

**COLORADO
DEPARTMENT OF
AGRICULTURE**

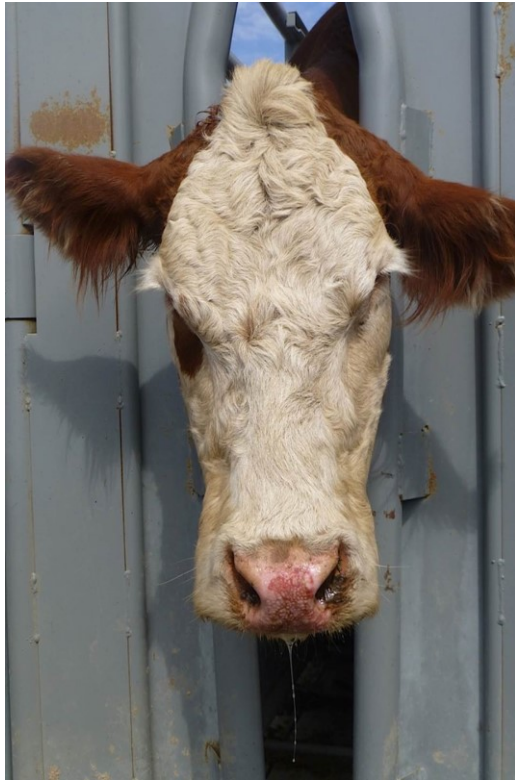


Vesicular Stomatitis Outbreak & Response

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2014 CO Vesicular Stomatitis (VS) Outbreak

A Look at the Disease



2014 CO Vesicular Stomatitis (VS) Outbreak

- ❑ Vesicular stomatitis virus affects horses and cattle and occasionally swine, sheep, goats, camelids.
- ❑ **Cyclically, endemic, foreign animal disease, OIE delisting Jan 2015**
- ❑ Primarily spread by black flies, sand flies and *Culicoides* midges that usually migrate south to north in summer months. **Infectious by vectors not very contagious.**



2014 Colorado VS Outbreak

What was different this year?

- High total number of facilities
 - ▣ 556 Investigations
 - ▣ 370 Quarantines
- First case = July 8th, 2014
- Last quarantine released Jan. 29th, 2015
- Higher morbidity on some premises
- Initially few bovine cases
- The “year of the ear” and some other peculiar presentations



2014 Colorado VS Outbreak

Peculiar Presentations:

- Equine ear lesions
- Prepuce lesions
- Umbilical lesions
- Coronary band lesions
- Coexisting EHD, Bluetongue in dairy cattle???



2014 Colorado VS Outbreak

- ❑ **What's are some of the costs or losses to livestock owners?**
 - ❑ Veterinary costs of initial diagnosis and treatment
 - ❑ Time and expense involved in treatment and prevention & biosecurity practices
 - ❑ Cost of lost production (dairy) and inability to market livestock on normal production cycles
 - ❑ Limitation of travel and participation in equine events
 - ❑ Show / Exhibition organizers' uncertainty in planning events preceding or during an outbreak

