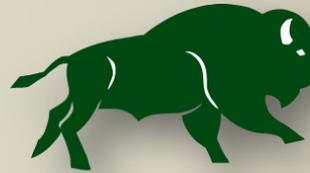


Zoo and Wildlife Disease Surveillance and Emergency Preparedness



Chicago Zoological Society
Inspiring Conservation Leadership

Thomas Meehan DVM

Chris Anchor

Michael J. Kinsel DVM





Chicago Zoological Society
Inspiring Conservation Leadership







AZA ACCREDITATION

- 230 zoos and aquariums
- Comprehensive Array of Standards
- AZA Safety Committee
- ICS model
- 2016 AZA Accreditation Standards



11.2 EMERGENCY PROCEDURES

- 11.2.4. All emergency procedures must be written and provided to staff and, where appropriate, to volunteers. Appropriate emergency procedures must be readily available for reference in the event of an actual emergency.

Explanation: An integrated emergency management and response system should combine zoo/aquarium personnel and appropriate local agencies in any incident management planning and response. An example is the US-based “Incident Command System” (ICS)...



11.2 EMERGENCY PROCEDURES

- 11.2.5. Live-action emergency drills must be conducted at least once annually for each of the four basic types of emergency (fire; weather/environment appropriate to the region; injury to staff or a visitor; animal escape)...

Explanation: Emergency drills determine if institution staff are aware of emergency procedures, and understand their respective duties and responsibilities...



11.2 EMERGENCY PROCEDURES

- 11.2.5. Live-action emergency drills must be conducted at least once annually for each of the four basic types of emergency

Explanation: ...A drill is defined as a training exercise that physically re-creates an emergency situation and response outside the circumstances of an actual emergency...

These live-action drills may be supplemented (not replaced) with table-top drills or other emergency preparedness scenarios.



11.2 EMERGENCY PROCEDURES

- 11.2.6. The institution must have a communication system that can be quickly accessed in case of an emergency.

Explanation: There should be immediate access to designated persons in case of an emergency via walkie/talkie, pager, mobile telephone, intercom, telephone, alarm, or other electronic devices.













**ASSOCIATION
OF ZOOS &
AQUARIUMS**



Remember the Zoo!

A Call for Inclusion in Community
Preparedness

ZAAHP
FUSION CENTER

Preparedness
Response
Recovery

- Currently headquartered at Association of Zoos and Aquariums, Silver Spring, MD
- 230 AZA member institutions
 - ‘Large’ facilities
 - ‘Small’ facilities

- Working to reach out to...
 - Zoological Association of America
 - Exotic Wildlife Association
 - American Sanctuary Association
 - Global Federation of Animal Sanctuaries

May 2013 NRF

...Emergency management staff in all jurisdictions have a fundamental responsibility to consider the needs of all members of the whole community....

...Staff must also consider those who own or have responsibility for animals both as members of the community who may be affected by incidents and as a potential means of supporting response efforts. This includes those with household pets, service and assistance animals, working dogs, and livestock, as well as those who have responsibility for wildlife, exotic animals, zoo animals, research animals, and animals housed in shelters, rescue organizations, breeding facilities, and sanctuaries....



- Source of preparedness materials
 - 2008: proposed rule change to the Animal Welfare Act (*currently in a stay*)
 - all licensed exhibitors should prepare written contingency plans
 - Compatible with NASAAEP planning guidelines
 - <http://www.zooanimalhealthnetwork.org/ZooBest.aspx>

Roosevelt Park Zoo 2011



*Photos courtesy of Minot Park District
and Dr. Ann Olson*

Calgary Zoo 2013 Bow River



Height=Life!



Illinois Tornadoes 2015

Belvidere zoo destroyed, but sees donations grow online

POSTED 6:03 AM, APRIL 10, 2015, BY [WGN WEB DESK](#), [MARCUS LESHOCK](#) AND [AMY RUTLEDGE](#), UPDATED AT 07:30PM, APRIL 10, 2015



Newsweek Online 2015

Animals Set Loose in Oklahoma After Tornado Hits Zoological Park

BY POLLY MOSENDZ 5/6/15 AT 11:17 PM



Zanesville 2011



Zanesville 2011



Know your community!



The screenshot shows the top portion of the USDA APHIS website. On the left is the USDA logo and the text "United States Department of Agriculture" and "Animal and Plant Health Inspection Service". On the right is a search bar with a "Search" button. Below the search bar is a horizontal navigation menu with items: Home, Our Focus (with a dropdown arrow), Resources (with a dropdown arrow), Newsroom (with a dropdown arrow), and Blog. To the right of the menu are social media icons for RSS, Email, Facebook, Twitter, YouTube, and a multi-colored dot icon. Below the navigation menu is a breadcrumb trail: "Animal Welfare / Regulated Businesses (Licensing and Registration)". Below the breadcrumb trail is a secondary navigation bar with "Animal Welfare" highlighted in a dark green box and "Regulated Businesses (Licensing and Registration)" in a light green box.

Licensed Exhibitors

- 195 licensed exhibitors in Texas

The screenshot displays the A.C.I.S. SEARCH TOOL interface. At the top, there is a navigation bar with links for Home, About APHIS, Newsroom, Career Opportunities, Help, and Contact Us. Below this, the main heading is "A.C.I.S. SEARCH TOOL - Animal Care Information System Search Tool". The interface is divided into several sections:

- Search**: Contains tabs for "Basic Search", "Advanced Search" (selected), "FAQ", and "Visitor Statistics".
- Optional Criteria Items**: A section with a dropdown menu for "Item Type" and an "Add Criteria Item" button.
- Selected Criteria Items**: A table with columns for "Edit", "Value", "Criteria Type", and "Remove". It shows a single entry with the value "Nadler". Below the table are "Start Search" and "Save Search" buttons.
- Saved Personal and Default Searches**: A section with a table for "Search Name" and "Remove". It currently shows "No rows yet."
- Results**: Contains tabs for "Licensee/Registrant Information" (selected), "Inspection Information", "Research Annual Report Information", and "Advanced Export". Below the tabs is a heading "Licensee/Registrant Information" and a table with columns for "Customer Number" and "Apply/Sort".

