



United States Department of Agriculture

U.S. Response to Novel Swine Enteric Coronavirus Diseases

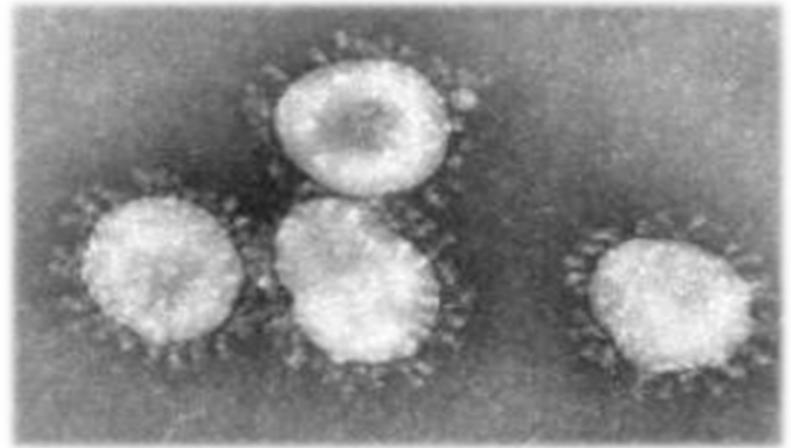
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September 24, 2014



Swine Enteric Coronavirus Diseases

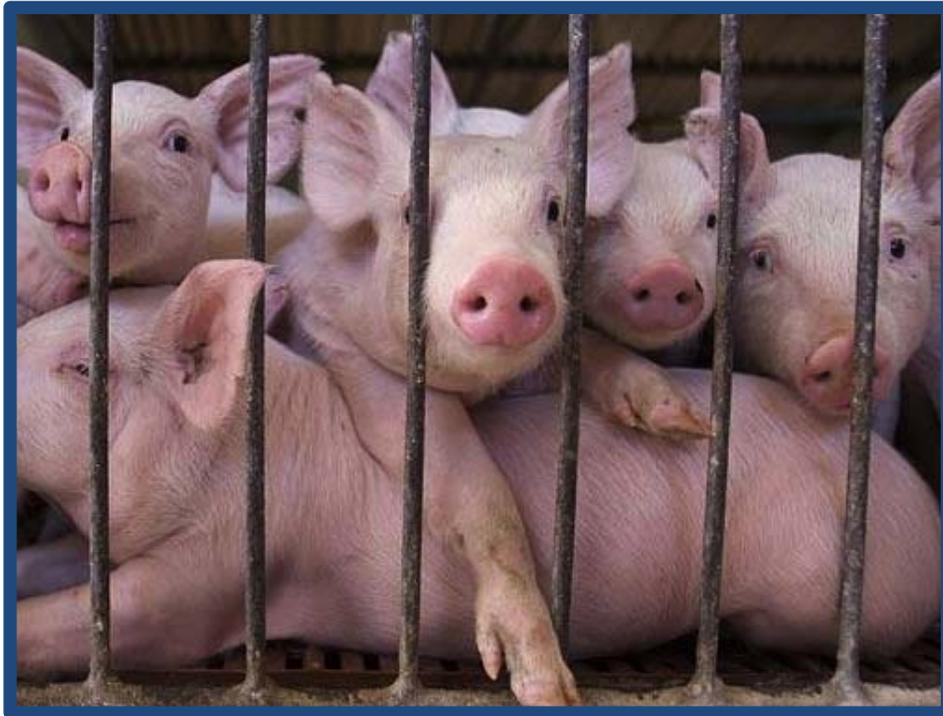
- Porcine epidemic diarrhea virus (PEDV)

- Porcine delta coronavirus (PDCoV)



