NWMAD 2020 District Report: Mosquito Control Challenges in a Pandemic

- Logistics of maintaining social distancing and a safe work environment.
  - Hired 50% of normal seasonal help.
  - Single occupant in field trucks.
- Larval surveillance and abatement.
  - Same time to treat 50,000 catch basins with ½ field crew.
- Adult mosquito surveillance.
  - Dropped 2 trap locations due to closure of nature centers.
- Conducting ongoing and new research projects.
  - Managed to complete 4 research projects.
    - Adulticide efficacy.
    - Catch basin microbiology/pesticide detection.
    - Cx. species bloodmeal analysis.
    - Urban/Suburban/Rural gravid trap species composition.
Nuisance mosquitoes

5 YEAR AVERAGE VS 2020 FOR NUISANCE MOSQUITOES

Ave # Mosquitoes

Epi Week

May, 18 19 20 21 22 23 June, 24 25 26 July, 27 28 29 Aug, 30 31 Sept, 32 33 34 35 36 37 38 39 40

5 YEAR

2020
WNv Vector Mosquitoes

5 year ave and 2020 ave per week for vector mosquitoes

Ave # Mosquitoes

Epi Week

May, 18 19 20 21 22 23 24 25 26 July, 27 28 29 30 Aug, 31 32 33 34 35 Sept, 36 37 38 39 40

5 year ave Vectors

2020
Vector Index 2020, 5 Year Average and 2012 (outbreak year)
2020 Season Notes

• 6 Human Cases reported in NWMAD
  • 5 out of 6 cases had a nearest gravid trap Vector Index above 1.5 (7-10 days prior to onset).

• First detection of *Aedes albopictus* in the district.
  • Light/CO₂ trap on 8/11 (Male)
  • Gravid trap on 8/15 (Female)

• No SARs-Covid-19 illness detected in any full or seasonal employee