

USDA Swine Surveillance For Influenza



Sabrina Swenson
John Korslund, David Pyburn
U.S. Department of Agriculture
Animal and Plant Health Inspection Service
Veterinary Services
Amy Vincent
Agricultural Research Service
OFFLU Meeting
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History of U.S. SIV Surveillance

- Not a reportable disease
- Testing and data management at local level
- CDC/USDA joint effort underway when pH1N1 identified
- USDA surveillance started May 2009
- Anonymous stream added July 2010
- Subtyping PCR added to algorithm 2012

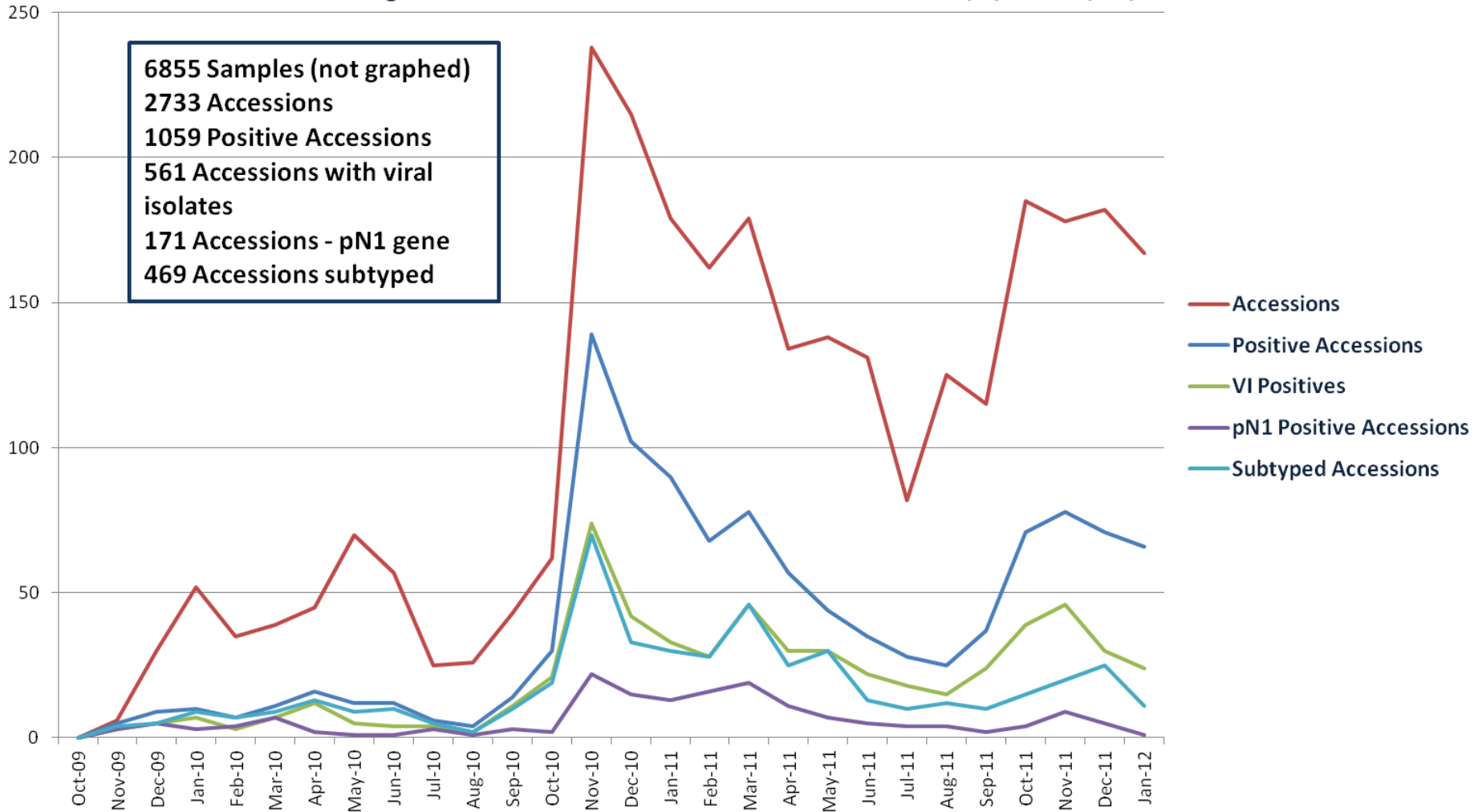


Surveillance Results

- Data do not represent prevalence
 - Based on voluntary submissions
- Data are based primarily on anonymous submissions
 - Data is state level based
 - Unable to tell multiple submissions from same herd/flow
- Data are based on date of collection
 - Numbers increase over time and are subject to further characterization