Picture from Wikipedia of Corona Virus

Initial Response



- Nonregulatory
- No mandatory reporting
- No movement controls

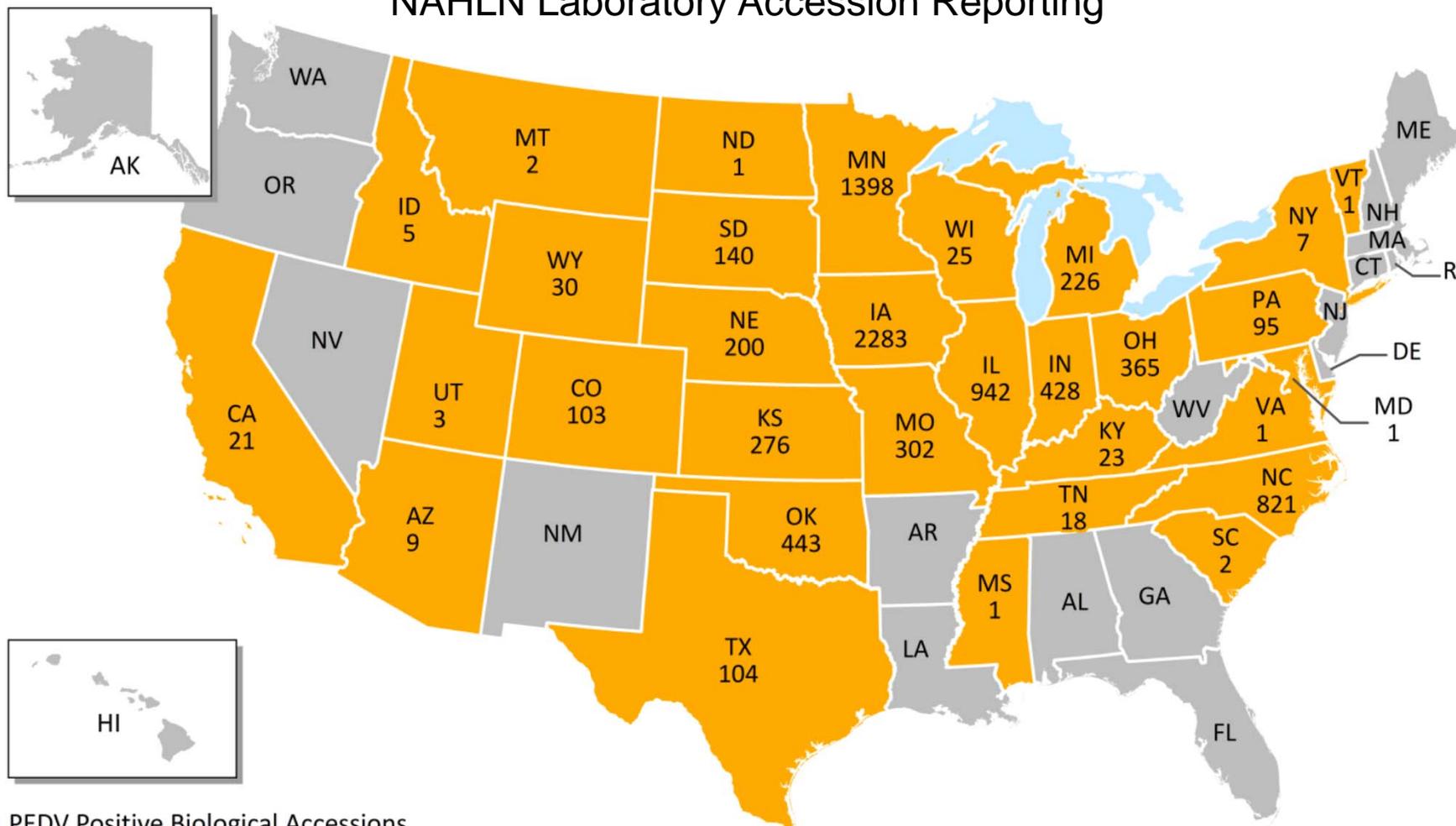
- Epidemiological studies to investigate inter-herd transmission

- Epidemiological investigations and assessments to discover introductory pathways

- Industry and Academia led research efforts to understand viral ecology and disease dynamics

