

**TOWNSHIP OF BLOOMFIELD**  
**Oakland County, Michigan**  
**GYPSY MOTH RISK ASSESSMENT REPORT**

**September 2018**

**Prepared by the**

**national gypsy moth management group**  
**a Division of BioBase Technologies, Inc.**  
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## Abstract

Gypsy moth infestations within portions of Oakland County and within the boundaries of Bloomfield Township are on the rise. Risk assessment surveys in Bloomfield Township show gypsy moth population have increases in density, yet decreased in distribution. Overall, the average egg mass density for the entire managed area increased from 8 EMA (Egg Masses/Acre) to 23.7 EMA that will hatch in the spring of 2019. The number of risk assessment survey plots with new viable egg masses was reduced from 43 to 33. The highest density infestation observed within the township, 3,320, is located in section 9 at 234 Hickory Grove Rd. The highest infestation that hatched in the spring of 2018 was 400 EMA. A deficit of rains in mid to late June appears to have decreased the potency of the *E. maimaiga* treatments, and other natural viruses and pathogens that attack gypsy moth caterpillars, stimulating populations to increase dramatically in several treatment sites. Rainfall in mid-to late June aid in the effectiveness of the *E. maimaiga*. This is the crucial time that the caterpillars are most susceptible to fungal infections. According to weather.com the total precipitation recorded in Bloomfield Hills in the month of June 2018, was 0.62 inches. The historic average amount of total rainfall recorded in Bloomfield Hills in the month of June is 3.16 inches. Despite this population growth the gypsy moth populations remain manageable within the Township. Significant impacts associated with gypsy moth are not likely to be widespread throughout all portions of the Township during the spring/summer of 2019. However, moderate defoliation and nuisance associated with dense populations of caterpillars and their excrement may occur in focal areas of infestation. In addition, the infestation is likely to expand numerically and in distribution in the absence of effective and timely controls and adequate late spring and early summer rain. Despite an increase in gypsy moth populations, pest management objectives were achieved in 2018: no defoliation associated with hundreds of caterpillars and their excrement was observed or reported.

It is important to remember that gypsy moth is a cyclic pest and cannot be eradicated. In the past, multiple years of low population levels have preceded years of high and even outbreak levels. A continuation of the gypsy moth management and gypsy moth risk assessment and consultation program is recommended for 2019 and is provided for in the current contract.

## Introduction

The Township of Bloomfield contracted with the National Gypsy Moth Management Group (NGMMG) to implement an Integrated Pest Management (IPM) program against the gypsy moth early in 1993. This action was in response to gypsy moth outbreaks in the Township. The IPM program has utilized the following components: intensive biological monitoring of gypsy moth populations, targeted and timely application of safe biological insecticides only when and where

needed, release of gypsy moth natural enemies, and the fostering of public awareness. The program objectives are to minimize gypsy moth induced defoliation, tree mortality, and severe nuisance associated from high numbers of caterpillars and their excrement.

The following sections of this report describe the 2018 IPM program. The risk assessment results are presented along with recommendations for gypsy moth management strategies in 2019.

### ***Integrated Pest Management Activities 2018***

Inoculation of the Fungus, *E. maimaiga*. Fungal inoculations were made at 21 sites. Each site represented the highest gypsy moth infestation in the Township and had the potential to induce defoliation, tree damage and nuisance associated with caterpillars and their excrement. The inoculum was prepared at the NGMMG laboratory in Landisburg, PA. Approximately  $9 \times 10^5$  fungal resting spores per site were inoculated on May 8, 2018 with Township employee Cory Borton. This is part of an on-going investigation to document the influence of *E. maimaiga* on gypsy moth populations in suburban areas.

Gypsy Moth Risk Assessment Survey Surveys of new egg masses, those that will hatch in 2019, were completed in early September at several hundred plots. Spot-checks in areas surrounding survey plots were made to ensure that the data obtained are representative. Other data such as egg mass size and parasitism were collected to evaluate the general health of the population. The map on page 8 shows the approximate location of plots. These biological data provide the basis to evaluate previous control programs, to assess risk, and to develop recommendations for the upcoming spring season. Egg mass data from two previous years are included for comparison.

Ground-based Spraying Individual trees were sprayed by truck –mounted units at risk assessment survey plot 08-10 (Opposite 2765 Ayshire Dr. in tree line along golf course.)

The Davey Tree Expert Company conducted the treatments on June 1, 2018 under the direction of the Township.

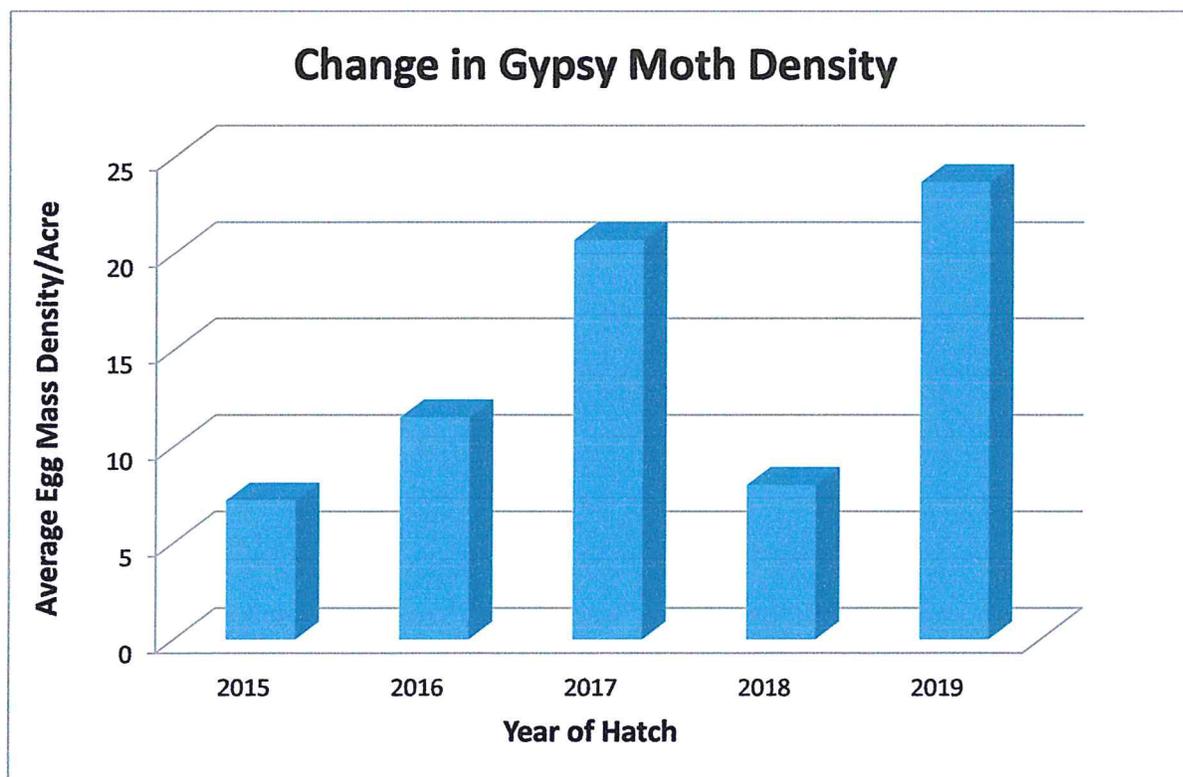
### **Results**

Data collected during the 2018 surveys indicate an increase in gypsy moth population. Overall, the average egg mass density for the entire managed area increased from 8 EMA (Egg Masses/Acre) to 23.7 that will hatch in spring 2019. The number of focal areas of infestation decreased from 43 to 33. The highest density infestation observed within the township, 3,320

EMA, is located in section 9 at 234 Hickory Grove Rd. The highest infestation that hatched in the spring of 2018 was 400 EMA. Five risk assessment survey plots maintain gypsy moth populations of 400 or more EMA and qualify for targeted ground based spraying in the spring of 2019. Most new egg masses are small to moderate in size and contain 400 – 700 eggs/mass. No defoliation and/or nuisance associated by hundreds/thousands of caterpillars and their excrement were observed and only one call was received by the township officials in regards to gypsy moth caterpillars on a residences property.

The egg parasite *Ooencyrtus kuvanae* was observed and is likely to kill ca. 5% of the eggs.

The following graph illustrates the gypsy moth population trend in Bloomfield Township over a 5 year period.



The computer generated maps on pages 9 and 10 show the distribution and severity of infestation. Circles show the locations of survey plots where egg masses were found: the larger the circle, the higher the density of gypsy moth egg masses. One map shows egg masses that hatched in the spring of 2018 and the other shows those that will hatch in the spring of 2019. Comparison of these maps clearly shows how the infestations have changed in one year. In

addition, gypsy moth density for all risk assessment plots is presented beginning on page 11. Data from the two previous years are shown for comparison.

Influence of Fungal Inoculations Fungal inoculations were implemented at 21 sites that maintained the highest density infestations in the Township. A deficit of rains in mid to late June appears to have decreased the effectiveness of the *E. maimaiga* treatments, and other natural viruses and pathogens that attack gypsy moth caterpillars, stimulating populations to increase dramatically in several treatment sites. Rainfall in mid-to late June aid in the potency of the *E. maimaiga*. This is the time that the caterpillars are most susceptible to fungal infections. According to weather.com, the total precipitation recorded in Bloomfield Hills in the month of June 2018, was 0.62 inches. The historic average amount of total rainfall recorded in Bloomfield Hills in the month of June is 3.16 inches. Despite unfavorable climatic conditions, gypsy moth populations decreased and or did not increase in 13 of the 21 treatment sites.

