

Veterinary Services

FiOps Logistics Center National Veterinary Stockpile Overview

Andy Titsworth NVS Training & Exercise Coordinator Field Operations Logistics Center USDA, APHIS, Veterinary Services

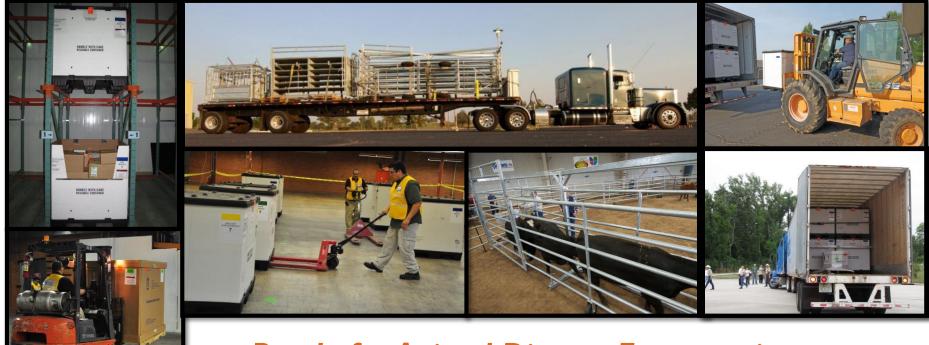




History, Mission, Goals and Organization

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

<u>Tier 1 – national concern:</u>

- 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 melioidiosis
- 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

USD/

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

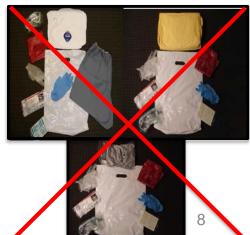
- Contains PPE and decontamination supplies.
- Deploys within 24 hours of APHIS' approval.
- Arrival will precede additional items necessary to continue supporting the response.











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 ¹/₄" (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



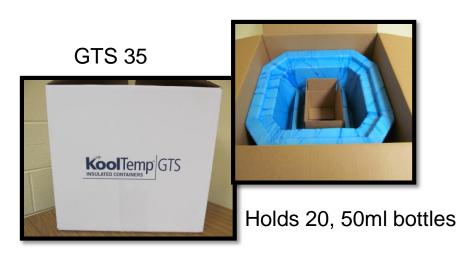
Improved Temperature Monitoring Devices



Maintains 2-8 degrees C for at least 72 hours 40 bottles, 500 ml (two layers of 20 bottles)



