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West Nile Virus Technical Advisory Committee

December 12, 2018 Meeting Agenda

4:30 p.m. – 6:00 p.m.

Large Conference Room, Parks Maintenance Shop, 413 S. Bryan Ave.

TAC members present: Eric Levine, Dana Kunze, Chet Moore, Roxanne Connelly, Greg McMaster
Danielle Buttke,

Staff present: Matt Parker, Tyler Marr, Joe Wimmer, Katie O'Donnell (Larimer County Health)

Meeting convened: 4:35

Report on findings from 2018 Adult Mosquito Treatment Efficacy - Dr. Roxanne Connelly, CDC

Assessment of mosquito numbers the night before and after adult mosquito treatment sprays on August 26th and August 29th. An untreated area was also assessed – area of the City that was not treated by adult mosquito spraying.

- August 26th traps – pre-treatment
- August 28th traps – post-treatment
- August 31st traps – post-second treatment

Light Trap counts of *Culex pipiens* + *Culex tarsalis*, were significantly lower in post-treatment counts. In the untreated area, 3 of 4 traps also showed a decrease in counts on August 28th and 31st, though not as substantial as treated area.

Gravid Trap counts of *Culex pipiens* + *Culex tarsalis* (mostly *pipiens*) showed a significant post-treatment decrease of mosquitoes in the treatment area. In the untreated area, Gravid Traps increased in mosquito numbers on the August 28th and 31st samples.

Discussion

- It was noted that the night of the second treatment, August 31st had cool weather that may have affected mosquito counts.
- Comments about next level of research combining efficacy of treatment as related to human cases. Problematic due to level of human case data provided.
- Discussion regarding infection rates of traps in untreated area. If the traps with high mosquito counts would have tested positive for WNV, it was likely that those areas would have been included in the treatment area.
- Discussion about site selection for untreated areas
 - The untreated zone was sampled was in southeast Fort Collins where many new housing developments may have more moisture from lawn irrigation. An area in northwest Fort Collins could provide a more accurate control sample.
 - If larger study occurs, multiple control zones would be advisable.

- Question about if there is a need for second spraying as counts after first treatment are already low. Question about best-practice of spray spacing timeline.
 - Spraying is region-specific and dependent on local conditions. This concept could be revisited next year.

Discussion on Urban Agriculture and the Business Opt-Out Program

How do these City policies interact? What is the role of WNV TAC?

Intention of WNV Business Opt-Out policy – provides relief from adult mosquito control that would otherwise create long-term financial impacts to businesses.

- Requires follow-up actions on the part of the requestee to work with VDCI to mitigate breeding. Addresses concerns about island effect (opting-out areas affecting the effectiveness of treatment on the treated area)

Intention of Urban Agriculture Policies – to increase opportunities for local food production.

- Requirements of Urban Agriculture Businesses: 1) Application for, and provision by CFC of Urban Agriculture License 2) City and State Sales Tax License 3) Neighborhood meeting 4) Potential need for a Home Occupancy License 5) May be subject to HOA covenants

Discussion

- Number of opt-outs has been historically low, staff accounted for two requests for WNV business opt-out in previous years. Increase of organic production may lead to increased request for business opt-outs, decreasing adult mosquito treatment efficacy.
- Concerns expressed about residents with large gardens but do not sell their items.
- WNV Business Opt-Out application process is not onerous, if business meets the WNV related inspection (with VDCI), as described above.
- Comment that Council intentionally set policy to be business oriented.
- Urban agriculture and organic farming are changing the context of these policies.
- These policy issues need to be addressed. There is a potential for many people get business licenses to opt-out.
- Recommendation from staff to examine how other communities are addressing the issue of urban agriculture and the impact of vector-borne disease treatments.
- Viewing the situation from an opt-in standpoint. Community is going through this for residential parking permits. Consideration of taking a neighborhood approach to opting-in or out.
- Overall interest from TAC to further examine this topic.

Items for next meeting:

Larimer County Department of Health – Report on 2018 Human Cases

Meeting adjourned: 6:00pm