



Please note: This procedure may be revised as needed. The intended audience for this document is all National Animal Health Laboratory Network (NAHLN) laboratories.

All NAHLN Laboratories are expected to:

- Have the capability to electronically message test results for both foreign animal disease investigations (FADi) and outbreak associated testing.
- Electronically message New World Screwworm (NWS) associated results as soon as possible.
- Provide messaged results as either Non-Negative (NONNEG) for any submission being forwarded to NVSL or Not-Detected (NDET) for any submission requiring no further assessment by the Reference Laboratory.
- Only NVSL can report and message confirmatory results.
- Have a documented process in place to ensure that messaged results are successfully received by APHIS, including steps to follow if the messaged results are not received by APHIS.
- Submit Suspect samples to NVSL for further assessment.

Vetting Process for Electronic Messaging

- Approval to electronically message results into the production system requires approval from the NAHLN Program Office.
- Messages for vetting must be sent to MSH.11 "T" (Test environment) and notification must be made to NAHLN.IT@usda.gov.
- Please find detailed information on this process in NVSL-WI-1781 NAHLN Electronic Messaging Guide, page 3 *Initial Vetting Process for Electronic Messaging*, and page 4 (#2-#6).

Message Content specific to screening of samples for NWS:

Program OID:

- Program OID for New World Screwworm: 2.16.840.1.113883.3.5.8.22

FADi & Referral Numbers:

- If submitted as a FAD investigation the FADi number must be submitted in the message in the [orc.4/ei.1 field](#) in the correct format (FYST0000).
- If a submission does not have an FADi number, submission purpose must be something other than "F".
- Submissions may also be reported with a referral number, if so, it should be sent in the message. In the absence of a referral number report 'NI'.

Species:

- If collected in a fly trap: Kingdom Animalia
 - SNOMED: 387961004
- If collected from animal use species of animal.

Animal Identifiers:

- Report traps number/name (ex: County name abbreviation-##/ CFTQ-##).
- If collected from an animal use that animal's identifier as submitted.

Specimen Identifiers:

- Submitter-assigned specimen IDs (typically a barcode) must be sent in the message in the [spm.2/eip.1/ei.1 field](#) exactly as they appear on the submission form, with no spaces or additional characters added.

Collection site:

- If available, include the Premises ID for the location of the animal at time of sample collection in a [PREM rol segment](#) in the [rol.13/pl.10/ei.1 field](#). If the PIN is unknown or it is not certain that it is for the collection site, send 'NI' or what your LIMS vendor uses for no PIN when the field is validated against PIN format.
- State is always required in the prem rol. Address City and zip code should be reported if provided, otherwise report 'NI'.

Note: Labs are not expected to validate the premises ID.

Submission Reasons:

The following are the possible submission reasons for testing associated with NWS screening. Please do not use submission reasons not listed in this table.

Submission Purpose Code	Submission Purpose Text	Comments	NAHLN Lab Interpretation
F	FAD Diagnostics	Samples that are submitted as part of an original foreign animal disease investigation.	FAD investigation with an FAD #
G	General Diagnostics	Diagnostic testing conducted to assess fly or larval specimens that are not submitted as an FADi.	Used for submissions that do not include an FADi number.

Specimen Type:

- Spm.4/cwe.1 and spm.4/cwe.2
- SNOMED
 - 363491000009107: Adult fly specimen

Test LOINC:

There is a need to capture counts for hominivorax and macellaria flies present on a plate, so we have requested tests to capture the count in each category. Additionally with the introduction of sterile flies, counts for them by dye need to be reported as well.

LoincCode	LoincShortName	LoincLongName
X1145-2	Num Cochliomyia hominivorax suspected, but not confirmed flies present	Total Number of Cochliomyia hominivorax suspected, but not confirmed flies present
X1147-8	Num Cochliomyia macellaria suspected, but not confirmed flies present	Total Number of Cochliomyia macellaria suspected, but not confirmed flies present

Sterile Fly Counts:

LoincCode	LoincShortName	LoincLongName
X1210-4	Num sterile green-dyed Cochliomyia hominivorax flies present	Total Number of sterile green-dyed Cochliomyia hominivorax flies present
X1211-2	Num sterile orange-dyed Cochliomyia hominivorax flies present	Total Number of sterile orange-dyed Cochliomyia hominivorax flies present

Reporting Structure:

- Specimen
 - Report each plate as a specimen providing any field identifiers in SPM2/EIP1/EI1 and Lab identifiers in SPM2/EIP2/EI1
 - Use a group specimen if plate- same as if you had received pooled specimens from the field, SPM11='G'
 - Report plate count (# of flies on plate) in SPM13- this count will be provided with the plates when submitted; no need for lab to count.
- Result and Interpretation
 - For each category found on the plate report the count in OBX5
 - Interpretation is tied to the category, report as below:

LoincCode	LoincShortName	Interpretation
X1145-2	Num Cochliomyia hominivorax suspected, but not confirmed flies present	Count > 0: NONNEG Count = 0: NDET
X1147-8	Num Cochliomyia macellaria suspected, but not confirmed flies present	NDET
X1210-4	Num sterile green-dyed Cochliomyia hominivorax flies present	NAI
X1211-2	Num sterile orange-dyed Cochliomyia hominivorax flies present	NAI

Not-Detected Results May be Final

When a NAHLN laboratory has a result of Not-Detected (NDET):

- They should message NDET and finalize reports.

New World Screwworm Messaging Policy Guidance
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- No further testing will happen at NVSL unless requested by the state.

Non-Negative Results Require Samples to be sent to NVSL for Assessment/Confirmation

When a NAHLN laboratory has a result of Non-Negative (NONNEG) for any sample submitted for NWS screening:

- They should message NONNEG and finalize reports.
- Samples must be sent to NVSL for assessment and possible confirmation.

Refer to NVSL-WI-1781 NAHLN Electronic Messaging Guide for further details on electronic messaging. This is a controlled document and a copy can be obtained through your lab's quality management system.