Thermal Packaging Solutions





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



Insulated shipping envelope



USDA

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









United States Department of Agriculture

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



United States Department of Agriculture

USD/

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







United States Department of Agriculture

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

C02 LogPac Trailer



Other Equipment

- Captive Bolt
- Animal Handling Equipment



Captive Bolt Depopulation Equipment







Pistol-grip for Livestock Depopulation

- 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

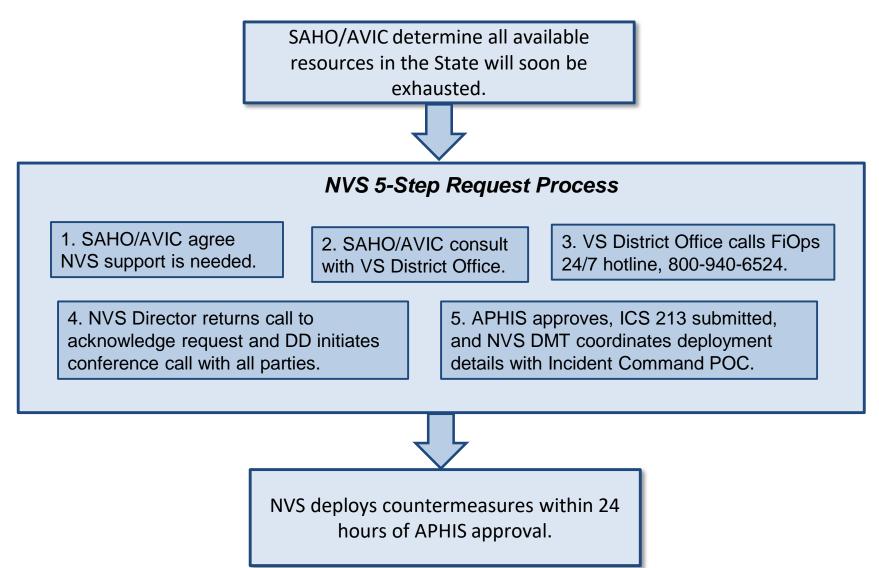
Prior to Requesting NVS Assistance

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

| Determine supplies hav | /e in-house: | | |
|---|--|--|--|
| ITEM | SC-LPH INVENTORY | SC-VS INVENTORY | |
| Coveralls | 2,000 | 275 | |
| Disp. Boots (pairs) | 1,750 | 240 | |
| Gloves (pairs) | 6,000 | | |
| Head covers | 3,500 | (O ,000 | |
| Goggles | 30 | C 2 4 | |
| Disp. Particulate masks | 1,640 | C 24 400 | |
| Half-mask respirators | 25 UT | 0 | |
| Full-mask respirators | 25 50UV 5000 5000 | 0 | |
| PAPR | | 4 | |
| Blood tubes, needles, | KO. | | |
| syringes | some | lots | |
| syringes Swabs | 3.000 | 0 | |
| Determiner of i | n-state teams available: No. of Teams | Primary Duties sampling, depop, disposal, | |
| | | sampling, depop, disposal, decon activities of non- | |
| CULPH, VS-SC, CUCES | No. of Teams | sampling, depop, disposal, decon activities of non- commercial flocks | |
| CULPH, VS-SC, CUCES | No. of Teams 5-8 | sampling, depop, disposal, decon activities of non- commercial flocks sampling, depop, disposal, | |
| CULPH, VS-SC, CUCES | No. of Teams | sampling, depop, disposal, decon activities of non- commercial flocks | |
| CULPH, VS-SC, CUCES | No. of Teams 5-8 1-4 each | sampling, depop, disposal, decon activities of non- commercial flocks sampling, depop, disposal, decon activities of their commercial flocks Sampling Comm Team (pe 1-person team - broiler/turker | |
| Culph, VS-SC, CUCES Commercial Companies Determine PPE and sar Disposable Items | No. of Teams 5-8 1-4 each npling items per team: Sampling Backyard Team (per 2-person team) | sampling, depop, disposal, decon activities of non- commercial flocks sampling, depop, disposal, decon activities of their commercial flocks Sampling Comm Team (pe 1-person team - broiler/turker farm) | |
| CULPH, VS-SC, CUCES Commercial Companies Determine PPE and sar Disposable Items coveralls | No. of Teams 5-8 1-4 each npling items per team: Sampling Backyard Team (per 2-person team) 2 | sampling, depop, disposal, decon activities of non- commercial flocks sampling, depop, disposal, decon activities of their commercial flocks Sampling Comm Team (pe 1-person team - broiler/turker farm) 1 | |
| CULPH, VS-SC, CUCES Commercial Companies Determine PPE and sam Disposable Items coveralls boots pair | No. of Teams 5-8 1-4 each npling items per team: Sampling Backyard Team (per 2-person team) 2 4 | sampling, depop, disposal, decon activities of non- commercial flocks sampling, depop, disposal, decon activities of their commercial flocks Sampling Comm Team (pe 1-person team - broiler/turker farm) 1 2 | |
| CULPH, VS-SC, CUCES Commercial Companies Determine PPE and sam Disposable Items coveralls boots pair gloves pair | No. of Teams 5-8 1-4 each npling items per team: Sampling Backyard Team (per 2-person team) 2 4 5 | sampling, depop, disposal, decon activities of non- commercial flocks sampling, depop, disposal, decon activities of their commercial flocks Sampling Comm Team (pe 1-person team - broiler/turker farm) 1 2 2 | |
| CULPH, VS-SC, CUCES Commercial Companies Determine PPE and sam Disposable Items coveralls boots pair gloves pair googles (reuse) | No. of Teams 5-8 1-4 each npling items per team: Sampling Backyard Team (per 2-person team) 2 4 5 2 | sampling, depop, disposal, decon activities of non- commercial flocks sampling, depop, disposal, decon activities of their commercial flocks Sampling Comm Team (pe 1-person team - broiler/turker farm) 1 2 2 1 | |
| CULPH, VS-SC, CUCES Commercial Companies Determine PPE and sar Disposable Items coveralls boots pair gloves pair gloves pair gloves pair gloves pair | No. of Teams 5-8 1-4 each npling items per team: Sampling Backyard Team (per 2-person team) 2 4 5 2 2 2 | sampling, depop, disposal, decon activities of non- commercial flocks sampling, depop, disposal, decon activities of their commercial flocks Sampling Comm Team (pe 1-person team - broiler/turker farm) 1 2 2 1 1 1 1 | |
| CULPH, VS-SC, CUCES Commercial Companies Determine PPE and sam Disposable Items coveralls boots pair gloves pair gloves pair gloves pair gloves pair gloves pair gloves pair gloves pair gloves pair gloves pair | No. of Teams 5-8 1-4 each npling items per team: Sampling Backyard Team (per 2-person team) 2 4 5 2 2 2 2 2 | sampling, depop, disposal, decon activities of non- commercial flocks sampling, depop, disposal, decon activities of their commercial flocks Sampling Comm Team (pe 1-person team - broiler/turket farm) 1 2 2 1 1 1 1 1 | |
| CULPH, VS-SC, CUCES Commercial Companies Determine PPE and sar Disposable Items coveralls boots pair gloves pair gloves pair gloves pair gloves pair | No. of Teams 5-8 1-4 each npling items per team: Sampling Backyard Team (per 2-person team) 2 4 5 2 2 2 | sampling, depop, disposal, decon activities of non- commercial flocks sampling, depop, disposal, decon activities of their commercial flocks Sampling Comm Team (pe 1-person team - broiler/turke farm) 1 2 2 1 1 1 1 | |



