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# Swine Enteric Coronavirus Disease (SECD) Situation Report – Dec 4, 2014

Information current as of 12:00 pm MDT, 12/3/14

This report provides information on confirmed SECD-infected premises and SECD laboratory testing results data reported to USDA since the Federal Order was initiated on June 5, 2014. USDA-APHIS-VS veterinary officials confirm SECD-infected premises according to the official case definition. These reports are available on the USDA Web site at [www.aphis.usda.gov/animal-health/secd](http://www.aphis.usda.gov/animal-health/secd). The Web site provides additional SECD information, including reports on SECD laboratory testing prior to the Federal Order.

## Confirmed Positive Premises

**Table 1. SECD Positive Premises This Week and Cumulative since June 5, 2014**

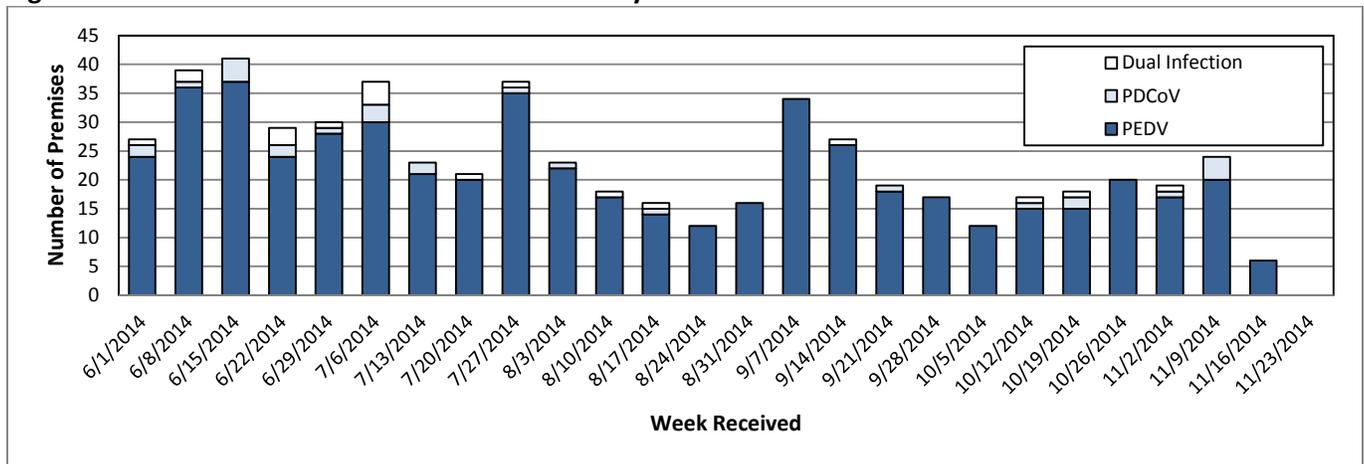
NEW THIS WEEK (NOVEMBER 23 – NOVEMBER 29, 2014)	PEDV	PDCOV	DUAL INFECTION <sup>a</sup>
New Confirmed Positive Premises This Week	19	3	0
New Presumptive Positive Premises This Week	14	0	0
CURRENT PREMISES WITH SECD POSITIVE STATUS	PEDV	PDCOV	DUAL INFECTION <sup>a</sup>
Total Premises with Confirmed Positive Status This Week	534	25	19
CUMULATIVE SINCE JUNE 5, 2014 <sup>b</sup>	PEDV	PDCOV	DUAL INFECTION <sup>a</sup>
Confirmed Positive Premises	546	27	19
Presumptive Positive Premises	340	24	24
Confirmed Positive Premises that have Attained Negative Status (i.e., premises that changed from positive to negative status) <sup>c</sup>	3	2	0

<sup>a</sup>Dual infection indicates premises with both PEDV and PDCoV

<sup>b</sup>Cumulative data includes current premises with positive status and premises that were positive but have acquired negative status

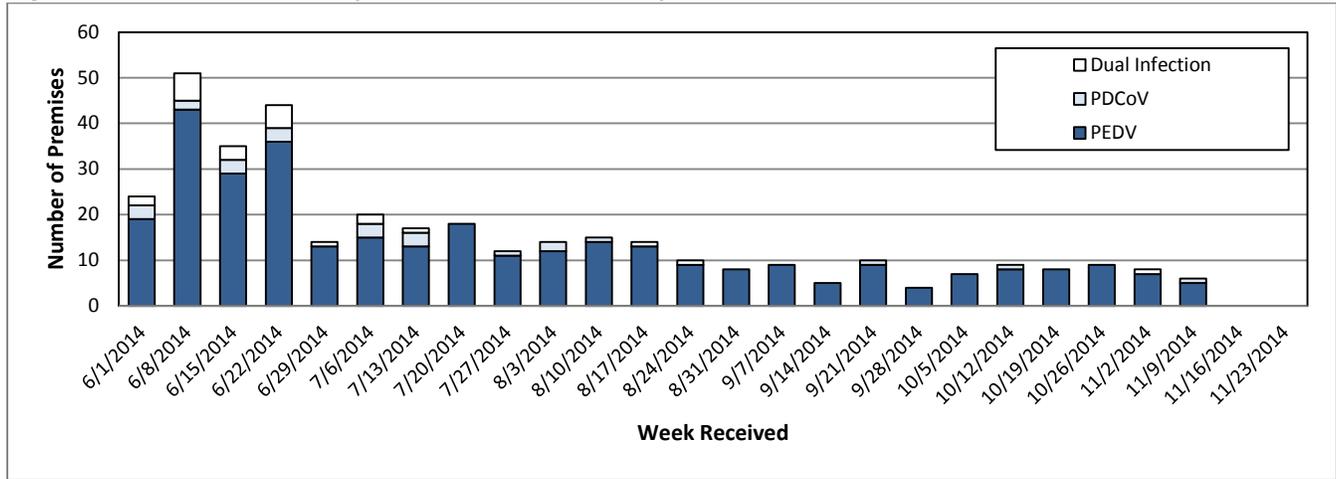
<sup>c</sup>See Notes section of this report for details about premises statuses

