

Porcine Epidemic Diarrhea virus (PEDv) Testing Data from NAHLN Laboratories

Report prepared 01/08/2014

- This report was prepared by USDA APHIS VS NVSL National Animal Health Laboratory Network (NAHLN); the report covers the reporting period of 12/29/2013 through 01/04/2014.
 - Due to the Federal shutdown, the NAHLN report was suspended for the weeks of 9/22/13 through 10/6/13. However, the University of Minnesota Diagnostic Laboratory collected and reported PEDv testing data during that timeframe.
 - This report includes data from that timeframe in order to be as comprehensive as possible.
- Data are updated as new information is received and laboratory and/or field follow-up is conducted. Therefore, data summaries provided in this report may differ from those provided in past reports. Additionally, note that the total number of swine accessions does not necessarily equal the number of farm type/age class totals due to accessions that include pigs from different age classes.
- Veterinary diagnostic laboratories that have reported PEDv testing data to NAHLN include: Iowa State University, Kansas State University, Ohio Department of Agriculture, Purdue University, University of Illinois, University of Minnesota, Nebraska Veterinary Diagnostic Center and South Dakota State University.
- Starting the week of 6/16/2013, PEDv testing data was coordinated and reported by USDA NAHLN. Weekly data prior to 6/16/2013 was provided by Iowa State University Diagnostic Laboratory.
- Tables 1-5 summarize data from swine samples only (or accessions / premises with biological samples). Table 6 summarizes data from environmental samples only.
- Tables 1-2: For the weeks prior to 6/16/2013, laboratories were able to provide diagnostic case submissions and number of premises testing positive for PEDv. These are represented by the Subtotal. Starting 6/16/2013, the data are limited to ONLY diagnostic case submissions (aka Swine Accessions).

Table 1. Total number of PEDv positive laboratory swine accessions / premises tested per week

Week of	Total Number of Swine Accessions/Diagnostic Case Submissions Testing Positive for PEDv	Farm Type / Age Class				
		Suckling	Nursery	Grower / Finisher	Sow / Boar	Unk
4/15/2013	2	0	0	1	0	0
4/22/2013	1	0	0	1	0	0
4/29/2013	9	0	0	5	1	0
5/6/2013	17	0	0	7	4	3
5/13/2013	10	0	0	3	5	1
5/20/2013	44	0	0	33	7	3
5/27/2013	32	0	0	22	6	1
6/3/2013	55	0	0	34	13	5
6/10/2013	48	0	0	24	11	7
Subtotals *	218	Not Reported	Not Reported	130	47	20
6/16/2013	47	7	5	13	11	14
6/23/2013	37	7	7	13	1	9
6/30/2013	10	3	3	3	1	0
7/7/2013	34	2	5	15	10	3
7/14/2013	33	4	10	10	4	6
7/21/2013	24	2	2	8	4	9
7/28/2013	31	7	6	9	5	7
8/4/2013	27	12	1	9	6	1
8/11/2013	36	20	7	4	6	1
8/18/2013	30	11	12	2	3	2
8/25/2013	26	9	8	0	6	3
9/1/2013	31	6	10	8	4	3
9/8/2013	28	16	6	2	4	3
9/15/2013	32	11	8	7	1	5
9/22/2013	40	6	6	11	10	8
9/29/2013	42	8	10	11	6	8
10/6/2013	43	14	10	12	5	2
10/13/2013	56	22	11	14	2	7
10/20/2013	68	26	7	15	15	5
10/27/2013	85	23	16	28	17	4
11/3/2013	90	17	28	28	7	12
11/10/2013	92	16	28	36	4	12
11/17/2013	116	34	20	39	6	21
11/24/2013	96	21	23	15	3	34
12/1/2013	141	29	26	36	11	42
12/8/2013	132	22	36	37	9	29
12/15/2013	187	36	44	49	10	52
12/22/2013	118	22	21	35	7	36
12/29/2013	134	24	25	34	16	44
TOTAL	2084	437	401	633	241	402

Table 2. Total number of POSITIVE laboratory swine accessions / diagnostic case submissions per week from each State*. Only States with positive PEDv accessions are included in this summary table.