NVS Request Process





NVS Planning Tools

Regular Updates of NVS Website http://www.aphis.usda.gov/nvs

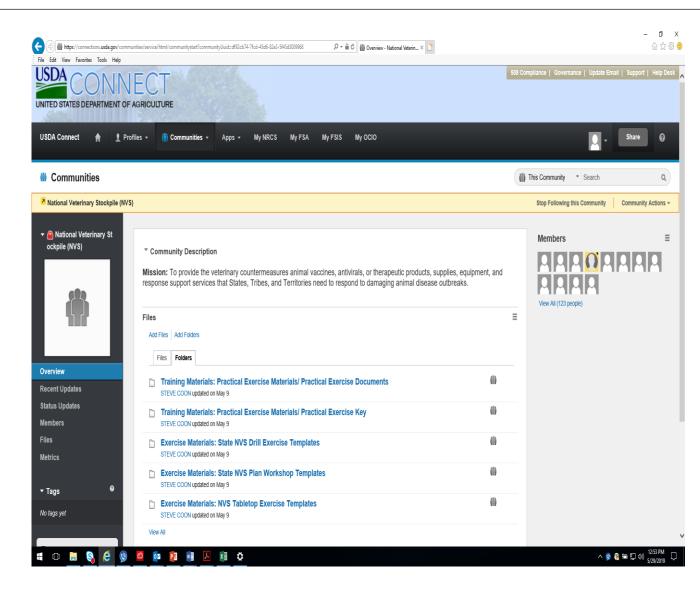
NVS Website

- Mission
- Purpose
- Goals
- Contact Us
- NVS News
- NVS Documents
- Request Approval as an NVS Planner
- Information for NVS Planners