Vesicular Stomatitis – The Year of the Ear



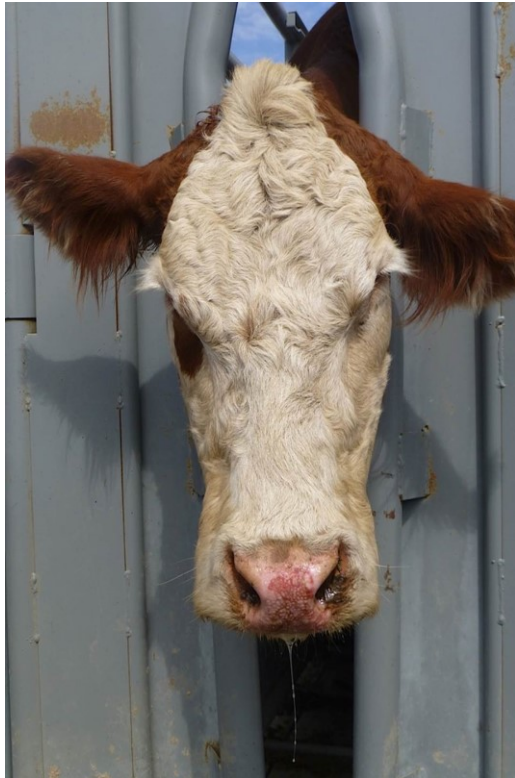
Coronary Band Lesions



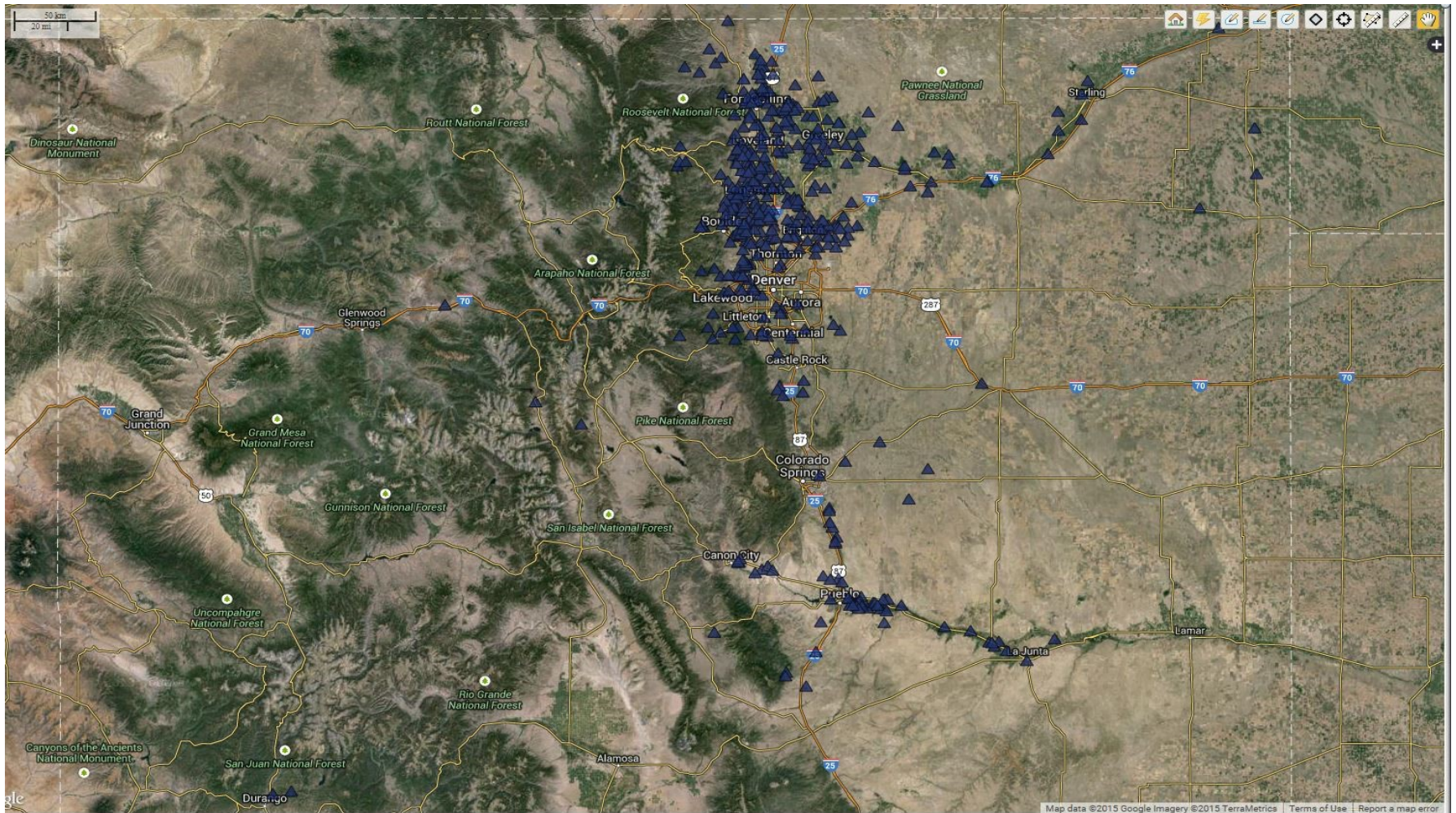
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2014 CO Vesicular Stomatitis (VS) Outbreak

A Look at the Response



Colorado 2014 VSV Quarantines (370)



Operations & Logistics

- Initial Report
- Schedule Appointment
- Exam – confirm clinical signs
- Take samples
- Package Samples
- Drop off Package for Shipment to NVSL
- Results Report
- Issue Quarantine
- Mail Quarantine Letter
- Recheck to see if can start 21 day countdown to quarantine release
- Possible additional rechecks to start 21 countdown to quarantine release
- Quarantine Release Exam
- Quarantine Release Letter Mailed
- Estimated 8 hours per case X 550 investigations = 4,400 hours

What went well?

