

ISIS benefits our members in numerous ways



ISIS

Rescuing and breeding threatened animals



Through scientific expertise, genetic research, coordination, cooperation – *and the collection and exchange of accurate information* – some species have been rescued.



ISIS impact



North American black-footed ferret
Musteles nigripes

Has been reintroduced due to efforts of ISIS members – based on data kept in ISIS systems

ISIS impact



California condor
Gymnogyps californianus

Based ISIS data on zoo breeding efforts for a related species, ISIS members have cooperated on a captive breeding program for this species.

CONSERVATION BREEDING INITIATIVES

Zoos and aquariums have a role helping to save our wildlife heritage. Zoo populations can be effective conservation insurance against extinction.

Some 60 important species worldwide have been saved this way to date!

Many have since been brought back to the wild successfully when habitats were made safe or restored.



ISIS member at the Calgary Zoo,
Botanical Gardens & Prehistoric Park

ZOOS BECOMING CONSERVATION HEROES

Success with the new conservation breeding initiatives means 63 species will be “insured” against extinction.

This role will make you and your staff proud of your contributions, and raise the public image of your zoo.



Arabian Oryx
Oryx leucoryx

SUCCESS IS CRITICAL

Zoos in many regions around the world have tried to set up successful conservation programs.

SOME succeeded. SOME FAILED.

The pattern is now clear, for both success and failure. We already know how to do either one!



ISIS

HOW TO FAIL

- Announce the program to great fanfare
- Do things the same way as before
- Don't keep specimen records
- Don't use the ISIS ARKS software
- Be unable to keep current studbooks and manage populations of endangered species, because of a lack of information



HOW TO SUCCEED

- Recognize that you have to **monitor results** in order to manage these species in zoos
- Monitoring requires **readily available current information** on the animals and their populations
- Like doing financial accounts, managing animals **requires collecting data, every day**
- **Join ISIS**
- **Share data**
- **Be part of the successful solution!**

Successful programs require information

Good zoo animal records and current studbooks **every** year

- Studbooks are assembled animal specimen records
- To assemble good animal specimen records, you must have them
- ISIS ARKS software helps you keep good specimen records
- ISIS central database assembles this data by species & supports easy updates for studbooks
- ALL regions successfully breeding animals for long-term programs use ISIS



ISIS

OTHER BENEFITS

- ISIS gives you access to information from >800 other zoos worldwide
- You can find animals for your zoo
- Other zoos will see what you have
- You can find experts who know how to rear, breed, or care for a species with which you want help
- Your animal records will be immediately accepted by CITES authorities worldwide
- You join a network of zoos all over the world as an equal



ISIS

Why use ISIS software?

- ISIS software is the world standard
- ISIS almost 40 years of specialized experience and knowledge of zoo and aquarium collection data and management
- ISIS is non-profit organization that exists to serve and advance the zoological community
- The costs of developing and supporting ISIS software are shared by the ISIS global community



Why keep animal information electronically?

- Information is entered once, and used many times. Electronic files are easier to find; saving you time and effort
- Charts and printouts of your collection inventories can be generated in minutes
- Using a world standard *best practice* assures that your work fits with all of your colleagues around the world

Why keep records on individually-identified animals?

- Individual records are essential to:
- Manage your collection based on age, sex, pedigree or veterinary history
- Manage endangered species across several collections
- Essential for studbooks
- Individual records are the world standard *best practice*, which will contribute to saving our magnificent natural heritage

ISIS background



DR. ULYSSES S. SEAL

ISIS; The beginning.



ISIS founder Dr. Ulysses S. Seal persuaded the world's zoos to begin saving and breeding endangered animals four decades ago.

Each day, ISIS advances his vision and legacy by providing and enhancing a pooled knowledgebase of animal information.

Animal knowledge exchange for the global zoological community

For almost 40 years, ISIS has provided
its members with the world standard
in zoological data collection and
sharing software

The world standard

- ISIS records are accepted and preferred by CITES and other regulatory bodies worldwide
- Many national governments accept and prefer ISIS documents for national permits (E.g. Denmark requires ISIS documents to transfer animals)
- Regional Associations seek ISIS membership for their members:
 - EAZA (Europe) requires ISIS membership
 - AZA (USA) is 98% in ISIS



ISIS

Benefits of ISIS



ISIS BENEFITS

Smart animal acquisition

ISIS members have access to information on animals' history and pedigree

Managing genetic diversity

ISIS members have access to a current, global knowledgebase on animal pedigrees

ISIS BENEFITS

○ Connecting to the global zoological community

- ISIS members are part of a global community of professionals who care for animals
- Members have access to colleagues around the world for advice on breeding, rearing, veterinary problems, and more

○ Information to help you care for your collection

The type of questions ISIS answers:

- From where did this animal come?
- To whom is it related?
- How old is it?
- Has it bred?
- What health problems has it had?
- Is the zoo population of this animal breeding fast enough?
- Where is a close-by, but unrelated animal to breed with my animal?