A table of all treated focal areas of infestation is presented below.

**Influence of fungal treatments on focal areas of gypsy moth infestation – 2018\***

Plot #	Pre EMA	Post EMA	Address
03-03	120	0	Somerset Rd 2213
04-06	80	80	N. Berkshire Rd., 180
06-12	80	80	Ward Rd, 1815
07-06	120	40	Long Point Dr. 1875 lft crnr of bkyd
08-10	400	40	Ayshire Dr. 2775, opp., in tree line
08-11	320	40	Ayshire Dr. edge of golf crse
09-11	120	3,320	Hickory Grove Rd. 234 frnt
10-03	120	200	Colonial Way 2623, Lft edge of DW
11-02	120	120	Eastways Rd, 75' S of Fox Hall Rd,
12-13	160	40	Vhay Ln 2625

12-16	200	40	Lenox Rd. 1145
12-27	80	80	Squirrel Rd. 2700
16-08	80	0	Long Lake Rd.X Shallowbrook.NE crnr
20-27	80	0	Forest Way 5051
24-12	200	560	Charing Cross Rd. 4525
28-04	240	560	Quarton Rd. 3935
28-20	160	280	Lasher Rd., opp. Burning Bush Rd
29-10	80	3,120	Crabtree Rd., opp. Lantern Ln., bhd mlbxs
29-18	80	0	Thurber Rd. 6285
31-05	240	1,560	Franklin Rd., opp. to St. Owen Rectory
32-01	80	120	Stony River Dr., 4424
Average	154.3 EMA	506.7 EMA	

### **The Outlook for 2019: Predicted Effects of Infestation**

Gypsy moth populations have increased and increased exponentially in some locations. Despite this population growth the gypsy moth populations remain manageable within the Township. Significant impacts associated with gypsy moth are not likely to be widespread throughout all portions of the Township during the spring/summer of 2019. However, moderate defoliation and nuisance associated with dense populations of caterpillars and their excrement may occur in focal areas of infestation. In addition, the infestation is likely to expand numerically and in distribution in the absence of effective and timely controls and adequate late spring and early summer rain. Some tree mortality may develop as a result of gypsy moth feeding and the impact of stress from compaction, disease, other insects and drought from previous years. Many of the large oaks, particularly white oaks, are stressed and exhibit significant branch dieback.

Fungal inoculations and ground based spraying should reduce those negative impacts in 2019.

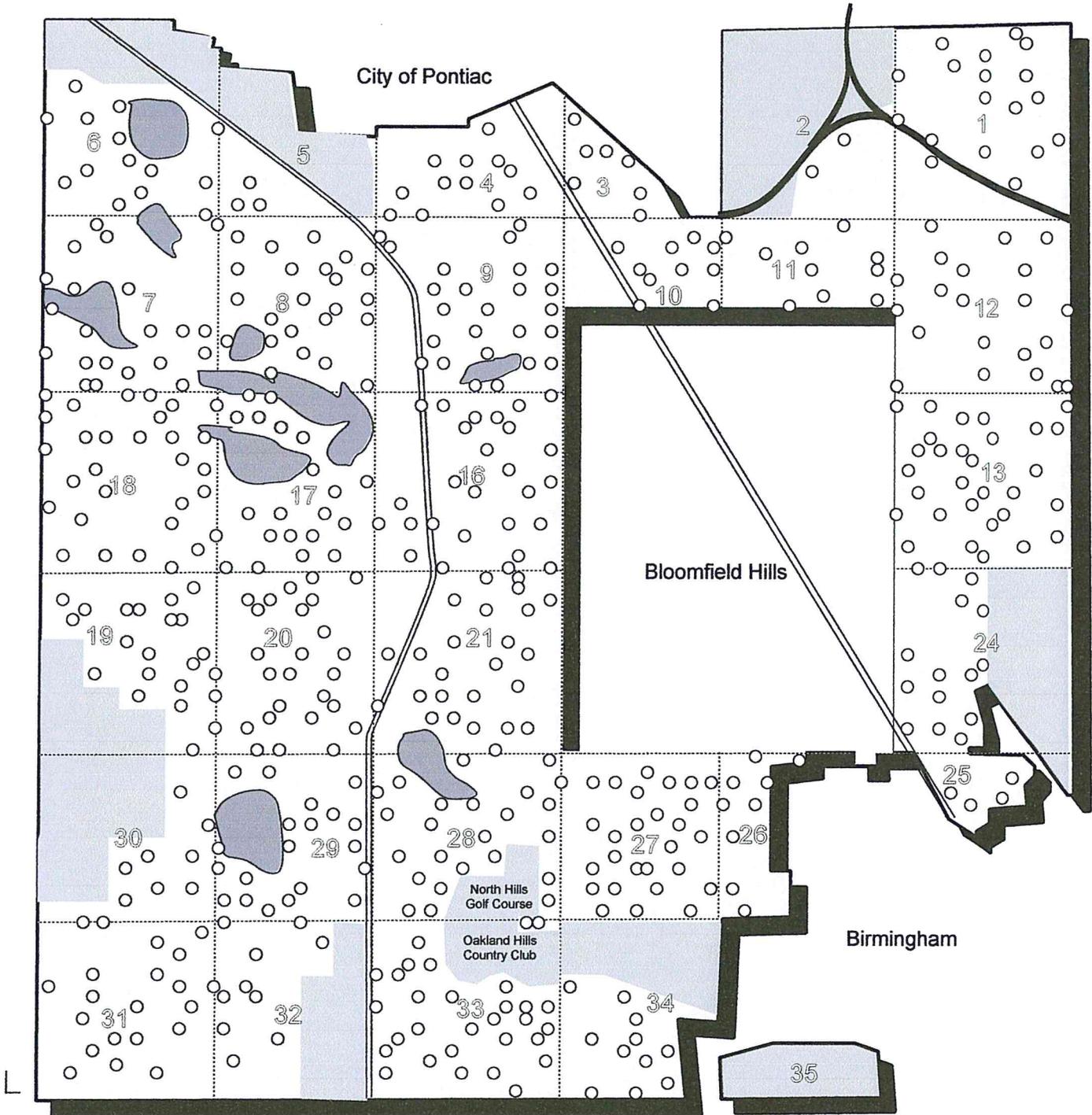
### Recommendations for 2019

1. Release of *Entomophaga maimaiga* Fungus should be released at 20 focal areas of infestation that maintain 80 EMA or more at an inoculation rate of  $9 \times 10^5$  resting spores/sites. This strategy represents a continuation of a biological control approach. Rainfall in late spring and early summer will stimulate fungal infection. This program is part of an investigation to document the influence of *E. maimaiga* on gypsy moth populations in suburban areas.
2. Ground-Based Spraying. Spray risk assessment survey plots 09-11 (234 Hickory Grove Rd.), 24-12 (4525 Charing Cross Rd.), 28-04 (3935 Quarton Rd.), 29-10 (Crabtree Rd. opposite Lantern Ln, behind Mailboxes) and 31-05 (Franklin Rd, opposite St. Owen Rectory), with *Bacillus thuringiensis* at the rate of 36 BIU/acre when caterpillars are ¼ to ½” long in mid-May 2019. These sites maintain gypsy moth populations of 400 EMA or more. The Township should contract with commercial pesticide applicator.
3. Aerial Spraying. Not recommended.
4. Risk Assessment Surveys and Consultation. Surveys should be conducted at all plots in late summer 2019 to observe gypsy moth egg mass density, size, and condition. This information will be used to monitor year to year changes, and to determine where control measures may be required in 2020. Intense population monitoring is still the only reliable basis for assessing the risk from gypsy moth infestations.

### Cost for 2019

All costs except the ground-based spraying are covered in the current fixed cost contract for 2019.

