



## SWINE PROGRAM ACTIVITIES 2016

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AVIAN, SWINE & AQUACULTURE  
HEALTH STAFF  
U.S. DEPARTMENT OF  
AGRICULTURE  
ANIMAL AND PLANT HEALTH  
INSPECTION SERVICE  
VETERINARY SERVICES





# Comprehensive Integrated Surveillance activity includes testing streams:

Data Stream	Targeted Populations	Pathogen-Specific Surveillance							Non-Pathogen Specific Surveillance
		CSF	PRV	IAV-S	SB	FMD	ASF	Other	
<b>Harvest (slaughter) surveillance</b>									
Market swine	1° Commercial-growers & finishers /pork	X	X						
Cull sow boar	1° Commercial- breeding populations	X	X		X				
Roaster	1° Commercial; High probability of dz	X							
<b>FAD / Emerging disease reporting</b>									
Foreign animal disease investigation	Domestic and feral swine	X				X	X	X	X
Suspicious cases reported	Domestic and feral swine	X	X	X	X	X	X	X	X
<b>Comingling locations</b>									
Live animal markets	Domestic and feral swine		X		X				
Public exhibitions, sick pigs	Domestic swine			X					
Suspicious cases reported	Domestic and feral swine	X	X	X	X	X	X	X	X
<b>Diagnostic laboratory submissions</b>									
Case compatible sick pig submissions	1° Commercial –Targeted high risk of dz	X	X	X				X	
Routine serology / herd profiles	Commercial swine		X						
Suspicious cases reported	1° Commercial –Targeted high risk of dz	X	X	X	X			X	X
High probability of exposure to feral	Domestic swine –Targeted high risk of dz		X		X				
Suspected exposure to feral swine	Domestic swine –Targeted high risk of dz		X		X				
<b>On-Farm collections</b>									
Waste feeding operations	Domestic swine –Targeted high risk of dz	X						X	X
Designated high risk areas	Domestic swine –Targeted high risk of dz	X	X						
Exposure to feral swine	Domestic swine –Targeted high risk of dz		X					X	
<b>Wildlife monitoring</b>									
Opportunistic feral swine samples	Feral swine- monitor disease reservoirs	X	X	X	X			X	X
Targeted feral swine sampling	Feral swine - in high dz risk areas								X
<b>Enhanced Passive surveillance</b>									
FSIS condemnation data	1° Commercial	X				X	X	X	X
Practitioner observations									
Livestock market observations									
VDL syndromic submissions									



# Classical Swine Fever 2016 Data

- No Positives Identified in FY16; Remaining quarterly reports being generated.

## A. Cumulative year-to-date totals by quarter

Table 1. Cumulative year-to-date number of animals tested by surveillance stream and quarter for FY 2016.

Surveillance stream	Quarter 1 Oct – Dec 2015 YTD Totals <sup>†</sup>	Quarter 2 Jan – Mar 2016 YTD Totals <sup>†</sup>	Quarter 3 Apr – Jun 2016 YTD Totals <sup>†</sup>	Quarter 4 Jul – Sep 2016 YTD Totals <sup>†</sup>	All quarters FY 2016 YTD Totals <sup>†</sup>
Diagnostic laboratories	954	607	-	-	<b>1,561</b>
High-risk slaughter swine	558	243	-	-	<b>801</b>
Feral swine	743	1,161	-	-	<b>1,904</b>
Domestic swine in States with higher probability of CSF introduction	211	1,126	-	-	<b>1,337</b>
<b>TOTAL</b>	<b>2,466</b>	<b>3,137</b>	<b>-</b>	<b>-</b>	<b>5,603</b>

<sup>†</sup>Year-to-date totals are updated each time a new quarterly report is produced



# Pseudorabies Virus Surveillance FY16

- No commercial herds were identified with PRV
- Three transitional herds identified with PRV in FY16
  - Missouri
  - Texas
  - TN hunting preserve
- Herds were handled through controlled marketing, quarantines and/or depopulation



# PRV Surveillance FY 2016

Surveillance Stream		Quarter 1 Oct 1 – Dec 31 2015	Quarter 2 Jan 1 – Mar 31 2016	Quarter 3 Apr 1– Jun 30 2016	Quarter 4 Jul 1 – Sep 30 2016	Fiscal Year-to- Date Total
Diagnostic laboratory serologic submissions:						
Sick pig submissions	Herds	17	0	0	...	17
	Swine	109	0	0	...	109
Routine serology/herd profiling	Herds	1058	679	422	...	2159
	Swine	5369	3508	2145	...	11022
Swine with high probability of feral swine exposure	Herds	188	201	126	...	515
	Swine	1723	1378	996	...	4097
Swine with known feral swine exposure	Herds	16	15	18	...	49
	Swine	153	181	148	...	482
Epidemiologic traceback	Herds	0	0	0	...	0
	Swine	0	0	0	...	0
Total – Diagnostic laboratory serologic submissions	Herds	1279	895	566	...	2740
	Swine	7354	5067	3289	...	15710
Cull sow-boars at slaughter	Swine	44741	41769	39829	...	126339
Market swine at slaughter	Swine	1081	1235	...	...	2316
Feral swine	Swine	760	1263	600	...	2623
Swine cases highly suspicious for PRV	Swine	0	0	0	...	0
<b>TOTAL</b>	<b>Swine</b>	<b>53936</b>	<b>49334</b>	<b>43718</b>	<b>...</b>	<b>146988</b>