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



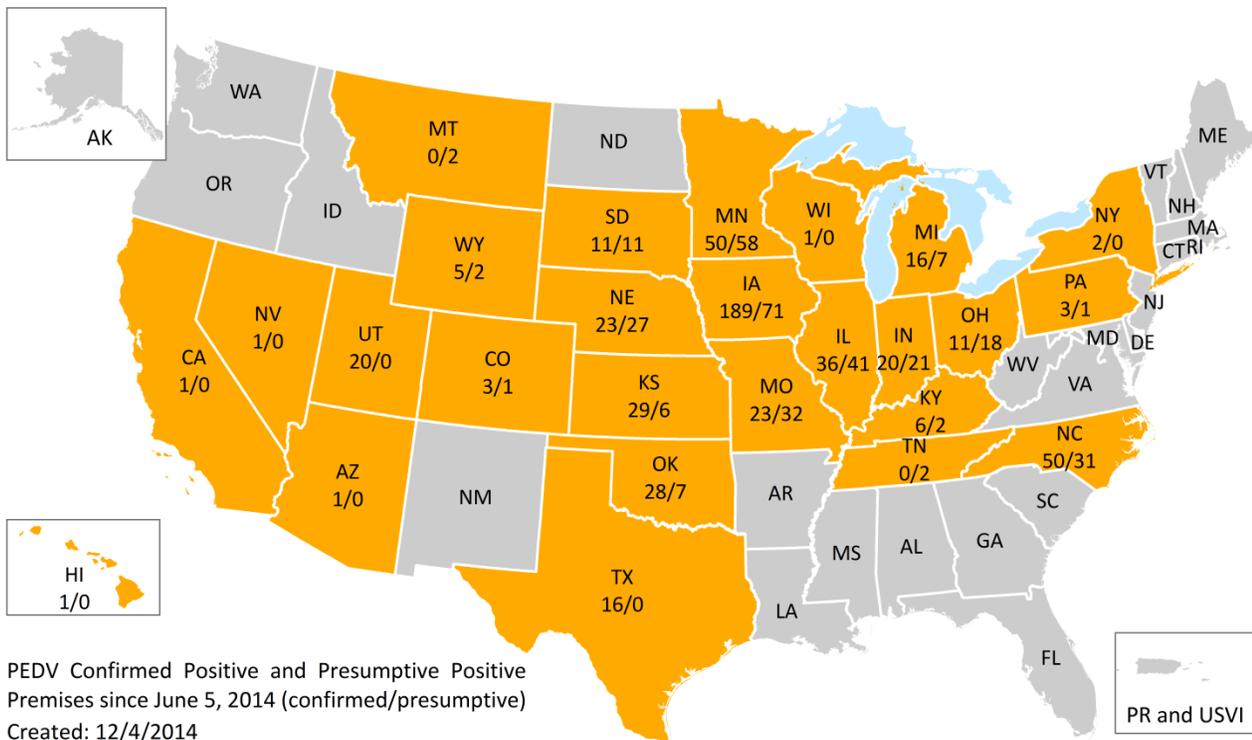
<sup>a</sup>Week the sample was received at the laboratory for testing