# BLOOMFIELD TOWNSHIP Gypsy Moth Risk Assessment Plot Locations



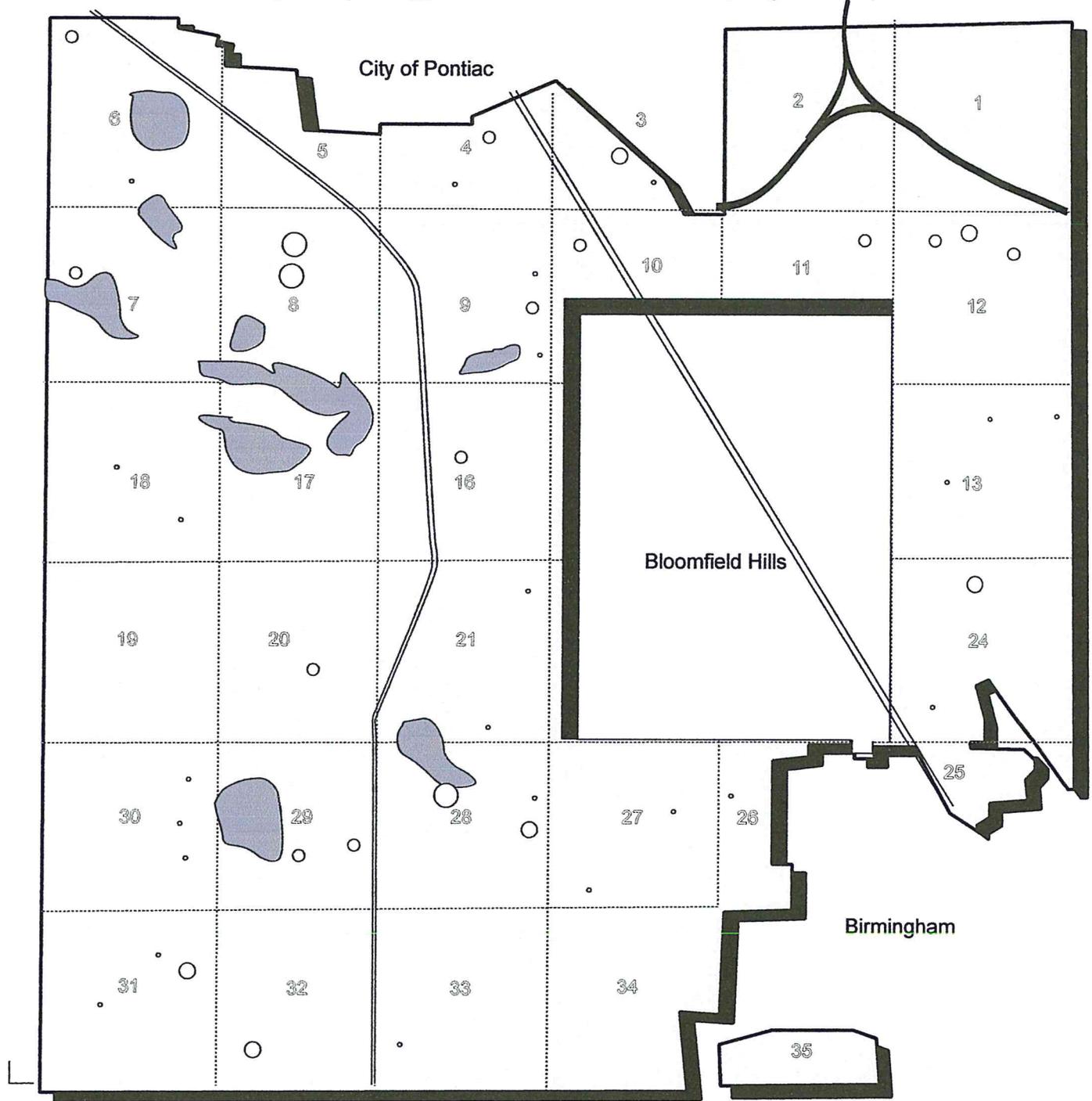
 Designates portions of the Township that are not surveyed by NGMMG.

There are approximately 530 total survey plots located in the Township.  
Location accuracy of this map is approximately  $\pm 50$  meters.

1 inch = 4500 ft / 1372 m

national gypsy moth management group

### Bloomfield Township Gypsy Moth Risk Assessment Survey - 2018 (density of egg-masses that hatched in spring of 2018)



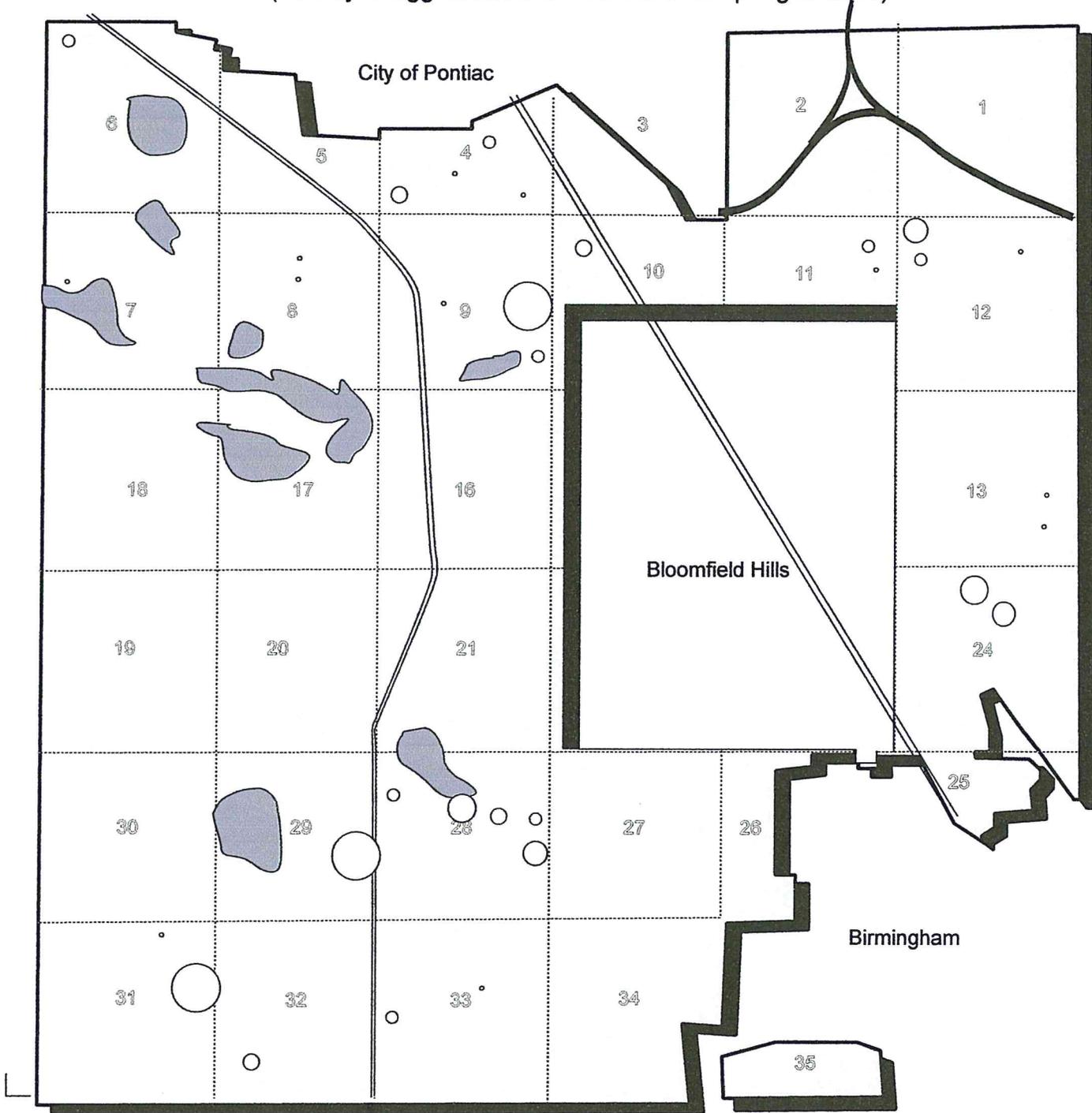
**Key**

•	40-60	○	461-820
○	61-130	○	821-1460
○	131-260	○	>1460
○	261-460		

Gypsy Moth egg masses/acre

1 inch = 4500 ft / 1372 m  
national gypsy moth management group

# Bloomfield Township Gypsy Moth Risk Assessment Survey - 2019 (density of egg-masses that will hatch in spring of 2019)



**Key**

•	40-60	○	461-820
○	61-130	○	821-1460
○	131-260	○	>1460
○	261-460		

Gypsy Moth egg masses/acre

1 inch = 4500 ft / 1372 m  
national gypsy moth management group

**The following pages contain data collected from each survey plot established in the Bloomfield Township. Egg mass data from the previous two years are included for comparison.**

In this table, columns are as follows:

"Plot" = Plot serial number that will be found on tree tag. The first two digits indicate the City section in which the plot is located.

"Egg masses/ Acre" = egg masses per acre. The years "2017", "2018", and "2019" refer to the year that egg masses were or are due to hatch. Hatching usually occurs in late April or early May.

Some of the less obvious abbreviations used in location descriptions are as follows:

N, E, S, W	North, East, South, West		
BHBehind	OPP	Opposite	
BTWN	Between	PRVT	Private
BYD	Beyond	RN	Run
CRNR	Corner	ROW	Right-of-Way
DW	Driveway	RT or R	Right
FR:	From	STRM	Stream
HSE	House	TR	Trail
LFT or L	Left	WDS	Woods
MLBX	Mailbox	X	Intersection with
NR	Near		

Plot#	Location	Egg Masses/Acre (year of hatch)		
		2017	2018	2019
01	01-01 Adams Rd X Timberview Trail, S.W. crnr	0	0	0
01	01-02 Manorwood Cir 1227, fnt rt	0	0	0
01	01-03 Timberview Trail 1155, to Lft of garage	0	0	0
01	01-04 Forest Glen Ct 1316/1318, bkyd, 15 ft into wds	0	0	0
01	01-05 Ledbury Dr 1725, by DW, faces Ashover	0	0	0
01	01-07 Brenthaven Dr 2150, Lft of DW	0	0	0
01	01-08 Ashover Dr. 1365, Rt edge of DW	0	0	0
01	01-09 WINCHCOMBE DR. 1334, RT OF DW	0	0	0
01	01-10 ASHOVER DR. 1239, FRNT. YD.	0	0	0
01	01-11 PEVERIL RD. 1240, LFT. OF DW, FACES FAIRFORD DR.	80	0	0
01	01-12 BROOKVIEW CT. 1968, RT. SIDE OF HSE.	0	0	0
01	01-13 BROOKVIEW CIR. 1756, END OF DW	0	0	0
01	01-14 PEVERIL RD. 1187, LFT. SIDE	0	0	0
01	01-19 LEDBURY DR. 1815, BYND. DW, IN WDS.	0	0	0
01	01-21 SQUIRREL RD. 1565, EDGE OF RD.	0	0	0
01	01-22 SOUTH BLVD. 3698, LFT. FRNT.	0	0	0
01	01-24 SQUIRREL VALLEY DR. 1794, 30' BYND. DW END	0	0	0
<b>Means for Section 01</b>		4.7	0.0	0.0
02	02-02 SCOTTSBOROUGH WAY 742	0	0	0
02	02-03 CAMBRIDGE WAY 499	0	0	0
<b>Means for Section 02</b>		0.0	0.0	0.0