Week of	Total Number of Swine Accessions/Diagnostic Case Submissions Testing Positive for PEDv	CA	CO	IA	IL	IN	KS	KY	MD	MI	MN	MO	NC	NE	NY	OH	OK	PA	SD	TN	TX	WI	WY	Unk
4/15/2013	2		0	0	0	0	0	0		0	0	0	0		0	1	0	0	0	0	0	0		0
4/22/2013	1		0	0	0	1	0	0		0	0	0	0		0	0	0	0	0	0	0	0		0
4/29/2013	9		0	5	0	0	0	0		0	0	0	0		0	1	0	0	0	0	0	0		0
5/6/2013	17		1	8	0	3	0	0		0	1	0	0		0	0	0	1	0	0	0	0		0
5/13/2013	10		1	4	0	0	0	0		0	4	0	0		0	0	0	0	0	0	0	0		0
5/20/2013	44		5	25	0	2	0	0		0	7	1	0		0	2	1	0	0	0	0	0		0
5/27/2013	32		0	22	1	1	0	0		1	3	0	0		0	0	0	0	1	0	0	0		0
6/3/2013	55		0	21	0	2	3	0		2	2	0	0		0	0	17	2	0	0	0	0		3
6/10/2013	48		0	17	0	1	3	0		0	2	0	0		0	0	20	1	0	0	0	0		3
Subtotals *	218		7	102	1	10	6	0		3	19	1	0		0	4	38	4	1	0	0	0		6
6/16/2013	47	0	1	10	0	1	7	0	0	0	8	0	0	0	1	3	16	0	0	0	0	0	0	0
6/23/2013	37	0	1	15	0	1	1	0	0	0	4	0	2	0	0	0	13	0	0	0	0	0	0	0
6/30/2013	10	0	0	3	0	0	0	0	0	0	0	0	2	0	0	2	3	0	0	0	0	0	0	0
7/7/2013	34	0	1	6	1	2	4	0	0	0	2	0	3	0	0	2	11	0	0	0	0	0	0	2
7/14/2013	33	0	2	7	0	4	7	0	0	1	3	0	2	0	0	0	7	0	0	0	0	0	0	0
7/21/2013	24	0	1	6	0	1	3	0	0	0	0	0	7	0	0	0	4	0	0	1	1	0	0	0
7/28/2013	31	0	1	5	1	1	7	0	0	0	3	0	2	0	0	1	10	0	0	0	0	0	0	0
8/4/2013	27	0	1	9	1	1	6	0	0	0	1	0	2	0	0	0	5	0	0	0	0	1	0	0
8/11/2013	36	0	6	4	0	0	13	0	0	0	0	0	5	0	0	0	7	0	0	0	0	0	0	1
8/18/2013	30	0	1	6	0	1	5	0	0	0	0	0	1	0	0	2	14	0	0	0	0	0	0	0
8/25/2013	26	0	0	2	0	1	3	0	0	0	2	0	4	0	0	1	10	3	0	0	0	0	0	0
9/1/2013	31	0	2	6	0	1	8	0	0	0	1	0	4	0	0	0	4	5	0	0	0	0	0	0
9/8/2013	28	0	0	0	0	0	7	0	0	0	0	0	6	0	0	1	13	0	0	1	0	0	0	0
9/15/2013	32	0	0	7	0	1	3	0	0	0	2	0	12	0	1	0	5	1	0	0	0	0	0	0
9/22/2013	40	0	1	3	0	1	5	0	0	0	1	0	24	0	0	0	4	0	0	0	0	0	0	1
9/29/2013	42	0	2	6	0	0	2	0	0	0	2	0	19	0	0	0	6	1	0	0	3	0	0	1
10/6/2013	43	0	1	6	0	0	6	1	0	0	1	0	21	0	0	0	6	1	0	0	0	0	0	0
10/13/2013	56	0	0	10	0	0	4	1	0	0	5	0	21	0	0	0	13	2	0	0	0	0	0	0
10/20/2013	68	0	1	20	2	1	9	1	0	0	2	0	22	0	0	0	9	1	0	0	0	0	0	0
10/27/2013	85	0	0	33	4	1	3	0	1	0	5	0	17	0	0	1	13	2	0	1	3	1	0	0
11/3/2013	90	0	0	38	1	1	6	0	0	2	7	2	14	0	0	5	10	1	0	1	1	1	0	0
11/10/2013	92	0	1	51	0	0	1	0	0	2	8	1	15	0	0	4	5	1	0	0	3	0	0	0
11/17/2013	116	0	1	48	5	3	5	0	0	0	17	0	14	0	0	4	11	1	0	1	6	0	0	0
11/24/2013	96	0	1	25	0	4	1	1	0	0	19	0	19	0	0	9	12	0	1	0	3	1	0	0
12/1/2013	141	0	2	66	10	10	4	0	0	0	23	0	8	1	0	5	6	3	0	0	2	0	0	1
12/8/2013	132	0	0	65	8	6	5	0	0	2	18	3	12	0	0	3	7	1	0	0	1	0	0	1

