

National Veterinary Services Laboratories Avian Influenza Activities Report – FY 2009

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Safeguarding Animal Health



National Reference Laboratory

- Foreign poultry disease testing
- Confirmation of all Al infections
 - Virus identification, characterization, sequencing
 - Antibody subtyping
- Live bird market surveillance
- Import/export testing





National Reference Laboratory

- Reagent production
 - Reference reagents (in-house, research use)
 - AGID antigen, enhancement serum
 - Domestic 14,000 units (1.6 million tests)
 - International 383 units (46,000 tests)
- Validation of official diagnostic assays, including new pandemic H1N1 assays





National Reference Laboratory

- Provide annual proficiency tests to National Animal Health Laboratory Network (NAHLN)
 - AI: 243 diagnosticians (55 labs)
- Characterization of H2N3 viruses from poultry and pigs
 - HA and NA genes similar but internal genes consistent with contemporary avian and swine viruses, respectively





International Reference Laboratory

- Provide diagnostic assistance to OIE member countries
 - Dominican Republic
 - Chile
 - Wild bird isolate subtyping
 - H1N1 detection in turkeys





International Reference Laboratory

- Developing a North American Animal Health Laboratory Network (NAAHLN)
 - Mexico
 - Canada
 - United States
- Harmonization of Al diagnostic testing





Twining Project - Brazil

- Training of Brazilian scientists at the NVSL
- In-country training seminar/review at Lanagro-SP





Wild Bird Surveillance for HPAI H5N1 – FY 2008

- >80,000 samples tested; all 50 states
- Screening by rRT-PCR at NAHLN labs
- Presumptive H5 positives submitted to NVSL for confirmation, virus isolation, virus characterization
- No HPAI H5N1 detected





Thank You for Your Attention!





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