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



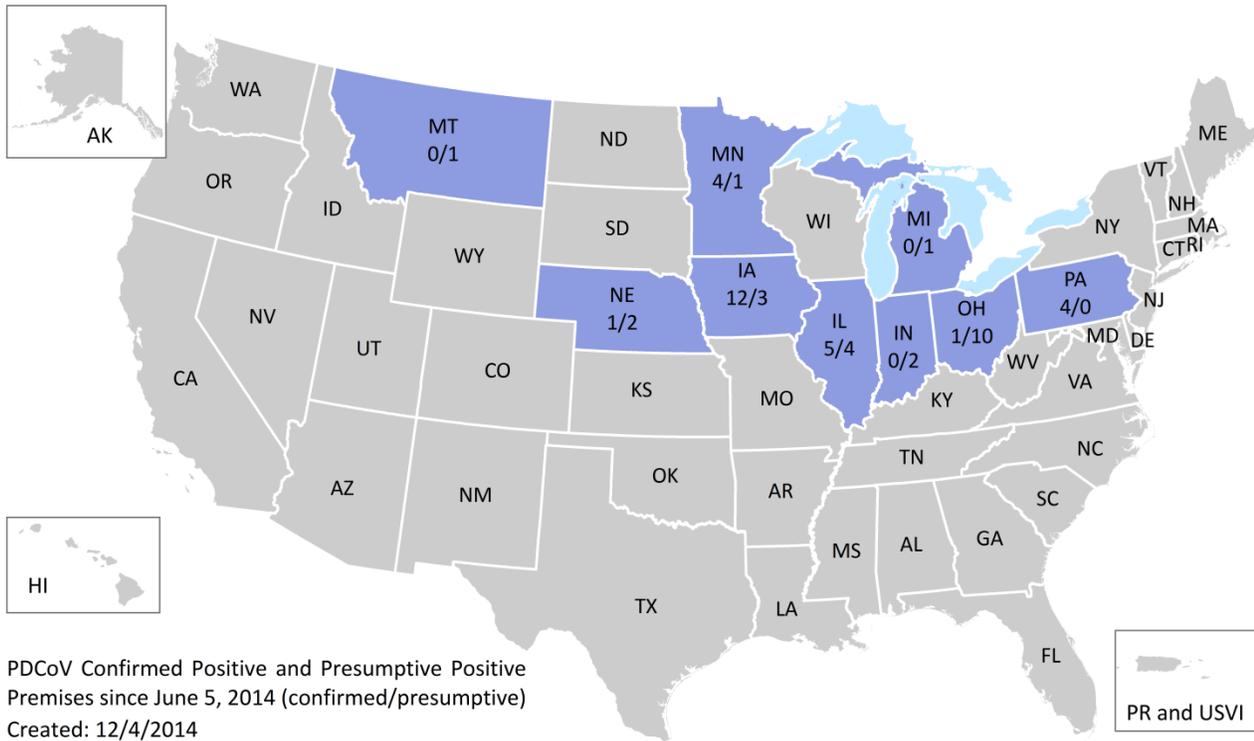
<sup>a</sup>Week the sample was received at the laboratory for testing

**Map 1. PEDV: Cumulative Confirmed and Presumptive PEDV Positive Premises since June 5, 2014**

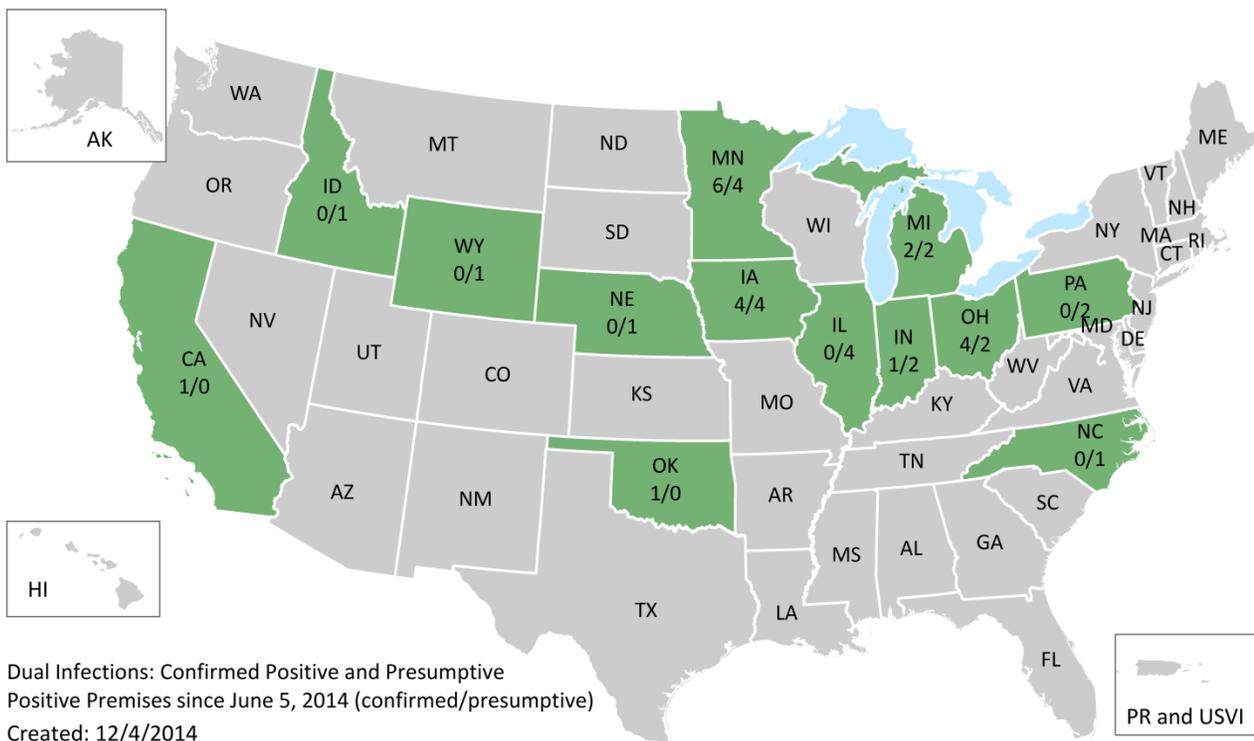


PEDV Confirmed Positive and Presumptive Positive Premises since June 5, 2014 (confirmed/presumptive)  
Created: 12/4/2014