- Completed over 550 foreign animal disease investigations!
- Closed out our last VS quarantine – Jan. 29th, 2015
- We learned a lot about our capabilities
- Collaboration between USDA, veterinary practitioners, livestock and horse industry associations, and laboratory personnel
- Communication to veterinarians, stakeholders, and public via social media, news releases, website, email
- Have new ideas on use of new tools and resources for future outbreaks

What would we do differently?

- ❑ Deploy help sooner!
(Two-deep at each position)
- ❑ Figure out the triggers in deciding when to ask for IMT
- ❑ Utilize a joint State-Federal Unified Command
- ❑ Initially utilize Eastern Colorado Incident Management Team (ECIMT) and then USDA Incident Management Teams as needed

Incident Commander

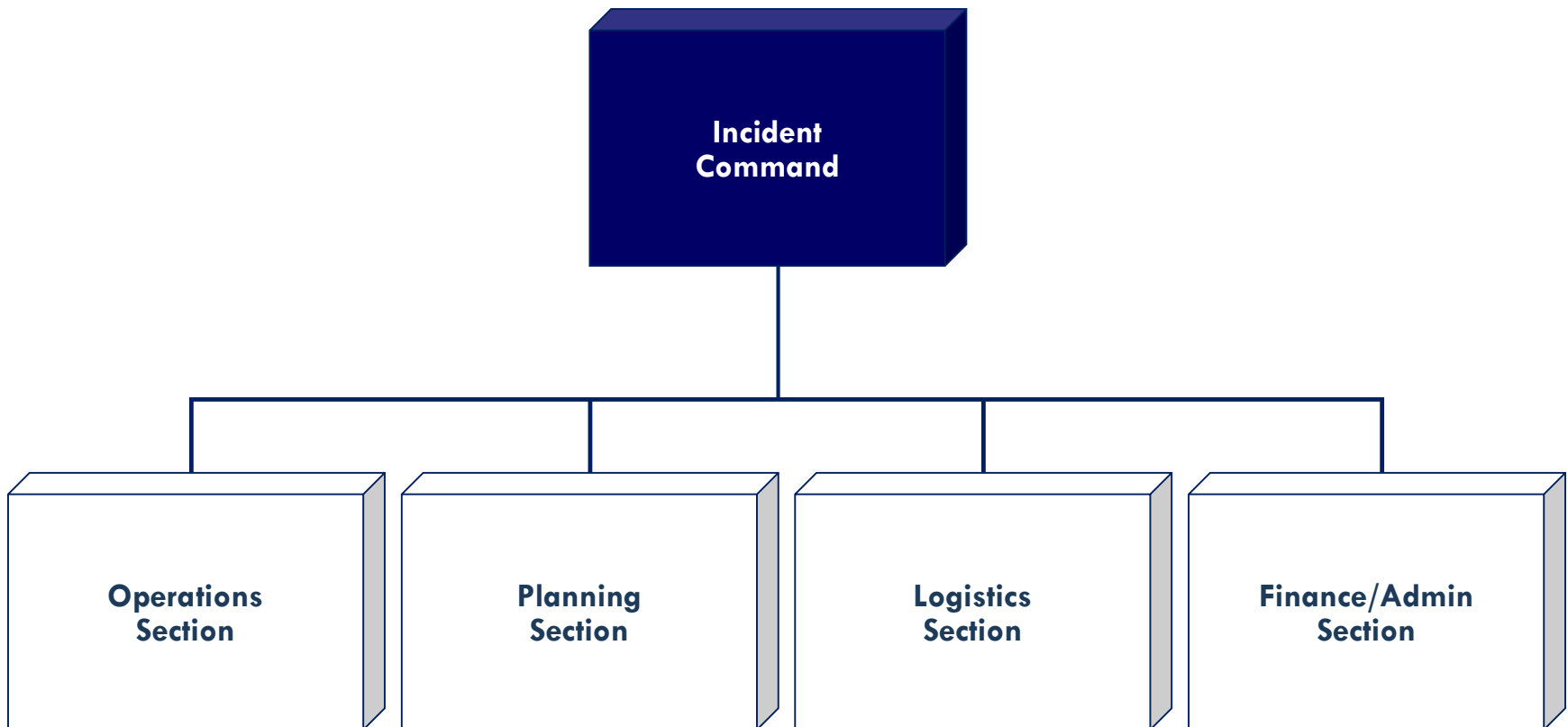
OPS Section Chief & Field Personnel

Logistics Chief

Planning Section Chief

What would we do differently?