12/15/2013	187	0	1	96	15	9	3	0	0	0	27	5	20	1	0	3	5	1	0	0	0	0	0	1
12/22/2013	118	0	0	61	8	3	5	0	0	2	17	2	5	1	0	5	3	0	0	0	2	0	0	4
12/29/2013	134	1	0	54	14	3	4	0	0	0	20	4	18	2	0	5	2	0	3	1	1	0	1	1
TOTAL	2084	1	35	770	71	67	143	4	1	12	217	18	301	5	2	60	272	28	5	6	26	4	1	19

Table 3. Total number of swine samples testing POSITIVE for PEDv per week from each State. Only States with positive PEDv samples are included in this summary table. Laboratories began reporting number of samples the week of 06/16/2013.

Week of	Total Number of Biological Samples Testing Positive for PEDv	CA	CO	IA	IL	IN	KS	KY	MD	MI	MN	MO	NC	NE	NY	OH	OK	PA	SD	TN	TX	WI	WY	Unk
6/16/2013	163	0	2	15	0	1	37	0	0	0	20	0	0	0	1	12	75	0	0	0	0	0	0	0
6/23/2013	164	0	6	25	0	2	4	0	0	0	7	0	16	0	0	0	104	0	0	0	0	0	0	0
6/30/2013	58	0	0	4	0	0	0	0	0	0	0	0	18	0	0	13	23	0	0	0	0	0	0	0
7/7/2013	171	0	4	8	4	3	47	0	0	0	3	0	14	0	0	24	61	0	0	0	0	0	0	3
7/14/2013	140	0	6	17	0	8	35	0	0	1	7	0	30	0	0	0	36	0	0	0	0	0	0	0
7/21/2013	117	0	6	10	0	4	38	0	0	0	0	0	42	0	0	0	10	0	0	5	2	0	0	0
7/28/2013	113	0	4	15	6	1	50	0	0	0	9	0	5	0	0	1	22	0	0	0	0	0	0	0
8/4/2013	68	0	2	22	1	1	19	0	0	0	1	0	9	0	0	0	10	0	0	0	0	3	0	0
8/11/2013	163	0	12	10	0	0	89	0	0	0	0	0	12	0	0	0	39	0	0	0	0	0	0	1
8/18/2013	72	0	5	15	0	2	12	0	0	0	0	0	1	0	0	3	34	0	0	0	0	0	0	0
8/25/2013	71	0	0	2	0	2	14	0	0	0	2	0	21	0	0	2	22	6	0	0	0	0	0	0
9/1/2013	85	0	26	9	0	1	20	0	0	0	2	0	12	0	0	0	6	9	0	0	0	0	0	0
9/8/2013	79	0	0	0	0	0	25	0	0	0	0	0	11	0	0	16	26	0	0	1	0	0	0	0
9/15/2013	130	0	0	9	0	1	16	0	0	0	9	0	61	0	3	0	30	1	0	0	0	0	0	0
9/22/2013	156	0	1	3	0	1	20	0	0	0	5	0	114	0	0	0	4	0	0	0	0	0	0	8
9/29/2013	165	0	5	17	0	0	7	0	0	0	14	0	84	0	0	0	18	2	0	0	10	0	0	8
10/6/2013	184	0	2	11	0	0	22	1	0	0	5	0	111	0	0	0	31	1	0	0	0	0	0	0
10/13/2013	241	0	0	15	0	0	27	2	0	0	25	0	81	0	0	0	63	28	0	0	0	0	0	0
10/20/2013	280	0	1	42	17	2	35	1	0	0	27	0	105	0	0	0	49	1	0	0	0	0	0	0
10/27/2013	329	0	0	82	23	1	6	0	1	0	9	0	127	0	0	1	65	1	0	5	7	1	0	0
11/3/2013	292	0	0	111	3	2	27	0	0	3	18	3	48	0	0	9	60	1	0	2	3	2	0	0
11/10/2013	372	0	2	129	0	0	14	0	0	7	36	4	120	0	0	12	17	21	0	0	10	0	0	0
11/17/2013	306	0	15	83	10	6	19	0	0	0	28	0	54	0	0	5	56	5	0	4	21	0	0	0
11/24/2013	412	0	7	49	0	5	1	2	0	0	63	0	164	0	0	56	48	0	1	0	13	3	0	0
12/1/2013	362	0	5	140	39	16	8	0	0	0	57	0	47	3	0	9	30	3	0	0	4	0	0	1
12/8/2013	445	0	0	126	27	8	13	0	0	2	33	29	167	0	0	6	25	1	0	0	4	0	0	4
12/15/2013	521	0	4	197	36	11	8	0	0	0	51	37	130	1	0	11	30	4	0	0	0	0	0	1
12/22/2013	370	0	0	97	54	3	19	0	0	8	84	15	58	0	0	11	9	0	0	0	10	0	0	2
12/29/2013	564	1	0	129	150	4	14	0	0	0	50	18	137	0	0	13	13	0	7	7	6	0	10	5
TOTAL	6593	1	115	1392	370	85	646	6	1	21	565	106	1799	4	4	204	1016	84	8	24	90	9	10	33