**Map 2. PDCoV: Cumulative Confirmed and Presumptive PDCoV Positive Premises since June 5, 2014**



**Map 3. Dual Infection: Cumulative Confirmed and Presumptive Positive Premises with Both PEDV and PDCoV since June 5, 2014**



**Table 2. Number of SECD Confirmed and Presumptive Positive Premises in Each Production Class, by Month Tested** (includes PEDV, PDCoV, and Dual Infections) (confirmed / presumptive)

MONTH TESTED	NURSERY	WEAN TO FINISH	FARROW TO FINISH	FINISHER	SOW/BREEDING	UNKNOWN
Jun 2014	17 / 9	29 / 15	14 / 8	22 / 18	44 / 43	13 / 51
Jul 2014	27 / 9	36 / 7	7 / 5	21 / 12	31 / 11	16 / 33
Aug 2014	13 / 8	17 / 6	1 / 5	24 / 9	10 / 5	10 / 22
Sep 2014	15 / 2	21 / 5	1 / 2	29 / 8	29 / 4	6 / 12
Oct 2014	1 / 3	24 / 3	2 /	32 / 13	6 /	10 / 7
Nov 2014	3 /	3 / 2	1 /	15 / 1	8 / 6	
Missing/Unknown	2 / 6	2 / 5	1 /	5 / 15	7 / 9	17 / 8
<b>TOTAL</b>	<b>78 / 37</b>	<b>132 / 43</b>	<b>27 / 20</b>	<b>148 / 76</b>	<b>135 / 78</b>	<b>72 / 134</b>

**Table 3. PEDV: Number of Confirmed and Presumptive Positive Premises by Week Tested (confirmed / presumptive)**

WEEK TESTED	TOTAL	AZ	CA	CO	HI	IL	IN	IA	KS	KY	MI	MN	MO	MT	NE	NV	NY	NC	OH	OK	PA	SD	TN	TX	UT	WI	WY
Unknown	10 / 15					/ 1		2 / 3		1 /	/ 2	1 / 4	/ 1		/ 1			/ 1	1 /	5 / 1							/ 1
<6/1/2014	/ 1											/ 1															
6/1/2014	24 / 19					/ 3	/ 2	9 / 4			5 / 1	1 / 1	3 / 5		/ 1			3 / 1	1 / 1		2 /						
6/8/2014	36 / 43					1 / 8	1 / 2	12 / 6	2 /		1 / 1	4 / 5	/ 7		1 / 8			6 / 3	/	3 / 2	1 /	2 / 1		2 /			
6/15/2014	37 / 29					9 / 5	3 / 2	8 / 2	1 /		2 /	3 / 6	1 / 5	/ 1	1 /			4 / 3	2 / 5	1 /		2 /					
6/22/2014	24 / 36					2 / 4	2 / 1	6 / 13	4 /		1 /	5 / 5	/ 3		1 / 6			/ 1	/ 1			2 / 2		1 /			
6/29/2014	28 / 13			/ 1		3 / 2	3 / 1	9 / 2		1 /		4 / 4	1 / 1		1 / 1			4 /	2 / 1			/					
7/6/2014	30 / 15					5 / 2	2 /	11 / 2		2 /		3 / 5	/ 2		/ 1			2 / 2	1 /	1 /		1 / 1					2 /
7/13/2014	21 / 13					3 / 1	/ 1	5 / 2			1 /	2 / 2	/ 1		4 /			3 /	1 / 4	2 /		/ 1					/ 1
7/20/2014	20 / 18					1 /	/ 2	6 / 5			1 /	2 / 1	1 / 1		1 / 1			2 / 2	3 / 2	1 / 1		/ 3		1 /			1 /
7/27/2014	35 / 11	1 /		2 /		6 / 1	2 /	14 / 3				1 / 3	3 /		2 /		1 /	2 / 3			/ 1						1 /
8/3/2014	22 / 12			1 /		1 / 1	2 / 1	9 / 1	1 /	1 / 1	2 / 2	/ 2	1 / 1		1 / 2		1 /	/ 1		1 /							1 /
8/10/2014	17 / 14					1 / 1	1 / 1	5 / 4				3 / 4	/ 1		2 / 1			3 / 1				/ 1		2 /			
8/17/2014	14 / 13						/ 2	6 / 6				4 / 1	1 / 1		1 /			1 / 1	/ 1				/ 1	1 /			
8/24/2014	12 / 9						/ 1	2 / 1	1 /	/ 1	1 /	2 / 2	2 /		/			3 / 2	/ 1				/ 1		1 /		
8/31/2014	16 / 8					1 / 2		6 / 1			1 /	2 / 1	1 / 1		1 / 2			2 / 1		1 /						1 /	
9/7/2014	34 / 9							10 /				4 / 5	/ 1		2 /			4 / 1	/ 1	/ 1						14 /	
9/14/2014	26 / 5					/ 1	1 / 2	11 /				/ 1	2 /					4 /		1 /		3 / 1				4 /	
9/21/2014	18 / 9		1 /			/ 4		9 / 1	/ 1			1 /	3 /	/ 1	2 /			1 / 1		1 / 1							
9/28/2014	17 / 4					2 /	1 /	10 / 2				1 /			/ 1			1 /		2 /		/ 1					
10/5/2014	12 / 7					/ 2	2 /	5 / 1		1 /		/ 1			1 /			3 / 2		/ 1							
10/12/2014	15 / 8					1 /	/ 1	6 / 2			1 / 1	1 / 1	2 /		/ 1	1 /		1 / 1	/ 1	2 /							
10/19/2014	15 / 8							7 / 4	4 /			3 /			1 /			/ 4									
10/26/2014	20 / 9					/ 1	/ 2	10 / 3	6 / 1			2 / 1	/ 1							1 /		1 /					
11/2/2014	17 / 7					/ 1		5 /	1 / 4			/ 2	1 /					1 /		1 /				7 /		1 /	
11/9/2014	20 / 5					/ 1		5 / 3	7 /			1 /	1 /		1 / 1					3 /				2 /			
11/16/2014	6 /				1 /			1 /	2 /											2 /							
<b>TOTAL</b>	<b>546 / 340</b>	<b>1 /</b>	<b>1 /</b>	<b>3 / 1</b>	<b>1 /</b>	<b>36 / 41</b>	<b>20 / 21</b>	<b>189 / 71</b>	<b>29 / 6</b>	<b>6 / 2</b>	<b>16 / 7</b>	<b>50 / 58</b>	<b>23 / 32</b>	<b>/ 2</b>	<b>23 / 27</b>	<b>1 /</b>	<b>2 /</b>	<b>50 / 31</b>	<b>11 / 18</b>	<b>28 / 7</b>	<b>3 / 1</b>	<b>11 / 11</b>	<b>/ 2</b>	<b>16 /</b>	<b>20 /</b>	<b>1 /</b>	<b>5 / 2</b>

