

Immediate notification report

Report reference: REF OIE 15133, Report Date: 21/04/2014, Country : United States of America

Report Summary

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Animal type	Terrestrial	Date of report	21/04/2014
Causal Agent	Novel swine enteric coronavirus	Date of start of the event	15/04/2013
Serotype(s)	Other	Date of pre-confirmation of the event	15/04/2013
Reason	Emerging disease	Disease Name	*Swine novel enteric corona virus disease * (Disease not listed)
Number of reported outbreaks	submitted= 29, Draft= 0		

Disease Impact

Units for morbidity and mortality	Morbidity	Mortality	Zoonotic potential
qual	5	5	

Outbreak details

State	Number of outbreaks	County	Unit Type	Location	Latitude	Longitude	Start Date	End Date:
OHIO- (this report - submitted)	-		Not applicable	Ohio	39.94	-83.0	15/04/2013	
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered		
Swine	Animals	...	276	...	...	...
Affected Population								

State	Number of outbreaks	County	Unit Type	Location	Latitude	Longitude	Start Date	End Date:
INDIANA- (this report - submitted)	-		Not applicable	Indiana	39.83	-86.41	22/04/2013	
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered		
Swine	Animals	...	324	...	...	...
Affected Population								

State	Number of outbreaks	County	Unit Type	Location	Latitude	Longitude	Start Date	End Date:
IOWA- (this report - submitted)	-		Not applicable	Iowa	41.63	-93.7	29/04/2013	
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered		
Swine	Animals	...	1912	...	...	...
Affected Population								

State	Number of outbreaks	County	Unit Type	Location	Latitude	Longitude	Start Date	End Date:
COLORADO- (this report - submitted)	-		Not applicable	Colorado	39.73	-104.98	06/05/2013	
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered		
Swine	Animals	...	77	...	...	...
Affected Population								

State	Number of outbreaks	County	Unit Type	Location	Latitude	Longitude	Start Date	End Date:

State	Number of outbreaks	County		Unit Type	Location	Latitude	Longitude	Start Date	End Date:
MINNESOTA- (this report - submitted)	-			Not applicable	Minnesota	44.95	-93.09	06/05/2013	
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered			
Swine	Animals	...	976	...	...	...
Affected Population									

State	Number of outbreaks	County		Unit Type	Location	Latitude	Longitude	Start Date	End Date:
PENNSYLVANIA- (this report - submitted)	-			Not applicable	Pennsylvania	40.27	-76.88	06/05/2013	
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered			
Swine	Animals	...	82	...	...	...
Affected Population									

State	Number of outbreaks	County		Unit Type	Location	Latitude	Longitude	Start Date	End Date:
MISSOURI- (this report - submitted)	-			Not applicable	Missouri	44.95	-93.09	20/05/2013	
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered			
Swine	Animals	...	132	...	...	...
Affected Population									

State	Number of outbreaks	County		Unit Type	Location	Latitude	Longitude	Start Date	End Date:
OKLAHOMA- (this report - submitted)	-			Not applicable	Oklahoma	35.46	-97.51	20/05/2013	
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered			
Swine	Animals	...	411	...	...	...
Affected Population									

State	Number of outbreaks	County		Unit Type	Location	Latitude	Longitude	Start Date	End Date:
SOUTH DAKOTA- (this report - submitted)	-			Not applicable	South Dakota	44.36	-100.34	27/05/2013	
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered			
Swine	Animals	...	61	...	...	...
Affected Population									

State	Number of outbreaks	County		Unit Type	Location	Latitude	Longitude	Start Date	End Date:
MICHIGAN- (this report - submitted)	-			Not applicable	Michigan	42.73	-84.55	27/05/2013	
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered			
Swine	Animals	...	130	...	...	...
Affected Population									

State	Number of outbreaks	County		Unit Type	Location	Latitude	Longitude	Start Date	End Date:
ILLINOIS- (this report - submitted)	-			Not applicable	Illinois	39.78	-89.65	27/05/2013	
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered			
Swine	Animals	...	542	...	...	...
Affected Population									

State	Number of outbreaks	County		Unit Type	Location	Latitude	Longitude	Start Date	End Date:
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State	Number of outbreaks	County		Unit Type	Location	Latitude	Longitude	Start Date	End Date:
KANSAS- (this report - submitted)	-			Not applicable	Kansas	39.05	-95.68	03/06/2013	
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered			
Swine	Animals	...	243	...	...	...
Affected Population									