Table 4. Total number of POSITIVE laboratory swine accessions / diagnostic case submissions in each age class from each State for the current reporting week and cumulatively since the week of 6/16/2013. Only States with positive PEDv accessions are included in this summary table.

	Current Week (12/29/2013 – 01/04/2014)					Cumulative since week of 6/16/2013				
State	Suckling	Nursery	Grower/ Finisher	Sow/Boar	Unknown	Suckling	Nursery	Grower/ Finisher	Sow/Boar	Unknown
CA		1					1			
CO						11	6	4	8	1
IA	7	9	19	6	19	132	149	251	39	108
IL	7	1		2	4	22	10	13	9	17
IN			1		2	10	12	11	5	20
KS	1		3			52	14	41	30	8
KY						3				1
MD										1
MI						2	3	2	1	1
MN	1	5	2	3	11	20	42	27	5	112
MO		1		2	1	2	7	1	3	5
NC	5	4	6	2	2	100	50	67	51	38
NE					2					5
NY						2				
OH		4	1			11	20	10	4	14
OK			1	1		55	72	45	37	31
PA						4	8	11	2	
SD	1				2	1				3
TN			1					6		
TX	1					6	4	12		6
WI						2	1	1		1
WY	1					1				
UNKNOWN					1	1	2	1		10
TOTAL	24	25	34	16	44	437	401	503	194	382

Table 5. Total number of swine samples (biological samples) testing POSITIVE for PEDv in each age class from each State for the current reporting week and cumulatively since the week of 6/16/2013. Only States with positive PEDv accessions are included in this summary table.