**Table 4. PDCoV: Number of Confirmed and Presumptive Positive Premises by Week Tested**  
(confirmed / presumptive)

WEEK TESTED <sup>a</sup>	TOTAL	IL	IN	IA	MI	MN	MT	NE	OH	PA
6/1/2014	2 / 3	/ 1				1 / 1	/ 1	1 /		
6/8/2014	1 / 2								/ 2	1 /
6/15/2014	4 / 3	/ 1		2 /					1 / 2	1 /
6/22/2014	2 / 3			1 / 1					/ 2	1 /
6/29/2014	1 /									1 /
7/6/2014	3 / 3	/ 1		3 / 2						
7/13/2014	2 / 3	1 /		1 /					/ 3	
7/27/2014	1 / 1					1 /			/ 1	
8/3/2014	1 / 2					1 /		/ 2		
8/10/2014	/ 1		/ 1							
8/17/2014	1 /			1 /						
9/21/2014	1 / 1			1 /	/ 1					
10/12/2014	1 / 1	1 /	/ 1							
10/19/2014	2 /	1 /				1 /				
11/2/2014	1 /			1 /						
11/9/2014	4 / 1	2 / 1		2 /						
<b>TOTAL</b>	<b>27 / 24</b>	<b>5 / 4</b>	<b>/ 2</b>	<b>12 / 3</b>	<b>/ 1</b>	<b>4 / 1</b>	<b>/ 1</b>	<b>1 / 2</b>	<b>1 / 10</b>	<b>4 /</b>

<sup>a</sup>Data in this table are current through the date of this report. Weeks are not listed if there were no confirmed or presumptive PDCoV positive premises for that week.

**Table 5. Dual Infection: Number of Confirmed and Presumptive Positive Premises by Week Tested**  
(confirmed / presumptive)

WEEK TESTED <sup>a</sup>	TOTAL	CA	ID	IL	IN	IA	MI	MN	NE	NC	OH	OK	PA	WY
Unknown	/ 1													/ 1
6/1/2014	1 / 2							/ 1		/ 1	1 /			
6/8/2014	2 / 6			/ 1	1 / 1	/ 1	/ 1	1 / 1	/ 1					
6/15/2014	/ 3			/ 1		/ 1		/ 1						
6/22/2014	3 / 5		/ 1	/ 1				2 / 1			1 / 1		/ 1	
6/29/2014	1 / 1					1 / 1								
7/6/2014	4 / 2	1 /				1 / 1	1 /	1 /					/ 1	
7/13/2014	/ 1				/ 1									
7/20/2014	1 /					1 /								
7/27/2014	1 /							1 /						
8/10/2014	1 /							1 /						
8/17/2014	1 / 1						1 / 1							
8/24/2014	/ 1										/ 1			
9/14/2014	1 /					1 /								
10/12/2014	1 /										1 /			
10/19/2014	1 /										1 /			
11/2/2014	1 / 1			/ 1								1 /		
<b>TOTAL</b>	<b>19 / 24</b>	<b>1 /</b>	<b>/ 1</b>	<b>/ 4</b>	<b>1 / 2</b>	<b>4 / 4</b>	<b>2 / 2</b>	<b>6 / 4</b>	<b>/ 1</b>	<b>/ 1</b>	<b>4 / 2</b>	<b>1 /</b>	<b>/ 2</b>	<b>/ 1</b>

<sup>a</sup>Data in this table are current through the date of this report. Weeks are not listed if there were no confirmed or presumptive PEDV and PDCoV dual positive premises for that week.

