

Update on Swine Enteric Coronavirus Disease in US

30 December 2014

US - The number of pig farm samples that are confirmed positive for porcine epidemic diarrhoea virus (PEDV) in the last week was 12, and there was one premises confirmed with porcine deltacoronavirus (PDCoV).

For the latest week – 14 to 21 December 2014 – there were 12 new confirmed positive premises for PEDV and two presumed positive.

For the same period, one premises was confirmed for PDCoV and none presumed positive.

There were no premises found with a dual infection (both PEDV and PDCoV).

The total numbers of confirmed positive premises for the latest week were 584, 23 and 21 for PEDV, PDCoV and the dual infection, respectively.

Since 5 June, for PEDV, there have been 603 confirmed positive premises, 352 presumed positive and 15 previously positive premises that have attained negative status.

For PDCoV, the total for the same period are 28, 26 and five, respectively. For the dual infection, the totals are 21, 26 and one, respectively.

Table 1. Number of SECD confirmed and presumptive positive premises by month and production class (includes PEDV, PDCoV and dual infections; confirmed/presumptive)

Month	Nursery	Wean to finish	Farrow to finish	Finisher	Sow/breeding	Unknown
Jun-14	18 / 11	30 / 16	15 / 8	22 / 28	47 / 45	14 / 52
Jul-14	25 / 12	36 / 8	6 / 5	20 / 13	33 / 12	15 / 33
Aug-14	15 / 8	17 / 6	2 / 5	25 / 10	10 / 6	10 / 22
Sep-14	17 / 3	21 / 5	2 / 2	30 / 8	31 / 7	6 / 14
Oct-14	2 / 4	24 / 5	2 / 0	33 / 15	6 / 2	11 / 8
Nov-14	5 / 1	10 / 3	1 / -	40 / 5	11 / 8	21 / 8
Dec-14	2 / -	1 / 1	2 / -	4 / -	3 / 1	5 / -
Missing	- / 1	1 / 1	- / -	1 / -	- / 1	- / 1
Total	84 / 39	140 / 45	30 / 20	175 / 79	141 / 82	82 / 139

Table 2. Biological accessions tested and number positive by month (since 5 June 2014)

Month	PEDV			PDCoV		
	Tested	Positive	% positive	Tested	Positive	% positive

Total before 5 June 2014	21,228	6,976	29.4	2,172	260	12.0
Jun-14	2,768	407	14.7	824	80	9.7
Jul-14	3,555	410	11.5	1,195	46	3.8
Aug-14	3,095.0	312	10.1	1,193	18	1.5
Sep-14	3,143	261	8.3	1,338	11	0.8
Oct-14	3,304	299	9.0	1,899	19	1.0
Nov-14	2,506	305	12.2	1,556	30	1.9
Dec-14 to date	2,293	338	14.7	1,367	31	2.3
Total since Jun-14	20,665	2,332	11.3	9,373	235	2.5
Grand total	41,793	9,308	22.3	11,545	495	4.3



Figure 1. PED-positive biological accessions in the US, by week (since 5 June 2014)



Figure 2. PDCoV-positive biological accessions in the US, by week (since 5 June 2014)

Location of Positive Premises

PEDV

There are currently 33 states with at least one confirmed positive case of PEDV, following the addition of Hawaii in mid-November 2014.

For the current week (14 December), there were 115 PEDV-positive laboratory accessions, bringing the total since 5 June 2014 to 2,332. Iowa reported 26 of these new cases, Missouri 11 and Minnesota, 10.

Also reporting positive results in this most recent week were Arizona, California, Colorado, Idaho, Illinois, Indiana, Kansas, Michigan, North Carolina, Nebraska, Ohio, Oklahoma, South Dakota, Texas, Utah, Wisconsin and Wyoming.

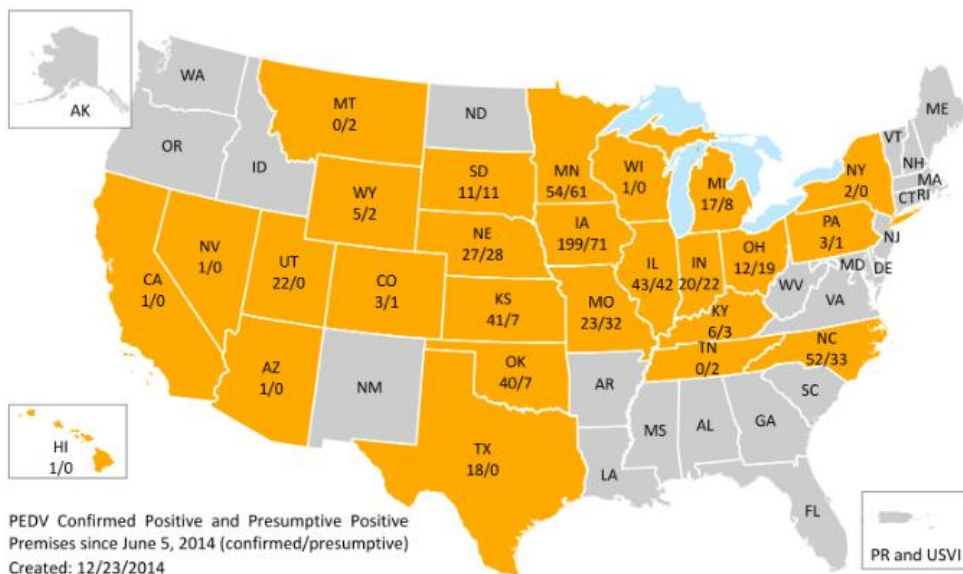


Figure 3. PEDV: Cumulative confirmed and presumptive PEDV-positive premises since 5 June 2014

PDCoV

There are currently 17 states with at least one confirmed positive case of PDCoV.

For the current week (14 December), there were 15 PDCoV-positive laboratory accessions, bringing the total since 5 June 2014 to 235. There were five positive premises in Illinois, three in Iowa and one each in Idaho, Indiana and South Dakota, and four "unknown".