State	Number of outbreaks	County		Unit Type	Location	Latitude	Longitude	Start Date	End Date:
NEW YORK- (this report - submitted)	-			Not applicable	New York	42.65	-73.75	18/06/2013	
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered			
Swine	Animals	...	5	...	...	...
Affected Population									

State	Number of outbreaks	County		Unit Type	Location	Latitude	Longitude	Start Date	End Date:
NORTH CAROLINA- (this report - submitted)	-			Not applicable	North Carolina	35.77	-78.65	24/06/2013	
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered			
Swine	Animals	...	585	...	...	...
Affected Population									

State	Number of outbreaks	County		Unit Type	Location	Latitude	Longitude	Start Date	End Date:
TENNESSEE- (this report - submitted)	-			Not applicable	Tennessee	36.16	-86.78	22/07/2013	
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered			
Swine	Animals	...	11	...	...	...
Affected Population									

State	Number of outbreaks	County		Unit Type	Location	Latitude	Longitude	Start Date	End Date:
TEXAS- (this report - submitted)	-			Not applicable	Texas	30.26	-97.73	26/07/2013	
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered			
Swine	Animals	...	59	...	...	...
Affected Population									

State	Number of outbreaks	County		Unit Type	Location	Latitude	Longitude	Start Date	End Date:
WISCONSIN- (this report - submitted)	-			Not applicable	Wisconsin	43.07	-89.4	07/08/2013	
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered			
Swine	Animals	...	13	...	...	...
Affected Population									

State	Number of outbreaks	County		Unit Type	Location	Latitude	Longitude	Start Date	End Date:
KENTUCKY- (this report - submitted)	-			Not applicable	Kentucky	38.2	-84.87	08/10/2013	
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered			
Swine	Animals	...	15	...	...	...
Affected Population									

State	Number of outbreaks	County		Unit Type	Location	Latitude	Longitude	Start Date	End Date:
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State	Number of outbreaks	County		Unit Type	Location	Latitude	Longitude	Start Date	End Date:
MARYLAND- (this report - submitted)	-			Not applicable	Maryland	38.97	-76.49	29/10/2013	
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered			
Swine	Animals	...	1	...	...	...
Affected Population									

State	Number of outbreaks	County		Unit Type	Location	Latitude	Longitude	Start Date	End Date:
NEBRASKA- (this report - submitted)	-			Not applicable	Nebraska	40.8	-96.7	02/12/2013	
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered			
Swine	Animals	...	89	...	...	...
Affected Population									

State	Number of outbreaks	County		Unit Type	Location	Latitude	Longitude	Start Date	End Date:
CALIFORNIA- (this report - submitted)	-			Not applicable	California	38.58	-121.49	27/12/2013	
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered			
Swine	Animals	...	10	...	...	...
Affected Population									

State	Number of outbreaks	County		Unit Type	Location	Latitude	Longitude	Start Date	End Date:
WYOMING- (this report - submitted)	-			Not applicable	Wyoming	41.14	-104.82	30/12/2013	
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered			
Swine	Animals	...	8	...	...	...
Affected Population									

State	Number of outbreaks	County		Unit Type	Location	Latitude	Longitude	Start Date	End Date:
SOUTH CAROLINA- (this report - submitted)	-			Not applicable	South Carolina	33.99	-81.03	06/01/2014	
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered			
Swine	Animals	...	2	...	...	...
Affected Population									

State	Number of outbreaks	County		Unit Type	Location	Latitude	Longitude	Start Date	End Date:
ARIZONA- (this report - submitted)	-			Not applicable	Arizona	33.44	-112.07	28/01/2014	
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered			
Swine	Animals	...	5	...	...	...
Affected Population									

State	Number of outbreaks	County		Unit Type	Location	Latitude	Longitude	Start Date	End Date:
IDAHO- (this report - submitted)	-			Not applicable	Idaho	43.61	-116.21	07/02/2014	
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered			
Swine	Animals	...	3	...	...	...
Affected Population									

State	Number of outbreaks	County		Unit Type	Location	Latitude	Longitude	Start Date	End Date:

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State	Number of outbreaks	County		Unit Type	Location	Latitude	Longitude	Start Date	End Date:
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered			
MONTANA- (this report - submitted)	-			Not applicable	Montana	46.59	-112.02	08/02/2014	
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered			
Swine	Animals	...	2	...	...	...
Affected Population									

State	Number of outbreaks	County		Unit Type	Location	Latitude	Longitude	Start Date	End Date:
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered			
NORTH DAKOTA- (this report - submitted)	-			Not applicable	North Dakota	46.8	-100.79	26/02/2014	
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered			
Swine	Animals	...	2	...	...	...
Affected Population									

State	Number of outbreaks	County		Unit Type	Location	Latitude	Longitude	Start Date	End Date:
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered			
VERMONT- (this report - submitted)	-			Not applicable	Vermont	44.25	-72.57	25/03/2014	
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered			
Swine	Animals	...	1	...	...	...
Affected Population									

State	Number of outbreaks	County		Unit Type	Location	Latitude	Longitude	Start Date	End Date:
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered			
MISSISSIPPI- (this report - submitted)	-			Not applicable	Mississippi	32.29	-90.18	04/04/2014	
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered			
Swine	Animals	...	1	...	...	...
Affected Population									

Outbreak summary: Total outbreaks = 29 (Submitted)

Species	Susceptible	Cases	Deaths	Destroyed	Slaughtered
Swine		5978			

Epidemiology

Epidemiological comments

Epidemiological comments		
Source of the outbreak(s) or origin of infection		
<ul style="list-style-type: none"> • Unknown or inconclusive <p>Novel Swine Enteric Coronavirus Disease(s) (SECoV) is a disease in swine caused by emerging porcine coronaviruses, including porcine epidemic diarrhea virus (PEDv) and porcine delta coronavirus (PDCoV). SECoV affects swine causing diarrhea, vomiting, and 50-100% mortality of infected piglets. The clinical presentation of SECoV infections in growing pigs can be variable in its severity and not readily distinguishable from many other causes of diarrhea in growing pigs. While adult pigs can become infected, mortality is low. SECoV is clinically indistinguishable from transmissible gastroenteritis (TGE), another swine disease caused by a coronavirus that is endemic in the United States.</p> <p>Chronological occurrence of the SECoV event:</p> <ul style="list-style-type: none"> - May 2013: USDA APHIS National Veterinary Services Laboratory (NVSL), in close collaboration with Iowa State University-Veterinary Diagnostic Laboratory (ISU-VDL) confirmed the presence of PEDv in the United States. <ul style="list-style-type: none"> o Iowa State University Veterinary Diagnostic Laboratory (ISU-VDL) managed case reporting of PEDv through the American Association of Swine Veterinarian (AASV) website, https://www.aasv.org/. o Retrospective testing identified PEDv-positive cases from April 2013. - June 2013: The USDA National Animal Health Laboratory Network (NAHLN) began management of SECoV case reporting. - November 2013: The United States provided the OIE with information related to the PEDv situation affecting swine herds. - March 2014: Confirmation of the presence of porcine delta coronavirus (PDCoV); NAHLN began management of PDCoV case reporting. - 2013 – 2014 (ongoing): USDA APHIS Collaborative Efforts with Stakeholders: <ul style="list-style-type: none"> o Development of a PEDv case definition and testing protocols; o Sequenced the PED virus and deposited the information in GenBank; o Banked paired specimens for use in future diagnostic test development; o Diagnostic test evaluations and pathway assessments in progress; o Completed and ongoing epidemiological studies; o Development of a 'Monitoring and Management Program for Novel Swine Enteric Coronavirus Diseases' - As of 16 April 2014: Since its confirmation in the United States, SECoV PCR-positive laboratory accessions have been reported from 29 States. This data only includes voluntarily submitted biological samples. It does not include testing conducted at private laboratories, at the NVSL, or for research purposes. 		
Source of the outbreak(s) or origin of infection		
<ul style="list-style-type: none"> • Unknown or inconclusive 		
Measures applied		
No Control Measures		
Animals treated	Vaccination Prohibited	Treatment Details
Yes	No	Supportive care
Future Reporting		
The event is continuing. Weekly follow-up reports will be submitted.		

Outbreak maps