Sanctuaries & Private Owners



Ensuring humane and compassionate care for all animals

Home
About ASA
Accredited Sanctuaries
Sanctuary Criteria
How You Can Help
FAQ's
Why Start a Sanctuary

Accredited Sanctuaries by Species - Alphabetical List

| | | | | | | | |
|----------|----------|----------|----------|----------|----------|----------|----------|
| <u>A</u> | <u>B</u> | <u>C</u> | <u>D</u> | <u>E</u> | <u>F</u> | <u>G</u> | <u>H</u> |
| <u>I</u> | <u>J</u> | <u>K</u> | <u>L</u> | <u>M</u> | <u>N</u> | <u>O</u> | <u>P</u> |
| <u>Q</u> | <u>R</u> | <u>S</u> | <u>T</u> | <u>U</u> | <u>V</u> | <u>W</u> | <u>X</u> |
| <u>Y</u> | <u>Z</u> | | | | | | |



Check with your county!

ZAHP

FUSION CENTER

Preparedness
Response
Recovery

[HOME](#) [ABOUT](#) [PROJECTS](#) [RESOURCES](#) [NEWS](#) [CONTACT](#)



For updates on Highly Pathogenic Avian Influenza and techniques on preparing your facility [check here](#).

zahp.aza.org

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ASSOCIATION
OF ZOOS &
AQUARIUMS

What is Secure Zoo?

- It's a Roadmap... *"By the Industry; For the Industry"*
 - Not regulatory, **it's voluntary**
 - Preparedness, but HUGE recovery considerations!
- Companion to the Secure Egg, Milk, Beef projects
- SZ focus on FMD and other infectious diseases: but eventually all hazards
- The biggest challenge for our industry:
 - Our business model: How do we function in an outbreak when we have visitation as a core element?



Why Secure Zoo?

- State vets are familiar with Secure platforms
- Owners and managers learn to understand the ‘standardized language’
- Ultimately
 - Provide biosecurity audits to prevent disease
 - Guidance for business continuity and recovery
 - Lessons Learned: US HPAI, UK FMD
 - An “Exercise” to showcase Secure Zoo readiness



PURPOSE: This checklist enables state approved certified Secure Zoo Strategy auditors to evaluate zoological park premises to be permitted for continued visitation and operations (revenue and conservation) in the event of a major biosecurity threat from an outbreak of Foreign Animal Disease(s)..

REQUIREMENTS: A pre-event audit of biosecurity measures for zoo and aquarium premises is based on the following:

| Item | Evaluation: Check one option | | | Comments |
|---|------------------------------|-------------------|--------------|--|
| | Present or Satisfactory | Could be improved | Not feasible | |
| Controlled Access - Zoo Guests | | | | |
| HMD - Plan exists to limit access to specific areas and species | | | | e.g. close access to contact areas; keep susceptible animals off public walkways |
| HPAI/END - Plan exists to limit access to specific areas and species | | | | e.g. close walk-through aviaries; remove free-ranging birds |
| Signage for guests recently traveling out of country | | | | e.g. HMD outbreak in neighboring region |
| Measures are in place for for "behind-the-scenes" tours access | | | | e.g query travel history, hand-washing, eliminate high risk situations |
| Facility Measures | | | | |
| Perimeters - AZA fencing requirements | | | | Identify what wildlife and collection animals are able to traverse perimeter |
| Identify "Lines of Separation" and "Control Points" for entry/exit | | | | Identify for guests, employees, vendors |
| Identify zones within facility for which lines of separation can be created | | | | e.g. walk-through aviaries, petting zoo area, other animal contact areas |
| Identify and mitigate disease transmission risks due to facility design | | | | e.g. largely outdoor collection, behind-the-scenes tours, drive-through viewing |
| Incoming/Outgoing Collection Animals | | | | |
| Risk-based quarantine practices | | | | consider regional disease risks, institution risks, sharing of animal records |
| Consider specific disease testing related to FAD issue | | | | vaccine titers - consider DIVA HPAI vaccine |
| Assure tracking and traceback capabilities | | | | generally handled well through ZIMS or equivalent |
| Animal transport protocols | | | | decon of vehicles, route plan/audit, vehicle manifest |
| Animal food | | | | |
| Audit animal food source vendors for biosecurity | | | | particularly important for non-commercial food sources e.g. crickets, rabbits as well as |

www.securezoostrategy.org



Welcome [Infectious Animal Diseases](#) ▾ [Contributors](#) [Photos](#) [Private Portal](#) [Contact](#)

Find a Workgroup:

- Assessments & Risk
- Biosecurity
- [Response-Preservation](#)
- [Protective Measures](#)
- [Business Continuity](#)
- [Animal Movements](#)
- [Recovery](#)

Links of Interest:

- [ZAHP Fusion Center](#)
- [Zoonotic Diseases](#)
- [Antivenom Index](#)
- [Secure Food Supply Plans](#)

Search Site



Secure Zoo Strategy is a component of the Zoo and Aquarium All Hazards Preparedness Response and Recovery Center (ZAHP Fusion Center). The Secure Zoo Strategy project has as its primary goal, the production of work products that will assist the Zoo Community address the recognized National Preparedness mission areas (prevention, protection, mitigation, response, and recovery) for Foreign Animal Disease outbreaks. You can find these work products in the left sidebar or in the menu on mobile devices.