| USDA Animal and Plant Health Inspection | Service About APHIS Ask The Ex | pert Careers Contact Us Help | |
|---|---|--|--|
| United States Department of Agriculture | | Search | |
| Home Our Focus - Resources - Newsroo | pm - Blog | 🖂 🖪 🎐 You 🌆 🔸 | |
| Animal Health / Emergency Management / National V | leterinary Stockpile (NVS) | | |
| Animal Health | National Veterinary Stockpile (NVS) | | |
| Program Overvlew | Last Modified: Apr 21, 2014 | 🚔 Print | |
| District Offices (previously Area Offices) | Mission | | |
| Contact Us | To provide the veterinary countermeasures animal vaccines, antivirals, or | Related Links | |
| Animal Disease Information | therapeutic products, supplies, equipment, and response support services that States, Tribes, and Territories need to respond to damaging animal disease outbreaks. | FMD Materials | |
| Emergency Management | | FAD PReP Materials and | |
| Export from the U.S. | Purpose Homeland Security Presidential Directive 9 established the NVS in 2004 to | References | |
| Import Into the U.S. | protect the nation's food supply by maintaining sufficient amounts of countermeasures capable of deployment against the most damaging animal | Disinfectants Animal Health Emergency | |
| Laboratory Information Services | diseases within 24 hours. The directive reflected the national concern that terrorists could simultaneously release animal diseases of catastrophic | Management | |
| Monitoring and Surveillance | proportions that would quickly deplete available resources within the State, Tribe, or Territory and overwheim the private sector's ability to support such a | Emergency Management Response System (EMRS) | |
| | disaster. | Response System (EMRS) | |
| NAHMS | Goals Deploy within 24 hours of approval countermeasures against the most | | |
| One Health | damaging animal diseases, including Highly Pathogenic Avlan Influenza, Foot-and Disease, and Classical Swine Fever. | I- Mouth Disease, Exotic Newcastle | |
| Traceability | Assist States, Tribes, and Territories plan, train, and exercise for the rapid request | t, receipt, processing, and distribution | |
| Training and Development | of NVS countermeasures during an event. | | |
| Veterinary Accreditation | Contact Us | | |
| Veterinary Services Process Streamlining (VSPS) | NVS News | | |
| Veterinary Biologics | National Veterinary Stockplie, Puerto Rico, and U.S. Vigin Islands Conduct S 180kb) 4-21-14 | uccessful Planning Workshops (pdf | |
| OIE International Standards | National Veterinary Stockpile and State of Texas Conduct Successful Logistic | cs Exercise (pdf 207kb) 1-17-14 | |
| | USDA Donates CSF Vaccine to Guatemala (pdf 38kb) 3-25-13 | | |
| | NVS Sponsors Tabletop Exercise on FMD Vaccine Shipment (pdf 131kb) 1-2 | 14-13 | |
| | National Veterinary Stockpile and State of Colorado Conduct Successful Log | istics Exercise 2012 (pdf 916kb) | |
| | NVS Sponsors Exercise on Vaccine Shipment (pdf 72kb) 7-23-12 | | |
| | NVS and FADDL Exercising to Improve (pdf 65kb) | | |
| | National Veterinary Stockpile and Navajo Nation Conduct Successful Logistic | cs Exercise (pdf 367kb) | |
| | USDA, APHIS, NVS and Navajo Nation Exercise (pdf 46kb) 5-5-2011 | | |
| | SAADRA-NVS Exercise Logistics Readiness (pdf 34kb) | | |
| | NVS Supports Iowa 2010 Flood (pdf 7kb) | | |
| | NVS Documents | | |
| | NVS Basic Brief (pdf 785kb) 12-09-11 | | |
| | NVS Basic Brief Speaker Notes (pdf 5mb) 12-09-11 | | |
| | NVS Factsheet (pdf 39kb) 8-13-12 | | |
| | Questions & Answers | | |
| | Request Approval as an NVS Planner | | |
| | Information for NVS Planners << NOTE: This page is password protected. | | |
| | | | |



- Recently migrated to USDA Connect
- eAuth Level 1 for Access
- Request access from NVS Training and Exercise Coordinator or email <u>nvs@usda.gov</u>





Current NVS Catalog

USDA

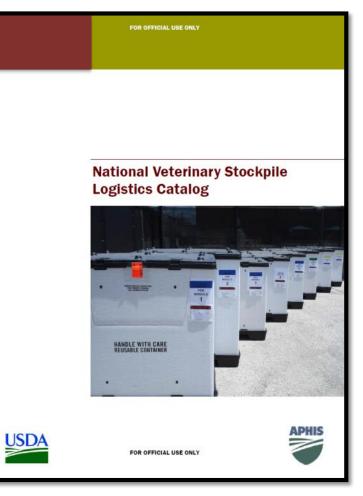
- State NVS Tabletop
 Exercise Templates
- State NVS Drill Exercise Templates
- NVS State IMF Training documents
- NVS State IMF Access Database (password protected)
- NVS Logistics Warehouse Training Materials
- Factsheets
- Presentations
- Vaccine Questions and Answers
- NVS Planning Tools
- NVS Plans
- Reports AAR/IPs