Better Use of ICS in Managing Animal Emergency Incidents & Disease Outbreaks



What would we do differently?

Immediately dedicate large number of personnel to incident management database resources

(EMRS2, USAHerds, outbreak response spreadsheets)



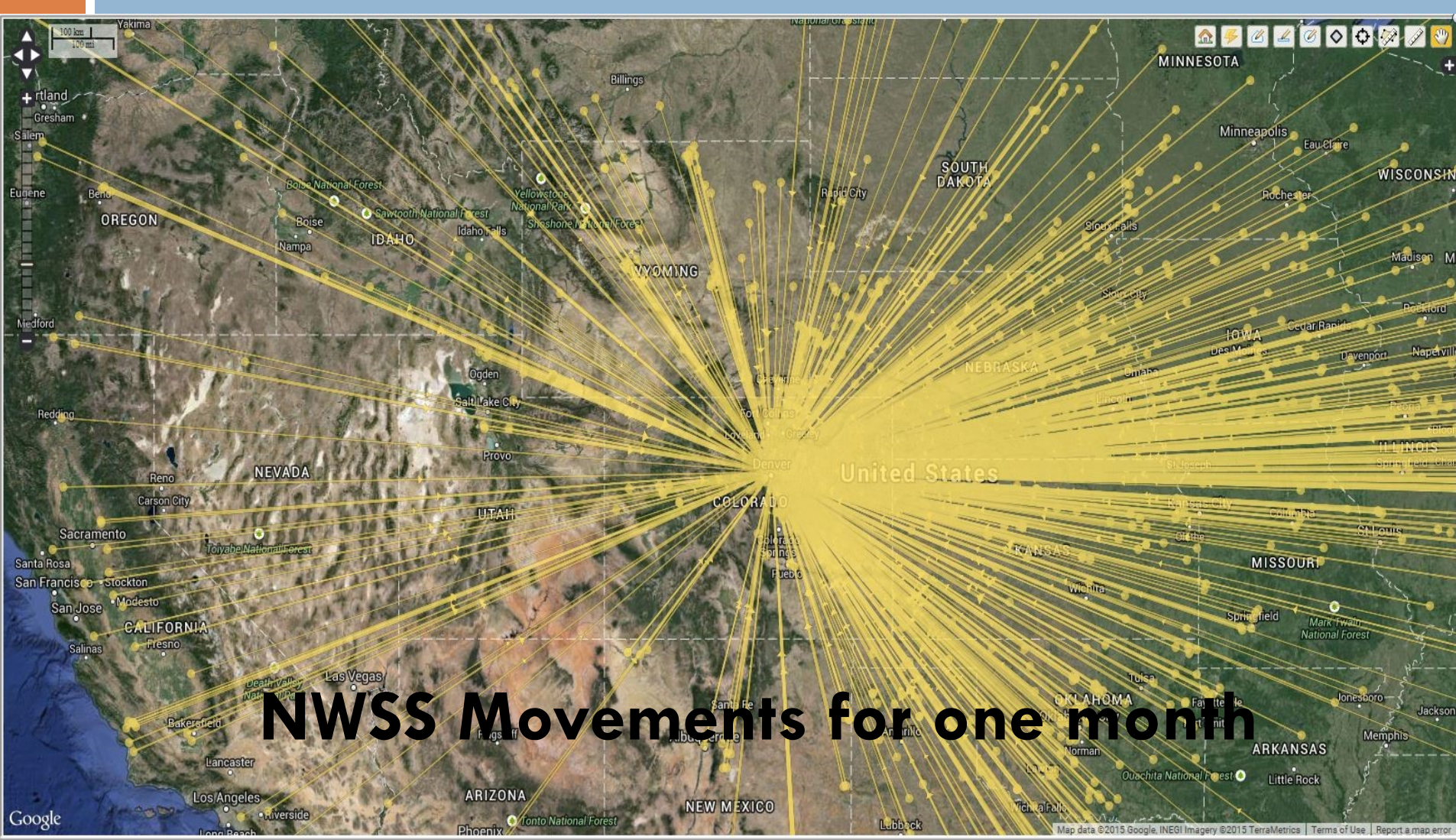
What would we do differently?

Streamline field personnel's activities, paperwork, and submission requirements



What Would We Do Differently?

Not have VS during National Western Stock Show!



Questions or Comments?

What do you think?