# Swine Brucellosis Surveillance FY 2016

- **No commercial herds identified as infected with Brucellosis**
- **12 Transitional herds were identified**
- **NY-6\***
- **VA-1\***
- **NJ-1\***
- **ME-1\***      **\*Epidemiologically linked**
- **HI -2**
- **OK-1**



# Swine Brucellosis Surveillance FY 2016

Surveillance/ Monitoring Stream		Quarter 1	Quarter 2	Quarter 3	Quarter 4	Fiscal
		Oct 1 – Dec 31, 2015	Jan 1 – Mar 31, 2016	Apr 1 – Jun 30, 2016	Jul 1 – Sep 30, 2016	Year-to- Date Total
Cull sow-boars at slaughter	Swine	44741	41769	39829	...	126339
Feral swine monitoring	Swine	673	1262	598	...	2533
<b>TOTAL</b>	Swine	45414	43031	40427	...	128872

**No commercial herds identified as infected with  
Brucellosis**



# FY2016 Swine Health Protection Act

- 19,062 searches for non-licensed feeders
- 78 non-licensed feeders identified
- 6,262 licensed premises
- 86 licenses issued
- 4,399 inspections of licensed premises
- 650 temperature checks





# Swine Enteric Coronavirus 2016

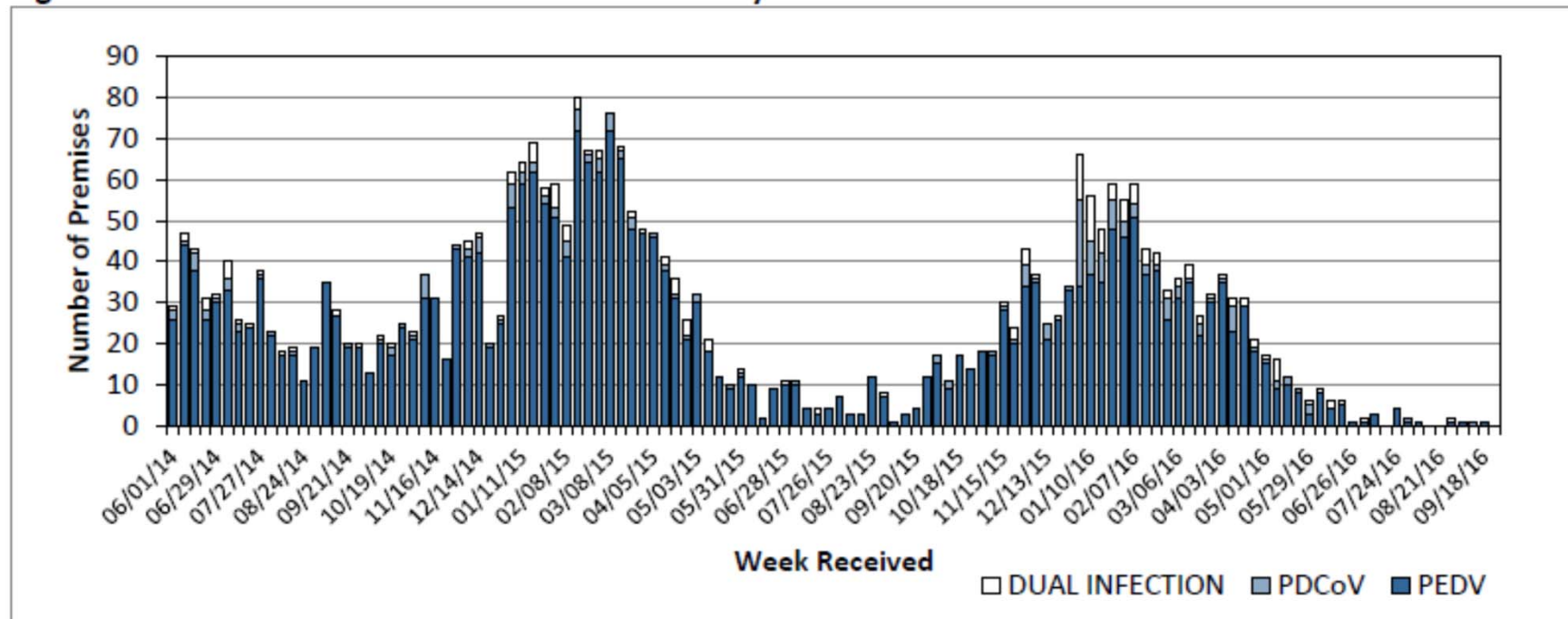
- Federal Order remains
- Reporting still required
- Follow up by VS to verify positive premises occurring
- Biosecurity payments ended
- SECD testing payments ended



