



United States Department of Agriculture

# NAHMS Swine 2021 Study

## Fourth Coordinator Webinar

BIOLOGICS OVERVIEW

June 9th, 2021  
9 am -10 am MST





1 Welcome -  
Charles  
Haley/Abby  
Zehr



2 Biologics  
Overview -  
Alyson  
Wiedenheft

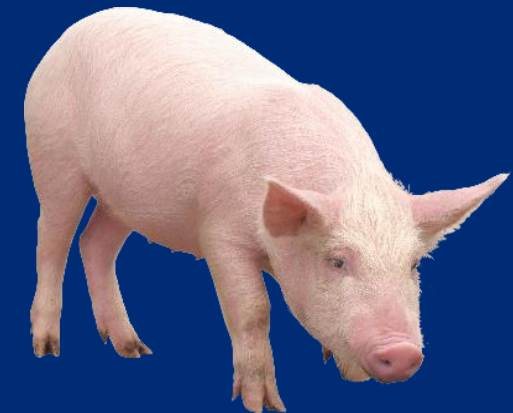


3 Operation  
Visit -  
Alyson  
Wiedenheft



4 Other  
Questions or  
Thoughts

# 1 Welcome



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# Biologics Overview



# Biologics Overview

## General Components of Biologics

- Enteric Microbe Testing
- Oral Fluid Testing

## Collection and Shipping Schedule

- Collection & Shipping Days
- Blackout Days

## Biologic Kits and Paperwork

- Coordinator Kit Shipments
- Farm ID vs NAHMS ID

# General Components of Biologics

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## Enteric Microbe Testing at NCSU

*Campylobacter* and *Enterococcus* isolates speciated and antimicrobial susceptibility testing (AST).

*Salmonella* isolates serogrouped/serotyped and AST.

*E. coli* isolates AST and tested for Shiga toxin (STEC). Positive STEC isolates genotyped. STEC results not returned to the producer.

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## Oral Fluids Testing at ISU

Senecavirus A - **SVA** (Seneca Valley virus)

Aliquots stored for future research

# General Components of Biologics

## Enteric Microbe Testing

### Sample Collection

**30 samples from up to 6 pens** (5 samples/pen) containing pigs 20 weeks and over

### 2 Producer Reports

1. Presence of *Salmonella*, *E. coli*, *Enterococcus*, and *Campylobacter*.
2. -*Salmonella* isolate serotypes, and *Enterococcus* and *Campylobacter* isolates speciated  
AND  
-Antimicrobial Resistance among *Salmonella*, *Enterococcus*, *Campylobacter* and *E. coli*

# General Components of Biologics

## Oral Fluids Testing

### Sample Collection

Collect 8 samples from 8 pens from pigs 20 weeks and older

### Producer Report

The presence (“Positive”) or absence (“Negative”) of the Seneca Valley virus in the samples are reported for each rope sample



# Collection and Shipping

## Collection & shipping days

Samples	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Fecal	Collect*	Collect	Collect	Collect**			
	Ship	Ship	Ship	Ship			
Oral Fluids	Collect*	Collect	Collect	Collect	Collect	Collect**	
	Ship	Ship	Ship	Ship	Ship	Ship	

\*Samples collected on Sunday can be shipped on Sunday if shipping is available. If Sunday shipping is not an option, then samples must be kept refrigerated until they can be shipped on the following Monday. Samples must be shipped within 24 hours of collection.

\*\*Samples collected on this day must be shipped on the **same day**.

## Blackout Days

BLACKOUT SHIPPING DATES	OBSERVED HOLIDAY
September 5	Labor Day (9/6/21)
October 10	Columbus Day (10/11/21)
November 10	Veteran's Day (11/11/21)
November 21-27	Thanksgiving (11/25/21)
December 19-January 1	Christmas (12/25/21)/New Year's (1/1/22)

# Kits and Paperwork

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## Enteric Microbe (EM) Kits

Limited number of kits supplied to coordinators. Not every operation will be able to do enteric sampling.

NAHMS is planning on 150 operations, lab capacity of ~200 samples/week.

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## Oral Fluids (OR) Kits

As many kits as needed for operations that want to test.

No lab capacity issues.

# Kits and Paperwork

## Kit shipments to coordinators Round 1

- Mid-July to August (Let us know if you have storage issues)
- Kits shipped to Coordinator who will distribute them to the field
- Can be used for training VMOs, but don't mix up kit contents
- Oral kits and enteric kits are not 1:1

**\*\*Don't give away all the enteric kits to one VMO\*\***

## Kit shipments to coordinators Round 2

- October
- Kits shipped to Coordinator who will distribute them to the field
- After you receive the 2<sup>nd</sup> round, you can order more Oral Fluid kits by emailing me at [Alyson.M.Wiedenheft@usda.gov](mailto:Alyson.M.Wiedenheft@usda.gov) (please limit the number of enteric kits you request). These kits can be shipped directly to VMOs.

