

Comparison of methods for assessment of *Culex tarsalis* population trends

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Abstract:

We analyzed five years worth of data on *Culex tarsalis* populations in Contra Costa County, including New Jersey light trap counts, EVS trap counts at fixed locations, and larval dip counts. All three data sets were strongly correlated with each other, and also showed strong correlations with ambient temperature. While NJLT and larval dip counts were linearly correlated with temperature, EVS counts were logarithmically correlated with temperature and with the other population measures. Both NJLT and logged EVS data appeared to provide nearly equivalent information on population trends, despite large differences in the number of mosquitoes captured.