Plot#	Location	Egg Masses/Acre (year of hatch)		
		2017	2018	2019
03	03-01 MULBERRY RD., OPP. BARRINGTON	0	0	0
03	03-02 MULBERRY RD. 2340, OPP. S. END OF LOT	0	40	0
03	03-03 SOMERSET RD. 2213, BK. YD., BYND. END OF DW	160	120	0
03	03-04 TRAYMORE DR. X LANDCASTER, OUTSIDE EDGE	40	0	0
03	03-05 DEVONSHIRE RD. 2044, BH. RT. REAR CRNR OF HSE.	0	0	0
03	03-06 DEVONSHIRE RD. 2172, BK. YD.	0	0	0
03	03-08 Traymore ST., N.E. SIDE, 200 FT. S.E. OF HIGHLAND	0	0	0
<b>Means for Section 03</b>		28.6	22.9	0.0
04	04-01 WINTHROP RD, W. SIDE, 75 FT. N. OF X E. BERKSHIRE	0	0	0
04	04-03 HADSELL DR. 40, W. EDGE OF PROPERTY, NR. DW	40	0	0
04	04-04 HADSELL DR. 155 RT OF DW	0	0	0
04	04-05 N. BERKSHIRE RD. 124, LFT. CRNR. OF BKYD.	0	0	0
04	04-06 N. BERKSHIRE RD. 180, RT. AT DW.	520	80	80
04	04-07 N. BERKSHIRE RD. 235, FRNT.	0	0	0
04	04-08 S. BERKSHIRE RD. 257, RT. OF DW. ENTR.	0	0	0
04	04-09 S. BERKSHIRE RD. 200, AT DW. ENTR.	0	0	0
04	04-12 KENDRY DR. 583, FRNT.	0	0	160
04	04-13 KENDRY DR. 410, FRNT.	120	0	0
04	04-14 EILEEN DR. 72, OPP. DW	0	0	0
04	04-15 BRATTON AVE. 2462, RT. OF DW ENTR.	0	0	40
04	04-17 EILEEN DR. 293, FRNT.	200	40	40

Plot#	Location	Egg Masses/Acre (year of hatch)		
		2017	2018	2019
04	04-18 HULET DR., END	0	0	0
04	04-19 WOODWARD AVE, MEDIAN, N OF N BIRKSHIRE	480	0	0
<b>Means for Section 04</b>		90.7	8.0	21.3
05	05-01 SQUARE LAKE RD.X BATAAN, N.,W. CRNR.	0	0	0
05	05-03 HERONWOOD CT., 1595 LFT FRNT	0	0	0
05	05-05 HERONWOOD DR. 2447, FRNT.	0	0	0
<b>Means for Section 05</b>		0.0	0.0	0.0
06	06-01 KLINGENSMITH RD., 2388 Rt OPP	0	0	0
06	06-02 CLOVERLAWN AVE. X KLINGENSMITH	0	0	0
06	06-03 HILLCREST DR. 2340, FRNT	320	40	0
06	06-06 HAMILTON DR. 1730, Vacant lot	0	0	0
06	06-07 SUNSET DR., 1951 N.E. END, NEAR EDGE OF LAKE	0	0	0
06	06-08 DELL ROSE DR. 2073, FRNT.	0	0	0
06	06-09 DELL ROSE DR. 1765, FRNT.	0	0	0
06	06-11 DELL ROSE DR. X WARD	0	0	0
06	06-12 WARD ROAD, OPP. OF 1932.	3160	80	80
06	06-15 SQUARE LAKE BLVD, 1830, MUSLIM UNITY CENTER	0	0	0
06	06-17 KEMP RD. 2143, BYND END OF DW	0	0	0
06	06-18 BIRCHLAND DR. 2071, AT REAR OF HSE.	0	0	0
06	06-19 EAST HAMMOND LAKE DR. 2240, BKVD NEAR LAKE	0	0	0
06	06-20 EAST HAMMOND LAKE DR. 1898, RT. OF DW ENTR.	0	0	0

Plot#	Location	Egg Masses/Acre (year of hatch)		
		2017	2018	2019
<b>Means for Section 06</b>		248.6	8.6	5.7
07	07-01 INDIANWOOD CT. 1574, AT DW ENTR.	0	0	0
07	07-02 LOCHRIDGE RD. 1660, LFT. FRNT.	0	0	0
07	07-03 LOCHRIDGE RD. 1527, BKVD.	0	0	0
07	07-06 LONG POINT DR. 1875, LFT. CRNR OF BKVD, BOTTOM	120	120	40
07	07-08 LONG POINT DR. 1820, LFT. EDGE OF PROPERTY, 40 FT.	0	0	0
07	07-09 MARIE CIR. 1860, 30 FT. BYND. END OF DW BY SHED	0	0	0
07	07-11 LONG LAKE SHORES DR. 1864, FRNT.	0	0	0
07	07-14 SHORE HILL DR. 1995, LFT. OF DW	0	0	0
07	07-15 LONG LAKE SHORE DR. 1771	0	0	0
07	07-16 WABEEK LAKE DR. 3774, RT. EDGE OF DW	0	0	0
07	07-17 SHOREVIEW CT. 3625, FRONT	0	0	0
07	07-18 PHEASANT RUN 3646, RT. OF GARAGE	0	0	0
07	07-19 QUAIL HOLLOW DR. 3665, OPP. GARAGE	0	0	0
07	07-20 INDIAN SUMMER DR., END, 1170 MORNINGSIDE WAY	0	0	0
07	07-23 APPLE LN. 1582, RT OF DW ENTR	0	0	0
07	07-24 BLOSSOM LN. 3425, FRNT LFT	0	0	0
07	07-25 HERON RIDGE DR. 1738, FRNT.,	0	0	0
07	07-26 BLUE HERON CT., 1771	0	0	0
<b>Means for Section 07</b>		6.7	6.7	2.2
08	08-01 FRANKLIN RD, W. EDGE, 200 YDS. S. OF HICKORY	0	0	0

Plot#	Location	Egg Masses/Acre (year of hatch)		
		2017	2018	2019
08	08-02 RUGBY CIR. 1251 FRNT	40	0	0
08	08-03 HICKORY GROVE RD. 2870, FRNT.	0	0	0
08	08-04 FRANKLIN RD. 2950, LFT. OF DW ENTR.	0	0	0
08	08-05 HICKORY GROVE RD. 2765, FRNT. AT EDGE OF RD.	0	0	0
08	08-07 CLUB DR. X PORTERS LN., S.E. CRNR.	0	0	0
08	08-09 CIRCLE CT. 1288, BYND END OF DW.	0	0	0
08	08-10 AYRSHIRE DR. 2775, OPP., IN TREE LINE ALONG GOLF	320	400	40
08	08-11 AYRSHIRE DR., EDGE OF GOLF CRSE., AT PULL-OVER	240	320	40
08	08-12 HICKORY GROVE RD. 2688, RT. OF DW	0	0	0
08	08-14 LOCHRIDGE RD. X Club Dr. 1319	0	0	0
08	08-15 LOCKRIDGE RD. 1421, PVT. RD., FRNT. OF 1ST. HSE. ON	0	0	0
08	08-16 LOCHRIDGE RD. 1490, FRNT.	0	0	0
08	08-19 CLUB DR., E. SIDE, 100 FT. S. OF X HERON RIDGE DR.	0	0	0
08	08-20 CLUB DR. E. SIDE OPP. ENTR. TO COUNTRY CLUB PK.	0	0	0
08	08-21 CLUB DR. 1367, BKVD., LEFT EDGE, Fred Korzon	0	0	0
08	08-22 AYRSHIRE DR. 3165, 100 YDS. DOWN CART PATH	0	0	0
08	08-23 1448 INWOODS CT. FRNT	0	0	0
08	08-24 KIRKWAY RD. 1522, FRNT, AT EDGE OF RD.	0	0	0
<b>Means for Section 08</b>		31.6	37.9	4.2
09	09-01 BROOKSIDE DR. 3515, LT. EDGE OF DW	0	0	0
09	09-02 FOREST HILL RD. , 3530 RT Frnt	0	0	0

Plot#	Location	Egg Masses/Acre (year of hatch)		
		2017	2018	2019
09	09-03 BARLYN LN. 3321, AT X TELEGRAPH	0	0	0
09	09-04 DEVONBROOK DR>, 3230	0	0	0
09	09-06 HICKORY GROVE RD., N. SIDE, 50' OF COURVILLE DR.	120	0	40
09	09-08 HICKORY GROVE RD. 404	80	0	0
09	09-09 LAURELWOOD CT. 467, FRNT. YD.	0	0	0
09	09-10 CHESTNUT RUN DR. 3277, 50 FT. BYND. END OF DW	0	0	0
09	09-11 HICKORY GROVE RD. 234, FRNT. OPP CROFTWAY	40	120	3320
09	09-12 ORANGE LAKE DR. 275, RT. SIDE BY DW	0	0	0
09	09-13 LAHSER RD., W. SIDE, 50 FT. S. OF ORANGE LAKE DR.,	0	0	0
09	09-14 LAHSER RD., LAHSER H.S. SERV. RD., behind school	0	0	0
09	09-15 LAHSER RD. 3456, EDGE OF RD. IN FRNT. OF H.S.	0	0	120
09	09-16 LAHSER RD. 3456, AT S. ENTR. TO H.S. PK. LOT	0	0	0
09	09-18 RAMBLING WAY 2931, FRNT.	0	0	0
09	09-19 RAMBLING WAY 2633, RT. FRNT. CRNR. OF HSE.	0	0	0
09	09-20 MARCY CT. 2600	0	0	0
09	09-21 COURVILLE DR. 2849, LFT. FRNT.	0	0	0
09	09-22 MEADOWOOD LN. 2871, RT. FRNT.	0	0	0
09	09-23 HICKORY GROVE RD. 300, 300 yrds Back Lane Opp.	0	0	0
09	09-24 LAHSER RD. 2800, ELEM. SCHOOL, EDGE OF RD.- OPP	0	0	0
09	09-25 APPLEWOOD LN. 220, RT. OF DW, OPP. GARAGE	0	40	0