# Kits and Paperwork

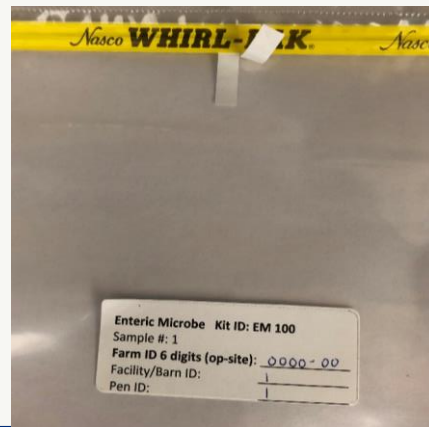
FARM ID= Operation  
& Site

(No State FIPS)

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE VETERINARY SERVICES NATIONAL ANIMAL HEALTH MONITORING SYSTEM 2150 CENTRE AVE, BLDG B FORT COLLINS, CO 80526			<b>2021 NAHMS Swine Large Enterprise VS Visit</b>		
State FIPS: _____ 2 digits	Operation #: _____ 4 digits	Site #: _____ 2 digits	Interviewer: _____ Initials	Date: ____/____/____ mm/dd/yy	
Arrival time at site: _____			Start time of questionnaire: _____		

FARM ID on Labels &  
Collection Record

Coordinator Name  
and Kit ID on  
Collection Record



## Swine 2021: Fecal Collection Record

State Coordinator Name: Dr. Bob Smith

Farm ID	# of People Involved	Key Collector Initials	Collection Date	Hours to Take and Prep Samples	Hours of Overall Travel Time	Kit Number
0999-12	<input checked="" type="checkbox"/> Fed VMO <input type="checkbox"/> Fed AHT <input checked="" type="checkbox"/> Producer <input type="checkbox"/> State VMO <input type="checkbox"/> St AHT <input type="checkbox"/> Priv Vet <input type="checkbox"/> Others-specify: _____	AW	10/16/21	1.75	1.25	100
<small>6-digits: Op, Site    Enter number for each category</small>			<small>MM/DD/YY</small>	<small>In quarter hours</small>	<small>In quarter hours</small>	<small>Must match labels</small>

First answer the following three questions regarding this site:

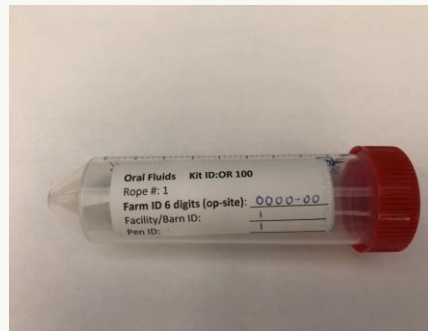
# Kits and Paperwork

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UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE VETERINARY SERVICES NATIONAL ANIMAL HEALTH MONITORING SYSTEM 2150 CENTRE AVE, BLDG B FORT COLLINS, CO 80526			2021 NAHMS Swine Large Enterprise VS Visit		
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Arrival time at site: _____			Start time of questionnaire: _____		

FARM ID on Labels &  
Collection Record



Coordinator Name  
and Kit ID on  
Collection Record

<b>Swine 2021: Oral Fluids Collection Record</b>				State Coordinator Name: <i>Dr. Bob Smith</i>				
Submitter: NAHMS <small>(lab use only)</small>		Owner: Swine 2021 <small>(lab use only)</small>		Site: Use Farm ID <small>(lab use only)</small>		Reference: Use Kit Number <small>(lab use only)</small>	Animal ID: Use Barn ID <small>(lab use only)</small>	
Farm ID <i>0999-12</i>	# of People Involved I Fed VMO ___ Fed AHT I Producer ___ State VMO ___ St AHT ___ Priv Vet ___ Others-specify: _____	Key Collector Initials <i>AW</i>	Collection Date <i>10/16/21</i>	Hours to Take and Prep Samples <i>1.5</i>	Hours of Overall Travel Time <i>1.25</i>	Kit Number <i>101</i>		
<small>6-digits: Op, Site</small>		<small>Enter number for each category</small>		<small>MM/DD/YY</small>		<small>In quarter hours</small>	<small>In quarter hours</small>	<small>Must match labels</small>

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# Operation Visit



# Operation Visit

## Option 1

VMOs/AHTs can collect samples

## Option 2

VMOs/AHTs leave kits with the producers

1. Need to fill out FARM ID, Kit ID, and Coordinator name on paperwork
2. Need to go over sampling and submission instructions
3. Follow up with the Producer to confirm they submitted their samples

# Operation Visit

## Enteric Microbes Note

Enteric microbe kit has more limited days of sample collection and submission. Make sure samples are collected and submitted on the appropriate days. Only a limited number of kits available.

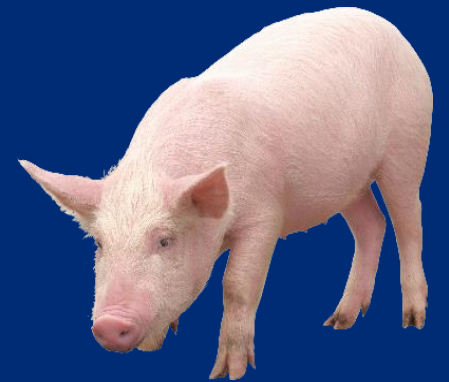
## Oral Fluids Note

Oral Fluid collectors cannot submit the oral fluids with any existing submissions they do routinely to ISU. This needs to remain its own sampling stream.



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# Other Questions or Thoughts



Thank you!

<http://www.aphis.usda.gov/nahms>



### Contacts:

- Charles Haley, 970 225-1377 or [charles.a.haley@usda.gov](mailto:charles.a.haley@usda.gov)
- Alyson Wiedenheft, 970 556-8253 or [alyson.m.wiedenheft@usda.gov](mailto:alyson.m.wiedenheft@usda.gov)