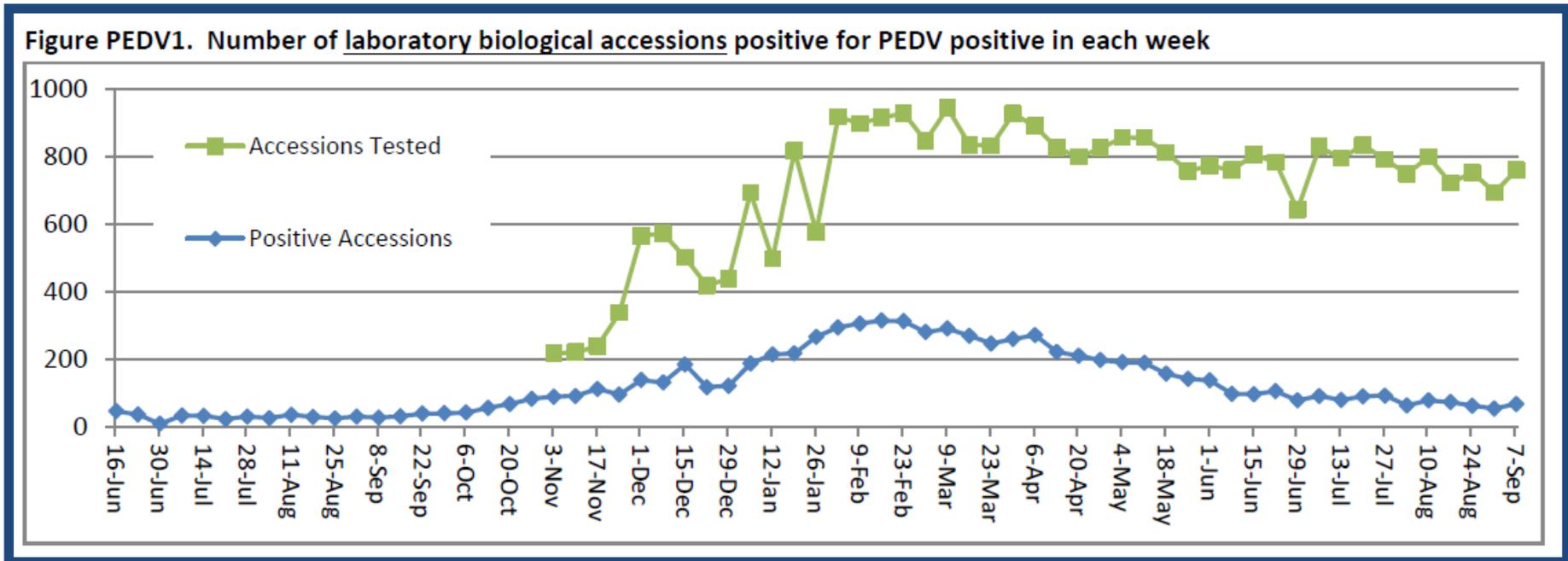


NAHLN Laboratory Accession Reporting



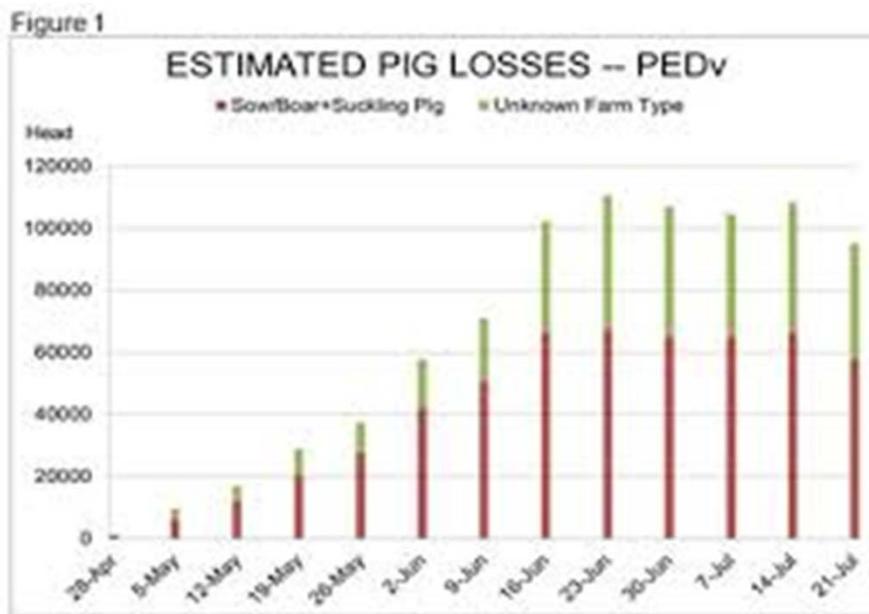
PEDV Positive Biological Accessions
Created: September 17, 2014

