELISA) titres in paired acute and convalescent sera.

Confirmed Case

A person who has symptoms and history consistent with WNV illness, and who has laboratory tests demonstrating:

(a) a four-fold or greater change in haemagglutination inhibition or enzyme-linked immunosorbent assay (ELISA) titres in paired acute and convalescent sera with confirmation by a Plaque Reduction Neutralizing Test (PRNT),

or

(b) isolation of WNV from or demonstration of WNV antigen or genomic sequences in tissue, blood, cerebrospinal fluid, or other body fluid. Detection of WNV genome should be shown by at least two different amplification assays that target distinct regions of the viral RNA,

or

(c) demonstration of IgM antibody to WNV in CSF by IgM-capture ELISA with confirmation by a PRNT.



West Nile Virus in the Region of Peel 2002

Appendix F

Human Case Surveillance for West Nile Virus by Health Unit, Ontario, 2002

Region	Total Probable Cases	Total Confirmed Cases
Brant	0	1
Chatham-Kent	1	2
Durham	1	2
Grey Bruce	0	1
Haldimand-Norfolk	0	3
Halton	3	57
Hamilton-Wentworth	4	8
Lambton	1	1
Middlesex-London	3	6
Muskoka-Parry Sound	0	1
Niagara	3	16
Peel	20	38*
Perth	0	1
Toronto	44	127
Waterloo	0	3
Windsor	3	35
York Region	4	6
ONTARIO TOTAL	87	308

* The total of 38 confirmed cases includes one case found to belong to Halton Region.

Data as of April 30, 2003.

Source: Ontario Ministry of Health and Long-Term Care. (See internet site:

http://www.health.gov.on.ca/english/providers/program/pubhealth/westnile/wnv_02/wnv_humans.html)



Glossary of Terms

Ataxia: difficulty coordinating movement or body functions ³⁷

Encephalitis: inflammation of the brain ³⁷

Flavivirus: the genus in which the WNV is classified. WNV is a single-stranded RNA virus of the family *Flaviviridae* ¹⁸

Host: an animal or plant having received a parasite which then resides within the animal or plant ³⁷

Instar: stage in life of an insect, including shedding or casting off of outer skin or shell ³⁷

Malaise: bodily discomfort, especially without development of a specific disease ³⁷

Meningitis: inflammation of the lining of the brain or spinal cord ³⁷

Meningoencephalitis: inflammation of brain, lining of the brain or spinal cord ³⁷

Myalgia: muscle soresness or pain ³⁷

Neuropathogen: an agent which causes disease of the nervous system ³⁷

Sepsis: blood poisoning ³⁷

Seroprevalence: testing blood for the presence or absence of an antibody within the blood. When a person has been exposed to a virus, their immune system will create antibodies to try to combat the virus ²⁸

Vector: carrier of disease or infection from one organism to another ³⁷