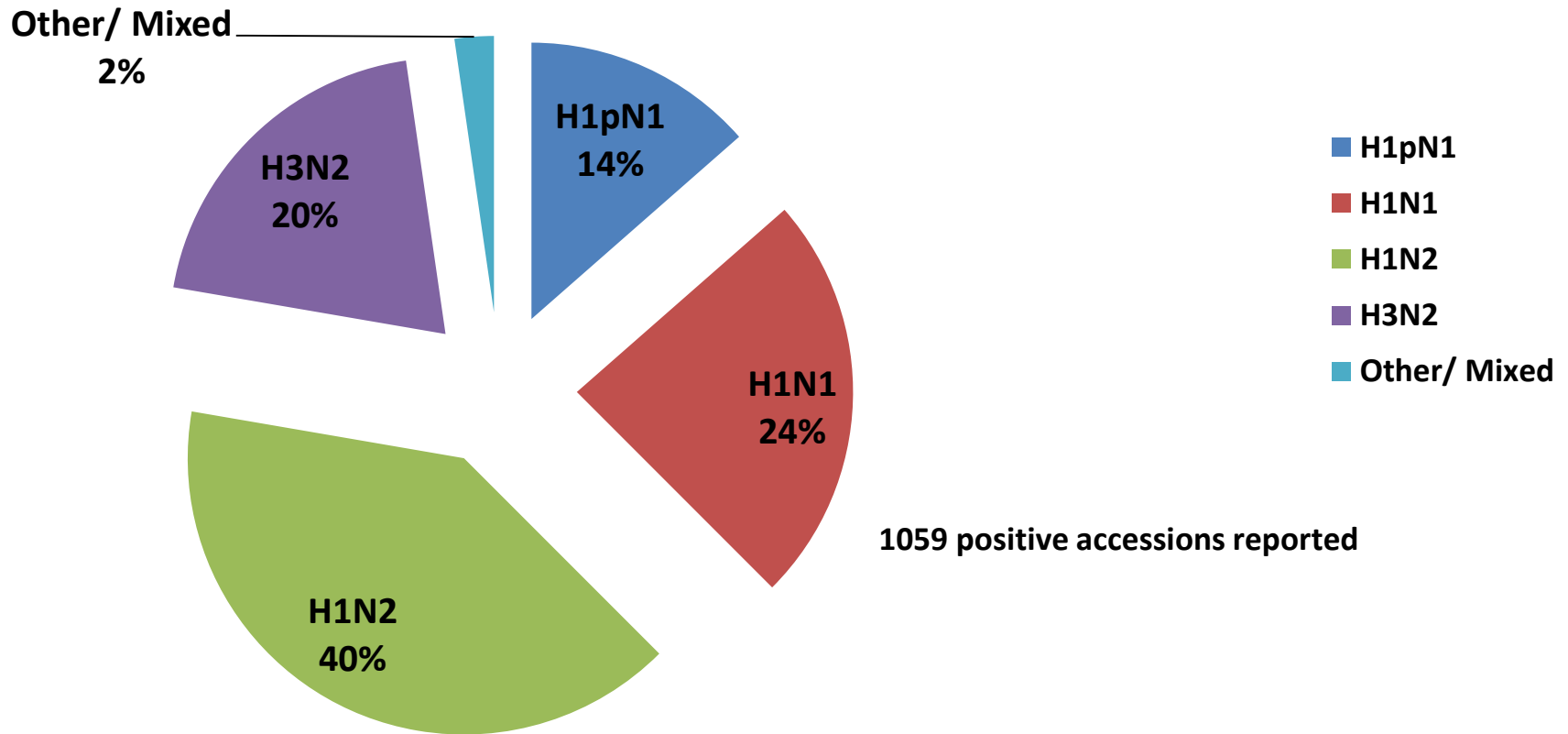
USDA SIV Surveillance Program Isolation and Characterization Activities - 10/1/2009-1/31/2012



