Veterinary Services

FiOps Logistics Center
National Veterinary Stockpile Overview

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USDA, APHIS, Veterinary Services
History, Mission, Goals and Organization
National Veterinary Stockpile

National repository of critical veterinary supplies, equipment, animal vaccines, and response support services.

Ready for Animal Disease Emergencies
NVS Mission and Goals

Provide veterinary countermeasures – supplies, equipment, vaccines, and response support services – that States, Tribes, and Territories need to respond to damaging animal disease outbreaks.

1. Deploy within 24 hours countermeasures against damaging animal diseases and during natural disasters.
2. Assist Federal Officials, States, Tribes, and Territories plan, train, and exercise for the rapid acquisition, receipt, processing, and distribution of NVS countermeasures during an event.
High-Consequence Foreign Animal Diseases and Pests

**Tier 1 – national concern:**
- African swine fever*
- Classical swine fever*
- Foot-and-mouth disease*
- Avian influenza (any strain that is highly pathogenic or has zoonotic significance)*
- Virulent Newcastle disease*

**Tier 2 - transmitted primarily by pests:**
- Heartwater
- New World screwworm
- Rift Valley fever*
- Venezuelan equine encephalitis*

**Tier 3 - less risk and fewer consequences:**
- African horse sickness
- Contagious bovine pleuropneumonia and contagious caprine pleuropneumonia
- Glanders and melioidosis
- Henipaviruses (Hendra and Nipah)*
- Rinderpest* and peste des petits ruminants*
- Tropical Bont Tick

Source: APHIS Fact Sheet July 2013

* APHIS identifies as biological threats that need to be considered in program priorities and countermeasure stockpile requirements.

Note: The Fact Sheet is undergoing a comprehensive review and a revision of this document is pending.
Deployable Countermeasures
Deployable Countermeasures

- 24 Hour Push Packs of PPE
  - Bulk PPE
  - Decon supplies
- Animal Vaccines
- Vaccine shipping and portable storage containers
- Antiviral medications
- Poultry depopulation foaming units, CO2 carts, Whole House CO2
- Captive Bolt
- Animal handling equipment
- Response support services
24 Hour Push Pack

-Contains PPE and decontamination supplies.
-Deploys within 24 hours of APHIS’ approval.
-Arrival will precede additional items necessary to continue supporting the response.

**Bulk**

**Kits**
Decontamination Module

- Bags, Ziploc (10/Bx)
- Brush, Long Handle, Car
- Bucket w/ Cover, 5 Gal
- Pool, Pop Up, Ultra
- Scraper, Shoe and Boot (4/Bx)
- Shears, EMS, 7 ¼” (3/Bx)
- Sprayers, 2 Gal
- Tape, Chem (12/Bx)
- Tape, Yel, Caution-black (15/Bx)
- Test Strips, Virkon
- Virkon S, 2 Bx with four 10 lb buckets ea (total 80 lbs)
Animal Vaccines

Maintained by the NVS

- Vaccines are shipped from multiple locations following APHIS approval to vaccinate.
- The vaccine shipped depends on the type and strain of vaccine that APHIS decides to use.
- The time of arrival varies according to vaccine type. Some may arrive within 24 hours of request. Others take longer.

North American Foot and Mouth Disease Vaccine Bank

- If requested, the NVS may assist in the coordination of transporting vaccine.

National Animal Vaccine and Veterinary Countermeasures Bank

- The NVS will serve as the Logistics arm of the National Bank
Mobile Refrigeration Units

8' x 20' Unit
8' x 12' Unit

For Use in Non-Contaminated Areas
Thermal Packaging Solutions

GTS 5420 pallet shipper will deliver animal vaccines to the State/Tribe/Territory and maintains 2-8 degrees C for at least 120 hours.
Thermal Packaging Solutions

GTS-342 – Kool Temp

Maintains 2-8 degrees C for at least 72 hours

Improved Temperature Monitoring Devices

40 bottles, 500 ml (two layers of 20 bottles)
Thermal Packaging Solutions

GTS 35
Holds 20, 50ml bottles

HP 76
Holds 5, 500ml bottles

GTS 35 and the HP 76 maintain 2-8 degrees C for at least 72 hours

Insulated shipping envelope
Temperature Data Loggers
Temperature Chemical Monitors
Antiviral Medication for Agriculture Responders

- Tamiflu (80% inventory)
  - Relenza (20% inventory)

- NVS antivirals dispensed to agriculture responders are checked into incident command.