ISIS is:

- **Credible:** Governed by an international Board of Trustees
- **Experienced:** On average, ISIS staff have 11 years of zoo experience, and 14 years of information technology experience
- **Global:** 14 languages are spoken in the ISIS offices
- Currently ISIS has staff and reps in Europe, Japan, Latin America, North America



ISIS provides

- Quality animal records systems – the basis for everything else
- Training
- Technical support for our users
- Pooled data from all members – to members
- ISIS systems are best practice for zoo management
- ISIS systems enable zoos to cooperate to save endangered species through captive programs

Create forums on various topics

- **Keepers:**

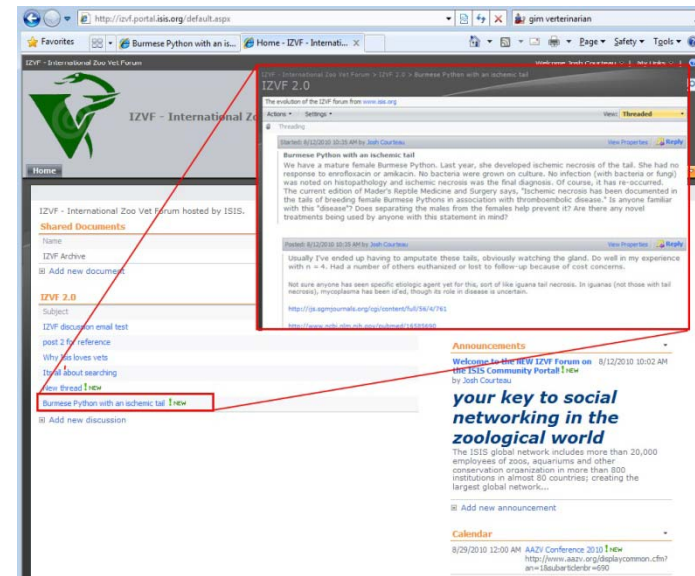
- Collaborate with other keepers around the world on better ways to feed and care for your animals

- **Educators:**

- Share educational program ideas among more than 800 institutions worldwide

- **Development staff:**

- View animal stories from all over the world
- Share news about your institution
- Publish grant results and share ideas



Create forums on various topics

Marketing staff:

- Network with your peers worldwide

Vets:

- Find the latest, pooled **recent advances** in diagnostics, treatments and dosages with colleagues **at more than 800 institutions around the globe**

Come explore the opportunities to expand your horizons – and make connections across the world!

**ASSOCIATION
OF ZOOS &
AQUARIUMS**



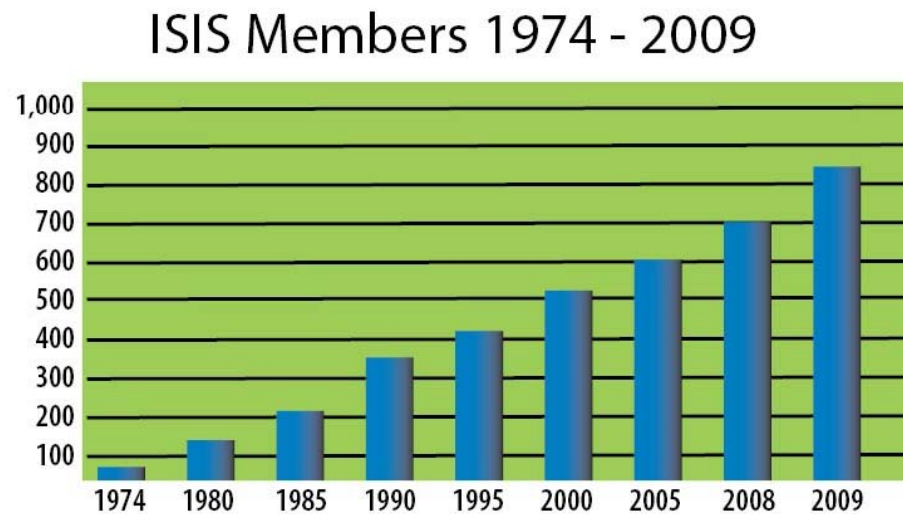
**JAPANESE
ASSOCIATION OF
ZOOS AND
AQUARIUMS**



**World Association of
Zoos and Aquariums
WAZA | United for
Conservation**

**ZOO
AQUARIUM
ASSOCIATION**

ISIS Membership



- Almost 40 years of steady growth; and continuing
- More than 800 members in more than 80 countries

More than 800 members in more than 80 countries



ZIMS by ISIS

Instant access to
global data on
thousands of species

ZIMS by ISIS
zoological information management system



ISIS

State-of-the-art information technology

- 20,000 zoo and aquarium professionals worldwide will be using the ZIMS application daily; the entire global zoological community communicating instantly
- ZIMS is the next-generation world standard zoological data collection system

INSTANT ACCESS TO GLOBAL DATA ON THOUSANDS OF SPECIES

Complete lifetime animal health history

Automatic updates across the global network

140 international studbooks; 1200 regional studbooks

Diagnostics, treatments and dosages

ZIMS contains almost 300 data standards

- First effort after more than 20 years to standardize data in our community
- More than 100 subject matter experts from across the globe
- Meaningful data for research, reports and queries

Coming ...

The ZIMS application

↳ Release 2 veterinarian system – complete clinical records including anesthesia, diagnosis, treatments, hematology/serology, lab test, necropsy, etc. Vets can search for best treatments, dosages, etc.

ZIMS
by ISIS

Future

The ZIMS application

- ↳ Release 3 automated studbooks – real time, automatic update of studbook data same-day entered into zoo data

ZIMS
by ISIS

End of 2012 – most ISIS members using ZIMS application

See updates on
www.isis.org



We must do better,
We will!