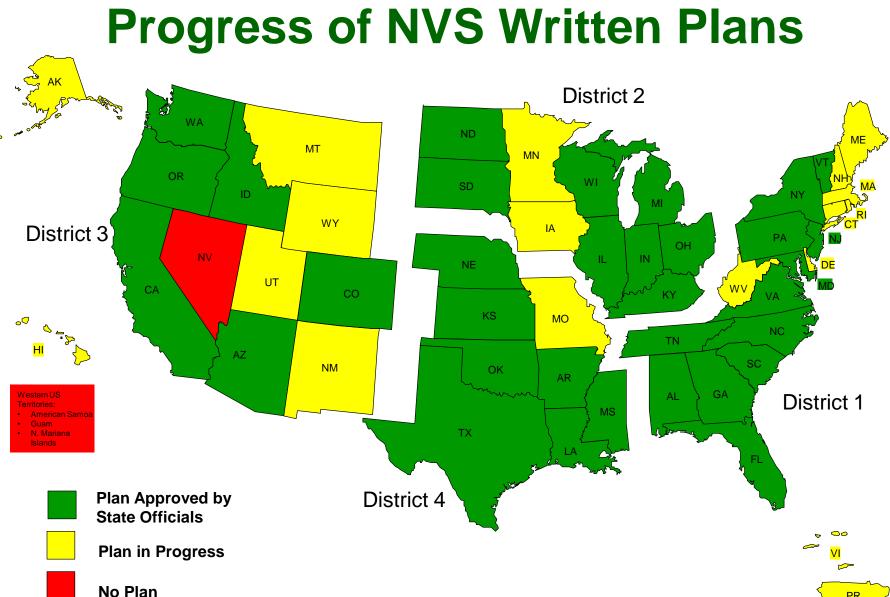
| Files | Folders |
|------------|---|
| 1-17 of 17 | |
| | ame Updated ~ Created Files NVS Catalog Updated today at 3:08 PM by GUY TITSWORTH 1 file |
| | Exercise Materials: State NVS Drill Exercise Templates Donna Hodge updated on Feb 15 13 files |
| | Exercise Materials: NVS Tabletop Exercise Templates Donna Hodge updated on Feb 15 7 files |
| | Exercise Materials: State NVS Plan Workshop Templates Donna Hodge updated on Feb 15 8 files |
| | Training Materials: Practical Exercise Materials/ Practical Exercise Key/ Writing A Statement of Work and Specifications: VIDEO Donna Hodge updated on Feb 15 1 file |
| | Training Materials: Practical Exercise Materials/ Practical Exercise Key/ Writing A Statement of Work and Specifications: FILES ONLY Donna Hodge updated on Feb 15 7 files |
| | Training Materials: Practical Exercise Materials/ Practical Exercise Key Donna Hodge updated on Feb 15 13 files |
| | Training Materials: Practical Exercise Materials/ Practical Exercise Documents Donna Hodge updated on Feb 15 9 files |
| | Training Materials: NVS State IMF Training Donna Hodge updated on Feb 15 8 files |
| | Training Materials: NVS Logistics Warehouse Training Donna Hodge updated on Feb 15 6 files |
| | Animal Vaccine Factsheets Donna Hodge updated on Feb 15 3 files |
| | State, Tribe, and Territory NVS Plans Donna Hodge updated on Feb 15 6 files |
| | NVS Planning Tools Donna Hodge updated on Feb 15 9 files |
| | State NVS Drill Exercise Templates Donna Hodge created on Feb 15 |
| | State NVS Tabletop Exercise Templates Donna Hodge created on Feb 15 |
| | Reports Donna Hodge updated on Feb 15 7 files |
| | Presentations Donna Hodge updated on Feb 15 1 file |
| | |



NVS Logistics Catalog

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





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?



Andy.Titsworth@usda.gov