# Swine Enteric Coronavirus (SECD)

Figure 1. Number of Confirmed Positive Premises by Week <sup>a</sup>

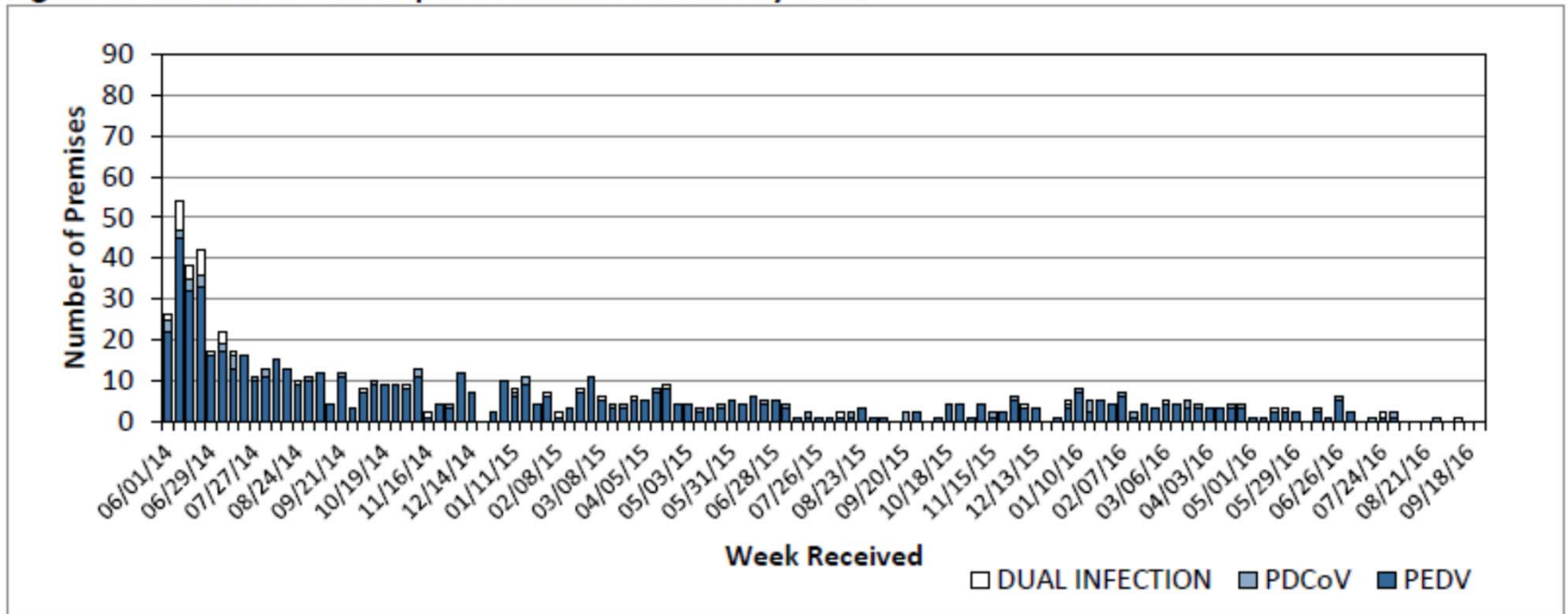
Figure 1. Number of Confirmed Positive Premises by Week <sup>a</sup>



<sup>a</sup>Week the sample was received at the laboratory for testing.

# SECD 2016 Premises

Figure 2. Number of Presumptive Positive Premises by Week <sup>a</sup>



- Data accurate up to October 6<sup>th</sup> report



# Feral Swine

- Feral swine remain a concern for regulatory and foreign animal diseases
- VS collaborates with WS on all feral swine related issues
- WS collaborates with VS on testing of feral swine for diseases of national concern
- SPRS swine staff, CEAH collaborate on feral swine disease models and testing locations



# APHIS Feral Swine Testing

## FY 2016

Disease	Number of States where samples collected	Number of samples tested	% of samples that tested positive
CSF	29	2469	0
PRV	29	2655	18.7
Brucellosis	29	2653	5.5
IAV-S (nasal)	-	-	-
PRRS	-	-	-

- PRV & SB- majority of sample positives in the S.E. US and Hawaii
- Contact VS swine staff for further information/discussion on national monitoring efforts



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