

# New World Screwworm Sample Collection Protocols

New World screwworm (NWS) flies, larvae, or maggots are often found in preexisting wounds or mucous membranes causing NWS myiasis. After observation, if NWS or myiasis is suspected, samples should be collected and submitted for official identification. Suspected cases of NWS and myiasis are reportable to the Texas Animal Health Commission (TAHC). This guide is provided to aid in the collection and submission of pests for official laboratory identification.

### **Supplies**

The following is needed for NWS collection:

- $\cdot$  Gloves
- · 70% alcohol (ethanol or isopropyl)
- $\cdot$  Forceps  $\,\cdot\,$  Screw cap vial or container
- Tape to seal container
- $\cdot$  Plastic bag with a zipper closure
- · Parasite Submission Form VS 5-38

#### **Collection Procedures**

- Using forceps, gently remove larvae of different sizes from several sites within the open wound.
  - Ensure samples are removed from the deepest part of the wound, secondary myiasis may be present.
- Place the larvae in the vial or container and ensure it is completely submerged in alcohol. Seal the container and place it in the plastic bag for shipment.

#### Submitting Samples

The USDA needs to be informed prior to submitting samples to the National Veterinary Services Laboratory (NVSL).

- Fill out the Parasite Submission Form VS 5-38 with as much information as possible.
- Contact the USDA or OSV to receive a FAD# and shipping label.

Include the provided FAD# on the Parasite Submission Form in block 31: History or Additional Information.

- Email NVSL, vs.db.nvsl.dbrl.parasitology@usda.gov, with the subject line: Suspected Screwworm
- Secure samples in proper shipping container and submit to NVSL.



According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0579-0090. The time required to complete this information collection is estimated to average between .083 and .17 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

OMB Approved 0579-0090 Exp.: 08/2026

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE VETERINARY SERVICES

### PARASITE SUBMISSION FORM

NATIONAL VETERINARY SERVICES LABORATORIES 1920 Dayton Avenue Ames, IA 50010 Telephone: 515-337-7514

INSTRUCTIONS: Print in pencil or type. Prepare separate form for en route.	each species of animal. Form to a	ccompany specimen.	Package spec	imens well to prevent breakage
1. Submitter's Name	2. NVSL Submitter ID	17. Specimen ID		18. Date Collected

3. Business' Name				19. County in which Collected	20. State in which Collected
4. Address				21. Country in which Collected	22. Premises ID
5. City	6. State	6. State		23. Latitude	24. Longitude
8. Telephone Number (Include Area Code) 9. FAX Nun		9. FAX Numb	per	25. Host Origin	
10. Email			26. Host Species (cow, horse, s	26. Host Species ( <i>cow, horse, sheep, dog, etc.</i> )	
11. Owner's Name				27. Where Found on Host (hea	d, ear, flank, back, etc.)
12. City 13. State		14. ZIP Code	28. Animal ID		
15. Collector's Name			16. Port	29. Number of Animals in Lot	30. Number of Animals Infested

31. History or Additional Information

FOR FIELD LABORATORY USE ONLY (Optional)					
32. Date Received	33. Date Identified	34. Referral Number			
35. Tentative Identification					

Identified by:

FOR NATIONAL VETERINARY SERVICES LABORATORIES USE ONLY					
36. Case Number	37. Sample Number	38. Date Received			
39. NVSL Identification					

Identified By: Date

## GUIDELINES AND EXPLANATORY DETAILS FOR VS FORM 5-38: PARASITE SUBMISSION FORM USDA, APHIS, VS, NATIONAL VETERINARY SERVICES LABORATORIES, AMES IA

**INSTRUCTIONS:** Print in pencil or type. Form must accompany specimen. Package specimens to prevent leakage en route. Despite best efforts, specimen vials may break or leak alcohol in transit; when that happens, accompanying forms that were completed in ink may become illegible.

1-10. Submitter Information: If the submitter has an ID assigned previously by NVSL, give the name of the submitter and that ID. For new submitters, or if the ID is not known, please also give the name of the business, mailing address, email address, and telephone and FAX numbers, to whom the identification report will be sent. Specify if there is a preferred method of report delivery; email will be used if no preference is stated. If FAX or email is not available, test reports can be mailed but this will delay delivery of your results. Repeat submitters are encouraged to be consistent with the submitter contact information that they provide, as the NVSL keeps a master record. If the test report for an individual submission needs to be routed to a non-standard destination, include special instructions in Block 31 (History or additional information).

11-14. Owner Information: Give the name, city, State, and ZIP Code of the owner of the host animal.

15. Collector's Name: For multiple collectors, additional names may be given in History or additional information (Field 31).

16. Port: Enter the port of entry, if applicable.

17. Specimen ID: The collector may indicate an identifier for a sample, usually denoting samples taken in series (1, 2, 3, etc.). Please also put that number or other identifier on or in the associated sample container. Also, see instructions for Referral Number (Field 34).

18. Date Collected: Enter the calendar date on which the sample was collected from the host animal.

19-21. County, State, and Country in which specimens were collected: Specify country only for non-USA collection locales.

22-24. Premises ID, Latitude, and Longitude: Give the Premises ID and/or geographical coordinates (if known). List coordinates as decimal degrees when possible (e.g., N27.087821 and W92.021484).

25. Host Origin: Indicate the county, State, and country (if not the USA) of origin of the host animal.

26. Host Species (Cow, horse, sheep, dog, etc.): State the host species from which the parasites were collected. Give only one species, be as specific as possible, and avoid generic terms like "equine", "avian", "reptile", "canine", "feline", etc. Use a separate parasite submission form for each host species. If using "deer", list the kind of deer (white-tailed, mule, etc.). For convenience, names used as examples may be encircled or underlined.

27. Where Found on Host (head, ear, flank, back, etc.): Indicate one or more anatomical sites where the specimen(s) was/were found. Names used as examples may be encircled or underlined.

28. Animal ID: Give ear/back tag numbers, animal name, or other information that identifies the host animal.

29. Number of Animals in Lot: Give a count or estimate of the number of individual animals in the group from which the collection was made.

**30.** Number of Animals Infested: Give a count or estimate of the number of individual animals in the lot that were infested with parasites; this count will be less than or equal to the number in the lot.

**31. History or Additional Information:** This field is open-ended, and may be used to include any additional information pertinent to the collection (e.g., locale, history, quarantine status, additional collectors, etc.), observations on host animal's condition, or additional details. This field also may be used for notes or requests to NVSL.

Fields 32-35 are for tentative identifications made at a field laboratory.

34. Referral number: Give submitter's unique identification number assigned to the sample (e.g., foreign animal disease [FAD] investigation number).

Fields 36-40 are for NVSL use only.