Plot#	Location	Egg Masses/Acre (year of hatch)		
		2017	2018	2019
09	09-26 DEVON RD. X NORWOOD DR., S.E. CRNR.	0	0	0
09	09-27 NORWOOD RD. 2602 FRNT	0	0	0
09	09-28 YORKSHIRE LN. 2526, FRONT	0	0	0
09	09-29 FRANKLIN RD. X ACORN RD., N.E. CRNR.	0	0	0
09	09-30 HICKORY GROVE RD. X ACORN RD., N.W. CRNR.	0	0	0
<b>Means for Section 09</b>		8.9	5.9	128.9
10	10-03 COLONIAL WAY 2623, LFT. EGE OF DW	80	120	200
10	10-05 ALDGATE DR. 2769, LFT. OF HSE., FACING DOUGLAS	40	0	0
10	10-06 HICKORY GROVE RD. 175, BH MAILBOX	0	0	0
10	10-07 HICKORY GROVE RD. 347, BH MLBX.	0	0	0
10	10-08 ROXIE RD. 2655, FRNT.	0	0	0
10	10-09 PLUM BROOK DR. 2778, FT. EDGE OF YD. IN HEDGE	0	0	0
10	10-10 CONCORD PLACE DR. 390, FNT. RT. CRNR. OF BLDG.	0	0	0
10	10-11 OPDYKE RD., W. SIDE, BETWEEN PLUMBROOK DR.	0	0	0
10	10-12 DOUGLAS DR. 2630 LFT OF DW.	0	0	0
10	10-13 PENDLETON DR. 2722, FRNT.	0	0	0
<b>Means for Section 10</b>		12.0	12.0	20.0
11	11-01 Lampost Ln 911, edge of DW by garage	40	0	40
11	11-02 Eastways Rd, 75' S of Fox Hall Rd, W. side	160	120	120
11	11-03 Severn Ln 2844 left on Eastways	0	0	0
11	11-04 Hunters Way 2772, 50 ft bynd end of DW	0	0	0

Plot#	Location	Egg Masses/Acre (year of hatch)		
		2017	2018	2019
11	11-06 Woodcreek Way 2980, end of DW	0	0	0
11	11-07 BLOOMFIELD CROSSINGS 2592, OPP. MLBX.	0	0	0
11	11-08 WOODCREEK WAY 3045, BH. HSE. 20' INTO WDS.	0	0	0
11	11-09 WARWICK DR. 2571	0	0	0
11	11-10 2480 OPDYKE RD., OPP. X PLUM BROOK	0	0	0
<b>Means for Section 11</b>		22.2	13.3	17.8
12	12-01 Autumn Rd 1080, opp side	0	0	0
12	12-03 Dogwood Ct 3392, Lft frnt yd, nr X Westchester	0	0	0
12	12-04 Greentree Rd 1023, frnt yd, 5' FR: hse	0	0	0
12	12-06 Dursley Rd 898, end of DW	0	0	0
12	12-09 Bloomcrest Dr 889, frnt yd at rd edge	0	0	0
12	12-10 Northover Dr 1193, RT SIDE OF YD	600	0	0
12	12-11 Westview Rd, at entr to church pkgng lot	80	0	0
12	12-12 Adams Rd at 1490 Manderford	0	0	0
12	12-13 Vhay Ln 2625, Lft frnt yd, opp mlbx 2610	0	160	40
12	12-14 Robson Ln 1255, Lft frnt crnr	0	0	0
12	12-16 Lenox Rd 1145, Lft of DW entr	0	200	40
12	12-17 South Reading Rd 943, frnt yd	0	0	0
12	12-18 Thedford Dr 2740, bkyd, rear edge	0	0	0
12	12-19 Westview Rd, Eastover Elem School, rt of playground	0	0	0
12	12-22 Lakecrest Dr 3501 BHD MLBX	0	0	0

Plot#	Location	Egg Masses/Acre (year of hatch)		
		2017	2018	2019
12	12-23 Kernway Dr 3118, frnt yd	0	0	0
12	12-24 Westview Rd 733, at RT FRNT CRNR OF HSE	0	0	0
12	12-25 Masefield Ct 2882, edge of DW	40	0	0
12	12-26 Squirrel Rd 2856, at rd edge	0	0	0
12	12-27 Squirrel Rd 2700, at DW entr, opp Lenox Rd	40	80	80
12	12-28 East Square Lake Rd 1050, school entr	0	0	280
<b>Means for Section 12</b>		36.2	21.0	21.0
13	13-01 Walbri Dr 3587, frnt yd	0	0	0
13	13-02 Walbri Dr 3672, Rt frnt yd, bh spruce	0	0	0
13	13-03 Squirrel Rd, 3690 50 yds s of Walbri	0	0	0
13	13-04 Lakecrest Dr 3665, opp DW	0	0	0
13	13-05 Lakecrest Dr 3717, OPP MLBX, 15 FT INTO WDS	0	0	0
13	13-06 Woodlake Dr, end, 120 yds along path (200°), to "T", path to	0	0	0
13	13-07 Crestlake Dr 3816, at DW entr, Rt side	0	0	0
13	13-08 Whispers-in Ct 433, frnt yd	40	0	0
13	13-09 North Valley Chase Rd 754, bh Rt rear crnr of hse	0	0	0
13	13-10 Charing Cross Rd CUL-DE-SAC ISLAND	0	40	0
13	13-11 Adams Rd X Downing Rd, NW crnr	200	40	0
13	13-12 Highwood Dr 851, Rt frnt yd, 15' FR: street. *EM's all over	40	0	0
13	13-13 Hawthorn Dr 761, frnt yd	0	0	0
13	13-14 Adams Rd 4805, 50'S of mlbx	40	40	0

Plot#	Location	Egg Masses/Acre (year of hatch)		
		2017	2018	2019
13	13-16 Fox Run Dr 870, Rt edge of DW	0	0	40
13	13-17 Highwood Dr 830, frnt yd, at X Raburn	0	0	0
13	13-18 QUEENS WAY 4326, FRNT.	0	0	0
13	13-20 STEEPLE CHASE CT. 475, LFT. EDGE OF DW	0	0	0
13	13-21 S. EVANSDALE DR. 475, LFT. FRNT., 20 FT. FR:RD.	0	0	0
13	13-22 CHARING CROSS RD. 4455, 50 FT. TO RT. OF DW	0	0	0
13	13-23 KENSINGTON RD., SACRED HEART SCHOOL, AT FRNT.	0	0	0
13	13-24 ORCHARD HILL DR. 4348, FRNT. YD.	0	0	0
13	13-26 MEADOWLANE DR. 4220, FRNT.	0	0	40
13	13-27 HICKORY HGTS. DR., OPP. FAR HILL DR., 3932	0	0	0
13	13-28 SPUR HILL DR. 4027, LFT. FRNT. YD.	0	0	0
13	13-29 WEST ORCHARD HILL DR. 4164, LFT. EDGE OF DW	0	0	0
13	13-30 TOP VIEW RD. 999, FRNT.	0	0	0
13	13-31 EASTOVER RD 1015, RT FRNT	0	0	0
<b>Means for Section 13</b>		11.4	4.3	2.9
16	16-01 Andover Rd, S. side, 200' FR: X Telegraph Rd	0	0	0
16	16-02 Andover Rd, Fire Station	0	0	0
16	16-03 Long Lake Rd X Franklin Rd N.E. crnr	0	0	0
16	16-04 EXETER RD., In front of TWP. BLDG.	0	0	0
16	16-05 DUBLIN DR. E-4111, RT. FRNT. CRNR., AT EDGE OF	0	0	0
16	16-08 LONG LAKE RD. X SHALLOWBROOK DR., N.E. CRNR.	440	80	0

<u>Plot#</u>	<u>Location</u>	<u>Egg Masses/Acre</u> <u>(year of hatch)</u>		
		<u>2017</u>	<u>2018</u>	<u>2019</u>
16	16-10 BROOKSIDE DR., OPP. MLBX. 3830	0	0	0
16	16-11 SHALLOWBROOK DR. 3741, IN DW LOOP	0	0	0
16	16-12 SHALLOWBROOK DR. 3835, by 805 Mailbx	0	0	0
16	16-13 FOREST HILL RD. 3650, FRNT.	0	0	0
16	16-14 RIDGE RD. 600, 40 FT. BYND. DW LOOP	0	0	0
16	16-15 BROOKSIDE DR. 3631, FRNT., AT EDGE OF STREET	0	0	0
16	16-16 SHALLOWBROOK DR. 3637, RT. FRNT. YD.	0	0	0
16	16-18 SHALLOWBROOK & DevonBrook, 3555 lft rear along	0	0	0
16	16-19 LARKWOOD CT. 3550, AT DW ENTR. (SPOT CHECK WO	0	0	0
16	16-20 BURNING TREE DR. 3760, BKYD, 75 FT. BH RT. RR	0	0	0
16	16-21 LAHSER RD. 3950, LFT. FRNT. CRNR. AT DW ENTR.	0	0	0
16	16-22 LAHSER RD. 3770, AT DW ENTR.	0	0	0
16	16-23 PINE VALLEY WAY 638, FRNT.	0	0	0
16	16-24 STONELEIGH RD. 4297, FACING SANDWICH RD., RT. OF	0	0	0
16	16-25 BARCHESTER DR. 4387, FRNT	0	0	0
16	16-26 ARDMORE DR. 4507, RT. REAR, BOTTOM OF STEPS FR:	0	0	0
16	16-27 ARDMORE DR. 4408, FRNT. YD.	0	0	0
16	16-28 VERNOR CT. 4340	0	0	0
16	16-30 N. WILLOWAY EST. CT. 4201, LFT. EDGE OF DW 40 yds	0	0	0
16	16-31 LONG LAKE RD. 765, SCHOOL, ALONG OUTER EDGE OF	0	0	0
<b>Means for Section 16</b>		16.9	3.1	0.0

