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June 25th, 2024

MOSQUITO CONTROL PROGRAM – KANATA NORTH

Weekly report –June 16th to June 22th, 2024

MONITORING and WEATHER

Accumulation of water: total of 11,4 mm

Date of precipitation: June 17th, 20th, 22th

Is there presence of larvae on the field?: Yes No

Note:

TREATMENT

Was there a treatment?: Yes No

Type of treatment: Ground Aerial

Date of treatment: After the 5th treatment, which started on June 10th and ended on June 15th, we proceeded with the post-treatment of the sites and carried out some minor treatments to improve the 5th treatment (no map attached since it is too localised).

Since mosquitoes can fly up to 2 km, (even more in some circumstances), it is important to mention that treatments done in one area reduce nuisances for all the protected area in Kanata North, not only the area treated.

Kanata nuisance mosquito control GDG 2024



POST TREATMENT

Was there a post-treatment? : Yes No

Larval Mortality: Sites that have been prospected post treatment were showing optimal mortality. Some minor treatments have been done to improve the 5th treatment.

Is there another treatment to be done?: Yes No

SWEEP TEST

Were there sweep tests this week? : Yes No

Sweep test has been done on June 19th.

Time	Address - Protected area	Mosquito	Black flies	Other species	Address - Unprotected area	Mosquito	Black flies	Other species	% Efficacy (Mosquito)
21:25	124 marsh sparrow	0	4	12	Out average	14	15	2	100,0%
20:54	2600 Campeau Dr.	0	11	2	Out average	14	15	2	100,0%
18:35	Calvington avenue	0	1	0	Out average	14	15	2	100,0%
18:16	35 Arkose street	1	0	0	Out average	14	15	2	92,6%
18:56	Laughlin cercle	0	2	4	Out average	14	15	2	100,0%
19:30	400 Goldridge	0	112	1	Out average	14	15	2	100,0%
20:05	Walden park	0	5	3	Out average	14	15	2	100,0%
20:22	50 Flamborough way	0	37	3	Out average	14	15	2	100,0%
	Average	0			Average	14			99,1%

Out average

Time	Address - Unprotected area	Mosquito	Black flies	Other species
20:00	Mattawa park	11	9	1
19:30	Pineridge road	16	21	3



Calvington Avenue



35 Arkose Street



50 Flamborough Way



124 Marsh Sparrow Pvt



Walden Park



400 Goldridge Dr.



Laughlin Circle



2600 Campeau Dr.



Mattawa Park

Pineridge road



Kanata nuisance mosquito control GDG 2024



TRAPPING

Was there trapping this week? : Yes No

Number of traps: 6

Location:

- 362 Laughlin Circle
- South March Highlands Trail Network
- Marshes Village, 39 Turtle Point Private
- 228 Saddleback Cres, Arcadia
- Beaver Pond Park
- Marsh close to parking on 1001 Farrar Road

Kanata nuisance mosquito control GDG 2024



Following the results of the entomological trapping carried out in recent weeks, we would like to inform you that we have noticed a localized resurgence of mosquitoes associated notably with the species *Coquillettidia perturbans*. Treatments against this species has been done on May 7th.

Those treatments are conducted independently of other treatments since it has a different developmental cycle from other mosquito larvae included in the control program. The larvae of this species hatch from August and overwinter as larvae in wet environments. The larvae are not freely present in the water column but attach to the roots of emergent aquatic plants. Therefore, they develop in permanent wet environments with high nutrient inputs. The product used to control most other mosquito species is ineffective against this species. Another biological product must be used: VectoLex CG. Adult emergence typically occurs in June, peaks around mid-July, and then gradually decreases until September.

This year, the emergence of this species was observed about two weeks earlier than in previous years. This early emergence aligns with the early spring we experienced this season. Similar observations have been made in regions with similar characteristics in southern Quebec, where *C. perturbans* can develop.

The mild winter temperatures and the large amounts of precipitation received in 2023 could partly explain the strong presence of *Coquillettidia perturbans*. Other insect families (Tabanidae: deer fly or horse fly) that develop in the same environments as this species are also abundant this year. This likely indicates excellent survival conditions for these different insect groups in these environments. It is also worth mentioning that *C. perturbans* moves over greater distances than other summer species, and the nuisance could very likely come from outside the treated area.

Other mosquito species captured were summer species (*Ochlerotatus trivittatus* and *Aedes vexans*). Indeed, the hatching of those two species is dependent on flooding of wetland and river floodplain. The weather and the precipitations of lasts weeks were favorable for those species. The hydrography of the Carp River is also very favorable to the development of these species due to its unstable water level fluctuations. This can explain a localized resurgence of mosquitoes. Adult *Oc. trivittatus* and *Aedes vexans* were found throughout the region, but their greatest abundance is within and around the Carp River and the Beaver Pond.

We continue weekly prospections and spraying work to ensure a reduction in mosquitoes in the protected area.



Kanata nuisance mosquito control GDG 2024

CITIZEN REQUESTS

Were there any key requests from citizen or from city this week? Yes No

For the week of June 16th to June 22th, we receive two requests by email from citizens. Both of these requests were to mention an increase in mosquitoes in recent days.



Forecast for next week (June 23th to June 29th):

For the next week we will continue the inspection of a breeding sites and initiate treatment if necessary.

Possible treatment: Yes No

If yes:

Type of treatment: Ground Aerial

Date of planned: Type of treatment depend on quantities of water in the sites.

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