# SECD Laboratory Accessions

**Table 6. Biological Laboratory Accessions This Week and Cumulative since June 5, 2014**

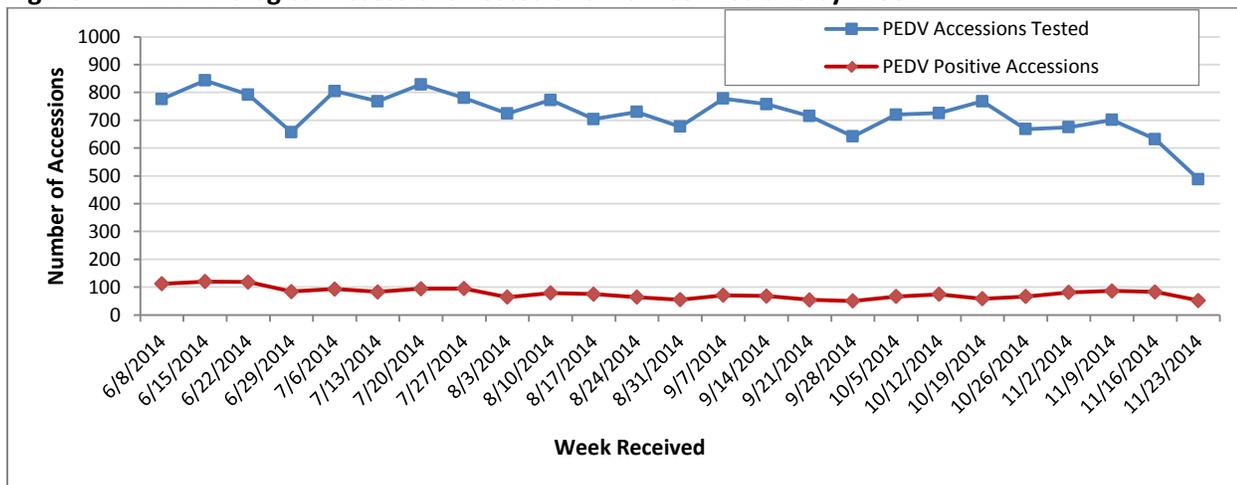
NEW THIS WEEK (NOV 23 – NOV 29, 2014)	PEDV	PDCOV
Positive Accessions	52	3
Accessions Tested	488	305
Percent Positive Accessions	10.7%	1.0%
CUMULATIVE SINCE JUNE 5, 2014	PEDV	PDCOV
Positive Accessions	1,989	204
Accessions Tested	18,349	8,000
Percent Positive Accessions	10.8%	2.6%

**Table 7. Biological Accessions Tested and Number Positive by Month**

MONTH	PEDV			PDCOV		
	TESTED	POSITIVE	% POS	TESTED	POSITIVE	% POS
Jun 2014	2,768	407	14.7%	824	80	9.7%
Jul 2014	3,555	410	11.5%	1,195	46	3.8%
Aug 2014	3,095	312	10.1%	1,193	18	1.5%
Sep 2014	3,143	261	8.3%	1,338	11	0.8%
Oct 2014	3,304	299	9.0%	1,899	19	1.0%
Nov 2014 (month to date)	2,499	299	12.2%	1,553	30	1.9%
<b>TOTAL<sup>a</sup></b>	<b>18,364</b>	<b>1,989</b>	<b>10.8%</b>	<b>8,002</b>	<b>204</b>	<b>2.5%</b>

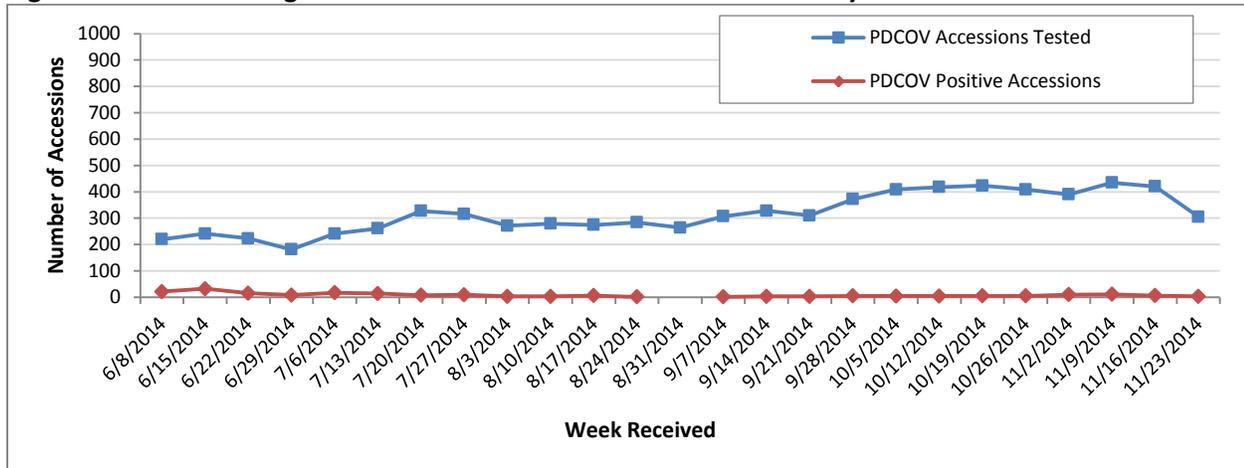
<sup>a</sup>Samples in an individual laboratory accession may be tested in subsequent months (at the start and end of the month), causing an individual accession to be counted in two months. For this reason, Table 7 totals may be slightly higher than totals in Table 6.