	<u>Plot#</u>	<u>Location</u>	<u>Egg Masses/Acre</u> (year of hatch)		
			<u>2017</u>	<u>2018</u>	<u>2019</u>
17	17-01	Copperwood Dr 1233, edge of Cul de Sac	0	0	0
17	17-02	Water Cliff Dr 1273, at frnt of hse	0	0	0
17	17-03	Kirkway Rd X Inwoods Cir, East edge S of 1490	0	0	0
17	17-04	Island Ln 1555, opp side	0	0	0
17	17-05	Kirkway Rd 1362, at DW entr	0	0	0
17	17-07	Derry Rd 4407, frnt yd	0	0	0
17	17-08	Groton Rd 1 X Long Lake Rd	0	0	0
17	17-09	Echo Rd X Long Lake, E crnr, 30' S of Stop Sign	0	0	0
17	17-10	Echo Rd 4140, Lft of DW entr	0	0	0
17	17-11	Juniper Ln 1349	0	0	0
17	17-12	Echo Rd 4285, Rt side of DW entr	0	0	0
17	17-13	Ravenwick Way 1330, bh Lft rear crnr of hse	0	0	0
17	17-14	Highmoor Way, end, in island at Cul de Sac	0	0	0
17	17-15	Cedar Bend Dr 1441, frnt yd	0	0	0
17	17-16	Karen Ln 4331, Rt frnt yd	0	0	0
17	17-18	KIRKWAY RD. 1309, FRNT. 10 FT. OFF EDGE OF DW	0	0	0
17	17-19	KIRKWAY RD. 1420, RT. FRNT., 20 FT. OFF RD.	0	0	0
17	17-22	ISLAND LN. 1541, AT DW ENTR.	0	0	0
<b>Means for Section 17</b>			0.0	0.0	0.0
18	18-01	Franklin Rd X Cider Mill, N. W. crnr along Franklin	0	40	0
18	18-02	LAKELAND LN 3900	0	0	0

<u>Plot#</u>	<u>Location</u>	<u>Egg Masses/Acre</u> <u>(year of hatch)</u>		
		<u>2017</u>	<u>2018</u>	<u>2019</u>
18	18-04 Standish Ct 1663, opp side of pvt dr	0	0	0
18	18-05 Waterwheel Ln 4142 rt rear	0	0	0
18	18-06 Covered Bridge Rd 4514, frnt yd	0	0	0
18	18-07 Antique Ln 4072, frnt yd	0	0	0
18	18-08 MEADOW CT. 1998, frnt	0	0	0
18	18-12 PINE RIDGE LN., CART PATH 150 FT. FR: WABEEK LAKE	0	0	0
18	18-14 TUCKAWAY DR. 1905, lft rear	0	0	0
18	18-15 TUCKAWAY DR. 1965, OPP. GARAGE	0	0	0
18	18-16 WABEEK LAKE DR., OPP. WINGATE RD., 15ft fr rd	0	0	0
18	18-17 GOLF RIDGE DR. 1795, OPP. DW	0	0	0
18	18-18 CLUBGATE DR., IN DW LOOP OF CLUBHOUSE	0	40	0
18	18-20 COVERED BRIDGE RD. 4304, BYND. END OF DW	0	0	0
18	18-21 CIMARON CT. 1836, FRNT.	0	0	0
18	18-22 GOLF RIDGE DR. 1782, LFT. EDGE OF DW	0	0	0
18	18-23 DURHAM CT CUL-DE-SAC	0	0	0
18	18-24 COLUMBIA DR. 3984, 50 FT. TO LFT. OF HSE.	0	0	0
18	18-27 CARRINGTON WAY, CUL DE SAC, ABOVE S. EDGE	0	0	0
18	18-29 LAKELAND LN. 3821, FRNT.	0	0	0
18	18-30 LAKELAND LN, 3995 frnt rt	0	0	0
18	18-31 KIRKWAY RD. 1624, OPP. GARAGE	0	0	0
<b>Means for Section 18</b>		0.0	3.6	0.0

	<u>Plot#</u>	<u>Location</u>	<u>Egg Masses/Acre</u> <u>(year of hatch)</u>		
			<u>2017</u>	<u>2018</u>	<u>2019</u>
19	19-01	Franklin Rd 5105, opp, X Clarendon Crest N	0	0	0
19	19-02	Bracken Rd 1644, Rt frnt crnr of hse	0	0	0
19	19-03	Coachmaker Dr 4698, Lft edge of DW	0	0	0
19	19-04	Brafferton Dr 4649, Lft side of DW	0	0	0
19	19-05	RANDS RD 4920, frnt	0	0	0
19	19-06	Lone Pine Rd 1625, 15' E of mlbx, bh spruce	0	0	0
19	19-07	Malibu Dr, opp Whispering Pine	0	0	0
19	19-10	Cragin Dr 1918, Rt rear crnr of yd, 40' bynd DW end	0	0	0
19	19-11	Raymond Place 1903, Lft side of hse	0	0	0
19	19-12	E. Tahquamenon Ct CUL-DE-SAC	0	0	0
19	19-13	CIMARRON DR 4750, FACING W. TAHQUMENON CT.	0	0	0
19	19-15	Dianna Dr 5074, frnt yd	0	0	0
19	19-16	Schoenith Ln 1790, Lft side of DW	0	0	0
19	19-17	E of Woodgrove Ln 1769,	0	0	0
19	19-18	Malibu Dr 4883, frnt yd	0	0	0
19	19-19	Crest Knolls Ct 5132, Lft of DW	0	0	0
19	19-21	Fairmont Hill Ct 5253, center edge of bkyd	0	0	0
19	19-22	Sebring Ct 5054, Lft side of DW	0	0	0
<b>Means for Section 19</b>			0.0	0.0	0.0
20	20-02	Franklin Rd 4885, 25' S of mlbx, 20' FR: rd	0	0	0
20	20-04	Bywood Rd 5425, Rt frnt yd	0	0	0

Plot#	Location	Egg Masses/Acre (year of hatch)		
		2017	2018	2019
20	20-05 Winglake Rd 5380	40	0	0
20	20-06 Lakewood Rd 1462, Lft side of DW entr	0	0	0
20	20-07 Lakewood Rd 5150 RT OF DW	0	0	0
20	20-08 Winglake Rd 5200, Lft edge of DW	0	0	0
20	20-09 Winglake Rd 5170, frnt 5085	0	0	0
20	20-10 Clarendon Rd 1470, Rt of DW entr	0	0	0
20	20-13 Lone Pine Rd 1420, 75' E of Sodon Lake Dr.	0	0	0
20	20-14 Clarendon Rd 1560, opp, at edge of lake	0	0	0
20	20-15 Sodon Lake Dr 1534, to Rt of DW, faces Tator Ct	0	0	0
20	20-16 Sodon Ct 1470, LT OF DW	0	0	0
20	20-17 Sodon Lake Dr 1501 LT OF DW	0	0	0
20	20-18 Echo Ln 1415, Rt of DW entr	0	0	0
20	20-19 Hidden Lake Dr 1227, Front	0	0	0
20	20-20 Echo Rd, opp Hidden Lake Dr.	0	0	0
20	20-21 Echo Rd, W. side, 10' S. of Senic Dr.	0	0	0
20	20-22 Echo Rd 4820, at DW entr island, edge of rd	0	0	0
20	20-23 Lone Pine Rd 1251, nr Lft frnt crnr of hse	0	0	0
20	20-24 Echo Rd 5387, Rt side of hse by DW	0	0	0
20	20-25 Lake Crescent Dr 1290, Lft frnt yd, edge of street	0	0	0
20	20-26 Echo Rd 5235, frnt.yd	0	0	0

<u>Plot#</u>	<u>Location</u>	<u>Egg Masses/Acre</u> (year of hatch)		
		<u>2017</u>	<u>2018</u>	<u>2019</u>
20	20-27 Forest Way 5051, Rt edge of DW	0	80	0
20	20-28 Forest Way 5430, Lft of DW	0	0	0
20	20-29 Lone Pine Rd X Cliffwood Rd, S.E. crnr, 30' bh stone wall	0	0	0
20	20-30 Tully Rd 4725, Frnt near Strt	0	0	0
<b>Means for Section 20</b>		1.5	3.1	0.0
21	21-01 Oakleigh 710	40	40	0
21	21-02 Oakleigh Dr 780 X Stoneleigh, N.E. crnr	0	0	0
21	21-04 Lone Pine Rd 850, bh mlbx at DW entr	0	0	0
21	21-05 Sunningdale Dr 910, Lft side of hse, edge of DW	0	0	0
21	21-06 Harsdale Dr 880, frnt yd	0	0	0
21	21-07 Stoneleigh Rd 7470, 60' to Rt of hse along DW	0	0	0
21	21-08 Stoneleigh Rd 4800, frnt yd, to Rt of DW	0	0	0
21	21-09 Sandhurst Rd 900, Lft frnt crnr of hse	0	0	0
21	21-10 Sunningdale Dr 4649, Lft frnt crnr of hse	0	0	0
21	21-11 Mayflower Ct 4833, bh Rt side of hse	0	0	0
21	21-12 Lone Pine Rd X Ranch Ln, N.W. crnr	40	0	0
21	21-15 Lone Pine Rd, opp Lone Pine Woods Dr, 50' E	0	0	0
21	21-17 Timberlake Dr, 1100 E. edge,	0	0	0
21	21-18 Timberlake Dr 1070, bh mlbx	0	0	0
21	21-19 Timberlake Dr X Ponvalley, W. crnr	0	0	0
21	21-20 Lane Lake Rd, ACROSS FROM 3894	40	40	0