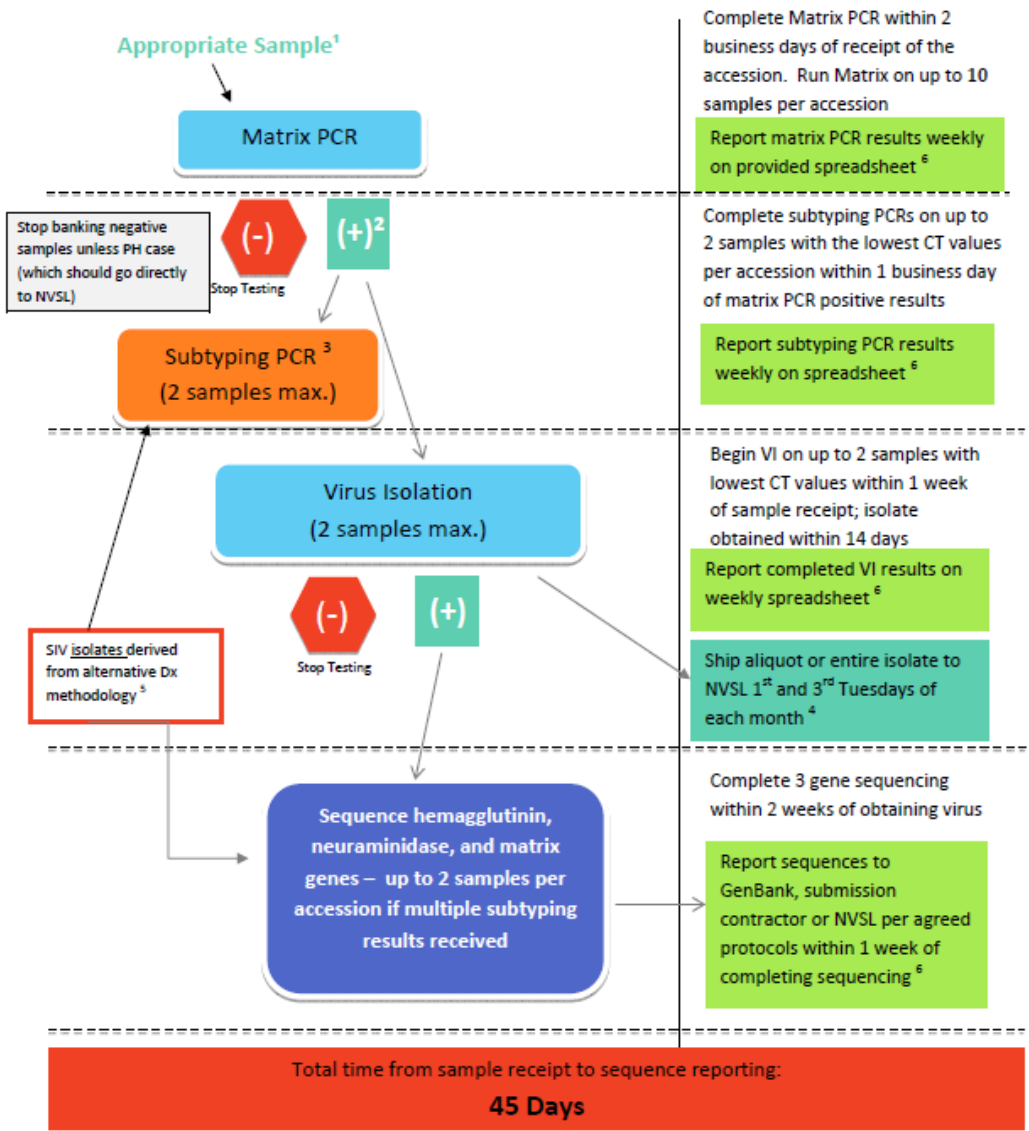
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USDA SIV Surveillance - 10/1/2009- 1/31/2012 Subtype Breakdown



Swine Influenza Virus Testing Algorithm for NAHLN Laboratories



NVSL Activities

- Repository development
- Subtyping PCR
 - Validation on isolates
- Sequencing
 - Evaluating next generation sequencing for selective whole genome sequencing