**Figure 4. PEDV: Biological Accessions Tested and Number Positive by Week<sup>a</sup>**



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

**Figure 5. PDCoV: Biological Accessions Tested and Number Positive by Week<sup>a</sup>**



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

**Table 8. PEDV Positive Laboratory Accessions by Week Tested and State<sup>a</sup>**

WEEK TESTED	TOTAL POSITIVE ACCESSIONS	AR	AZ	CA	CO	HI	IA	ID	IL	IN	KS	KY	MI	MN	MO	MT	NC	ND	NE	NV	NY	OH	OK	PA	SD	TN	TX	UT	WI	WY	UNK
6/1/2014	46						5		2				4	16	10		2					4	1		1		1				
6/8/2014	112						26		14	3	1	1	3	21	9		10		10			1	5		4		3				1
6/15/2014	121						20		16	5	1		7	33	11		9		4			3	1		6	1	2		1		1
6/22/2014	118						20	1	21	6	3			18	11		7		10			8	4	1	7						1
6/29/2014	84				1		22		14	3	1	2	1	12	6	1	7		4			4	4		2						
7/6/2014	93		1		3		23		11	3		1	3	16	7		9		4				3		4		3			2	
7/13/2014	83			1			10		12	2	1		4	15	9		5		6			6	5		3		1			2	1
7/20/2014	94			1			18	2	11	2			4	14	4		8		2			7	5	1	7		4			3	1
7/27/2014	95		1		3		17		20	2			1	18	6		7		4		1	2	3	1	2		4			3	
8/3/2014	64				2		11		8	3	1	1	5	8	5		5		4		1		3		3	1	1			2	
8/10/2014	79			2	2		16		16	2				16	3		6		3			1	1		4		3		3	1	
8/17/2014	75			2	1		13		10	3	1		4	17	7		6		3			1	3		2	1				1	
8/24/2014	64			2			11		7	1	1		4	9	5		6					4	1	1	3	2	3		1	3	
8/31/2014	55		1	1			8		11	2			2	8	5		3		1			2	2		2		3	2		2	
9/7/2014	71		1	1			12	1	10	1	1		2	18	5		8		2			1	2				1	1	2	2	
9/14/2014	68		1	2			18	1	5	2			1	7	8		7	1				1	1	1	5		2	3		1	
9/21/2014	54		2	2			14		11	1	1		1	3	9	1	2		3				1		1		1			1	
9/28/2014	50		1	1			13		5	4			2	7	4		3		1				3	1	3		1			1	
10/5/2014	66	1	1	1	1		10		13	4		1	2	9	5		7	1	2			1	2		1		3			1	
10/12/2014	74		1	1			19		7	3		1	3	11	8		2		1	1		2	3		5		2	2	1	1	
10/19/2014	58		1	1			15		6	1	5			10	4		6		2			1			1		4			1	
10/26/2014	67			1	2		13		10	4	9			4	3			2				2	3		4		4	3		2	1
11/2/14	81			1			11		2	3	5	1	2	3	9		4						10				14	2	1	2	11
11/9/14	86						9		10	1	12		1	9	5		2		2			1	5		1		7	1		3	17
11/16/2014	83			1	1	1	6	1	5		14		2	3	4	1	4		3			1	14				8			2	12
11/23/2014	52						7		7		6	1	1	4	5		6		1				2								12
<b>TOTAL<sup>b</sup></b>	<b>1,993</b>	<b>1</b>	<b>11</b>	<b>21</b>	<b>16</b>	<b>1</b>	<b>367</b>	<b>6</b>	<b>264</b>	<b>61</b>	<b>63</b>	<b>9</b>	<b>59</b>	<b>309</b>	<b>167</b>	<b>3</b>	<b>141</b>	<b>4</b>	<b>72</b>	<b>1</b>	<b>2</b>	<b>53</b>	<b>87</b>	<b>6</b>	<b>71</b>	<b>5</b>	<b>75</b>	<b>14</b>	<b>9</b>	<b>36</b>	<b>59</b>

<sup>a</sup>For Laboratory Accession Data, the State is the collection site State that was reported by the testing Laboratory to USDA.

<sup>b</sup>Samples in an individual laboratory accession may be tested in subsequent weeks (at the start and end of the week), causing an individual accession to be counted in two weeks. For this reason, Totals in Table 8 may be slightly higher than Totals in Table 6.