Plot#	Location	Egg Masses/Acre (year of hatch)		
		2017	2018	2019
21	21-21 Lauren Ct 5331, Lft side of DW	0	0	0
21	21-22 Wayfind Ln 5301, frnt yd, edge of rd	0	0	0
21	21-23 Lane Lake Rd 5350, frnt yd, 20' FR: street	0	0	0
21	21-24 Deep Wood Rd X Ponvalley,	40	0	0
21	21-25 Windingwood Dr 5171, at DW entr	0	0	0
21	21-26 Deep Wood Rd 5070, edge of street	0	0	0
21	21-27 5157 Winlane	0	0	0
21	21-28 Winlane Dr 5060, opp DW	0	0	0
<b>Means for Section 21</b>		6.7	3.3	0.0
24	24-01 STRATHMORE RD. 5310, BY DW	0	0	0
24	24-02 LONGMEADOW RD. 5425, LFT. FRNT., 15 FT. OFF RD.	0	0	0
24	24-03 BROOKDALE RD. 5486, RT. SIDE OF HSE.	0	0	0
24	24-04 BROOKDALE RD. 5385, RT. FRNT., BY DW ENTR.	0	0	0
24	24-05 LONGMEADOW RD. 5185, RT. FRNT., BY DW ENTR.	0	0	0
24	24-06 STRATHMORE RD., BH MLBX. 196	0	0	0
24	24-07 STRATHMORE RD. 251, FRNT. AT EDGE OF RD.	0	0	0
24	24-10 KENSINGTON RD. 5025, RT. AT HSE IN WDS.,. 50 FT. FR:	0	0	0
24	24-11 DOVER RD. 4725, EDGE OF RD.	0	0	280
24	24-12 CHARING CROSS RD. 4525, BH MLBX.	200	200	560
24	24-13 CHARING CROSS RD. 4621, RT. FRNT. YD.	0	0	0
24	24-15 AVONDALE TERRACE 4676, 30 FT. TO RT. OF DW	40	0	0

Plot#	Location	Egg Masses/Acre (year of hatch)		
		2017	2018	2019
24	24-16 CHARING CROSS RD. 5000, ALONG FNCE. TO LFT. OF	0	0	0
24	24-18 WATTLES RD. X SQUIRREL RD., 50 FT. W. OF X, 15 FT.	0	0	0
24	24-19 Hickory Bend 5396, opp mlbx 5311	0	0	0
24	24-20 IRongate rd. 5127, ACROSS	40	0	0
<b>Means for Section 24</b>		17.5	12.5	52.5
25	25-01 MAYWOOD AVE., Lft	0	0	0
25	25-02 HARROW CIR. 240, FRNT.	0	0	0
25	25-04 OXFORD RD. 1330, FRNT. AT EDGE OF RD.	0	0	0
25	25-06 JUDY LN. 70, RT. FRNT	0	0	0
<b>Means for Section 25</b>		0.0	0.0	0.0
26	26-02 COVINGTON RD. 1124, AT CURB	0	40	0
26	26-03 CRANBROOK RD. 1336, FRNT. YD.	0	0	0
26	26-04 TOTTENHAM RD. 2163, FRNT. YD., 25 FT. FR: RD.	0	0	0
26	26-05 YARMOUTH RD. 2168, LFT. FRNT. YD., RT. OF DW	0	0	0
26	26-08 QUARTON RD. 2235, AT EDGE OF RD.	0	0	0
26	26-09 YARMOUTH RD. 920, LFT. FRNT.	0	0	0
26	26-10 YARMOUTH RD. 292, FRNT.	0	0	0
26	26-11 QUARTON RD. 1945, LFT. SIDE OF HSE. BY GARAGE	0	0	0
<b>Means for Section 26</b>		0.0	5.0	0.0
27	27-01 MAXWELL CT. 3501	0	0	0
27	27-03 STUYVESSANT RD. 885, BET. 885 AND 910, 75' FR: RD.	0	0	0

Plot#	Location	Egg Masses/Acre (year of hatch)		
		2017	2018	2019
27	27-04 STUYVESSANT RD. 1292, FRNT.YD.	0	0	0
27	27-05 BLOOMFIELD CLUB DR. 3451, RT. SIDE OF DW	0	0	0
27	27-06 HALLA LN. 3606, DW ENTR.	0	0	0
27	27-07 WOODDALE RD. 783, FRNT.	0	0	0
27	27-08 ARDMOOR DR. 632, FRNT.	0	0	0
27	27-09 SUNNYDALE RD. 3500, FRNT.	0	0	0
27	27-10 MAPLE RD. X VORN LN., 25' TO E., ALONG SIDEWALK	40	40	0
27	27-11 OVERHILL RD. 120, RT. OF DW	0	0	0
27	27-12 OVERHILL DR. 325, AT DW ENTR.	0	0	0
27	27-13 OVERHILL DR. 618, BKVD., BYND. END OF DW	0	0	0
27	27-14 HAMILTON RD. 575, AT X BRADWAY BLVD.	0	0	0
27	27-15 HAMILTON RD. 400, RT. OF DW	0	0	0
27	27-16 WILLIAMSBURY RD. 135, LFT. SIDE OF HSE.	40	0	0
27	27-18 BRADWAY BLVD. X CRANBROOK CROSS RD. AT CRNR.	0	0	0
27	27-19 GLENGARRY CIR. 862, FRNT.	0	40	0
27	27-20 INDIAN MOUND SOUTH 2688, RT. FRNT. RD. BY DW	0	0	0
27	27-21 INDIAN MOUND 1316, RT. OF DW	0	0	0
27	27-22 COVINGTON RD. 1399, RT. FRNT. YD.	0	0	0
27	27-24 GLENGARRY RD. 1333, rt. SIDE OF DW	0	0	0
27	27-25 GLENGARRY CIR. 999, FRNT.YD.	0	0	0

<u>Plot#</u>	<u>Location</u>	<u>Egg Masses/Acre</u> <u>(year of hatch)</u>		
		<u>2017</u>	<u>2018</u>	<u>2019</u>
27	27-27 SANDRINGHAM WAY, 1503 frnt S. CRNR.	0	0	0
27	27-28 GLENGARRY RD. 1010, FRNT. rt.	0	0	0
27	27-29 COVINGTON X AMBERLEY	0	0	0
27	27-30 HAMILTON RD. 688, AT DW FACING OVERHILL RD.	0	0	0
<b>Means for Section 27</b>		3.1	3.1	0.0
28	28-01 Lane Lake Rd X Lake Rd, BH Mlbx 5460	0	0	0
28	28-02 Quarton Rd, opp Whethersfield Rd, private lane	0	0	120
28	28-03 5653 Shadow LN, Next to DRWY	0	0	0
28	28-04 Quarton Rd 3935, Lft frnt crnr, at edge of rd	280	240	560
28	28-05 N. Darlington Rd 3798, frnt yd	0	0	0
28	28-06 N. Darlington Rd 3712, frnt yd	40	40	120
28	28-07 Round Hill Ct 5600, bkyd	0	0	0
28	28-08 Peabody Dr 3760, nr X Round Hill Rd	80	0	0
28	28-09 Quarton Rd 3879, Rt edge of DW	40	0	160
28	28-10 South Miller Way Rd 3871, end of DW	0	0	0
28	28-11 Blackthorn Ct 4025, frnt yd	0	0	0
28	28-12 Thorncrest Drive East 6244, Lft side of hse	0	0	0
28	28-14 Blanford Rd 5991, lft	0	0	0
28	28-15 Burnham Rd 5820, 25' bynd DW end	0	0	0
28	28-16 Snowshoe Cir 5860, opp, edge of street	0	0	0
28	28-17 Orchard Bend 5849	0	0	0

<u>Plot#</u>	<u>Location</u>	<u>Egg Masses/Acre</u> (year of hatch)		
		<u>2017</u>	<u>2018</u>	<u>2019</u>
28	28-18 Hills Dr 6246, frnt yd	40	0	0
28	28-20 Lasher Rd, opp Burning Bush Rd	200	160	280
28	28-21 Lasher Rd 6140, frnt yd	0	0	0
28	28-22 Hills Dr 6490, Rt frnt yd	0	0	0
28	28-23 GOLFVIEW DR. 6355, FRNT.	0	0	0
28	28-24 E. MILLER WAY RD. 5922, FRNT.	0	0	0
28	28-25 GILBERT LAKE RD. 6300, FRNT.	0	0	0
<b>Means for Section 28</b>		29.6	19.1	53.9
29	29-01 Forman Dr 5545, frnt yd	0	0	0
29	29-02 Oak Grove Dr opp 4359	0	0	0
29	29-05 Carey Ln 4244, Lft side of hse	0	0	0
29	29-06 Winglake Rd 5950, frnt yd, edge of rd	0	0	0
29	29-07 Valley Forge Rd 4160, nr frnt door	0	0	0
29	29-08 Valley Forge Rd, 100' E of X Sandy Ln	0	0	0
29	29-09 Valley Forge Rd 5960, Lft frnt yd, by DW	0	0	0
29	29-10 Crabtree Rd, opp Lantern Ln, bh mlbxs	0	80	3120
29	29-11 Lantern Ln 6130, frnt yd	0	0	0
29	29-12 Dakota Cir 6223, Rt Frnt	0	0	0
29	29-13 Dakota Cir 6360, at DW entr	0	0	0
29	29-14 Franklin Rd 6091, 15' to Rt of DW entr	0	0	0
29	29-15 MUIR FIELD CT Rt Rear, 6394	0	0	0

