

NEW WORLD SCREWORM

Protocol for Sample Collection and Treatment

Supplies

- Exam or dishwashing gloves
- Shatterproof vials with screw top or tight-fitting lids
- 70% ethanol or isopropyl alcohol
- Forceps or tweezers
- Plastic tarp or garbage bags
- Insecticide wound spray and premise treatment
 - <https://www.aphis.usda.gov/sites/default/files/pesticides-for-nws.pdf>
- Chlorhexidine solution
- Other wound or NWS prevention/treatment as directed by veterinarian
 - <https://www.fda.gov/animal-veterinary/safety-health/new-world-screwworm-information-veterinarians#Approval>

Protocol

- **Do not** transport livestock or wildlife from the premises.
- If possible, take clear photos of larvae and wounds.
- Wear gloves and cover any wounds on the person collecting samples.
- Lay a plastic tarp or garbage bag under wound or animal to prevent larvae from burrowing into soil.
- Thoroughly irrigate the wound with a larvicidal liquid or spray. Allow it to remain in contact for approximately five minutes.
- Using forceps, collect multiple-sized larvae from different places within the wound.
 - Wounds may contain both New World screwworm larvae and those of domestic blowfly species.
- Place larvae in a shatterproof vial with 70% ethanol or isopropyl alcohol (not water or formalin).
 - Make sure the alcohol covers specimens completely.
- Thoroughly irrigate the wound with chlorhexidine solution to eliminate bacteria, larval debris and excreta, thereby promoting optimal wound healing.

- Dry the wound completely.
- Apply wound ointment and/or systemic treatments as directed by veterinarian.
- Apply a larvicidal spray to protect the wound from reinfestation.
- Use an insecticide or alcohol/ethanol to kill all larva before disposal. Larva can also be burned.
- Contact local veterinarian, extension agent or state animal health official to submit samples.
 - Record the GPS location of the animal (see instructions at right).
- Inspect wound at least daily and retreat as needed until healed.

AUTHOR

Christine B. Navarre, D.V.M., M.S.,
School of Animal Sciences, LSU AgCenter



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How to Find GPS Location

Apple Maps

1. Open Maps.
2. Tap the arrow/location icon to center on your current location.
3. Touch and hold the blue dot.
4. Swipe up on the information card.
5. Your latitude and longitude will be displayed and can be copied.

Compass App

1. Open the Compass app (built into most iPhones).
2. Your latitude and longitude appear at the bottom of the screen.
3. Copy them exactly as shown.

On Android

1. Open Google Maps.
2. Tap the target/location icon.
3. Press and hold your location until a pin drops.
4. The GPS coordinates (latitude, longitude) will appear in the search bar or information panel.