**Table 9. PDCoV Positive Laboratory Accessions by Week Tested and State<sup>a</sup>**

WEEK TESTED	TOTAL POSITIVE ACCESSIONS	CA	IA	ID	IL	IN	MI	MN	MO	MT	NC	NE	OH	OK	PA	SD	TX	WY	UNK
6/1/2014	8				1			4		1			2						
6/8/2014	21				2	1	1	5	2		1	2	1		2	3			1
6/15/2014	32		3		1	2		17	1				5		1	1			1
6/22/2014	15		1			2		3					5		1	2			1
6/29/2014	8		2				1	1	1		1				1				1
7/6/2014	17		7		1	1	1	5					1		1				
7/13/2014	14	1	2		1	2		1					5			1		1	
7/20/2014	7	1	1	2	1			2											
7/27/2014	9		2					2					3				2		
8/3/2014	3								1			2							
8/10/2014	3	1			1								1						
8/17/2014	6		1			1	1		1			2							
8/24/2014	1												1						
9/7/2014	1			1															
9/14/2014	3		1			1		1											
9/21/2014	3		1		1	1													
9/28/2014	5		3			1		1											
10/5/2014	4		1			1	1	1											
10/12/2014	4		1			1		1					1						
10/19/2014	5				3			1					1						
10/26/2014	5				4	1													
11/2/14	10	1	1	1			1	2						1					3
11/9/14	11		1		4	2					1								3
11/16/14	6			2	1			2					1						
11/23/14	3				2			1											
<b>TOTAL<sup>b</sup></b>	<b>204</b>	<b>4</b>	<b>28</b>	<b>6</b>	<b>23</b>	<b>17</b>	<b>6</b>	<b>50</b>	<b>6</b>	<b>1</b>	<b>3</b>	<b>6</b>	<b>27</b>	<b>1</b>	<b>6</b>	<b>7</b>	<b>2</b>	<b>1</b>	<b>10</b>

<sup>a</sup>For Laboratory Accession Data, the State is the collection site State that was reported by the testing Laboratory to USDA.

<sup>b</sup>Samples in an individual laboratory accession may be tested in subsequent weeks (at the start and end of the week), causing an individual accession to be counted in two weeks. For this reason, Totals in Table 8 may be slightly higher than Totals in Table 6.

## Notes About Data Used in This Report

- This report is posted on the USDA SECD Web site ([www.aphis.usda.gov/animal-health/secd](http://www.aphis.usda.gov/animal-health/secd)). This Web site also provides information on SECD laboratory testing prior to the Federal Order (April 2013 - June 2014), and information on SECD reporting, case definitions, herd plans, vaccines, and the Federal response.
- Dual infection indicates a premises that is positive for both PEDV and PDCoV.
- Premises statuses are assigned in accordance with the Novel Swine Enteric Coronavirus Disease Case Definition (available online at [www.aphis.usda.gov/animal-health/secd](http://www.aphis.usda.gov/animal-health/secd)). A confirmed positive premises is a premises where pigs have tested positive and have also had clinical signs. A presumptive positive premises is a premises where pigs have tested positive but have non-specific, unknown, or no clinical signs consistent with SECD.
- Some positive premises may have a change in their type of positive status. For example, with the onset of clinical signs, a presumptive positive premises may be reclassified to a confirmed positive premises. Or PEDV positive premises may be re-classified to a dual infection status with the laboratory diagnosis of PDCoV. Therefore the number of cumulative positive statuses will be slightly more than the sum of the number of current positive statuses and positive statuses reclassified as negative.
- In general, a laboratory accession is a set of samples collected at a single premises on a single day and submitted to the laboratory. A single herd or premises may be tested multiple times, and the same herd or premises may be represented in a large number of laboratory accessions.
- Laboratory accession data in this report includes only PCR results from testing on biological samples; testing on environmental or feed samples is not included.
- In the laboratory accession section of this report, State is the Collection State that was reported by the testing laboratory to USDA; State of origin data provided by laboratories is not verified by USDA. However, the locations of premises associated with positive laboratory accessions are verified by USDA staff and reported in the premises section of this report.
- Veterinary diagnostic laboratories that have reported SECD testing data to the USDA APHIS VS since June 5, 2014 include: Arkansas Livestock & Poultry Commission Laboratory; University of Georgia – Athens; University of Illinois Veterinary Diagnostic Laboratory; Illinois Department of Agriculture, Galesburg Animal Disease Laboratory; Iowa State University Veterinary Diagnostic Laboratory; Kansas State Veterinary Diagnostic Laboratory; Michigan State University-- Diagnostic Center for Population and Animal Health; University of Minnesota Veterinary Diagnostic Laboratory; Missouri Department of Agriculture Veterinary Diagnostic Laboratory; University of Nebraska Veterinary Diagnostic Center; Rollins Diagnostic Laboratory - North Carolina Department of Agriculture; North Dakota State University Veterinary Diagnostic Laboratory; Ohio Animal Disease Diagnostic Laboratory – Ohio Department of Agriculture; Oregon State University Veterinary Diagnostic Laboratory; Indiana Animal Disease Diagnostic Laboratory at Purdue University; Animal Disease Research & Diagnostic Laboratory - South Dakota State University; and Texas Veterinary Medical Diagnostic Laboratory. Data in this report does not include testing data from private diagnostic laboratories or testing data from for research projects.

- Data summaries provided in this report reflect the most current and complete data available at the time of report preparation; summaries in this report may differ from those provided in past reports.