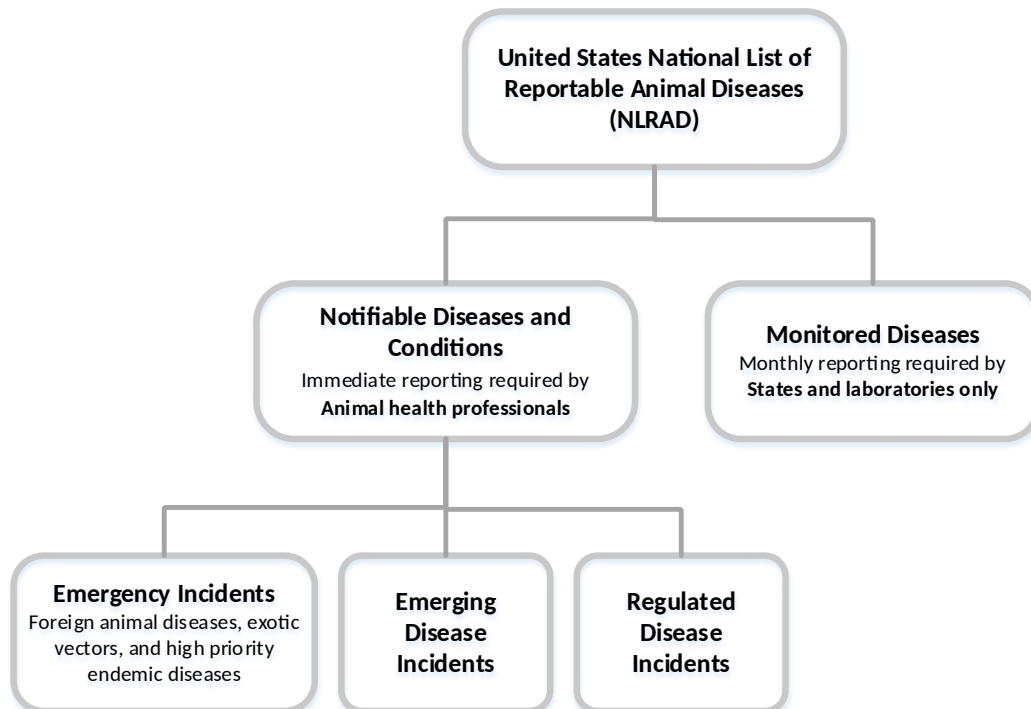


NLRAD Electronic Lab Reporting Project Survey for State Animal Health Officials

A USDA APHS Veterinary Services (VS) project is underway with the goal to have Laboratories report test findings electronically in order to satisfy NLRAD standards. We would like to gather your input about what you would like from this system. If you are willing to provide input, please return this survey by **August**

The [NLRAD Standards](#) will require information to be collected for two categories: Notifiable Diseases and Conditions, and Monitored Diseases (Figure 1). Within the Notifiable Diseases and Conditions category, three sub-categories of diseases have been identified: emergency incidents (such as foreign animal disease investigations), emerging disease incidents, and regulated disease incidents.

Figure 1. NLRAD disease list structure.



The tables below provide a list of data that will be required for reporting notifiable and monitored diseases as part of the NLRAD standards (emerging disease investigations and outbreaks may require more information depending on the situation). Please indicate your current source for receipt of this information for each data field.

1. FOR NOTIFIABLE DISEASES:

In the following table, please indicate from what source you most often receive this information, using the following abbreviations for the three types of notifiable diseases: EI – receive for emergency incidents such as foreign animal disease , exotic vectors or high priority endemic disease incidents, ED – receive for emerging disease incidents, RD – receive for regulated disease incidents. If you do not receive the information from any source, enter N/A.

Data field	Provided by lab?	Provided by regulatory epidemiologists?	Provided by another entity?	(please specify)
<i>EXAMPLE: Animal species</i>	<i>EI, ED, RD</i>	<i>EI, ED, RD</i>		
<i>EXAMPLE: vaccination history</i>			<i>EI</i>	<i>Herd veterinarian</i>
Animal species				
Animal age				
Animal ID				
Clinical signs				
Case/herd history				
Herd type				
Vaccination history				
State where animal located				
Zip code where animal is located				
Premises ID where animal is located				
Address where animal is located				
Owner name				
Owner address				
Laboratory reason for submission				
Sample ID assigned by sample collectors				
Date Sample was Collected				
Sample ID assigned by laboratory				
Lab accession number				
Sample type (example: nasal swab, lung, etc.)				
Diagnostic test performed				
Date Test was Performed				

Diagnostic test results				
Diagnostic test interpretation				

2. FOR MONITORED DISEASES:

Monitored diseases are generally those that are present in the U.S. and are reported to OIE in 6-month and annual reports. APHIS also uses data gathered to monitor changes in disease over time. **For NLRAD monitored diseases, state veterinarians are required to report disease occurrence (e.g. presence/absence) monthly**, however additional information may be requested or provided voluntarily to help monitor disease trends and enhance response and control efforts.