- Safety Officer and logistics medical unit collaborate to identify responders that require medication.
Antiviral Medications for Agriculture Responders

State NVS plans should include State pharmaceutical requirements for:
- Receiving
- Storing
- Prescribing
- Dispensing
Poultry Depopulation Equipment

- Kifco Avi-FoamGuard units
- NC FoamPro unit
- Whole House CO² unit
- TEDs
- CO² carts
- Poultry CO² Trailer
1st Generation Foam Depopulation Equipment

North Carolina Foam Unit

Kifco AV-ST3 Foam Unit
Kifco AV-ST3 Foam Unit
Kifco AV-ST3 Foam Unit
North Carolina Foam-Pro Unit

- Designed as a simple system
  - Operate two devices at a time
  - Variations exist on when purchased
- Same pump and motor as AV-ST3
North Carolina Foam-Pro Unit
Kifco AV-STC Foam Units

- Kifco AviGuard AV-STC and AV-STC AW
  - Upgraded nozzle-based system
    - Designed for up to 4 nozzles at a time

- AV-STC
  - Open trailer

- AV-STC AW
  - Enclosed trailer designed for cold weather use
Kifco AV-STC/AW Foam Unit

- Four nozzles per trailer
- Based on fire style attack lines
Kifco AV-STC Foam Unit
Kifco AV-STC AW Foam Unit
Differences in Projection - Generator
Differences in Projection - Nozzle
Poultry CO2 Trailer

- Portable gassing system for small flocks
- Capacity 300 broilers; 440 layer hens; 80 turkey (hens)
- Stainless steel construction
- Transport by half-ton vehicle
- Dynamic top loading
- Dumping capability for easy disposal
Whole House CO2

**Distribution Manifold**
- Liquid CO2 delivered from tanker to this manifold
- Connects to 4 dosing manifolds

**Dosing Manifold**
- Deliver CO2 gas to poultry barn
- Four manifolds spaced throughout the barn

**CO2 LogPac Trailer**
Other Equipment

• Captive Bolt
• Animal Handling Equipment
Captive Bolt Depopulation Equipment

- Supplied as kits
- Include extended bolt for cattle
- Penetrating and non-penetrating
- Rod sizes and charge colors vary by species
Turkey Euthanasia Device (TED)
Animal Handling Equipment

- Equipment in storage and ready to deploy
- Additional types of equipment available through contracts

Cattle Gates and Panels

Swine Gates and Panels

Swine Mobile Chute

Mobile Corral – CA FMD Exercise September 2011
Deployable Resources

3D Response Support Services
3D Response Support Services

- Depopulation, disposal, decontamination (3D), or other services to support incident command.
- Trained and self-sufficient contractors with their own equipment.
- Companies available through USDA Contracts.
Requesting Assistance for a Damaging Animal Disease
Prior to Requesting NVS Assistance

• List inventory of resources available within the State
• Consider local, state, federal, private
• Preplan what resources you will likely request from NVS
NVS Request Process

SAHO/AVIC determine all available resources in the State will soon be exhausted.

**NVS 5-Step Request Process**

1. SAHO/AVIC agree NVS support is needed.
2. SAHO/AVIC consult with VS District Office.
3. VS District Office calls FiOps 24/7 hotline, 800-940-6524.
4. NVS Director returns call to acknowledge request and DD initiates conference call with all parties.
5. APHIS approves, ICS 213 submitted, and NVS DMT coordinates deployment details with Incident Command POC.

NVS deploys countermeasures within 24 hours of APHIS approval.
NVS Planning Tools

Regular Updates of NVS Website

http://www.aphis.usda.gov/nvs
NVS Website

• Mission
• Purpose
• Goals
• Contact Us
• NVS News
• NVS Documents
• Request Approval as an NVS Planner
• Information for NVS Planners
• Recently migrated to USDA Connect
• eAuth Level 1 for Access
• Request access from NVS Training and Exercise Coordinator or email nvs@usda.gov
- Current NVS Catalog
- State NVS Tabletop Exercise Templates
- State NVS Drill Exercise Templates
- NVS State IMF Training documents
- NVS State IMF Access Database (password protected)
- NVS Logistics Warehouse Training Materials
- Factsheets
- Presentations
- Vaccine Questions and Answers
- NVS Planning Tools
- NVS Plans
- Reports – AAR/IPs
NVS Logistics Catalog

- Posted on restricted NVS website accessible to NVS planners upon approval
- Password required to open catalog
- Describes all available NVS countermeasures
Progress of NVS Written Plans

Western US Territories:
- American Samoa
- Guam
- N. Mariana Islands

Plan Approved by State Officials
Plan in Progress
No Plan
If you had an outbreak tomorrow…

- What countermeasures would you request?
- What facility would receive countermeasures?
- What support agencies would assist you?
- What is the plan to receive, store, prescribe and dispense antiviral medications to responders?
- Who will do what in the ICS Logistics Section, specifically the Supply Unit?
- What tool will be used to manage inventory?
- How would you train Logistics responders and access just-in-time training materials?
Questions?

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