



GUIDELINES FOR CONDUCTING LANDING RATE COUNTS

The Landing Rate, expressed as number of mosquitoes landing per minute, is used as an adult mosquito surveillance measure that utilizes human volunteers as bait.

- Divide the city, precinct, or county into four geographical zones and conduct landing rate counts at 4 to 5 locations within each zone.
- Counts should not be taken during the heat of the day because most mosquitoes are inactive.
- Landing rate counts should be taken the same time each day. Recommended Time Period: Early in the day (between 7:30 AM and 10:00 AM) or late in the day (between 5:00 PM and dark)
- Wear solid light-colored long sleeves and pants. Mosquitoes are more easily seen on solid light-colored material versus a dark-patterned background.
- If possible, the same person should perform the counts to maintain consistency of before- and after-spray data.
- No repellents, after-shave lotions, or perfumes should be used.

PROTOCOL

1. Do not stand in direct sunlight. Choose a shaded site near bushes or trees.
2. Disturb surrounding vegetation before starting the counts.
3. Stand still for three minutes before beginning the count. In high density situations, this step may not be necessary as mosquitoes will start landing immediately.
4. Take all landing rate counts from a standing position.
5. Count (aspirate) only those mosquitoes that land in one minute on the front of one leg from the waist to the foot.
6. Complete the “Mosquito Landing Rate Data Sheet”, using real numbers for the mosquito landing counts. For example, 25 or 75 are much more meaningful numbers than 50+ or 100+.
7. Label the collection vial with the location information, collection date, and collector’s name.



Mosquito Landing Rate Data Sheet

City _____ Zone _____ Date _____ (DD/MM/YYYY)
 County _____ ZIP Code _____ Technician Performing Counting _____
 Human Subject _____

No.	Collection Site	X; Longitude -78.50 to -83.37	Y; Latitude 32.00 to 35.30	Time	Count	Weather Conditions (temperature °F, wind, overcast, clear, etc.)
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						

If not a physical street address, provide detailed directions with distances from nearby road intersections. If necessary, draw a map.