<u>Plot#</u>	<u>Location</u>	<u>Egg Masses/Acre</u> (year of hatch)		
		<u>2017</u>	<u>2018</u>	<u>2019</u>
29	29-16 Wing Lake Rd 6489, edge of rd	120	0	0
29	29-17 Wing Lake Rd 6044, Rt of DW entr	0	0	0
29	29-18 Thurber Rd 6285, nr garage, facing Sunningdale	40	80	0
29	29-19 Sheringham Rd 6433, Lft of DW entr	0	0	0
29	29-21 Trailwood Path 1350 frnt Foxcraft Condos	0	0	0
29	29-22 Woodland Pass 5640, Rt of DW	0	0	0
29	29-23 Quarton Rd, S side edge, 200 W of school entr	0	0	0
<b>Means for Section 29</b>		8.0	8.0	156.0
30	30-01 Maple Rd 4790, frnt yd off patio area	0	0	0
30	30-02 Eastmoor Rd 6222, rt frnt yd	0	0	0
30	30-03 Eastmoor Rd 6139, opp, 15' off street	0	0	0
30	30-04 Braemoor Rd 6040, Rt of DW, bh mlbx	0	0	0
30	30-05 Darramoor Rd, opp Idlewyle	0	0	0
30	30-06 Indianwood Trail 5920, end of DW by hse	0	40	0
30	30-07 Indianwood Trail 6060, Rt Edge of DW	0	40	0
30	30-08 Indianwood Trail 6231, end of DW at Rt edge	0	0	0
30	30-10 Quarton Rd 4547, edge of rd	0	0	0
30	30-11 Broughton Dr 4573, opp, 20' off rd	0	40	0
30	30-12 Franklin Rd X Niagara, S.W. crnr	0	0	0
<b>Means for Section 30</b>		0.0	10.9	0.0
31	31-01 Kingswood Dr 7297, frnt yd	0	0	0

	<u>Plot#</u>	<u>Location</u>	<u>Egg Masses/Acre</u> (year of hatch)		
			<u>2017</u>	<u>2018</u>	<u>2019</u>
31	31-02	Pickering Rd 4690, opp DW	0	0	0
31	31-03	Kingswood Dr 7261, 10' FR: garage, to Rt of DW	0	40	0
31	31-04	Pickering Rd 4780, Rt.side of DW	0	0	0
31	31-05	Frankling Rd, opp entr, to St. Owen Rectory	160	240	1560
31	31-06	Orinoco Cir 6815, Rt of DW	120	40	0
31	31-07	Franklin Rd 6610, edge of rd	0	0	0
31	31-08	Indianwood Trail 6700, edge of DW	0	0	0
31	31-09	West Maple Rd 4580, opp mlbx 70 yrds w of Indian Trial	0	0	40
31	31-10	Whysall Rd 6865, at frnt of hse	0	0	0
31	31-12	Valley Spring Rd 6596, Lft side of hse	0	0	0
31	31-15	Meadow Lake Rd 6815, Lft of hse	0	0	0
31	31-16	Hiddenbrook Ln 7284, Frnt Rt.	0	0	0
31	31-17	Hayland Rd 6955, Lft side of DW	0	0	0
31	31-18	Lindenmere Dr 7000, Lft edge of DW	0	0	0
31	31-19	Lindenmere Dr 7343, frnt yd	0	0	0
31	31-20	Franklin Ct 7420, by garage	0	0	0
31	31-21	Ravine Dr 4624, Rt edge of DW	0	0	0
31	31-22	Pickering Rd 4565 lft frnt	0	0	0
31	31-23	Castle Dr 6830, opp	0	0	0
31	31-24	Castle Dr 6630, Lft frnt yd	0	0	0
<b>Means for Section 31</b>			13.3	15.2	76.2

Plot#	Location	Egg Masses/Acre (year of hatch)		
		2017	2018	2019
32	32-01 Stony River Dr 4424, DW end	160	80	120
32	32-02 Chisholm Trail 4477, Lft of DW entr	400	0	0
32	32-03 Marquis Ln 4440, Lft rear crnr of hse	40	0	0
32	32-04 Wing Lake Rd, opp 7260, school property	0	0	0
32	32-05 Wing Lake Rd X Chisholm, N.W. crnr	0	0	0
32	32-06 Maple Rd X Spruce	120	0	0
32	32-07 Cathedral Dr 6621, frnt yd	0	0	0
32	32-08 Sly Ct 4395, Rt of DW	0	0	0
32	32-09 Vachon Dr 6865, to Lft of hse, 80' FR: street	0	0	0
32	32-10 Maple Rd 4469, 25' Lft of DW turnaround	0	0	0
<b>Means for Section 32</b>		72.0	8.0	12.0
33	33-02 MAPLE RD. 3767, FRNT.	0	0	0
33	33-03 OAKHILL DR. 6614, RT. OF D.W.	0	0	0
33	33-04 LINCOLN DR. 3756, REAR OF LOT AT EDGE OF	0	0	0
33	33-05 LINCOLN DR. 4074, RT. OF D.W.	0	0	80
33	33-06 PINWOOD CT. 7020, LFT. EDGE OF D.W.	0	0	0
33	33-07 LINCOLN DR. 3815, AT D.W. ENTR.	0	0	0
33	33-08 LINCOLN DR. 3755, AT X SHERWOOD RD.	0	0	0
33	33-09 OAKLAND DR. 3724, OPP. MLBX.	0	0	0
33	33-10 OAKHILLS DR. 3791, RT. FRNT. CRNR. BY D.W. ENTR.	0	0	40
33	33-11 OAKHILLS DR. 3918, FRNT.	0	0	0

Plot#	Location	Egg Masses/Acre (year of hatch)		
		2017	2018	2019
33	33-12 OAKHILLS FR. 6844, FRNT.	0	0	0
33	33-13 OAKHILLS DR. 6780, END OF DW	0	0	0
33	33-14 OAKLAND DR. 3966, FRNT.	0	0	0
33	33-15 OAKLAND DR. 3801, RT. FRNT. CRNR.	0	0	0
33	33-16 PARKHURST DR. 7245, RT. FRNT.	0	0	0
33	33-17 SHERWOOD DR. 7105, FRNT.	0	0	0
33	33-18 WEDGEWOOD DR. 3811, AT X PARKHURST DR.	0	0	0
33	33-19 OLD MILL RD. 7224, BY FRNT. DOOR	0	0	0
33	33-20 OLD MILL RD. 7370, LFT. FRNT.	0	0	0
33	33-21 GREENWICH DR. EAST 7369, LFT. OF D.W. LOOP	0	0	0
33	33-22 BINGHAM RD. 7363, AT D.W. ENTR.	0	40	0
33	33-23 PARKWOOD CT. 4015, EDGE OF RD.	0	0	0
33	33-24 BINGHAM RD. 7235, LFT. FRNT.	0	0	0
33	33-25 FAIRLANE DR. 4010, FRNT.	40	0	0
33	33-26 FAIRLANE DR. 4080, BY GARAGE	40	0	0
33	33-27 PARKSTONE LN. 7480, LFT. SIDE, FACING 14 MI. RD.	0	0	0
33	33-28 JACKSON PARK DR. 7415, FRNT.	0	0	0
33	33-29 WEDGEWOOD DR. 3856, FRNT.	0	0	0
<b>Means for Section 33</b>		<b>2.9</b>	<b>1.4</b>	<b>4.3</b>
34	34-01 BRECKENRIDGE LN. 3246, FRNT.	0	0	0
34	34-02 BRADFORD DR. EAST 3050, FRNT.	0	0	0

	<u>Plot#</u>	<u>Location</u>	<u>Egg Masses/Acre</u> <u>(year of hatch)</u>		
			<u>2017</u>	<u>2018</u>	<u>2019</u>
34	34-03	FOREST LANE 1040, FRNT. LFT.	0	0	0
34	34-04	FOREST LANE 1195, RT. FRNT.	0	0	0
34	34-05	FOREST LANE 1335, FRNT.	0	0	0
34	34-06	CROSSWICK RD. 1989, FRNT.	0	0	0
34	34-07	FOXCHASE RD. 1250, FRNT.	0	0	0
34	34-08	CEDAR HILL DR. 1711, FRNT.	0	0	0
34	34-09	Cedar Hill Rd., 1971 FRNT	0	0	0
34	34-10	FOURTEEN MILE RD. 21460, RT. FRNT. AT PEAT EDGE	0	0	0
34	34-11	LAHSER RD. 7101, BROTHER RICE H.S., FRNT. RT.	0	0	0
34	34-12	BERKSHIRE DR. 3621, FRNT.	0	0	0
<b>Means for Section 34</b>			0.0	0.0	0.0
<b>Means for all Plots</b>			20.7	8.0	23.7