	Current Week (12/29/2013 – 01/04/2014)					Cumulative since week of 6/16/2013				
State	Suckling	Nursery	Grower/ Finisher	Sow/Boar	Unknown	Suckling	Nursery	Grower/ Finisher	Sow/Boar	Unknown
CA		1					1			
CO						45	37	8	23	2
IA	9	10	34	23	53	245	279	492	129	247
IL	62	21		26	41	98	53	43	74	102
IN			1		3	15	17	13	4	36
KS	3		11			154	121	225	110	36
KY						4				2
MD										1
MI						2	9	7	1	2
MN	16	9	3	3	19	71	68	46	43	337
MO		2		12	4	11	22	5	13	55
NC	94	7	28	5	3	677	237	335	350	200
NE										4
NY						4				
OH		10	3			29	77	19	15	64
OK			5	8		194	321	214	162	125
PA						48	14	20	2	
SD	2				5	2				6
TN			7					24		
TX	6					26	10	34		20
WI						5	1	1		2
WY	10					10				
UNKNOWN					5	1	2	1		29
TOTAL	202	60	92	77	133	1641	1269	1487	926	1270

Table 6. Total number of environmental samples testing POSITIVE for PEDv per week from each State. Only States with positive PEDv environmental samples are included in this summary table. Laboratories began reporting number of environmental samples the week of 06/16/2013.

Week of	Total Number of Environmental Samples Testing Positive for PEDv	CO	IA	IL	KS	MI	MN	MO	NC	NE	NY	OH	OK	PA	SD	TN	TX	VA	Unknown
6/16/2013	25	4	12	0	4	0	0	0	0	0	0	0	4	0	0	0	0	0	1
6/23/2013	93	1	2	0	17	0	0	0	0	0	0	0	72	1	0	0	0	0	0
6/30/2013	55	0	0	0	7	0	0	0	0	0	0	0	22	0	0	0	0	0	26
7/7/2013	43	0	1	0	0	0	10	0	0	0	0	0	10	0	0	0	0	0	22
7/14/2013	41	4	0	0	16	0	4	0	1	0	0	0	16	0	0	0	0	0	0
7/21/2013	24	0	0	0	0	0	8	0	0	0	0	0	16	0	0	0	0	0	0
7/28/2013	13	0	0	0	0	0	7	0	0	0	0	0	6	0	0	0	0	0	0
8/4/2013	38	0	12	0	0	0	24	0	0	0	0	0	1	0	1	0	0	0	0
8/11/2013	3	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/18/2013	2	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
8/25/2013	4	0	0	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0
9/1/2013	5	0	0	0	0	0	0	0	0	0	0	1	2	0	0	0	0	2	0
9/8/2013	5	2	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0
9/15/2013	12	1	4	0	3	0	0	0	1	0	0	0	3	0	0	0	0	0	0
9/22/2013	8	2	0	0	1	0	0	0	5	0	0	0	0	0	0	0	0	0	0
9/29/2013	65	0	3	0	5	0	46	0	6	0	0	2	3	0	0	0	0	0	0
10/6/2013	64	0	0	0	4	0	55	1	2	0	0	1	0	1	0	0	0	0	0
10/13/2013	29	0	0	0	1	0	23	0	4	0	0	0	1	0	0	0	0	0	0
10/20/2013	32	0	4	0	11	0	8	0	1	0	0	2	6	0	0	0	0	0	0
10/27/2013	21	0	2	0	5	0	0	0	0	0	0	5	7	2	0	0	0	0	0
11/3/2013	102	0	9	24	45	0	2	7	0	0	0	3	12	0	0	0	0	0	0
11/10/2013	74	0	24	0	6	0	19	0	14	0	0	5	6	0	0	0	0	0	0
11/17/2013	146	0	15	0	22	0	34	6	14	2	1	2	46	0	0	3	0	0	1
11/24/2013	69	4	10	1	1	0	41	1	2	2	0	5	2	0	0	0	0	0	0
12/1/2013	177	0	41	7	0	0	97	6	8	0	0	11	5	0	1	0	1	0	0
12/8/2013	65	0	13	0	3	0	27	0	7	0	0	5	5	5	0	0	0	0	0
12/15/2013	85	1	7	6	11	1	13	14	19	4	0	0	9	0	0	0	0	0	0
12/22/2013	35	0	8	1	15	0	1	0	1	0	0	0	4	0	0	5	0	0	0
12/29/2013	39	0	11	1	2	0	7	0	6	0	0	0	1	0	0	0	11	0	0
TOTAL	1374	19	182	40	179	1	427	35	91	8	1	47	261	9	2	8	12	2	50