Positive Accessions with No State Recorded: 91



Federal Order

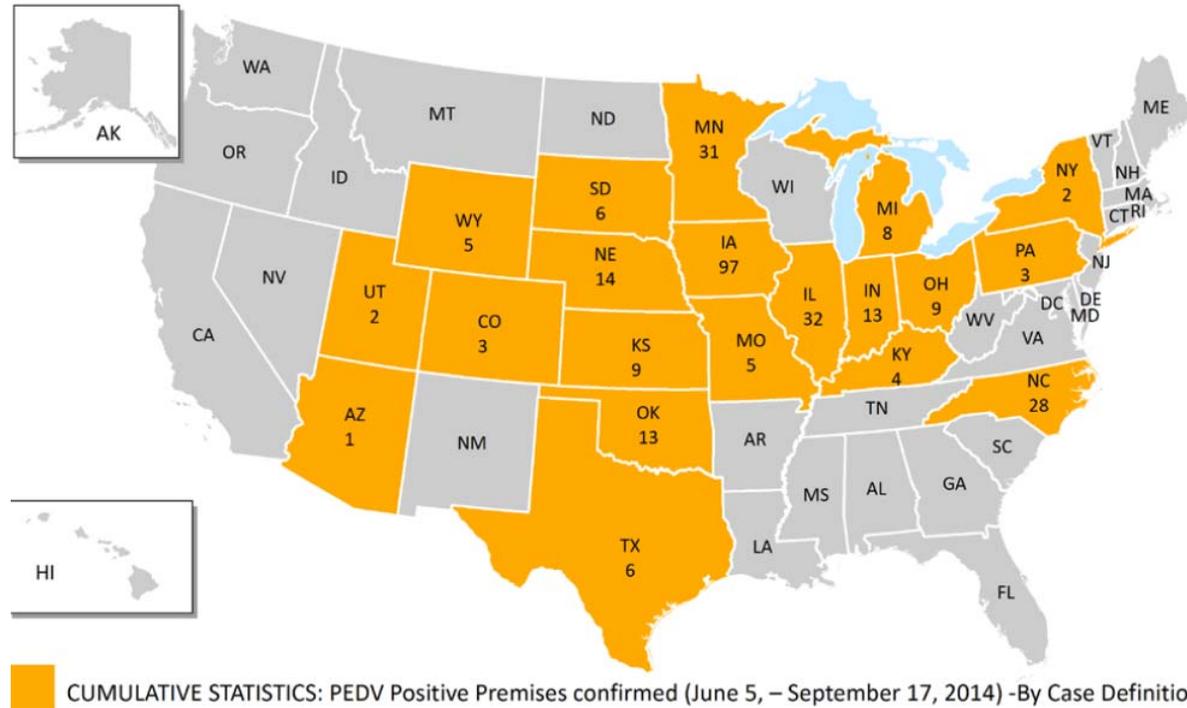
- Impact of disease called for greater Federal and State role
- Required reporting allows:
 - Determination of disease incidence
 - Improved tracking of disease spread
 - Rapid detection of new viruses



From: National Hog Farmer, August 2013



	PEDv	PDCoV	Dual Infections
Confirmed cases	291	18	14



Herd Management Plans

- Required for herds meeting the definition of a confirmed positive
- Developed with a veterinarian
- Include biosecurity measures



Funding



\$26.1 million including:

- \$3.9 million for vaccine development
- \$2.4 million for laboratory testing
- \$1.4 million for sequencing
- \$11 million for biosecurity support

Other Efforts

- Vaccine development
- Epidemiologic studies
- Root cause investigation





Questions?