*In the following table, please indicate **what information your office uses to determine presence/absence of a disease in your state**, and from what source you most often receive this information. If you do not receive the indicated information from any source, enter N/A.*

Data field	Provided by lab?	Provided by regulatory epidemiologists?	Provided by another entity?	(please specify)
<i>EXAMPLE: Animal species</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Animal species	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Animal age	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Animal ID	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Clinical signs	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Case/herd history	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Herd type	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Vaccination history	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
State where animal located	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Zip code where animal is located	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Premises ID where animal is located	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Address where animal is located	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Owner name	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Owner address	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Laboratory reason for submission	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Sample ID assigned by sample collectors	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Date Sample was Collected	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Sample ID assigned by laboratory	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Lab accession number	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Sample type (example: nasal swab, lung, etc.)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Diagnostic test performed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Date Test was Performed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Diagnostic test results	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Diagnostic test interpretation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
VOLUNTARY INFORMATION FOR MONITORED DISEASES:				
Data field	Provided by lab?	Provided by regulatory epidemiologists?	Provided by another entity?	(please specify)
<i>EXAMPLE: Number of confirmed cases</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Number of diagnostic tests conducted	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Number of confirmed cases	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Vaccination status	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Number of susceptible animals	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Other – please specify*	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

*For example other epidemiological information needed for investigation of zoonotic diseases

3. Focusing on results you receive from the laboratory only, how do you receive results now for NOTIFIABLE diseases? (Please check all that apply)

- Lab calls SAHO's office with preliminary results.
- Lab calls SAHO's office with final results.
- Lab sends final report to SAHO's office by regular mail.
- Lab emails preliminary report to SAHO's office (e.g. as an attached pdf document or spreadsheet).
- Lab emails final report to SAHO's office (e.g. as an attached pdf document or spreadsheet).
- Lab manually enters results to a state system and the SAHO is able to download or view the report (e.g. as a spreadsheet)
- Lab electronically reports results directly to a state database/system as a spreadsheet
- Lab electronically messages results directly to a state database/system as an HL7 message
- Other (please specify).

4. Who in your office receives laboratory results now for Notifiable diseases? (check all that apply)

- State veterinarian
- Assistant state veterinarian
- Field epidemiologists
- Office staff
- Other (please specify)

5. Are there any differences in laboratory reporting now for the three categories of NOTIFIABLE diseases: emergency incidents (such as foreign animal disease investigations), emerging disease incidents, and regulated disease incidents?

- No
- Yes (please specify how they are different) [free text field]

6. **Focusing on results you receive from the laboratory only**, how do you receive results **now** for **MONITORED** diseases? (Please check all that apply)

- Lab calls SAHO's office with preliminary results.
- Lab calls SAHO's office with final results.
- Lab sends final report to SAHO's office by regular mail.
- Lab emails preliminary report to SAHO's office (e.g. as an attached pdf document or spreadsheet).
- Lab emails final report to SAHO's office (e.g. as an attached pdf document or spreadsheet).
- Lab manually enters results or uploads the report to a state system which the SAHO reviews
- Lab electronically messages results to state database/system. (e.g. results sent directly to an automated storage database/system that is accessed by the SAHO office)
- Other (please specify).

7. Who in your office receives laboratory results **now** for Monitored diseases? (check all that apply)

- State veterinarian
- Assistant state veterinarian
- Field epidemiologists
- Office staff
- Other (please specify)

8. What system(s) do you use to summarize information about diseases that you report to USDA? Check all that apply (We are exploring options for easily feeding data to USDA from the systems you currently use)

- USAHERDS
- SCS
- State owned instance of CoreOne
- Other (please specify)

9. What are the challenges with the way lab information is received and ability to transfer into the NAHRS/NLRAD reporting system? [free text field]

This pilot will be looking at ways to improve NLRAD reporting to both state veterinary offices and to APHIS – for the next set of questions, please provide responses based on **what you would like NLRAD reporting to look like for the future.**

10. For **FUTURE** reporting NLRAD information to APHIS, which scenario is most appealing?

- Have lab send results directly to your office, your office reports NLRAD results to APHIS via current reporting process (e.g. no change to current process).
- Have lab electronically message results to APHIS which would be routed to your state’s system and your office reports via NAHRS.
- Have lab electronically message results to APHIS, but results would only be available to APHIS after your office has reviewed and approved for release (gating process)
- Have lab electronically message results to APHIS, with results accessible to your office and to APHIS simultaneously.
- Other (please specify)

11. In the **FUTURE**, how would you like to be notified that lab results are available for review prior to reporting to APHIS? (check all that apply)

- Email
- Text
- Other (please specify)

12. What else would assist you with reporting NLRAD information to APHIS? [free text]

If you would like to contact us with any additional questions or input below are contact names and information

<p>Leah Estberg, DVM, MPVM, PhD VMO Veterinary Informaticist Center for Informatics (CFI) Strategy and Policy USDA APHIS Veterinary Services Mobile: 970-631-6517 Email: Leah.Estberg@usda.gov</p>	<p>Jane A. Rooney, D.V.M. Veterinary Medical Officer (Epidemiology) NLRAD Coordinator Center for Epidemiology and Animal Health Strategy and Policy USDA APHIS Veterinary Services Ph: 970-494-7397 Mobile: 301-789-3064 Email: Jane.A.Rooney@usda.gov</p>
--	--